APPENDIX G

Groundwater Quality Laboratory Reports

GEOSCIENCE

APPENDIX G:

GROUNDWATER QUALITY LABORATORY REPORTS

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ELAP Certification Number: 2385

Cal Am Water Company
Travis Peterson
511 Pacific Lodge Road, Suite 100
Pacific Grove, CA 93950

Wednesday, February 26, 2014

Lab Number: **AB12002**

Collection Date/Time:	2/18/2014	12:15	Sample Collector:	NATHAN REYNOL	
Submittal Date/Time:	2/18/2014	14:37	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B1WQ Zone #1 (274-284 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Alkalinity, Total (as CaCO3)	SM2320B	mg/L	**118**		2		2/24/2014	LRH
Aluminum, Total	EPA200.8	ug/L	**77**		10	1000	2/20/2014	SM
Ammonia-N, Dissolved	SM4500NH3 D	mg/L	**Not Detected**		0.05		2/25/2014	LH
Arsenic, Total	EPA200.8	ug/L	**38**		1	10	2/20/2014	SM
Barium, Dissolved	EPA200.8	ug/L	**138**		10		2/20/2014	SM
Bicarbonate (as HCO3-)	SM2320B	mg/L	**144**		10		2/25/2014	SM
Boron, Dissolved	EPA200.7	mg/L	**0.7**		0.05		2/21/2014	DC
Bromide, Dissolved	EPA300.0	mg/L	**41**		0.1		2/19/2014	DC
Calcium	EPA200.7	mg/L	**2718**		0.5		2/21/2014	DC
Calcium, Dissolved	EPA200.7	mg/L	**2718**		0.5		2/21/2014	DC
Carbamates by HPLC (EPA 531)	EPA531	ug/L	**Attached (ND)**	E			2/25/2014	BSK
Carbonate as CaCO3	SM2320B	mg/L	**Not Detected**		10		2/25/2014	SM
Chloride, Dissolved	EPA300.0	mg/L	**14184**		1		2/19/2014	DC
Chlorinated Pesticides and PCB (EP	EPA508	ug/L	**Attached (ND)**	E			2/24/2014	WECK
Color, Apparent (Unfiltered)	SM2120B	Color Units	**7**		3	15	2/19/2014	LRH
Copper, Total	EPA200.8	ug/L	**15**		4	1300	2/20/2014	SM
DBCP & EDB	EPA504.1	ug/L	**Attached (ND)**	E			2/20/2014	BSK
Dioxin	EPA-5 1613B	pg/L	**Attached (ND)**	E			2/22/2014	CERES
Diquat (EPA 549)	EPA549	ug/L	**Attached (ND)**	E			2/25/2014	BSK
Endothall	EPA548.1	ug/L	**Attached (ND)**	E			2/20/2014	BSK
Fluoride, Dissolved	EPA300.0	mg/L	**0.2**		0.1		2/19/2014	DC
Glyphosate	EPA547	ug/L	**Attached (ND)**	E			2/25/2014	BSK
Hardness (as CaCO3)	SM2340B	mg/L	**11070**		10		2/24/2014	DH
Hydroxide	SM2320B	mg/L	**Not Detected**		5		2/25/2014	SM
Iodide	EPA9056M	ug/L	**Attached (ND)**	E	10		2/20/2014	WECK
Iron	EPA200.7	ug/L	**362**		10	300	2/21/2014	DC
Iron, Dissolved	EPA200.7	ug/L	**362**		10	300	2/21/2014	DC
Kjehldahl Nitrogen, Dissolved	SM4500-NH3 B,	mg/L	**Not Detected**		0.5		2/19/2014	FS
Lithium	EPA200.8	ug/L	**218**		1		2/20/2014	SM
Magnesium	EPA200.7	mg/L	**1040**		0.5		2/21/2014	DC
Magnesium, Dissolved	EPA200.7	mg/L	**1041**		1		2/21/2014	DC
Manganese, Dissolved	EPA200.7	ug/L	**127**		10	50	2/21/2014	DC
MBAS (Surfactants)	SM5540C	mg/L	**Not Detected**		0.05	0.50	2/20/2014	DC
Nitrate as NO3	EPA300.0	mg/L	**Not Detected**		1	45	2/19/2014	DC
Nitrate+Nitrite as N	EPA300.0	mg/L	**Not Detected**		0.1		2/19/2014	DC
Nitrite as NO2-N, Dissolved	EPA300.0	mg/L	**Not Detected**		0.1		2/19/2014	DC
Odor Threshold at 60 C	SM2150B	TON	**1**		1	3	2/19/2014	LRH
o-Phosphate-P, Dissolved	Hach 8190	mg/L	**0.05**		0.1		2/24/2014	DH
pH (Field Test)	SM4500-H+B	pH	**6.54**				2/18/2014	NR

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

Lab Number: AB12002

Appendix G

Collection Date/Time:	2/18/2014	12:15	Sample Collector:	NATHAN REYNOL	
Submittal Date/Time:	2/18/2014	14:37	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B1WQ Zone #1 (274-284 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
pH (Laboratory)	SM4500-H+B	pH (H)	**6.7**				2/18/2014	HM
Phenoxy Acid Herbicides (515.3)	EPA515.3	ug/L	**Attached (ND)**	E			2/23/2014	BSK
Phosphorus, Dissolved	HACH 8190	mg/L	**0.06**		0.03		2/24/2014	DH
Potassium, Dissolved	EPA200.7	mg/L	**53**		0.1		2/21/2014	DC
QC Anion Sum x 100	Calculation	%	**439.66**				2/25/2014	DH
QC Cation Sum x 100	Calculation	%	**423.27**				2/25/2014	DH
QC Ratio TDS/SEC	Calculation		**0.68**				2/26/2014	DH
Reg. Org. Compounds (EPA 525)	EPA525	ug/L	**Attached (ND)**	E			2/22/2014	BSK
Silica as SiO2, Dissolved	EPA200.7	mg/L	**34**		0.5		2/21/2014	DC
Sodium, Dissolved	EPA200.7	mg/L	**4612**		0.5		2/21/2014	DC
Specific Conductance (E.C)	SM2510B	umhos/cm	**36940**		1	900	2/19/2014	HM
Specific Conductance (E.C) (Field)	SM2510B	umhos/cm	**36601**		1		2/18/2014	NR
Strontium, Dissolved	EPA200.8	ug/L	**16834**		5		2/20/2014	SM
Sulfate	EPA300.0	mg/L	**1760**		1	250	2/19/2014	DC
Temperature (Field)	SM2550	° C	**18.9**				2/18/2014	NR
Total Diss. Solids	SM2540C	mg/L	**25200**		10	500	2/19/2014	HM
Turbidity	EPA180.1	NTU	**1.6**		0.05	5.0	2/19/2014	LRH
Turbidity (Field)	EPA180.1	NTU	**0.57**		0.05		2/18/2014	NR
Volatile Org. Compounds (524)	EPA524	ug/L	**Attached (ND)**	E			2/19/2014	BSK
Zinc, Total	EPA200.8	ug/L	**99**		10	5000	2/20/2014	SM

Sample Comments: Ref AB11850

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level

H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12002**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	4612	0.04350	200.62
Potassium	53	0.02558	1.36
Calcium	2718	0.04990	135.63
Magnesium	1041	0.08229	85.66
NH3-N	0	0.07143	0.00
		SUM	423.27

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	118	0.02000	2.36
Sulfate	1760	0.02082	36.64
Chloride	14184	0.02821	400.13
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0	0.07138	0.00
Phosphate-P	0.1	0.01031	0.00
Fluoride	0.2	0.05264	0.01
Bromide	41.0	0.01252	0.51
		SUM	439.66

ANION-CATION BALANCE: **-2** (% DIFFERENCE)
Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	36940	
Cation Sum X 100	42327	**115%**
Anion Sum X 100	43966	**119%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**19.1**
Ca+Mg+Na	421.91
HCO3/Ca	0.02
dS/m	36.94
Value Table II	1.5
SAR adj	**30.4**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

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pH QC Summary (SM 4500 H+)

Date Analyzed: 2/19/2014

	Value (pH Units)	Result (pH Units)	% Rec	Acceptance Criteria %Rec
IPC	6.86	6.86	100.0	95-105

Sample ID	Sample (pH Units)	Sample Dup (pH Units)	% RPD	Acceptance Criteria % RPD
AB11937	7.5	7.5	0.0	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 2/19/2014

	Value (umhos/cm)	Result (umhos/cm)	% Rec	Acceptance Criteria %Rec
IPC	1412	1412	100.0%	95-105

Sample ID	Sample (umhos/cm)	Sample Dup (umhos/cm)	% RPD	Acceptance Criteria % RPD
AB11875	1125	1133	0.7%	10
AB11878	1542	1554	0.8%	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 2/19/2014

	Value (NTU)	Result (NTU)	% Rec	Acceptance Criteria %Rec
IPC	1.00	1.05	105.0	95-105
IPC	1.00	1.03	103.0	95-105

Sample ID	Sample (NTU)	Sample Dup (NTU)	% RPD	Acceptance Criteria % RPD
AB11866	0.15	0.15	0.7	10
AB11867	ND	ND	#VALUE!	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample
ID AB11636

Date Analyzed
Thursday, February 20, 2014 13:10:14

	IPC Blank	QCS 50	Prep Blank	LCS	LCSD	LCS/LCSD	Sample	Spiked	MS	MSD	MS-MSD	LFB	LFB	LFB-LFBD	IPC Blank
	ug/L	%Rec.	ug/L	% Rec	%Rec	%RPD	ug/L	ug/L	%Rec.	% Rec.	% RPD	% Rec	% Rec	% RPD	ug/L
		85-115%		70-130%	70-130%	20%			70-130%	70-130%	20%	85-115%	85-115%	20%	
Lithium	0.03	107.4	0.15	120.8	114.9	5.00	1.1	50	126.1	135.4	7.09	98.75	123.10	21.95	0.28
Beryllium	0.01	103.0	0.01	113.3	108.1	4.66	0.0	50	124.3	132.9	6.73	98.57	118.85	18.66	0.01
Aluminum	0.19	108.5	10.09	109.8	108.4	1.22	4.0	50	111.5	120.2	7.54	100.81	107.74	6.65	0.40
Vanadium	0.00	105.9	-1.35	108.8	108.3	0.46	0.6	50	103.1	109.1	5.69	99.61	100.81	1.19	-0.01
Chromium	-0.02	104.9	0.99	109.6	106.9	2.44	2.3	50	101.1	107.8	6.36	99.72	98.89	0.83	0.01
Iron 54	0.16	113.0	2.40	120.8	117.1	3.12	-19.8	100	111.9	120.7	7.60	106.89	103.40	3.32	-5.61
Manganese	0.02	103.5	0.09	107.7	104.3	3.19	0.1	50	102.2	110.9	8.21	98.19	100.55	2.37	0.02
Cobalt	0.01	103.1	0.01	106.8	104.1	2.59	0.0	50	99.7	108.1	8.11	99.12	97.05	2.11	0.01
Nickel	0.01	102.1	0.05	105.6	103.3	2.18	-0.1	50	96.7	105.1	8.26	98.54	95.62	3.01	0.01
Copper	0.01	101.6	0.59	109.2	105.7	3.23	0.2	50	100.2	107.0	6.57	102.00	98.81	3.18	0.01
Zinc	-0.03	113.8	25.50	123.6	108.1	13.30	31.4	50	103.1	116.2	11.94	100.37	102.62	2.22	0.05
Arsenic	0.00	102.1	0.09	106.1	102.9	3.11	0.5	50	102.8	108.7	5.58	97.34	93.69	3.83	0.10
Selenium	0.08	104.5	-0.06	106.9	104.4	2.42	1.4	250	112.1	117.0	4.27	100.45	100.79	0.34	0.12
Strontium	0.01	104.8	0.18	107.1	104.8	2.17	1.2	50	103.6	110.8	6.65	99.97	102.73	2.72	0.01
Molybdenum	0.06	99.4	0.04	106.8	105.0	1.70	0.0	50	99.6	107.8	7.95	99.04	98.13	0.92	0.05
Silver	0.16	104.8	0.11	102.5	104.0	1.50	0.0	50	100.9	110.6	9.20	102.19	101.26	0.91	0.21
Cadmium	0.02	103.8	0.08	107.5	105.5	1.92	0.0	50	103.9	109.9	5.59	98.56	100.34	1.79	0.02
Antimony	0.09	NA	0.06	106.6	105.0	1.50	0.0	50	103.6	112.0	7.73	98.44	99.82	1.40	0.07
Barium	0.01	104.1	0.08	108.8	106.9	1.69	0.2	50	102.9	111.1	7.65	100.49	101.40	0.90	0.01
Mercury	0.03	103.0	0.03	105.9	106.0	0.11	0.1	2.5	100.9	108.2	7.01	100.16	101.52	1.36	0.02
Thallium	0.01	103.1	0.08	106.4	106.2	0.14	0.0	50	101.4	108.4	6.74	99.03	99.57	0.54	0.01
Lead	0.01	107.5	0.15	110.3	107.7	2.34	0.0	50	102.1	109.2	6.79	100.67	100.58	0.09	0.01
Uranium	0.01	NA	0.00	110.2	105.9	3.99	0.0	50	102.5	109.4	6.45	99.84	100.07	0.23	0.01

MS = Matrix Spike MSD = Matrix Spike Duplicate; LFB = Laboratory Fortified Blank; LFBD = Laboratory Fortified Blank Duplicate RPD = Relative Percent Difference

ICP-OES EPA 200.7

Batch # 20140221

Analyte/		IC	Prep	LCS	%Rec	LCSD	%Rec	%Diff	IC Verification			QCS (95-105%)		
WL	Range	Blank	Blank	Value	85-115%	Value	85-115%		Value	Result	%Rec	Value	Result	%Rec
B 249.678	0.05-5ppm	0.00	0.00	1.00	100.3%	1.04	104.1%	3.7%	1	0.98	98.4%	1	0.96	96.3%
B 249.772	0.05-5ppm	0.01	0.00	1.01	100.7%	1.04	103.6%	2.9%	1	0.99	98.9%	1	0.96	96.3%
Ca 317.933	50-300ppm	-6.23	-6.24	48.1	96.3%	49.6	99.2%	3.0%	50	48.2	96.5%	50	46.8	93.6%
Ca 396.847	0.5-50ppm	-0.23	-0.24	49.1	98.2%	51.4	102.8%	4.5%	50	49.1	98.2%	50	48.7	97.5%
Cu 324.754	10ppb-100ppm	-3.68	-2.80	997	99.7%	1038	103.8%	4.0%	1000	984	98.4%	1000	984	98.4%
Cu 327.395	10ppb-100ppm	-0.27	0.98	990	99.0%	1025	102.5%	3.5%	1000	980	98.0%	1000	983	98.3%
Fe 238.204	10ppb-100ppm	0.91	0.00	992	99.2%	1017	101.7%	2.5%	1000	984	98.4%	1000	965	96.5%
Fe 259.940	10ppb-100ppm	-0.38	0.60	992	99.2%	1025	102.5%	3.2%	1000	995	99.5%	1000	968	96.8%
K 766.491	0.1-750ppm	0.14	0.11	9.8	97.7%	10.2	101.8%	4.1%	10	9.8	97.7%	10	9.6	96.2%
Mg 202.582	50-1000ppm	-2.11	-2.13	49.1	98.2%	51.0	102.0%	3.8%	50	49.4	98.9%	50	48.6	97.3%
Mg 279.078	0.5-50ppm	0.01	-0.03	49.2	98.4%	50.9	101.8%	3.4%	50	49.3	98.6%	50	48.5	96.9%
Mn 257.610	10ppb-11ppm	-1.16	-1.87	994	99.4%	1022	102.2%	2.8%	1000	986	98.6%	1000	966	96.6%
Mn 260.568	10ppb-11ppm	-0.35	-1.41	990	99.0%	1020	102.0%	3.0%	1000	978	97.8%	1000	960	96.0%
Na 568.821	50-1000ppm	2.64	3.62	47.6	95.3%	48.8	97.5%	2.3%	50	47.9	95.7%	50	47.8	95.5%
Na 589.592	0.5-50ppm	0.11	0.05	49.3	98.6%	51.2	102.4%	3.8%	50	49.5	99.0%	50	48.3	96.7%
Si 251.611	0.5-200ppm	0.12	0.05	50.0	99.9%	51.1	102.2%	2.2%	50	49.3	98.6%	107	102.5	95.8%
Si 252.411	0.5-200ppm	0.13	0.04	50.2	100.4%	51.1	102.3%	1.8%	50	49.3	98.5%	107	102.7	96.0%
Zn 213.857	10ppb-50ppm	-1.25	-3.10	989	98.9%	1017	101.7%	2.9%	1000	989	98.9%	1000	958	95.8%

Matrix Spikes

Sample ID AB11636

Analyte/	Sample	MS	%Rec	MSD	%Rec	%Diff	CCV (90-110%)			%Diff	CC
WL	Value	Value	70-130%	Value	70-130%		Value	Result	%Rec	10%	Blank
B 249.678	0.18	1.17	98.1%	1.17	98.8%	0.6%	1	1.00	99.8%	1.4%	0.00
B 249.772	0.18	1.17	98.2%	1.17	98.2%	0.0%	1	1.00	100.0%	1.0%	0.00
Ca 317.933	-6.23	46.7	105.9%	47.0	106.4%	0.6%	50	47.9	95.7%	0.8%	-6.25
Ca 396.847	-0.23	48.9	98.2%	48.8	98.1%	0.2%	50	49.7	99.5%	1.3%	-0.25
Cu 324.754	-3.42	991	99.4%	998	100.1%	0.7%	1000	995	99.5%	1.2%	-2.54
Cu 327.395	2.88	990	98.7%	995	99.2%	0.5%	1000	997	99.7%	1.7%	0.99
Fe 238.204	-1.92	970	97.2%	972	97.4%	0.2%	1000	992	99.2%	0.8%	0.05
Fe 259.940	-2.92	970	97.3%	974	97.6%	0.4%	1000	993	99.3%	0.1%	0.37
K 766.491	0.63	10.2	95.9%	10.3	96.4%	0.4%	10	9.9	99.4%	1.7%	0.11
Mg 202.582	-2.18	49.1	102.5%	49.2	102.8%	0.3%	50	49.8	99.6%	0.7%	-2.12
Mg 279.078	-0.01	48.9	97.8%	48.9	97.8%	0.0%	50	49.6	99.2%	0.6%	-0.01
Mn 257.610	-2.30	976	97.8%	975	97.7%	0.1%	1000	990	99.0%	0.4%	-1.91
Mn 260.568	-0.84	972	97.3%	970	97.1%	0.2%	1000	988	98.8%	1.0%	-1.00
Na 568.821	5.30	53.0	95.5%	51.3	92.0%	3.3%	50	47.5	95.0%	0.8%	2.91
Na 589.592	4.81	53.6	97.6%	53.9	98.1%	0.5%	50	50.3	100.5%	1.5%	0.06
Si 251.611	0.32	49.4	98.2%	49.5	98.3%	0.2%	50	49.4	98.7%	0.2%	0.02
Si 252.411	0.34	49.3	98.0%	49.5	98.3%	0.3%	50	49.4	98.9%	0.3%	0.02
Zn 213.857	19.84	995	97.5%	995	97.5%	0.0%	1000	987	98.7%	0.2%	-2.05

Note: Italics indicates that the result is outside the calibration range.

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MONTEREY BAY ANALYTICAL SERVICES
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4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Alkalinity QC Summary (SM 2320B)

Date Analyzed: 2/24/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	40	39.1	97.75	95-105

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12018	118.9	118.3	0.5	10
AB12030	125.3	125.9	0.5	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Ortho Phosphate QC Summary (Hach 8190)

Date: 2/24/2004

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
LCS	0.200	0.213	106.5	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12030	0.068	0.200	0.289	0.295	110.5	113.5	2.1	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Phosphorus QC Summary (Hach 8190)

Date: 2/24/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
LCS	0.200	0.187	93.5	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12030	0.074	0.200	0.256	0.262	91	94	2.3	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 2/25/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC Low	0.050	0.049	98	90-110
IPC	0.500	0.453	90.6	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB11890	1.080	0.500	1.530	1.630	90	110	6.3	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery

Date Analyzed: 20140219

4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

300.0 QC Summary

All units expressed in mg/L

		F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
		2	20	2	20	2	2	2
IPC		2.01	19.75	2.12	19.47	2.09	2.00	1.97
Recovery	90-110%	100.29	98.77	105.97	97.36	104.51	100.01	98.29
CCV1		2.03	19.83	2.14	19.55	2.10	2.00	1.98
Recovery	90-110%	101.26	99.16	106.88	97.74	104.95	100.07	98.96
RPD	10%	0.97	0.40	0.86	0.38	0.42	0.06	0.68

		F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
		2	20	2	20	2	2	2
AB11882		0.57	137.88	0.10	69.99	0.00	8.01	4.80
AB11882+LFM		2.65	160.31	1.90	90.14	1.68	10.14	6.98
AB11882+LFMD		2.43	160.23	1.97	89.99	1.67	10.16	7.04
Average		2.54	160.27	1.93	90.06	1.68	10.15	7.01
Recovery	80-120%	98.66	111.99	91.96	100.35	83.78	107.13	110.30
RPD	10%	8.40	0.05	4.05	0.16	1.10	0.23	0.95

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A4B1386 General

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/19/2014. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Monterey Bay Analytical	**Invoice To:**	Monterey Bay Analytical
Report To:	David Holland	**Invoice Attn:**	David Holland
Project #:	Cal Am	**Project PO#:**	-
Received:	2/19/2014 - 10:30		
Report Due:	2/26/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 4.0

Containers Intact
COC/Labels Agree
Packing Material - Bubble Wrap
Packing Material - Foam
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

B	Analyte exceeds laboratory acceptance limit for blank contamination.
B1.1	Analyte detected in associated method blank. No material impact on reported result as sample is ND for this parameter.
BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
BS3.0	BS/BSD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.

Report Distribution

Recipient(s)	Report Format
David Holland	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1386-01
Sampled By: Nathan Reynolds
Sample Description: CX-B1WQ Zone #1 // 11850

Sample Date - Time: 02/18/14 - 12:15
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A402098	02/20/14	02/20/14	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A402098	02/20/14	02/20/14	
Surrogate: TCMX	EPA 504.1	98 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A402176	02/20/14	02/23/14	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A402176	02/20/14	02/23/14	
2,4-D	EPA 515.3	ND	10	ug/L	1	A402176	02/20/14	02/23/14	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A402176	02/20/14	02/23/14	
Dalapon	EPA 515.3	ND	10	ug/L	1	A402176	02/20/14	02/23/14	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A402176	02/20/14	02/23/14	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A402176	02/20/14	02/23/14	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A402176	02/20/14	02/23/14	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A402176	02/20/14	02/23/14	
Surrogate: DCPAA	EPA 515.3	82 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A402017	02/19/14	02/19/14	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A402017	02/19/14	02/19/14	BS1.0
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A402017	02/19/14	02/19/14	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A402017	02/19/14	02/19/14	
Acetone	EPA 524.2	ND	10	ug/L	1	A402017	02/19/14	02/19/14	BS1.0

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1386-01
Sampled By: Nathan Reynolds
Sample Description: CX-B1WQ Zone #1 // 11850

Sample Date - Time: 02/18/14 - 12:15
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Benzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	B1.1
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A402017	02/19/14	02/19/14	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A402017	02/19/14	02/19/14	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A402017	02/19/14	02/19/14	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A402017	02/19/14	02/19/14	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A402017	02/19/14	02/19/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1386-01
Sampled By: Nathan Reynolds
Sample Description: CX-B1WQ Zone #1 // 11850

Sample Date - Time: 02/18/14 - 12:15
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	99 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	104 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A402247	02/21/14	02/22/14	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A402247	02/21/14	02/22/14	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A402247	02/21/14	02/22/14	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A402247	02/21/14	02/22/14	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A402247	02/21/14	02/22/14	
Bromacil	EPA 525.2	ND	10	ug/L	1	A402247	02/21/14	02/22/14	
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A402247	02/21/14	02/22/14	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A402247	02/21/14	02/22/14	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A402247	02/21/14	02/22/14	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A402247	02/21/14	02/22/14	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A402247	02/21/14	02/22/14	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A402247	02/21/14	02/22/14	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A402247	02/21/14	02/22/14	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A402247	02/21/14	02/22/14	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A402247	02/21/14	02/22/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	103 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A402279	02/23/14	02/25/14	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A402279	02/23/14	02/25/14	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A402279	02/23/14	02/25/14	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A402279	02/23/14	02/25/14	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A402279	02/23/14	02/25/14	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A402279	02/23/14	02/25/14	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A402279	02/23/14	02/25/14	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A402279	02/23/14	02/25/14	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A402145	02/19/14	02/20/14	
Surrogate: AMPA	EPA 547	108 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A402157	02/19/14	02/20/14	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A402181	02/20/14	02/25/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A402098										Prepared: 02/20/2014	
Prep Method: EPA 504.1										Analyst: PYA	
Blank (A402098-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							02/20/14	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							02/20/14	
Surrogate: TCMX	*3.0*			*3.0*		*102*	*70-130*			02/20/14	
Blank Spike (A402098-BS1)											
Dibromochloropropane (DBCP)	0.12	0.010	ug/L	0.12		95	70-130			02/20/14	
Ethylene Dibromide (EDB)	0.10	0.020	ug/L	0.12		82	70-130			02/20/14	
Surrogate: TCMX	*2.7*			*3.0*		*90*	*70-130*			02/20/14	
Blank Spike Dup (A402098-BSD1)											
Dibromochloropropane (DBCP)	0.13	0.010	ug/L	0.12		100	70-130	5	20	02/21/14	
Ethylene Dibromide (EDB)	0.11	0.020	ug/L	0.12		85	70-130	4	20	02/21/14	
Surrogate: TCMX	*2.8*			*3.0*		*93*	*70-130*			02/21/14	
Matrix Spike (A402098-MS1), Source: A4B0914-01											
Dibromochloropropane (DBCP)	0.50	0.010	ug/L	0.12	0.36	107	65-135			02/20/14	
Ethylene Dibromide (EDB)	0.11	0.020	ug/L	0.12	ND	87	65-135			02/20/14	
Surrogate: TCMX	*2.7*			*3.0*		*93*	*70-130*			02/20/14	
EPA 515.3 - Quality Control											
Batch: A402176										Prepared: 02/20/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A402176-BLK1)											
2,4,5-T	ND	1.0	ug/L							02/22/14	
2,4,5-TP (Silvex)	ND	1.0	ug/L							02/22/14	
2,4-D	ND	10	ug/L							02/22/14	
Bentazon	ND	2.0	ug/L							02/22/14	
Dalapon	ND	10	ug/L							02/22/14	
Dicamba	ND	1.5	ug/L							02/22/14	
Dinoseb	ND	2.0	ug/L							02/22/14	
Pentachlorophenol	ND	0.20	ug/L							02/22/14	
Picloram	ND	1.0	ug/L							02/22/14	
Surrogate: DCPAA	*45*			*58*		*78*	*70-130*			02/22/14	
Blank Spike (A402176-BS1)											
2,4,5-T	4.0	1.0	ug/L	4.0		99	70-130			02/22/14	
2,4,5-TP (Silvex)	0.80	1.0	ug/L	0.80		101	70-130			02/22/14	
2,4-D	0.40	10	ug/L	0.40		99	70-130			02/22/14	
Bentazon	8.1	2.0	ug/L	8.0		102	70-130			02/22/14	
Dalapon	3.4	10	ug/L	4.0		86	70-130			02/22/14	
Dicamba	5.7	1.5	ug/L	6.0		95	70-130			02/22/14	
Dinoseb	0.80	2.0	ug/L	0.80		100	70-130			02/22/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16		97	70-130			02/22/14	
Picloram	0.29	1.0	ug/L	0.40		72	70-130			02/22/14	
Surrogate: DCPAA	*46*			*58*		*80*	*70-130*			02/22/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A402176										Prepared: 02/20/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A402176-BSD1)											
2,4,5-T	4.1	1.0	ug/L	4.0		102	70-130	3	20	02/23/14	
2,4,5-TP (Silvex)	0.85	1.0	ug/L	0.80		107	70-130	6	20	02/23/14	
2,4-D	0.41	10	ug/L	0.40		103	70-130	4	20	02/23/14	
Bentazon	6.7	2.0	ug/L	8.0		83	70-130	20	20	02/23/14	
Dalapon	3.9	10	ug/L	4.0		97	70-130	12	20	02/23/14	
Dicamba	6.0	1.5	ug/L	6.0		99	70-130	4	20	02/23/14	
Dinoseb	0.81	2.0	ug/L	0.80		101	70-130	2	20	02/23/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16		96	70-130	1	20	02/23/14	
Picloram	0.36	1.0	ug/L	0.40		90	70-130	22	20	02/23/14	BS3.0
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			02/23/14	
Matrix Spike (A402176-MS1), Source: A4B1147-01											
2,4,5-T	4.0	1.0	ug/L	4.0	ND	101	70-130			02/22/14	
2,4,5-TP (Silvex)	0.81	1.0	ug/L	0.80	ND	101	70-130			02/22/14	
2,4-D	0.41	10	ug/L	0.40	ND	102	70-130			02/22/14	
Bentazon	8.6	2.0	ug/L	8.0	ND	107	70-130			02/22/14	
Dalapon	3.8	10	ug/L	4.0	ND	94	70-130			02/22/14	
Dicamba	6.0	1.5	ug/L	6.0	ND	101	70-130			02/22/14	
Dinoseb	0.80	2.0	ug/L	0.80	ND	100	70-130			02/22/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	95	70-130			02/22/14	
Picloram	0.36	1.0	ug/L	0.40	ND	90	70-130			02/22/14	
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			02/22/14	
Matrix Spike Dup (A402176-MSD1), Source: A4B1147-01											
2,4,5-T	4.0	1.0	ug/L	4.0	ND	100	70-130	1	20	02/22/14	
2,4,5-TP (Silvex)	0.80	1.0	ug/L	0.80	ND	100	70-130	1	20	02/22/14	
2,4-D	0.40	10	ug/L	0.40	ND	101	70-130	1	20	02/22/14	
Bentazon	9.6	2.0	ug/L	8.0	ND	120	70-130	11	20	02/22/14	
Dalapon	3.6	10	ug/L	4.0	ND	90	70-130	4	20	02/22/14	
Dicamba	5.9	1.5	ug/L	6.0	ND	99	70-130	2	20	02/22/14	
Dinoseb	0.80	2.0	ug/L	0.80	ND	99	70-130	1	20	02/22/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	94	70-130	1	20	02/22/14	
Picloram	0.33	1.0	ug/L	0.40	ND	81	70-130	10	20	02/22/14	
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			02/22/14	
EPA 524.2 - Quality Control											
Batch: A402017										Prepared: 02/19/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A402017-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							02/19/14	
1,1,1-Trichloroethane	ND	0.50	ug/L							02/19/14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							02/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							02/19/14	
1,1,2-Trichloroethane	ND	0.50	ug/L							02/19/14	
1,1-Dichloroethane	ND	0.50	ug/L							02/19/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual

EPA 524.2 - Quality Control

Batch: A402017 Prepared: 02/19/2014

Prep Method: EPA 524.2 Analyst: JGB

Blank (A402017-BLK1)											
1,1-Dichloroethene	ND	0.50	ug/L							02/19/14	
1,1-Dichloropropene	ND	0.50	ug/L							02/19/14	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							02/19/14	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							02/19/14	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							02/19/14	
1,2-Dichlorobenzene	ND	0.50	ug/L							02/19/14	
1,2-Dichloroethane	ND	0.50	ug/L							02/19/14	
1,2-Dichloropropane	ND	0.50	ug/L							02/19/14	
1,3,5-Trimethylbenzene	ND	0.50	ug/L							02/19/14	
1,3-Dichlorobenzene	ND	0.50	ug/L							02/19/14	
1,3-Dichloropropane	ND	0.50	ug/L							02/19/14	
1,4-Dichlorobenzene	ND	0.50	ug/L							02/19/14	
2,2-Dichloropropane	ND	0.50	ug/L							02/19/14	
2-Butanone	ND	5.0	ug/L							02/19/14	
2-Chlorotoluene	ND	0.50	ug/L							02/19/14	
2-Hexanone	ND	10	ug/L							02/19/14	
4-Chlorotoluene	ND	0.50	ug/L							02/19/14	
4-Methyl-2-pentanone	ND	5.0	ug/L							02/19/14	
Acetone	ND	10	ug/L							02/19/14	
Benzene	ND	0.50	ug/L							02/19/14	
Bromobenzene	ND	0.50	ug/L							02/19/14	
Bromochloromethane	ND	0.50	ug/L							02/19/14	
Bromodichloromethane	ND	0.50	ug/L							02/19/14	
Bromoform	ND	0.50	ug/L							02/19/14	
Bromomethane	ND	0.50	ug/L							02/19/14	
Carbon Tetrachloride	ND	0.50	ug/L							02/19/14	
Chlorobenzene	ND	0.50	ug/L							02/19/14	
Chloroethane	ND	0.50	ug/L							02/19/14	
Chloroform	ND	0.50	ug/L							02/19/14	
Chloromethane	ND	0.50	ug/L							02/19/14	
cis-1,2-Dichloroethene	ND	0.50	ug/L							02/19/14	
cis-1,3-Dichloropropene	ND	0.50	ug/L							02/19/14	
Dibromochloromethane	ND	0.50	ug/L							02/19/14	
Dibromomethane	ND	0.50	ug/L							02/19/14	
Dichlorodifluoromethane	ND	0.50	ug/L							02/19/14	
Dichloromethane	0.55	0.50	ug/L							02/19/14	B
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							02/19/14	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							02/19/14	
Ethylbenzene	ND	0.50	ug/L							02/19/14	
Hexachlorobutadiene	ND	0.50	ug/L							02/19/14	
Isopropylbenzene	ND	0.50	ug/L							02/19/14	
m,p-Xylenes	ND	0.50	ug/L							02/19/14	
Methyl-t-butyl ether	ND	0.50	ug/L							02/19/14	
Naphthalene	ND	0.50	ug/L							02/19/14	
n-Butylbenzene	ND	0.50	ug/L							02/19/14	
n-Propylbenzene	ND	0.50	ug/L							02/19/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A402017										Prepared: 02/19/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A402017-BLK1)											
o-Xylene	ND	0.50	ug/L							02/19/14	
p-Isopropyltoluene	ND	0.50	ug/L							02/19/14	
sec-Butylbenzene	ND	0.50	ug/L							02/19/14	
Styrene	ND	0.50	ug/L							02/19/14	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							02/19/14	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							02/19/14	
tert-Butylbenzene	ND	0.50	ug/L							02/19/14	
Tetrachloroethene (PCE)	ND	0.50	ug/L							02/19/14	
Toluene	ND	0.50	ug/L							02/19/14	
trans-1,2-Dichloroethene	ND	0.50	ug/L							02/19/14	
trans-1,3-Dichloropropene	ND	0.50	ug/L							02/19/14	
Trichloroethene (TCE)	ND	0.50	ug/L							02/19/14	
Trichlorofluoromethane	ND	5.0	ug/L							02/19/14	
Vinyl Chloride	ND	0.50	ug/L							02/19/14	
Surrogate: 1,2-Dichlorobenzene-d4	*4.9*			*5.0*		*98*	*70-130*			02/19/14	
Surrogate: Bromofluorobenzene	*51*			*50*		*102*	*70-130*			02/19/14	
Blank Spike (A402017-BS1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		104	70-130			02/19/14	
1,1,1-Trichloroethane	11	0.50	ug/L	10		106	70-130			02/19/14	
1,1,2,2-Tetrachloroethane	10	0.50	ug/L	10		102	70-130			02/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	11	10	ug/L	10		112	70-130			02/19/14	
1,1,2-Trichloroethane	10	0.50	ug/L	10		103	70-130			02/19/14	
1,1-Dichloroethane	10	0.50	ug/L	10		105	70-130			02/19/14	
1,1-Dichloroethene	12	0.50	ug/L	10		117	70-130			02/19/14	
1,1-Dichloropropene	11	0.50	ug/L	10		106	70-130			02/19/14	
1,2,3-Trichlorobenzene	9.7	0.50	ug/L	10		97	70-130			02/19/14	
1,2,4-Trichlorobenzene	10	0.50	ug/L	10		101	70-130			02/19/14	
1,2,4-Trimethylbenzene	9.5	0.50	ug/L	10		95	70-130			02/19/14	
1,2-Dichlorobenzene	10	0.50	ug/L	10		101	70-130			02/19/14	
1,2-Dichloroethane	10	0.50	ug/L	10		102	70-130			02/19/14	
1,2-Dichloropropane	10	0.50	ug/L	10		104	70-130			02/19/14	
1,3,5-Trimethylbenzene	10	0.50	ug/L	10		100	70-130			02/19/14	
1,3-Dichlorobenzene	11	0.50	ug/L	10		108	70-130			02/19/14	
1,3-Dichloropropane	10	0.50	ug/L	10		101	70-130			02/19/14	
1,4-Dichlorobenzene	10	0.50	ug/L	10		101	70-130			02/19/14	
2,2-Dichloropropane	11	0.50	ug/L	10		106	70-130			02/19/14	
2-Butanone	12	5.0	ug/L	10		119	70-130			02/19/14	
2-Chlorotoluene	10	0.50	ug/L	10		103	70-130			02/19/14	
2-Hexanone	11	10	ug/L	10		109	70-130			02/19/14	
4-Chlorotoluene	10	0.50	ug/L	10		104	70-130			02/19/14	
4-Methyl-2-pentanone	11	5.0	ug/L	10		112	70-130			02/19/14	
Acetone	13	10	ug/L	10		127	70-130			02/19/14	
Benzene	10	0.50	ug/L	10		104	70-130			02/19/14	
Bromobenzene	10	0.50	ug/L	10		101	70-130			02/19/14	
Bromochloromethane	11	0.50	ug/L	10		107	70-130			02/19/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A402017										Prepared: 02/19/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike (A402017-BS1)											
Bromodichloromethane	11	0.50	ug/L	10		108	70-130			02/19/14	
Bromoform	11	0.50	ug/L	10		105	70-130			02/19/14	
Bromomethane	8.2	0.50	ug/L	10		82	70-130			02/19/14	
Carbon Tetrachloride	11	0.50	ug/L	10		108	70-130			02/19/14	
Chlorobenzene	10	0.50	ug/L	10		104	70-130			02/19/14	
Chloroethane	9.8	0.50	ug/L	10		98	70-130			02/19/14	
Chloroform	10	0.50	ug/L	10		102	70-130			02/19/14	
Chloromethane	10	0.50	ug/L	10		104	70-130			02/19/14	
cis-1,2-Dichloroethene	10	0.50	ug/L	10		101	70-130			02/19/14	
cis-1,3-Dichloropropene	9.6	0.50	ug/L	10		96	70-130			02/19/14	
Dibromochloromethane	10	0.50	ug/L	10		102	70-130			02/19/14	
Dibromomethane	10	0.50	ug/L	10		100	70-130			02/19/14	
Dichlorodifluoromethane	11	0.50	ug/L	10		113	70-130			02/19/14	
Dichloromethane	11	0.50	ug/L	10		109	70-130			02/19/14	
Di-isopropyl ether (DIPE)	11	3.0	ug/L	10		114	70-130			02/19/14	
Ethyl tert-Butyl Ether (ETBE)	11	0.50	ug/L	10		111	70-130			02/19/14	
Ethylbenzene	11	0.50	ug/L	10		106	70-130			02/19/14	
Hexachlorobutadiene	11	0.50	ug/L	10		110	70-130			02/19/14	
Isopropylbenzene	10	0.50	ug/L	10		100	70-130			02/19/14	
m,p-Xylenes	20	0.50	ug/L	20		101	70-130			02/19/14	
Methyl-t-butyl ether	21	0.50	ug/L	20		105	70-130			02/19/14	
Naphthalene	9.6	0.50	ug/L	10		96	70-130			02/19/14	
n-Butylbenzene	10	0.50	ug/L	10		102	70-130			02/19/14	
n-Propylbenzene	11	0.50	ug/L	10		106	70-130			02/19/14	
o-Xylene	10	0.50	ug/L	10		101	70-130			02/19/14	
p-Isopropyltoluene	11	0.50	ug/L	10		106	70-130			02/19/14	
sec-Butylbenzene	10	0.50	ug/L	10		103	70-130			02/19/14	
Styrene	12	0.50	ug/L	10		118	70-130			02/19/14	
tert-Amyl Methyl Ether (TAME)	12	3.0	ug/L	10		116	70-130			02/19/14	
tert-Butyl alcohol (TBA)	12	2.0	ug/L	10		120	70-130			02/19/14	
tert-Butylbenzene	10	0.50	ug/L	10		105	70-130			02/19/14	
Tetrachloroethene (PCE)	11	0.50	ug/L	10		107	70-130			02/19/14	
Toluene	10	0.50	ug/L	10		102	70-130			02/19/14	
trans-1,2-Dichloroethene	11	0.50	ug/L	10		107	70-130			02/19/14	
trans-1,3-Dichloropropene	11	0.50	ug/L	10		109	70-130			02/19/14	
Trichloroethene (TCE)	9.7	0.50	ug/L	10		97	70-130			02/19/14	
Trichlorofluoromethane	11	5.0	ug/L	10		108	70-130			02/19/14	
Vinyl Chloride	11	0.50	ug/L	10		109	70-130			02/19/14	
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*101*	*70-130*			02/19/14	
Surrogate: Bromofluorobenzene	*51*			*50*		*102*	*70-130*			02/19/14	
Blank Spike Dup (A402017-BSD1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		104	70-130	0	30	02/19/14	
1,1,1-Trichloroethane	10	0.50	ug/L	10		103	70-130	3	30	02/19/14	
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		106	70-130	4	30	02/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	11	10	ug/L	10		107	70-130	4	30	02/19/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402017 Prepared: 02/19/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A402017-BSD1)												
1,1,2-Trichloroethane	10	0.50	ug/L	10		104	70-130	1	30	02/19/14		
1,1-Dichloroethane	10	0.50	ug/L	10		102	70-130	3	30	02/19/14		
1,1-Dichloroethene	11	0.50	ug/L	10		108	70-130	8	30	02/19/14		
1,1-Dichloropropene	10	0.50	ug/L	10		103	70-130	3	30	02/19/14		
1,2,3-Trichlorobenzene	9.6	0.50	ug/L	10		96	70-130	1	30	02/19/14		
1,2,4-Trichlorobenzene	10	0.50	ug/L	10		100	70-130	1	30	02/19/14		
1,2,4-Trimethylbenzene	9.5	0.50	ug/L	10		95	70-130	0	30	02/19/14		
1,2-Dichlorobenzene	10	0.50	ug/L	10		100	70-130	0	30	02/19/14		
1,2-Dichloroethane	10	0.50	ug/L	10		101	70-130	1	30	02/19/14		
1,2-Dichloropropane	10	0.50	ug/L	10		102	70-130	2	30	02/19/14		
1,3,5-Trimethylbenzene	9.8	0.50	ug/L	10		98	70-130	2	30	02/19/14		
1,3-Dichlorobenzene	11	0.50	ug/L	10		108	70-130	0	30	02/19/14		
1,3-Dichloropropane	10	0.50	ug/L	10		102	70-130	0	30	02/19/14		
1,4-Dichlorobenzene	10	0.50	ug/L	10		100	70-130	1	30	02/19/14		
2,2-Dichloropropane	10	0.50	ug/L	10		102	70-130	4	30	02/19/14		
2-Butanone	13	5.0	ug/L	10		132	70-130	11	30	02/19/14	BS	***High***
2-Chlorotoluene	10	0.50	ug/L	10		101	70-130	2	30	02/19/14		
2-Hexanone	12	10	ug/L	10		120	70-130	10	30	02/19/14		
4-Chlorotoluene	10	0.50	ug/L	10		102	70-130	1	30	02/19/14		
4-Methyl-2-pentanone	12	5.0	ug/L	10		120	70-130	7	30	02/19/14		
Acetone	14	10	ug/L	10		139	70-130	9	30	02/19/14	BS	***High***
Benzene	10	0.50	ug/L	10		102	70-130	2	30	02/19/14		
Bromobenzene	10	0.50	ug/L	10		101	70-130	0	30	02/19/14		
Bromochloromethane	10	0.50	ug/L	10		103	70-130	4	30	02/19/14		
Bromodichloromethane	10	0.50	ug/L	10		105	70-130	3	30	02/19/14		
Bromoform	11	0.50	ug/L	10		110	70-130	4	30	02/19/14		
Bromomethane	8.6	0.50	ug/L	10		86	70-130	5	30	02/19/14		
Carbon Tetrachloride	10	0.50	ug/L	10		104	70-130	4	30	02/19/14		
Chlorobenzene	10	0.50	ug/L	10		102	70-130	3	30	02/19/14		
Chloroethane	9.6	0.50	ug/L	10		96	70-130	2	30	02/19/14		
Chloroform	9.8	0.50	ug/L	10		98	70-130	4	30	02/19/14		
Chloromethane	9.8	0.50	ug/L	10		98	70-130	5	30	02/19/14		
cis-1,2-Dichloroethene	9.8	0.50	ug/L	10		98	70-130	3	30	02/19/14		
cis-1,3-Dichloropropene	9.6	0.50	ug/L	10		96	70-130	1	30	02/19/14		
Dibromochloromethane	10	0.50	ug/L	10		104	70-130	1	30	02/19/14		
Dibromomethane	10	0.50	ug/L	10		100	70-130	0	30	02/19/14		
Dichlorodifluoromethane	11	0.50	ug/L	10		106	70-130	6	30	02/19/14		
Dichloromethane	11	0.50	ug/L	10		106	70-130	3	30	02/19/14		
Di-isopropyl ether (DIPE)	11	3.0	ug/L	10		113	70-130	1	30	02/19/14		
Ethyl tert-Butyl Ether (ETBE)	11	0.50	ug/L	10		112	70-130	0	30	02/19/14		
Ethylbenzene	10	0.50	ug/L	10		104	70-130	2	30	02/19/14		
Hexachlorobutadiene	11	0.50	ug/L	10		106	70-130	3	30	02/19/14		
Isopropylbenzene	9.8	0.50	ug/L	10		98	70-130	1	30	02/19/14		
m,p-Xylenes	20	0.50	ug/L	20		99	70-130	2	30	02/19/14		
Methyl-t-butyl ether	21	0.50	ug/L	20		107	70-130	2	30	02/19/14		
Naphthalene	9.9	0.50	ug/L	10		99	70-130	3	30	02/19/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A402017										Prepared: 02/19/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike Dup (A402017-BSD1)											
n-Butylbenzene	9.9	0.50	ug/L	10		99	70-130	3	30	02/19/14	
n-Propylbenzene	10	0.50	ug/L	10		104	70-130	2	30	02/19/14	
o-Xylene	9.9	0.50	ug/L	10		99	70-130	2	30	02/19/14	
p-Isopropyltoluene	10	0.50	ug/L	10		103	70-130	3	30	02/19/14	
sec-Butylbenzene	10	0.50	ug/L	10		100	70-130	3	30	02/19/14	
Styrene	12	0.50	ug/L	10		118	70-130	0	30	02/19/14	
tert-Amyl Methyl Ether (TAME)	12	3.0	ug/L	10		118	70-130	2	30	02/19/14	
tert-Butyl alcohol (TBA)	12	2.0	ug/L	10		115	70-130	4	30	02/19/14	
tert-Butylbenzene	10	0.50	ug/L	10		103	70-130	2	30	02/19/14	
Tetrachloroethene (PCE)	10	0.50	ug/L	10		103	70-130	4	30	02/19/14	
Toluene	10	0.50	ug/L	10		100	70-130	2	30	02/19/14	
trans-1,2-Dichloroethene	10	0.50	ug/L	10		103	70-130	4	30	02/19/14	
trans-1,3-Dichloropropene	11	0.50	ug/L	10		110	70-130	1	30	02/19/14	
Trichloroethene (TCE)	10	0.50	ug/L	10		104	70-130	8	30	02/19/14	
Trichlorofluoromethane	10	5.0	ug/L	10		104	70-130	3	30	02/19/14	
Vinyl Chloride	10	0.50	ug/L	10		104	70-130	4	30	02/19/14	
Surrogate: 1,2-Dichlorobenzene-d4	*5.1*			*5.0*		*101*	*70-130*			02/19/14	
Surrogate: Bromofluorobenzene	*51*			*50*		*102*	*70-130*			02/19/14	
EPA 525.2 - Quality Control											
Batch: A402247										Prepared: 02/21/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Blank (A402247-BLK1)											
Alachlor	ND	1.0	ug/L							02/22/14	
Atrazine	ND	0.50	ug/L							02/22/14	
Benzo(a)pyrene	ND	0.10	ug/L							02/22/14	
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							02/22/14	
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							02/22/14	
Bromacil	ND	10	ug/L							02/22/14	
Butachlor	ND	0.38	ug/L							02/22/14	
Diazinon	ND	0.25	ug/L							02/22/14	
Dimethoate	ND	10	ug/L							02/22/14	
Metolachlor	ND	0.50	ug/L							02/22/14	
Metribuzin	ND	0.50	ug/L							02/22/14	
Molinate	ND	2.0	ug/L							02/22/14	
Propachlor	ND	0.50	ug/L							02/22/14	
Simazine	ND	1.0	ug/L							02/22/14	
Thiobencarb	ND	1.0	ug/L							02/22/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.5*			*5.0*		*110*	*70-130*			02/22/14	
Blank Spike (A402247-BS1)											
Alachlor	0.60	1.0	ug/L	0.52		116	70-130			02/22/14	
Atrazine	0.60	0.50	ug/L	0.52		116	70-130			02/22/14	
Benzo(a)pyrene	0.13	0.10	ug/L	0.10		120	70-130			02/22/14	
Bis(2-ethylhexyl) adipate	3.9	3.0	ug/L	3.1		123	70-130			02/22/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A402247										Prepared: 02/21/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Blank Spike (A402247-BS1)											
Bis(2-ethylhexyl) phthalate	3.6	3.0	ug/L	3.1		116	70-130			02/22/14	
Bromacil	2.5	10	ug/L	2.1		118	70-130			02/22/14	
Butachlor	1.4	0.38	ug/L	1.3		106	70-130			02/22/14	
Diazinon	0.052	0.25	ug/L	0.052		100	70-130			02/22/14	
Dimethoate	0.58	10	ug/L	0.52		110	70-130			02/22/14	
Metolachlor	3.4	0.50	ug/L	2.6		130	70-130			02/22/14	
Metribuzin	2.8	0.50	ug/L	2.6		107	70-130			02/22/14	
Molinate	2.9	2.0	ug/L	2.6		111	70-130			02/22/14	
Propachlor	3.0	0.50	ug/L	2.6		115	70-130			02/22/14	
Simazine	0.41	1.0	ug/L	0.37		113	70-130			02/22/14	
Thiobencarb	0.61	1.0	ug/L	0.52		117	70-130			02/22/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.5*			*5.2*		*105*	*70-130*			02/22/14	
Blank Spike Dup (A402247-BSD1)											
Alachlor	0.60	1.0	ug/L	0.51		117	70-130	1	30	02/22/14	
Atrazine	0.55	0.50	ug/L	0.51		108	70-130	9	30	02/22/14	
Benzo(a)pyrene	0.12	0.10	ug/L	0.10		119	70-130	3	30	02/22/14	
Bis(2-ethylhexyl) adipate	3.9	3.0	ug/L	3.1		128	70-130	1	30	02/22/14	
Bis(2-ethylhexyl) phthalate	3.7	3.0	ug/L	3.1		122	70-130	3	30	02/22/14	
Bromacil	2.7	10	ug/L	2.0		130	70-130	8	30	02/22/14	
Butachlor	1.5	0.38	ug/L	1.3		115	70-130	6	30	02/22/14	
Diazinon	0.047	0.25	ug/L	0.051		92	70-130	11	30	02/22/14	
Dimethoate	0.51	10	ug/L	0.51		100	70-130	12	30	02/22/14	
Metolachlor	3.1	0.50	ug/L	2.6		121	70-130	9	30	02/22/14	
Metribuzin	2.8	0.50	ug/L	2.6		108	70-130	1	30	02/22/14	
Molinate	2.8	2.0	ug/L	2.6		111	70-130	2	30	02/22/14	
Propachlor	2.9	0.50	ug/L	2.6		112	70-130	5	30	02/22/14	
Simazine	0.39	1.0	ug/L	0.36		109	70-130	6	30	02/22/14	
Thiobencarb	0.56	1.0	ug/L	0.51		110	70-130	9	30	02/22/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.9*			*5.1*		*116*	*70-130*			02/22/14	
Matrix Spike (A402247-MS1), Source: A4B1171-01											
Alachlor	0.57	1.0	ug/L	0.50	ND	116	70-130			02/22/14	
Atrazine	0.51	0.50	ug/L	0.50	ND	104	70-130			02/22/14	
Benzo(a)pyrene	0.11	0.10	ug/L	0.099	ND	115	70-130			02/22/14	
Bis(2-ethylhexyl) adipate	3.4	3.0	ug/L	3.0	ND	115	70-130			02/22/14	
Bis(2-ethylhexyl) phthalate	3.4	3.0	ug/L	3.0	ND	114	70-130			02/22/14	
Bromacil	2.5	10	ug/L	2.0	ND	124	70-130			02/22/14	
Butachlor	1.3	0.38	ug/L	1.2	ND	107	70-130			02/22/14	
Diazinon	0.048	0.25	ug/L	0.050	ND	96	70-130			02/22/14	
Dimethoate	0.47	10	ug/L	0.50	ND	96	70-130			02/22/14	
Metolachlor	3.0	0.50	ug/L	2.5	ND	122	70-130			02/22/14	
Metribuzin	2.7	0.50	ug/L	2.5	ND	109	70-130			02/22/14	
Molinate	2.8	2.0	ug/L	2.5	ND	113	70-130			02/22/14	
Propachlor	3.0	0.50	ug/L	2.5	ND	119	70-130			02/22/14	
Simazine	0.39	1.0	ug/L	0.35	ND	112	70-130			02/22/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A402247										Prepared: 02/21/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Matrix Spike (A402247-MS1), Source: A4B1171-01											
Thiobencarb	0.56	1.0	ug/L	0.50	ND	114	70-130			02/22/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.4*			*5.0*		*110*	*70-130*			02/22/14	
EPA 531.1 - Quality Control											
Batch: A402279										Prepared: 02/23/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A402279-BLK1)											
3-Hydroxycarbofuran	ND	3.0	ug/L							02/25/14	
Aldicarb	ND	3.0	ug/L							02/25/14	
Aldicarb Sulfone	ND	2.0	ug/L							02/25/14	
Aldicarb Sulfoxide	ND	3.0	ug/L							02/25/14	
Carbaryl	ND	5.0	ug/L							02/25/14	
Carbofuran	ND	5.0	ug/L							02/25/14	
Methomyl	ND	2.0	ug/L							02/25/14	
Oxamyl	ND	20	ug/L							02/25/14	
Blank Spike (A402279-BS1)											
3-Hydroxycarbofuran	3.6	3.0	ug/L	4.0		89	80-120			02/25/14	
Aldicarb	4.5	3.0	ug/L	4.0		114	80-120			02/25/14	
Aldicarb Sulfone	4.2	2.0	ug/L	4.0		104	80-120			02/25/14	
Aldicarb Sulfoxide	4.1	3.0	ug/L	4.0		103	80-120			02/25/14	
Carbaryl	4.2	5.0	ug/L	4.0		104	80-120			02/25/14	
Carbofuran	4.2	5.0	ug/L	4.0		104	80-120			02/25/14	
Methomyl	4.1	2.0	ug/L	4.0		103	80-120			02/25/14	
Oxamyl	4.1	20	ug/L	4.0		103	80-120			02/25/14	
Blank Spike Dup (A402279-BSD1)											
3-Hydroxycarbofuran	4.0	3.0	ug/L	4.0		99	80-120	11	20	02/25/14	
Aldicarb	4.3	3.0	ug/L	4.0		107	80-120	6	20	02/25/14	
Aldicarb Sulfone	4.1	2.0	ug/L	4.0		103	80-120	1	20	02/25/14	
Aldicarb Sulfoxide	4.0	3.0	ug/L	4.0		101	80-120	2	20	02/25/14	
Carbaryl	4.0	5.0	ug/L	4.0		101	80-120	3	20	02/25/14	
Carbofuran	4.0	5.0	ug/L	4.0		99	80-120	5	20	02/25/14	
Methomyl	4.0	2.0	ug/L	4.0		101	80-120	2	20	02/25/14	
Oxamyl	4.0	20	ug/L	4.0		101	80-120	2	20	02/25/14	
Matrix Spike (A402279-MS1), Source: A4B1162-01											
3-Hydroxycarbofuran	4.3	3.0	ug/L	4.0	ND	103	65-135			02/25/14	
Aldicarb	4.5	3.0	ug/L	4.0	ND	112	65-135			02/25/14	
Aldicarb Sulfone	4.4	2.0	ug/L	4.0	ND	109	65-135			02/25/14	
Aldicarb Sulfoxide	4.4	3.0	ug/L	4.0	ND	109	65-135			02/25/14	
Carbaryl	4.4	5.0	ug/L	4.0	ND	109	65-135			02/25/14	
Carbofuran	4.2	5.0	ug/L	4.0	ND	106	65-135			02/25/14	
Methomyl	4.3	2.0	ug/L	4.0	ND	108	65-135			02/25/14	
Oxamyl	4.2	20	ug/L	4.0	ND	106	65-135			02/25/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 547 - Quality Control											
Batch: A402145										Prepared: 02/19/2014	
Prep Method: EPA 547										Analyst: RJB	
Blank (A402145-BLK1)											
Glyphosate	ND	5.0	ug/L							02/20/14	
Surrogate: AMPA	*120*			*100*		*120*	*70-130*			02/20/14	
Blank Spike (A402145-BS1)											
Glyphosate	120	5.0	ug/L	100		118	70-130			02/20/14	
Surrogate: AMPA	*120*			*100*		*121*	*70-130*			02/20/14	
Blank Spike Dup (A402145-BSD1)											
Glyphosate	120	5.0	ug/L	100		119	70-130	1	30	02/20/14	
Surrogate: AMPA	*110*			*100*		*111*	*70-130*			02/20/14	
Matrix Spike (A402145-MS1), Source: A4B1154-01											
Glyphosate	110	5.0	ug/L	100	ND	105	70-130			02/20/14	
Surrogate: AMPA	*110*			*100*		*109*	*70-130*			02/20/14	
Matrix Spike Dup (A402145-MSD1), Source: A4B1154-01											
Glyphosate	110	5.0	ug/L	100	ND	107	70-130	2	30	02/20/14	
Surrogate: AMPA	*120*			*100*		*116*	*70-130*			02/20/14	
EPA 548.1 - Quality Control											
Batch: A402157										Prepared: 02/19/2014	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A402157-BLK1)											
Endothall	ND	45	ug/L							02/20/14	
Blank Spike (A402157-BS1)											
Endothall	16	45	ug/L	20		79	60-111			02/20/14	
Blank Spike Dup (A402157-BSD1)											
Endothall	15	45	ug/L	20		75	60-111	5	46	02/20/14	
Matrix Spike (A402157-MS1), Source: A4B1005-07											
Endothall	ND	45	ug/L	20	ND	0	10-122			02/20/14	MS1.0 ***Low***
EPA 549.2 - Quality Control											
Batch: A402181										Prepared: 02/20/2014	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A402181-BLK1)											
Diquat	ND	4.0	ug/L							02/25/14	
Blank Spike (A402181-BS1)											
Diquat	3.5	4.0	ug/L	4.0		87	70-130			02/25/14	
Blank Spike Dup (A402181-BSD1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 549.2 - Quality Control											
Batch: A402181										Prepared: 02/20/2014	
Prep Method: EPA 549.2										Analyst: PYA	
Blank Spike Dup (A402181-BSD1)											
Diquat	3.3	4.0	ug/L	4.0		83	70-130	5	30	02/25/14	
Matrix Spike (A402181-MS1), Source: A4B1386-01											
Diquat	3.7	4.0	ug/L	4.0	ND	92	70-130			02/25/14	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of Oregon - NELAP	4021	State of Washington	C997
State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA

BSK is not accredited under the NELAC program for the following parameters:

A4B1386

Monterey Bay Analytical

Monte6227

02192014

Turnaround: Standard

Due Date: 2/26/2014

Printed: 2/19/2014 4:54:45PM

Page 1 of 1

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street, Fresno, CA 93706-1623
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

TEMP: 4.0

* Required Fields

Client/Company Name *:	Report Attention *:	Phone * #: (831)-357-6227 FAX * #(831)-641-0734
Monterey Bay Analytical	David Holland	E-mail: 4MBAS@Sbcglobal.net

Address *: 4 Justin Ct. City *: Monterey State *: CA Zip *: 93940

Project Information: Cal Am

PO #

Quote # 464

How would you like your completed results sent? ✓ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: Nathan Renolds

QC Request: ✓ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ✓ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ✓ System No. *

ANALYSIS REQUESTED

Matrix Types: RSW = Raw Surface Water, CFW = Clorinated Finished Water, CWW = Chorinated Waste Water, BW = Bottled Water, RGW = Raw Ground Water, FW = Finished Water, WW = Waste Water, SW = Storm Water, DW = Drinking Water, SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 504	EPA 515	EPA 524 plus oxygenates	EPA 525	EPA 531	EPA 547	EPA 548	EPA 549	
1		2/18	12:15	CX-B1WQ Zone #1	RGW	11850	✓	✓	✓	✓	✓	✓	✓	✓	✓
				5 day TAT please											
				Conductivity 36,000 uS/cm											

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
David Holland	MBAS	2/18	1600		
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Received M. Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	
		2/19/14	1020		

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material: BW/Foam/Airbag

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/re-billing charges and interest calculated at 1 1/2 % per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorneys' fees incurred prior to or in litigation whether concluded by judgement, settlement, compromise or otherwise. The person signing for the client/Company expressley acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis requested, either type or quantities, will be noted and agreed upon this Chain of Custody. The turn around time for any samples received after 3:00 pm will begin the next business day.

SR-FL-0012-00 (Analytical)

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received

"—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—						
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—						
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—						
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2C, 3A					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	7V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: RC @ 1505 Labels checked by: G-33 @ 1538 RUSH Paged by:

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

February 24, 2014 Ceres ID: 10262

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on February 19, 2014. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613. Rush 5 day turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # 11850.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (888)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
10262-001	CX-B1WQ Zone #1 (274-284 ft bags)	2/19/2014	2/18/2014	12:15

Section II: Data Summary

Sample ID:	**Method Blank**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-MB001 — Date Received: NA
Project:	11850	Sample Size: 1.000 L	QC Batch #: 1156 — Date Extracted: 21-Feb-14
Date Collected:	NA		ZB-5 MS Analysis Date: 22-Feb-14
Time Collected:	NA		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	3.66		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	110	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	119	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Sample ID:	**Ongoing Precision and Recovery**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-OPR001 — Date Received: NA
Project:	11850	Sample Size: 1.000 L	QC Batch #: 1156 — Date Extracted: 21-Feb-14
Date Collected:	NA		ZB-5 MS Analysis Date: 22-Feb-14
Time Collected:	NA		

Analyte	Conc. (ng/ml)	Limits [a]	Qualifiers
2,3,7,8-TCDD	9.88	7.3-14.6	

	Labeled Standards	Conc.	Limits [a]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	98.3	25-141	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	10.1	3.7-15.8	

a. Method acceptance criteria .

Analyst: JMH

Reviewed by: BS

Sample ID:	**CX-B1WQ Zone #1 (274-284 ft bags)**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 10262-001 — Date Received: 19-Feb-14
Project:	11850	Sample Size: 1.058 L	QC Batch #: 1156 — Date Extracted: 21-Feb-14
Date Collected:	18-Feb-14		ZB-5 MS Analysis Date: 22-Feb-14
Time Collected:	12:15		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	1.98		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	99.3	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	103	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Ceres Project ID:_____
Temperature: _____ °C

Pg Appendix G of

Reports and invoices will be delivered by email in .pdf format

Client Information	Invoice Information (if different from Client Info)	Project Information
Company Name:_____ Monterey Bay Analytical	Company Name:_____ Same	Ceres Quote #:_____
Contact Name:_____ David Holland	Contact Name:_____	P.O. # _____
Address: 4 Justin Court Ste D Monterey CA 93940	Address:_____	Project ID: _____
Ph:_ 831-375-6227	Ph:_____ Fx:_____	**TAT** (business days) 5
Email: montereybayanalytical@usa.net	Email:	Std 15 days; Rush TAT available please call

Matrix abreviations:

A: Aqueous	S: Soil	AS: Ash	DW: Drinking Water
E: Effluent	SD: Sediment	C: Clay	SO: Solid
I: Influent	SL: Sludge	CS: Clay Slurry	O: Other (please comment)

	Sample ID	Sample Collection Date	Sample Collection Time	Matrix	# of containers	EPA 1613	EPA 8290	NCASI 551	EPA 8280	EPA 613	Other	TEF: ☐ 1998 WHO ☐ 2005 WHO ☐ Other	Comments
1	CX-B1WQ Zone #1 (274-284 ft bags)	2/18/2014	12:15	Aq	2	X							11850
2													(2,3,7,8 TCDD only)
3													5 day Rush Please
4													
5													
6													
7													
8													
9													
10													
11													
12													

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

Relinquished by: *(Signature and Printed Name)*	Date	Time	Received by: *(signature and Printed Name)*	Date	Time
David Holland	2/18/2014	16:00	James M. Hedin	2/19/14	09:28

Client understands that all terms desribed in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.

Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

SEC = 36,000 uS/cm

Sample Receipt Check List

Ceres ID: 10262	Date/Time: 2/19/14 09:28
Client Project ID: 11850	Received Temperature: 2.1°C Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present? No Residual Cl	Y / N / NA
List COC discrepancies: 2/19/14	
List Damaged Samples: 2/19/14	

Ceres Analytical Laboratory

Process Request

Ceres ID: 10262 PB: 1156 Sample #s: 1 Due Date: 2/25/14

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash

Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (check one):

- ☐ 1613 2,3,7,8-TCDD
- ☐ 1613 2,3,7,8-TCDD/F
- ☐ 1613 Cl_4-Cl_8
- ☐ 8280 2,3,7,8-TCDD
- ☐ 8280 2,3,7,8-TCDD/F
- ☐ 8280 Appendix IX
- ☐ 8280 Cl_4-Cl_8
- ☐ 8290 2,3,7,8-TCDD
- ☐ 8290 2,3,7,8-TCDD/F
- ☐ 8290 Cl_4-Cl_8
- ☐ NCASI 551

Instructions:

Sample Volume Calculation

Instructions:
1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$Sample\ Volume = (Sample + Bottle\ Wt) - Empty\ Bottle\ Wt.$$

Ceres ID	Sample +Bottle Wt.	Empty Bottle Wt.	Sample Volume
10262-1	1564.35	506.44	1.058L

Chemist: _____ Date: 2/21/14

Method: 1613
SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Appendix G

Ceres ID	Client ID	Ver.	wt/vol	ISS/PAR chem/date/witness	CSS chem/date/witness	AP	AB/AC	FC	RSS chem/date/witness
0-1156-MB001	Method Blank		1.000L	(A) 2/21/14	2/22/14	NA	2/22/14	NA	2/22/14
0-1156-OPR001	OPR		1.000L						
10262-1156-001	CX-B1WQ Zone #1	✓	1.058L						

Comments: (A) Spiked w/NSS

Soxhlet Start: 14:00 2/21/14

Soxhlet Stop: 06:25 2/22/14

Samples Logged out by: 2/21/14 11:30

Samples Returned by: NA

Note samples Depleted: "A"

Sample Extracts Storage Location: Box 8

Extracts to Intrument: 09:20 2/22/14

Extracts returned to Storage Location: 09:30 2/24/14

Form M1.0 rev4

Chemist: G-45

Effective Date: 7/12/13

Method: 1613
SOP #: 301.1

Ceres Analytical Laboratory
Sample Prep Bench Sheet

Standard	Standard ID	Vol.	Expiration Date
ISS	S031212A	10µl	3/12/14
NSS	S031212B	10µl	3/12/14
CSS	S031212C	10µl	3/12/14
RSS	S031212D	20µl	3/12/12

Solvents/Solutions/Packing Materials

Name	Amount	Lot #	Exp. Date
Toluene	450 ml	B4020	6/10/14
Sigel	4g	P020514A	8/5/14
Hexane	30,30,100,20	136735	6/10/14
Basiogel	4g	P012014A	7/20/14
Acid gel	8g	P012014B	7/20/14
Acid Al	6g	P020414A	8/4/14
Na2SO4	1.5g	P120412A	6/4/14
20% DCM Hex	30ml	L021914A	8/19/14

Chemist : [signature]

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

CERTIFICATE OF ANALYSIS

Client:	Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940	**Report Date:**	02/26/14 15:54
		Received Date:	02/19/14 08:45
		Turn Around:	5 workdays
Attention:	David Holland	**Client Project:**	Cal Am
Phone:	(831) 375-6227		
Fax:	(831) 641-0734		
Work Order(s):	4B19035		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

Enclosed are the results of analyses for samples received 02/19/14 08:45 with the Chain of Custody document. The samples were received in good condition, at 5.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/14 08:45
Date Reported: 02/26/14 15:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CX-B1WQ Zone #1 (274-284)	Nathan Reynolds	11146	4B19035-01	Water	02/18/14 12:15

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Chlorinated Pesticides and/or PCBs

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

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WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/14 08:45
Date Reported: 02/26/14 15:54

4B19035-01 **CX-B1WQ Zone #1 (274-284)**

Sampled: 02/18/14 12:15 **Sampled By:** Nathan Reynolds **Matrix:** Water

Sample Note: 11146

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 9056A Batch: W4B0889 Prepared: 02/20/14 09:30 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Iodide	ND	250	ug/l	25	02/20/14 15:41	M-05

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4B0898 Prepared: 02/20/14 14:56 Analyst: mxw

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND	0.010	ug/l	1	02/24/14 18:28	
4,4´-DDE	ND	0.010	ug/l	1	02/24/14 18:28	
4,4´-DDT	ND	0.010	ug/l	1	02/24/14 18:28	
Aldrin	ND	0.010	ug/l	1	02/24/14 18:28	
alpha-BHC	ND	0.010	ug/l	1	02/24/14 18:28	
Aroclor 1016	ND	0.10	ug/l	1	02/24/14 18:28	
Aroclor 1221	ND	0.10	ug/l	1	02/24/14 18:28	
Aroclor 1232	ND	0.10	ug/l	1	02/24/14 18:28	
Aroclor 1242	ND	0.10	ug/l	1	02/24/14 18:28	
Aroclor 1248	ND	0.10	ug/l	1	02/24/14 18:28	
Aroclor 1254	ND	0.10	ug/l	1	02/24/14 18:28	
Aroclor 1260	ND	0.10	ug/l	1	02/24/14 18:28	
beta-BHC	ND	0.010	ug/l	1	02/24/14 18:28	
Chlordane (tech)	ND	0.10	ug/l	1	02/24/14 18:28	
Chlorothalonil	ND	0.050	ug/l	1	02/24/14 18:28	
delta-BHC	ND	0.010	ug/l	1	02/24/14 18:28	
Dieldrin	ND	0.010	ug/l	1	02/24/14 18:28	
Endosulfan I	ND	0.010	ug/l	1	02/24/14 18:28	
Endosulfan II	ND	0.010	ug/l	1	02/24/14 18:28	
Endosulfan sulfate	ND	0.010	ug/l	1	02/24/14 18:28	
Endrin	ND	0.010	ug/l	1	02/24/14 18:28	
Endrin aldehyde	ND	0.010	ug/l	1	02/24/14 18:28	
gamma-BHC (Lindane)	ND	0.010	ug/l	1	02/24/14 18:28	
Heptachlor	ND	0.010	ug/l	1	02/24/14 18:28	
Heptachlor epoxide	ND	0.010	ug/l	1	02/24/14 18:28	
Hexachlorobenzene	ND	0.010	ug/l	1	02/24/14 18:28	
Hexachlorocyclopentadiene	ND	0.050	ug/l	1	02/24/14 18:28	
Methoxychlor	ND	0.010	ug/l	1	02/24/14 18:28	
PCBs, Total	ND	0.50	ug/l	1	02/24/14 18:28	
Propachlor	ND	0.050	ug/l	1	02/24/14 18:28	
Toxaphene	ND	1.0	ug/l	1	02/24/14 18:28	
Trifluralin	ND	0.010	ug/l	1	02/24/14 18:28	
Surr: Decachlorobiphenyl	*8 %*	Conc:*0.00769* *70-130*	%			*S-GC*
Surr: Tetrachloro-meta-xylene	*71 %*	Conc:*0.0677* *70-130*	%			

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/14 08:45
Date Reported: 02/26/14 15:54

4B19035-01 **CX-B1WQ Zone #1 (274-284)**

Sampled: 02/18/14 12:15 **Sampled By:** Nathan Reynolds **Matrix:** Water

Sample Note: 11146

Chlorinated Pesticides and/or PCBs

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/14 08:45
Date Reported: 02/26/14 15:54

QUALITY CONTROL SECTION

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/14 08:45
Date Reported: 02/26/14 15:54

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4B0889 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B0889-BLK1)				Analyzed: 02/20/14 15:41						
Iodide	ND	10	ug/l							
LCS (W4B0889-BS1)				Analyzed: 02/20/14 15:41						
Iodide	40.0	10	ug/l	40.0		100	85-115			
Duplicate (W4B0889-DUP1)	**Source: 4B06015-02**			Analyzed: 02/20/14 15:41						
Iodide	63.0	25	ug/l		63.9			1	20	
Matrix Spike (W4B0889-MS1)	**Source: 4B06015-02**			Analyzed: 02/20/14 15:41						
Iodide	176	25	ug/l	100	63.9	112	80-120			
Matrix Spike Dup (W4B0889-MSD1)	**Source: 4B06015-02**			Analyzed: 02/20/14 15:41						
Iodide	149	25	ug/l	100	63.9	85	80-120	17	20	

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B0898 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B0898-BLK1)				Analyzed: 02/24/14 16:56						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							

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Date Received: 02/19/14 08:45
Date Reported: 02/26/14 15:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B0898 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B0898-BLK1)				Analyzed: 02/24/14 16:56						
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							
Surr: Decachlorobiphenyl	*0.0779*		*ug/l*	*0.100*		*78*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0735*		*ug/l*	*0.100*		*74*	*70-130*			
LCS (W4B0898-BS1)				Analyzed: 02/24/14 17:27						
4,4´-DDD	0.0795	0.010	ug/l	0.100		80	55-142			
4,4´-DDE	0.0817	0.010	ug/l	0.100		82	49-129			
4,4´-DDT	0.0894	0.010	ug/l	0.100		89	54-160			
Aldrin	0.0689	0.010	ug/l	0.100		69	29-115			
alpha-BHC	0.0784	0.010	ug/l	0.100		78	59-131			
beta-BHC	0.0788	0.010	ug/l	0.100		79	63-136			
delta-BHC	0.0876	0.010	ug/l	0.100		88	59-137			
Dieldrin	0.0830	0.010	ug/l	0.100		83	59-135			
Endosulfan I	0.0700	0.010	ug/l	0.100		70	28-138			
Endosulfan II	0.0744	0.010	ug/l	0.100		74	53-133			
Endosulfan sulfate	0.0822	0.010	ug/l	0.100		82	58-155			
Endrin	0.0710	0.010	ug/l	0.100		71	57-148			
Endrin aldehyde	0.0676	0.010	ug/l	0.100		68	45-139			
gamma-BHC (Lindane)	0.0802	0.010	ug/l	0.100		80	59-129			
Heptachlor	0.0783	0.010	ug/l	0.100		78	42-136			
Heptachlor epoxide	0.0805	0.010	ug/l	0.100		80	59-134			
Methoxychlor	0.0770	0.010	ug/l	0.100		77	56-167			
Surr: Decachlorobiphenyl	*0.0839*		*ug/l*	*0.100*		*84*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0742*		*ug/l*	*0.100*		*74*	*70-130*			
LCS Dup (W4B0898-BSD1)				Analyzed: 02/25/14 09:31						
4,4´-DDD	0.0977	0.010	ug/l	0.100		98	55-142	21	25	
4,4´-DDE	0.0993	0.010	ug/l	0.100		99	49-129	20	25	
4,4´-DDT	0.101	0.010	ug/l	0.100		101	54-160	13	25	
Aldrin	0.0774	0.010	ug/l	0.100		77	29-115	12	25	
alpha-BHC	0.0891	0.010	ug/l	0.100		89	59-131	13	25	
beta-BHC	0.0918	0.010	ug/l	0.100		92	63-136	15	25	
delta-BHC	0.103	0.010	ug/l	0.100		103	59-137	16	25	
Dieldrin	0.0977	0.010	ug/l	0.100		98	59-135	16	25	
Endosulfan I	0.0821	0.010	ug/l	0.100		82	28-138	16	25	
Endosulfan II	0.0892	0.010	ug/l	0.100		89	53-133	18	25	
Endosulfan sulfate	0.0953	0.010	ug/l	0.100		95	58-155	15	25	
Endrin	0.0853	0.010	ug/l	0.100		85	57-148	18	25	
Endrin aldehyde	0.0835	0.010	ug/l	0.100		84	45-139	21	25	
gamma-BHC (Lindane)	0.0909	0.010	ug/l	0.100		91	59-129	12	25	
Heptachlor	0.0845	0.010	ug/l	0.100		85	42-136	8	25	
Heptachlor epoxide	0.0950	0.010	ug/l	0.100		95	59-134	17	25	

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4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/19/14 08:45
Date Reported: 02/26/14 15:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B0898 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W4B0898-BSD1)				Analyzed: 02/25/14 09:31						
Methoxychlor	0.0862	0.010	ug/l	0.100		86	56-167	11	25	
Surr: Decachlorobiphenyl	*0.0979*		*ug/l*	*0.100*		*98*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0763*		*ug/l*	*0.100*		*76*	*70-130*			

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Monterey CA, 93940

Date Received: 02/19/14 08:45
Date Reported: 02/26/14 15:54

Notes and Definitions

S-GC	Surrogate recovery outside of control limits due to a possible matrix effect. The data was accepted based on valid recovery of the remaining surrogate.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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Monterey Bay Analytical Services
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AB12002
SAMPLE ID **Zone 1 Total**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	4646	0.04350	202.10
Potassium	54	0.02558	1.38
Calcium	2718	0.04990	135.63
Magnesium	1040	0.08229	85.58
NH3-N	0	0.07143	0.00
		SUM	424.69

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	118	0.02000	2.36
Sulfate	1760	0.02082	36.64
Chloride	14184	0.02821	400.13
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0	0.07138	0.00
Phosphate-P	0.1	0.01031	0.00
Fluoride	0.2	0.05264	0.01
Bromide	41.0	0.01252	0.51
		SUM	439.66

ANION-CATION BALANCE: **-2** (% DIFFERENCE)
Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	36940	
Cation Sum X 100	42469	**115%**
Anion Sum X 100	43966	**119%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**19.2**
Ca+Mg+Na	423.31
HCO3/Ca	0.02
dS/m	36.94
Value Table II	1.5
SAR adj	**30.6**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

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PRECISION • ACCURACY • DEPENDABILITY
4 Justin Court Suite D, Monterey, CA 93940
831.375.MBAS
montereybayanalytical@usa.net

ELAP Certification Number: 2385

Cal Am Water Company
Travis Peterson
511 Pacific Lodge Road, Suite 100
Pacific Grove, CA 93950

 Friday, February 28, 2014

Lab Number: **AB11965**

Collection Date/Time:	2/19/2014	16:10	Sample Collector:	REYNOLDS, N	
Submittal Date/Time:	2/19/2014	17:33	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-BIWQ Zone #2 (237-247 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Alkalinity, Total (as CaCO3)	SM2320B	mg/L	**132**		2		2/20/2014	LRH
Aluminum, Total	EPA200.8	ug/L	**Not Detected**	E	10	1000	2/27/2014	MC LAB
Ammonia-N, Dissolved	SM4500NH3 D	mg/L	**Not Detected**		0.05		2/25/2014	DH
Arsenic, Total	EPA200.8	ug/L	**Not Detected**	E	1	10	2/27/2014	MC LAB
Barium, Dissolved	EPA200.8	ug/L	**210**	E	10		2/27/2014	MC LAB
Bicarbonate (as HCO3-)	SM2320B	mg/L	**161**		10		2/21/2014	SM
Boron, Dissolved	EPA200.7	mg/L	**0.73**		0.05		2/21/2014	DC
Bromide, Dissolved	EPA300.0	mg/L	**24**		0.1		2/20/2014	DC
Calcium	EPA200.7	mg/L	**1581**		0.5		2/21/2014	DC
Calcium, Dissolved	EPA200.7	mg/L	**1558**		0.5		2/21/2014	DC
Carbamates by HPLC (EPA 531)	EPA531	ug/L	**Not Detected**	E			2/25/2014	BSK
Carbonate as CaCO3	SM2320B	mg/L	**Not Detected**		10		2/21/2014	SM
Chloride, Dissolved	EPA300.0	mg/L	**8796**		1		2/20/2014	DC
Chlorinated Pesticides and PCB (EP	EPA508	ug/L	**Attached (ND)**	E			2/25/2014	WECK
Color, Apparent (Unfiltered)	SM2120B	Color Units	**14**		3	15	2/20/2014	LRH
Copper, Total	EPA200.8	ug/L	**Not Detected**	E	4	1300	2/27/2014	MC LAB
DBCP & EDB	EPA504.1	ug/L	**Not Detected**	E			2/26/2014	BSK
Dioxin	EPA-5 1613B	pg/L	**Attached (ND)**	E			2/22/2014	CERES
Diquat (EPA 549)	EPA549	ug/L	**Not Detected**	E			2/25/2014	BSK
Endothall	EPA548.1	ug/L	**Not Detected**	E			2/26/2014	BSK
Fluoride, Dissolved	EPA300.0	mg/L	**0.1**		0.1		2/20/2014	DC
Glyphosate	EPA547	ug/L	**Not Detected**	E			2/22/2014	BSK
Hardness (as CaCO3)	SM2340B	mg/L	**6723**		10		2/26/2014	DH
Hydroxide	SM2320B	mg/L	**Not Detected**		5		2/21/2014	SM
Iodide	EPA9056M	ug/L	**Attached (ND)**	E	10		2/22/2014	WECK
Iron	EPA200.7	ug/L	**2643**		10	300	2/21/2014	DC
Iron, Dissolved	EPA200.7	ug/L	**2539**		10	300	2/21/2014	DC
Kjehldahl Nitrogen, Dissolved	SM4500-NH3 B,	mg/L	**0.4**	J	0.5		2/25/2014	HM
Lithium	EPA200.8	ug/L	**120**	E	1		2/27/2014	MC LAB
Magnesium	EPA200.7	mg/L	**674**		0.5		2/21/2014	DC
Magnesium, Dissolved	EPA200.7	mg/L	**683**		1		2/21/2014	DC
Manganese, Dissolved	EPA200.7	ug/L	**166**		10	50	2/21/2014	DC
MBAS (Surfactants)	SM5540C	mg/L	**Not Detected**		0.05	0.50	2/20/2014	DC
Nitrate as NO3	EPA300.0	mg/L	**Not Detected**		1	45	2/20/2014	DC
Nitrate+Nitrite as N	EPA300.0	mg/L	**0.2**		0.1		2/20/2014	DC
Nitrite as NO2-N, Dissolved	EPA300.0	mg/L	**Not Detected**		0.1		2/20/2014	DC
Odor Threshold at 60 C	SM2150B	TON	**1**		1	3	2/20/2014	LRH
o-Phosphate-P, Dissolved	Hach 8190	mg/L	**0.09**		0.1		2/24/2014	DH
pH (Field Test)	SM4500-H+B	pH	**6.79**				2/19/2014	NR

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

Lab Number: AB11965

Appendix G

Collection Date/Time:	2/19/2014	16:10	Sample Collector:	REYNOLDS, N	
Submittal Date/Time:	2/19/2014	17:33	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-BIWQ Zone #2 (237-247 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
pH (Laboratory)	SM4500-H+B	pH (H)	**6.9**				2/20/2014	HM
Phenoxy Acid Herbicides (515.3)	EPA515.3	ug/L	**Not Detected**	E			2/26/2014	BSK
Phosphorus, Dissolved	HACH 8190	mg/L	**0.10**		0.03		2/24/2014	DH
Potassium, Dissolved	EPA200.7	mg/L	**35**		0.1		2/21/2014	DC
QC Ratio TDS/SEC	Calculation		**0.59**				2/24/2014	DH
Reg. Org. Compounds (EPA 525)	EPA525	ug/L	**Not Detected**	E			2/26/2014	BSK
Silica as SiO2, Dissolved	EPA200.7	mg/L	**Not Detected**		0.5		2/21/2014	DC
Sodium, Dissolved	EPA200.7	mg/L	**2914**		0.5		2/21/2014	DC
Specific Conductance (E.C)	SM2510B	umhos/cm	**24570**		1	900	2/20/2014	HM
Specific Conductance (E.C) (Field)	SM2510B	umhos/cm	**23705**		1		2/19/2014	NR
Strontium, Dissolved	EPA200.8	ug/L	**11,000**	E	5		2/27/2014	MC LAB
Sulfate	EPA300.0	mg/L	**991**		1	250	2/20/2014	DC
Temperature (Field)	SM2550	° C	**18.7**				2/19/2014	NR
Total Diss. Solids	SM2540C	mg/L	**14600**		10	500	2/20/2014	HM
Turbidity	EPA180.1	NTU	**2.9**		0.05	5.0	2/20/2014	LRH
Turbidity (Field)	EPA180.1	NTU	**1.20**		0.05		2/19/2014	NR
Volatile Org. Compounds (524)	EPA524	ug/L	**Not Detected**	E			2/25/2014	BSK
Zinc, Total	EPA200.8	ug/L	**Not Detected**	E	10	5000	2/27/2014	MC LAB

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level

H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB11965 Cal Am**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	2914	0.04350	126.76
Potassium	35	0.02558	0.90
Calcium	1558	0.04990	77.74
Magnesium	683	0.08229	56.20
NH3-N	0	0.07143	0.00
		SUM	261.60

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	132	0.02000	2.64
Sulfate	991	0.02082	20.63
Chloride	8796	0.02821	248.14
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0	0.07138	0.00
Phosphate-P	0.1	0.01031	0.00
Fluoride	0.1	0.05264	0.01
Bromide	24.0	0.01252	0.30
		SUM	271.71

ANION-CATION BALANCE: **-2** (% DIFFERENCE)
Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	24570	
Cation Sum X 100	26160	**106%**
Anion Sum X 100	27171	**111%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**15.5**
Ca+Mg+Na	260.71
HCO3/Ca	0.03
dS/m	24.57
Value Table II	1.5
SAR adj	**23.6**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

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CERTIFICATE OF ANALYSIS

Client:	Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940	**Report Date:**	02/28/14 10:47
		Received Date:	02/21/14 09:45
		Turn Around:	5 workdays
Attention:	David Holland	**Client Project:**	Cal Am
Phone:	(831) 375-6227		
Fax:	(831) 641-0734		
Work Order(s):	4B21008		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

Enclosed are the results of analyses for samples received 02/21/14 09:45 with the Chain of Custody document. The samples were received in good condition, at 6.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager

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4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/21/14 09:45
Date Reported: 02/28/14 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CX-B1WQ Zone #2 (274-284)	Nathan Reynolds	11965	4B21008-01	Water	02/19/14 16:10

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Chlorinated Pesticides and/or PCBs

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Date Received: 02/21/14 09:45
Date Reported: 02/28/14 10:47

4B21008-01 **CX-B1WQ Zone #2 (274-284)**

Sampled: 02/19/14 16:10 **Sampled By:** Nathan Reynolds **Matrix:** Water

Sample Note: 11965

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 9056A Batch: W4B1249 Prepared: 02/22/14 08:30 Analyst: atl

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Iodide	ND	5.2	120	ug/l	12.5	02/22/14 13:16	M-05

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4B0996 Prepared: 02/22/14 08:58 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND		0.010	ug/l	1	02/25/14 10:32	
4,4´-DDE	ND		0.010	ug/l	1	02/25/14 10:32	
4,4´-DDT	ND		0.010	ug/l	1	02/25/14 10:32	
Aldrin	ND		0.010	ug/l	1	02/25/14 10:32	
alpha-BHC	ND		0.010	ug/l	1	02/25/14 10:32	
Aroclor 1016	ND		0.10	ug/l	1	02/25/14 10:32	
Aroclor 1221	ND		0.10	ug/l	1	02/25/14 10:32	
Aroclor 1232	ND		0.10	ug/l	1	02/25/14 10:32	
Aroclor 1242	ND		0.10	ug/l	1	02/25/14 10:32	
Aroclor 1248	ND		0.10	ug/l	1	02/25/14 10:32	
Aroclor 1254	ND		0.10	ug/l	1	02/25/14 10:32	
Aroclor 1260	ND		0.10	ug/l	1	02/25/14 10:32	
beta-BHC	ND		0.010	ug/l	1	02/25/14 10:32	
Chlordane (tech)	ND		0.10	ug/l	1	02/25/14 10:32	
Chlorothalonil	ND		0.050	ug/l	1	02/25/14 10:32	
delta-BHC	ND		0.010	ug/l	1	02/25/14 10:32	
Dieldrin	ND		0.010	ug/l	1	02/25/14 10:32	
Endosulfan I	ND		0.010	ug/l	1	02/25/14 10:32	
Endosulfan II	ND		0.010	ug/l	1	02/25/14 10:32	
Endosulfan sulfate	ND		0.010	ug/l	1	02/25/14 10:32	
Endrin	ND		0.010	ug/l	1	02/25/14 10:32	
Endrin aldehyde	ND		0.010	ug/l	1	02/25/14 10:32	
gamma-BHC (Lindane)	ND		0.010	ug/l	1	02/25/14 10:32	
Heptachlor	ND		0.010	ug/l	1	02/25/14 10:32	
Heptachlor epoxide	ND		0.010	ug/l	1	02/25/14 10:32	
Hexachlorobenzene	ND		0.010	ug/l	1	02/25/14 10:32	
Hexachlorocyclopentadiene	ND		0.050	ug/l	1	02/25/14 10:32	
Methoxychlor	ND		0.010	ug/l	1	02/25/14 10:32	
PCBs, Total	ND		0.50	ug/l	1	02/25/14 10:32	
Propachlor	ND		0.050	ug/l	1	02/25/14 10:32	
Toxaphene	ND		1.0	ug/l	1	02/25/14 10:32	
Trifluralin	ND		0.010	ug/l	1	02/25/14 10:32	
Surr: Decachlorobiphenyl	*70 %*	Conc:*0.0667*	*70-130*	%			
Surr: Tetrachloro-meta-xylene	*115 %*	Conc:*0.110*	*70-130*	%			

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/21/14 09:45
Date Reported: 02/28/14 10:47

4B21008-01 **CX-B1WQ Zone #2 (274-284)**

Sampled: 02/19/14 16:10 **Sampled By:** Nathan Reynolds **Matrix:** Water

Sample Note: 11965

Chlorinated Pesticides and/or PCBs

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QUALITY CONTROL SECTION

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Date Received: 02/21/14 09:45
Date Reported: 02/28/14 10:47

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4B1249 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B1249-BLK1)				Analyzed: 02/22/14 13:16						
Iodide	ND	10	ug/l							
LCS (W4B1249-BS1)				Analyzed: 02/22/14 13:16						
Iodide	39.7	10	ug/l	40.0		99	85-115			
Matrix Spike (W4B1249-MS1)	**Source: 4B21008-01**			Analyzed: 02/22/14 13:16						
Iodide	459	120	ug/l	500	ND	92	80-120			
Matrix Spike Dup (W4B1249-MSD1)	**Source: 4B21008-01**			Analyzed: 02/22/14 13:16						
Iodide	434	120	ug/l	500	ND	87	80-120	6	20	

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B0996 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B0996-BLK1)				Analyzed: 02/24/14 19:29						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							

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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/21/14 09:45
Date Reported: 02/28/14 10:47

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B0996 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B0996-BLK1)				Analyzed: 02/24/14 19:29						
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							
Surr: Decachlorobiphenyl	*0.0822*		*ug/l*	*0.100*		*82*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0845*		*ug/l*	*0.100*		*84*	*70-130*			
LCS (W4B0996-BS1)				Analyzed: 02/24/14 19:59						
4,4´-DDD	0.0807	0.010	ug/l	0.100		81	55-142			
4,4´-DDE	0.0825	0.010	ug/l	0.100		82	49-129			
4,4´-DDT	0.0914	0.010	ug/l	0.100		91	54-160			
Aldrin	0.0713	0.010	ug/l	0.100		71	29-115			
alpha-BHC	0.0804	0.010	ug/l	0.100		80	59-131			
beta-BHC	0.0776	0.010	ug/l	0.100		78	63-136			
delta-BHC	0.0882	0.010	ug/l	0.100		88	59-137			
Dieldrin	0.0815	0.010	ug/l	0.100		81	59-135			
Endosulfan I	0.0686	0.010	ug/l	0.100		69	28-138			
Endosulfan II	0.0741	0.010	ug/l	0.100		74	53-133			
Endosulfan sulfate	0.0844	0.010	ug/l	0.100		84	58-155			
Endrin	0.0718	0.010	ug/l	0.100		72	57-148			
Endrin aldehyde	0.0747	0.010	ug/l	0.100		75	45-139			
gamma-BHC (Lindane)	0.0808	0.010	ug/l	0.100		81	59-129			
Heptachlor	0.0797	0.010	ug/l	0.100		80	42-136			
Heptachlor epoxide	0.0793	0.010	ug/l	0.100		79	59-134			
Methoxychlor	0.0819	0.010	ug/l	0.100		82	56-167			
Surr: Decachlorobiphenyl	*0.0892*		*ug/l*	*0.100*		*89*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0867*		*ug/l*	*0.100*		*87*	*70-130*			
LCS Dup (W4B0996-BSD1)				Analyzed: 02/24/14 20:30						
4,4´-DDD	0.0794	0.010	ug/l	0.100		79	55-142	2	25	
4,4´-DDE	0.0828	0.010	ug/l	0.100		83	49-129	0.4	25	
4,4´-DDT	0.0912	0.010	ug/l	0.100		91	54-160	0.3	25	
Aldrin	0.0709	0.010	ug/l	0.100		71	29-115	0.6	25	
alpha-BHC	0.0804	0.010	ug/l	0.100		80	59-131	0.03	25	
beta-BHC	0.0795	0.010	ug/l	0.100		80	63-136	2	25	
delta-BHC	0.0881	0.010	ug/l	0.100		88	59-137	0.06	25	
Dieldrin	0.0834	0.010	ug/l	0.100		83	59-135	2	25	
Endosulfan I	0.0702	0.010	ug/l	0.100		70	28-138	2	25	
Endosulfan II	0.0743	0.010	ug/l	0.100		74	53-133	0.2	25	
Endosulfan sulfate	0.0833	0.010	ug/l	0.100		83	58-155	1	25	
Endrin	0.0730	0.010	ug/l	0.100		73	57-148	2	25	
Endrin aldehyde	0.0795	0.010	ug/l	0.100		79	45-139	6	25	
gamma-BHC (Lindane)	0.0823	0.010	ug/l	0.100		82	59-129	2	25	
Heptachlor	0.0801	0.010	ug/l	0.100		80	42-136	0.5	25	
Heptachlor epoxide	0.0812	0.010	ug/l	0.100		81	59-134	2	25	
Methoxychlor	0.0822	0.010	ug/l	0.100		82	56-167	0.4	25	
Surr: Decachlorobiphenyl	*0.0834*		*ug/l*	*0.100*		*83*	*70-130*			

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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/21/14 09:45
Date Reported: 02/28/14 10:47

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B0996 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W4B0996-BSD1)				Analyzed: 02/24/14 20:30						
Surr: Tetrachloro-meta-xylene	*0.0867*		*ug/l*	*0.100*		*87*	*70-130*			

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Monterey CA, 93940

Date Received: 02/21/14 09:45
Date Reported: 02/28/14 10:47

Notes and Definitions

M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A4B1697 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/21/2014. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Monterey Bay Analytical	**Invoice To:**	Monterey Bay Analytical
Report To:	David Holland	**Invoice Attn:**	David Holland
Project #:	-	**Project PO#:**	-
Received:	2/21/2014 - 10:30		
Report Due:	2/28/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 1.2

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
MS1.1	Matrix spike recovery exceeds upper control limit. Reported results for parent matrix may be biased high due to matrix interferences.

Report Distribution

Recipient(s)	Report Format
David Holland	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1697-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #2 // 11965

Sample Date - Time: 02/19/14 - 16:10
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A402381	02/25/14	02/26/14	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A402381	02/25/14	02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	EPA 504.1	110 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A402334	02/24/14	02/26/14	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A402334	02/24/14	02/26/14	
2,4-D	EPA 515.3	ND	10	ug/L	1	A402334	02/24/14	02/26/14	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A402334	02/24/14	02/26/14	
Dalapon	EPA 515.3	ND	10	ug/L	1	A402334	02/24/14	02/26/14	BS1.0, CV0.0
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A402334	02/24/14	02/26/14	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A402334	02/24/14	02/26/14	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A402334	02/24/14	02/26/14	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A402334	02/24/14	02/26/14	
Surrogate: DCPAA	EPA 515.3	87 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A402178	02/24/14	02/25/14	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A402178	02/24/14	02/25/14	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A402178	02/24/14	02/25/14	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A402178	02/24/14	02/25/14	
Acetone	EPA 524.2	ND	10	ug/L	1	A402178	02/24/14	02/25/14	

Certificate of Analysis

Sample ID: A4B1697-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #2 // 11965

Sample Date - Time: 02/19/14 - 16:10
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Benzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A402178	02/24/14	02/25/14	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A402178	02/24/14	02/25/14	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A402178	02/24/14	02/25/14	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A402178	02/24/14	02/25/14	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A402178	02/24/14	02/25/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1697-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #2 // 11965

Sample Date - Time: 02/19/14 - 16:10
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	96 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	101 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A402368	02/25/14	02/26/14	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A402368	02/25/14	02/26/14	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Bromacil	EPA 525.2	ND	10	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A402368	02/25/14	02/26/14	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A402368	02/25/14	02/26/14	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A402368	02/25/14	02/26/14	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A402368	02/25/14	02/26/14	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	108 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A402279	02/23/14	02/25/14	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A402279	02/23/14	02/25/14	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A402279	02/23/14	02/25/14	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A402279	02/23/14	02/25/14	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A402279	02/23/14	02/25/14	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A402279	02/23/14	02/25/14	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A402279	02/23/14	02/25/14	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A402279	02/23/14	02/25/14	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A402275	02/22/14	02/22/14	
Surrogate: AMPA	EPA 547	101 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A402387	02/25/14	02/26/14	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A402327	02/24/14	02/25/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A402381										Prepared: 02/25/2014	
Prep Method: EPA 505										Analyst: GAK	
Blank (A402381-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							02/26/14	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.8*			*3.4*		*110*	*70-130*			02/26/14	
Blank Spike (A402381-BS1)											
Dibromochloropropane (DBCP)	0.24	0.010	ug/L	0.20		118	70-130			02/26/14	
Ethylene Dibromide (EDB)	0.23	0.020	ug/L	0.20		113	70-130			02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.6*			*3.4*		*104*	*70-130*			02/26/14	
Blank Spike Dup (A402381-BSD1)											
Dibromochloropropane (DBCP)	0.25	0.010	ug/L	0.20		125	70-130	5	20	02/26/14	
Ethylene Dibromide (EDB)	0.24	0.020	ug/L	0.20		122	70-130	7	20	02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.7*			*3.4*		*109*	*70-130*			02/26/14	
Matrix Spike (A402381-MS1), Source: A4B1641-01											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20	ND	111	65-135			02/26/14	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.20	ND	109	65-135			02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.3*			*3.4*		*99*	*70-130*			02/26/14	
Matrix Spike Dup (A402381-MSD1), Source: A4B1641-01											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20	ND	114	65-135	3	20	02/26/14	
Ethylene Dibromide (EDB)	0.23	0.020	ug/L	0.20	ND	115	65-135	5	20	02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.4*			*3.4*		*101*	*70-130*			02/26/14	
EPA 515.3 - Quality Control											
Batch: A402334										Prepared: 02/24/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A402334-BLK1)											
2,4,5-T	ND	1.0	ug/L							02/25/14	
2,4,5-TP (Silvex)	ND	1.0	ug/L							02/25/14	
2,4-D	ND	10	ug/L							02/25/14	
Bentazon	ND	2.0	ug/L							02/25/14	
Dalapon	ND	10	ug/L							02/25/14	
Dicamba	ND	1.5	ug/L							02/25/14	
Dinoseb	ND	2.0	ug/L							02/25/14	
Pentachlorophenol	ND	0.20	ug/L							02/25/14	
Picloram	ND	1.0	ug/L							02/25/14	
Surrogate: DCPAA	*47*			*58*		*82*	*70-130*			02/25/14	
Blank Spike (A402334-BS1)											
2,4,5-T	3.9	1.0	ug/L	4.0		98	70-130			02/25/14	
2,4,5-TP (Silvex)	0.79	1.0	ug/L	0.80		99	70-130			02/25/14	
2,4-D	0.41	10	ug/L	0.40		102	70-130			02/25/14	
Bentazon	8.2	2.0	ug/L	8.0		102	70-130			02/25/14	
Dalapon	4.4	10	ug/L	4.0		109	70-130			02/25/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 515.3 - Quality Control												
Batch: A402334										Prepared: 02/24/2014		
Prep Method: EPA 515.3										Analyst: GAK		
Blank Spike (A402334-BS1)												
Dicamba	6.1	1.5	ug/L	6.0		101	70-130			02/25/14		
Dinoseb	0.80	2.0	ug/L	0.80		100	70-130			02/25/14		
Pentachlorophenol	0.16	0.20	ug/L	0.16		100	70-130			02/25/14		
Picloram	0.38	1.0	ug/L	0.40		94	70-130			02/25/14		
Surrogate: DCPAA	*48*			*58*		*82*	*70-130*			02/25/14		
Blank Spike Dup (A402334-BSD1)												
2,4,5-T	4.0	1.0	ug/L	4.0		100	70-130	2	20	02/26/14		
2,4,5-TP (Silvex)	0.79	1.0	ug/L	0.80		99	70-130	0	20	02/26/14		
2,4-D	0.43	10	ug/L	0.40		107	70-130	5	20	02/26/14		
Bentazon	8.1	2.0	ug/L	8.0		102	70-130	0	20	02/26/14		
Dalapon	5.4	10	ug/L	4.0		135	70-130	21	20	02/26/14	BS	***High***
Dicamba	6.1	1.5	ug/L	6.0		102	70-130	1	20	02/26/14		
Dinoseb	0.82	2.0	ug/L	0.80		103	70-130	3	20	02/26/14		
Pentachlorophenol	0.16	0.20	ug/L	0.16		99	70-130	1	20	02/26/14		
Picloram	0.39	1.0	ug/L	0.40		98	70-130	5	20	02/26/14		
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			02/26/14		
Matrix Spike (A402334-MS1), Source: A4B1537-03												
2,4,5-T	4.0	1.0	ug/L	4.0	ND	100	70-130			02/25/14		
2,4,5-TP (Silvex)	0.81	1.0	ug/L	0.80	ND	102	70-130			02/25/14		
2,4-D	0.42	10	ug/L	0.40	ND	105	70-130			02/25/14		
Bentazon	8.5	2.0	ug/L	8.0	ND	106	70-130			02/25/14		
Dalapon	5.8	10	ug/L	4.0	ND	145	70-130			02/25/14	MS1.1	***High***
Dicamba	6.3	1.5	ug/L	6.0	ND	105	70-130			02/25/14		
Dinoseb	0.80	2.0	ug/L	0.80	ND	100	70-130			02/25/14		
Pentachlorophenol	0.16	0.20	ug/L	0.16	ND	100	70-130			02/25/14		
Picloram	0.39	1.0	ug/L	0.40	ND	98	70-130			02/25/14		
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			02/25/14		
Matrix Spike Dup (A402334-MSD1), Source: A4B1537-03												
2,4,5-T	4.0	1.0	ug/L	4.0	ND	101	70-130	1	20	02/25/14		
2,4,5-TP (Silvex)	0.83	1.0	ug/L	0.80	ND	103	70-130	1	20	02/25/14		
2,4-D	0.43	10	ug/L	0.40	ND	108	70-130	2	20	02/25/14		
Bentazon	8.0	2.0	ug/L	8.0	ND	99	70-130	7	20	02/25/14		
Dalapon	4.9	10	ug/L	4.0	ND	123	70-130	17	20	02/25/14		
Dicamba	6.2	1.5	ug/L	6.0	ND	103	70-130	1	20	02/25/14		
Dinoseb	0.79	2.0	ug/L	0.80	ND	98	70-130	2	20	02/25/14		
Pentachlorophenol	0.16	0.20	ug/L	0.16	ND	99	70-130	1	20	02/25/14		
Picloram	0.40	1.0	ug/L	0.40	ND	100	70-130	1	20	02/25/14		
Surrogate: DCPAA	*48*			*58*		*83*	*70-130*			02/25/14		
EPA 524.2 - Quality Control												
Batch: A402178										Prepared: 02/24/2014		
Prep Method: EPA 524.2										Analyst: JGB		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual

EPA 524.2 - Quality Control

Batch: A402178 Prepared: 02/24/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A402178-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							02/24/14	
1,1,1-Trichloroethane	ND	0.50	ug/L							02/24/14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							02/24/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							02/24/14	
1,1,2-Trichloroethane	ND	0.50	ug/L							02/24/14	
1,1-Dichloroethane	ND	0.50	ug/L							02/24/14	
1,1-Dichloroethene	ND	0.50	ug/L							02/24/14	
1,1-Dichloropropene	ND	0.50	ug/L							02/24/14	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							02/24/14	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							02/24/14	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							02/24/14	
1,2-Dichlorobenzene	ND	0.50	ug/L							02/24/14	
1,2-Dichloroethane	ND	0.50	ug/L							02/24/14	
1,2-Dichloropropane	ND	0.50	ug/L							02/24/14	
1,3,5-Trimethylbenzene	ND	0.50	ug/L							02/24/14	
1,3-Dichlorobenzene	ND	0.50	ug/L							02/24/14	
1,3-Dichloropropane	ND	0.50	ug/L							02/24/14	
1,4-Dichlorobenzene	ND	0.50	ug/L							02/24/14	
2,2-Dichloropropane	ND	0.50	ug/L							02/24/14	
2-Butanone	ND	5.0	ug/L							02/24/14	
2-Chlorotoluene	ND	0.50	ug/L							02/24/14	
2-Hexanone	ND	10	ug/L							02/24/14	
4-Chlorotoluene	ND	0.50	ug/L							02/24/14	
4-Methyl-2-pentanone	ND	5.0	ug/L							02/24/14	
Acetone	ND	10	ug/L							02/24/14	
Benzene	ND	0.50	ug/L							02/24/14	
Bromobenzene	ND	0.50	ug/L							02/24/14	
Bromochloromethane	ND	0.50	ug/L							02/24/14	
Bromodichloromethane	ND	0.50	ug/L							02/24/14	
Bromoform	ND	0.50	ug/L							02/24/14	
Bromomethane	ND	0.50	ug/L							02/24/14	
Carbon Tetrachloride	ND	0.50	ug/L							02/24/14	
Chlorobenzene	ND	0.50	ug/L							02/24/14	
Chloroethane	ND	0.50	ug/L							02/24/14	
Chloroform	ND	0.50	ug/L							02/24/14	
Chloromethane	ND	0.50	ug/L							02/24/14	
cis-1,2-Dichloroethene	ND	0.50	ug/L							02/24/14	
cis-1,3-Dichloropropene	ND	0.50	ug/L							02/24/14	
Dibromochloromethane	ND	0.50	ug/L							02/24/14	
Dibromomethane	ND	0.50	ug/L							02/24/14	
Dichlorodifluoromethane	ND	0.50	ug/L							02/24/14	
Dichloromethane	ND	0.50	ug/L							02/24/14	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							02/24/14	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							02/24/14	
Ethylbenzene	ND	0.50	ug/L							02/24/14	
Hexachlorobutadiene	ND	0.50	ug/L							02/24/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A402178										Prepared: 02/24/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A402178-BLK1)											
Isopropylbenzene	ND	0.50	ug/L							02/24/14	
m,p-Xylenes	ND	0.50	ug/L							02/24/14	
Methyl-t-butyl ether	ND	0.50	ug/L							02/24/14	
Naphthalene	ND	0.50	ug/L							02/24/14	
n-Butylbenzene	ND	0.50	ug/L							02/24/14	
n-Propylbenzene	ND	0.50	ug/L							02/24/14	
o-Xylene	ND	0.50	ug/L							02/24/14	
p-Isopropyltoluene	ND	0.50	ug/L							02/24/14	
sec-Butylbenzene	ND	0.50	ug/L							02/24/14	
Styrene	ND	0.50	ug/L							02/24/14	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							02/24/14	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							02/24/14	
tert-Butylbenzene	ND	0.50	ug/L							02/24/14	
Tetrachloroethene (PCE)	ND	0.50	ug/L							02/24/14	
Toluene	ND	0.50	ug/L							02/24/14	
trans-1,2-Dichloroethene	ND	0.50	ug/L							02/24/14	
trans-1,3-Dichloropropene	ND	0.50	ug/L							02/24/14	
Trichloroethene (TCE)	ND	0.50	ug/L							02/24/14	
Trichlorofluoromethane	ND	5.0	ug/L							02/24/14	
Vinyl Chloride	ND	0.50	ug/L							02/24/14	
Surrogate: 1,2-Dichlorobenzene-d4	*5.5*			*5.0*		*109*	*70-130*			02/24/14	
Surrogate: Bromofluorobenzene	*55*			*50*		*111*	*70-130*			02/24/14	
Blank Spike (A402178-BS1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		102	70-130			02/24/14	
1,1,1-Trichloroethane	10	0.50	ug/L	10		102	70-130			02/24/14	
1,1,2,2-Tetrachloroethane	9.9	0.50	ug/L	10		99	70-130			02/24/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	10	10	ug/L	10		102	70-130			02/24/14	
1,1,2-Trichloroethane	10	0.50	ug/L	10		102	70-130			02/24/14	
1,1-Dichloroethane	10	0.50	ug/L	10		104	70-130			02/24/14	
1,1-Dichloroethene	10	0.50	ug/L	10		102	70-130			02/24/14	
1,1-Dichloropropene	9.6	0.50	ug/L	10		96	70-130			02/24/14	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		101	70-130			02/24/14	
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		105	70-130			02/24/14	
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		105	70-130			02/24/14	
1,2-Dichlorobenzene	9.9	0.50	ug/L	10		99	70-130			02/24/14	
1,2-Dichloroethane	10	0.50	ug/L	10		102	70-130			02/24/14	
1,2-Dichloropropane	10	0.50	ug/L	10		103	70-130			02/24/14	
1,3,5-Trimethylbenzene	10	0.50	ug/L	10		104	70-130			02/24/14	
1,3-Dichlorobenzene	10	0.50	ug/L	10		104	70-130			02/24/14	
1,3-Dichloropropane	10	0.50	ug/L	10		103	70-130			02/24/14	
1,4-Dichlorobenzene	10	0.50	ug/L	10		104	70-130			02/24/14	
2,2-Dichloropropane	10	0.50	ug/L	10		104	70-130			02/24/14	
2-Butanone	10	5.0	ug/L	10		104	70-130			02/24/14	
2-Chlorotoluene	10	0.50	ug/L	10		104	70-130			02/24/14	
2-Hexanone	10	10	ug/L	10		104	70-130			02/24/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402178 Prepared: 02/24/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A402178-BS1)											
4-Chlorotoluene	10	0.50	ug/L	10		104	70-130			02/24/14	
4-Methyl-2-pentanone	10	5.0	ug/L	10		104	70-130			02/24/14	
Acetone	9.8	10	ug/L	10		98	70-130			02/24/14	
Benzene	9.9	0.50	ug/L	10		99	70-130			02/24/14	
Bromobenzene	10	0.50	ug/L	10		102	70-130			02/24/14	
Bromochloromethane	10	0.50	ug/L	10		103	70-130			02/24/14	
Bromodichloromethane	9.7	0.50	ug/L	10		97	70-130			02/24/14	
Bromoform	10	0.50	ug/L	10		102	70-130			02/24/14	
Bromomethane	12	0.50	ug/L	10		118	70-130			02/24/14	
Carbon Tetrachloride	9.5	0.50	ug/L	10		95	70-130			02/24/14	
Chlorobenzene	10	0.50	ug/L	10		104	70-130			02/24/14	
Chloroethane	9.9	0.50	ug/L	10		99	70-130			02/24/14	
Chloroform	10	0.50	ug/L	10		101	70-130			02/24/14	
Chloromethane	10	0.50	ug/L	10		104	70-130			02/24/14	
cis-1,2-Dichloroethene	10	0.50	ug/L	10		105	70-130			02/24/14	
cis-1,3-Dichloropropene	11	0.50	ug/L	10		106	70-130			02/24/14	
Dibromochloromethane	9.7	0.50	ug/L	10		97	70-130			02/24/14	
Dibromomethane	9.7	0.50	ug/L	10		97	70-130			02/24/14	
Dichlorodifluoromethane	9.8	0.50	ug/L	10		98	70-130			02/24/14	
Dichloromethane	10	0.50	ug/L	10		104	70-130			02/24/14	
Di-isopropyl ether (DIPE)	11	3.0	ug/L	10		106	70-130			02/24/14	
Ethyl tert-Butyl Ether (ETBE)	11	0.50	ug/L	10		108	70-130			02/24/14	
Ethylbenzene	10	0.50	ug/L	10		103	70-130			02/24/14	
Hexachlorobutadiene	10	0.50	ug/L	10		100	70-130			02/24/14	
Isopropylbenzene	10	0.50	ug/L	10		104	70-130			02/24/14	
m,p-Xylenes	19	0.50	ug/L	20		94	70-130			02/24/14	
Methyl-t-butyl ether	21	0.50	ug/L	20		104	70-130			02/24/14	
Naphthalene	11	0.50	ug/L	10		106	70-130			02/24/14	
n-Butylbenzene	10	0.50	ug/L	10		100	70-130			02/24/14	
n-Propylbenzene	10	0.50	ug/L	10		103	70-130			02/24/14	
o-Xylene	10	0.50	ug/L	10		105	70-130			02/24/14	
p-Isopropyltoluene	10	0.50	ug/L	10		104	70-130			02/24/14	
sec-Butylbenzene	10	0.50	ug/L	10		102	70-130			02/24/14	
Styrene	10	0.50	ug/L	10		104	70-130			02/24/14	
tert-Amyl Methyl Ether (TAME)	10	3.0	ug/L	10		105	70-130			02/24/14	
tert-Butyl alcohol (TBA)	12	2.0	ug/L	10		122	70-130			02/24/14	
tert-Butylbenzene	10	0.50	ug/L	10		103	70-130			02/24/14	
Tetrachloroethene (PCE)	10	0.50	ug/L	10		103	70-130			02/24/14	
Toluene	10	0.50	ug/L	10		104	70-130			02/24/14	
trans-1,2-Dichloroethene	10	0.50	ug/L	10		104	70-130			02/24/14	
trans-1,3-Dichloropropene	11	0.50	ug/L	10		106	70-130			02/24/14	
Trichloroethene (TCE)	10	0.50	ug/L	10		105	70-130			02/24/14	
Trichlorofluoromethane	10	5.0	ug/L	10		102	70-130			02/24/14	
Vinyl Chloride	10	0.50	ug/L	10		103	70-130			02/24/14	
Surrogate: 1,2-Dichlorobenzene-d4	*4.9*			*5.0*		*99*	*70-130*			02/24/14	
Surrogate: Bromofluorobenzene	*49*			*50*		*99*	*70-130*			02/24/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402178 Prepared: 02/24/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike Dup (A402178-BSD1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		100	70-130	1	30	02/24/14	
1,1,1-Trichloroethane	10	0.50	ug/L	10		100	70-130	2	30	02/24/14	
1,1,2,2-Tetrachloroethane	9.9	0.50	ug/L	10		99	70-130	0	30	02/24/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.9	10	ug/L	10		99	70-130	3	30	02/24/14	
1,1,2-Trichloroethane	10	0.50	ug/L	10		101	70-130	1	30	02/24/14	
1,1-Dichloroethane	10	0.50	ug/L	10		101	70-130	2	30	02/24/14	
1,1-Dichloroethene	9.9	0.50	ug/L	10		99	70-130	3	30	02/24/14	
1,1-Dichloropropene	10	0.50	ug/L	10		105	70-130	9	30	02/24/14	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		101	70-130	0	30	02/24/14	
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		105	70-130	0	30	02/24/14	
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		103	70-130	2	30	02/24/14	
1,2-Dichlorobenzene	10	0.50	ug/L	10		102	70-130	3	30	02/24/14	
1,2-Dichloroethane	9.4	0.50	ug/L	10		94	70-130	8	30	02/24/14	
1,2-Dichloropropane	10	0.50	ug/L	10		101	70-130	2	30	02/24/14	
1,3,5-Trimethylbenzene	10	0.50	ug/L	10		103	70-130	1	30	02/24/14	
1,3-Dichlorobenzene	10	0.50	ug/L	10		101	70-130	4	30	02/24/14	
1,3-Dichloropropane	10	0.50	ug/L	10		102	70-130	1	30	02/24/14	
1,4-Dichlorobenzene	10	0.50	ug/L	10		103	70-130	1	30	02/24/14	
2,2-Dichloropropane	10	0.50	ug/L	10		100	70-130	4	30	02/24/14	
2-Butanone	10	5.0	ug/L	10		104	70-130	0	30	02/24/14	
2-Chlorotoluene	10	0.50	ug/L	10		102	70-130	2	30	02/24/14	
2-Hexanone	10	10	ug/L	10		105	70-130	0	30	02/24/14	
4-Chlorotoluene	10	0.50	ug/L	10		103	70-130	1	30	02/24/14	
4-Methyl-2-pentanone	10	5.0	ug/L	10		103	70-130	1	30	02/24/14	
Acetone	9.6	10	ug/L	10		96	70-130	3	30	02/24/14	
Benzene	8.5	0.50	ug/L	10		85	70-130	15	30	02/24/14	
Bromobenzene	10	0.50	ug/L	10		102	70-130	1	30	02/24/14	
Bromochloromethane	10	0.50	ug/L	10		103	70-130	0	30	02/24/14	
Bromodichloromethane	9.6	0.50	ug/L	10		96	70-130	1	30	02/24/14	
Bromoform	10	0.50	ug/L	10		100	70-130	1	30	02/24/14	
Bromomethane	11	0.50	ug/L	10		111	70-130	6	30	02/24/14	
Carbon Tetrachloride	10	0.50	ug/L	10		104	70-130	8	30	02/24/14	
Chlorobenzene	10	0.50	ug/L	10		100	70-130	3	30	02/24/14	
Chloroethane	9.6	0.50	ug/L	10		96	70-130	3	30	02/24/14	
Chloroform	10	0.50	ug/L	10		100	70-130	0	30	02/24/14	
Chloromethane	10	0.50	ug/L	10		100	70-130	3	30	02/24/14	
cis-1,2-Dichloroethene	10	0.50	ug/L	10		103	70-130	2	30	02/24/14	
cis-1,3-Dichloropropene	10	0.50	ug/L	10		104	70-130	2	30	02/24/14	
Dibromochloromethane	9.7	0.50	ug/L	10		97	70-130	1	30	02/24/14	
Dibromomethane	11	0.50	ug/L	10		108	70-130	11	30	02/24/14	
Dichlorodifluoromethane	10	0.50	ug/L	10		104	70-130	6	30	02/24/14	
Dichloromethane	10	0.50	ug/L	10		103	70-130	1	30	02/24/14	
Di-isopropyl ether (DIPE)	10	3.0	ug/L	10		104	70-130	2	30	02/24/14	
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		103	70-130	5	30	02/24/14	
Ethylbenzene	10	0.50	ug/L	10		101	70-130	2	30	02/24/14	
Hexachlorobutadiene	10	0.50	ug/L	10		100	70-130	0	30	02/24/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A402178										Prepared: 02/24/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike Dup (A402178-BSD1)											
Isopropylbenzene	10	0.50	ug/L	10		101	70-130	2	30	02/24/14	
m,p-Xylenes	19	0.50	ug/L	20		93	70-130	1	30	02/24/14	
Methyl-t-butyl ether	20	0.50	ug/L	20		102	70-130	2	30	02/24/14	
Naphthalene	11	0.50	ug/L	10		106	70-130	0	30	02/24/14	
n-Butylbenzene	10	0.50	ug/L	10		100	70-130	1	30	02/24/14	
n-Propylbenzene	10	0.50	ug/L	10		100	70-130	3	30	02/24/14	
o-Xylene	10	0.50	ug/L	10		100	70-130	4	30	02/24/14	
p-Isopropyltoluene	10	0.50	ug/L	10		103	70-130	1	30	02/24/14	
sec-Butylbenzene	10	0.50	ug/L	10		101	70-130	1	30	02/24/14	
Styrene	10	0.50	ug/L	10		101	70-130	4	30	02/24/14	
tert-Amyl Methyl Ether (TAME)	9.9	3.0	ug/L	10		99	70-130	6	30	02/24/14	
tert-Butyl alcohol (TBA)	11	2.0	ug/L	10		113	70-130	7	30	02/24/14	
tert-Butylbenzene	10	0.50	ug/L	10		103	70-130	1	30	02/24/14	
Tetrachloroethene (PCE)	9.9	0.50	ug/L	10		99	70-130	4	30	02/24/14	
Toluene	10	0.50	ug/L	10		102	70-130	2	30	02/24/14	
trans-1,2-Dichloroethene	10	0.50	ug/L	10		102	70-130	2	30	02/24/14	
trans-1,3-Dichloropropene	10	0.50	ug/L	10		104	70-130	2	30	02/24/14	
Trichloroethene (TCE)	9.8	0.50	ug/L	10		98	70-130	7	30	02/24/14	
Trichlorofluoromethane	9.9	5.0	ug/L	10		99	70-130	3	30	02/24/14	
Vinyl Chloride	10	0.50	ug/L	10		104	70-130	1	30	02/24/14	
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*100*	*70-130*			02/24/14	
Surrogate: Bromofluorobenzene	*50*			*50*		*99*	*70-130*			02/24/14	
EPA 525.2 - Quality Control											
Batch: A402368										Prepared: 02/25/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Blank (A402368-BLK1)											
Alachlor	ND	1.0	ug/L							02/26/14	
Atrazine	ND	0.50	ug/L							02/26/14	
Benzo(a)pyrene	ND	0.10	ug/L							02/26/14	
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							02/26/14	
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							02/26/14	
Bromacil	ND	10	ug/L							02/26/14	
Butachlor	ND	0.38	ug/L							02/26/14	
Diazinon	ND	0.25	ug/L							02/26/14	
Dimethoate	ND	10	ug/L							02/26/14	
Metolachlor	ND	0.50	ug/L							02/26/14	
Metribuzin	ND	0.50	ug/L							02/26/14	
Molinate	ND	2.0	ug/L							02/26/14	
Propachlor	ND	0.50	ug/L							02/26/14	
Simazine	ND	1.0	ug/L							02/26/14	
Thiobencarb	ND	1.0	ug/L							02/26/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*6.0*			*5.0*		*119*	*70-130*			02/26/14	
Blank Spike (A402368-BS1)											

Organics Quality Control Report

EPA 525.2 - Quality Control

Batch: A402368 Prepared: 02/25/2014

Prep Method: EPA 525.2 Analyst: KHH

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A402368-BS1)												
Alachlor	0.60	1.0	ug/L	0.50		119	70-130			02/26/14		
Atrazine	0.55	0.50	ug/L	0.50		111	70-130			02/26/14		
Benzo(a)pyrene	0.12	0.10	ug/L	0.10		119	70-130			02/26/14		
Bis(2-ethylhexyl) adipate	3.6	3.0	ug/L	3.0		120	70-130			02/26/14		
Bis(2-ethylhexyl) phthalate	4.3	3.0	ug/L	3.0		142	70-130			02/26/14	BS	***High***
Bromacil	2.6	10	ug/L	2.0		132	70-130			02/26/14	BS	***High***
Butachlor	1.4	0.38	ug/L	1.2		110	70-130			02/26/14		
Diazinon	0.038	0.25	ug/L	0.050		76	70-130			02/26/14		
Dimethoate	0.35	10	ug/L	0.50		71	70-130			02/26/14		
Metolachlor	3.3	0.50	ug/L	2.5		131	70-130			02/26/14	BS	***High***
Metribuzin	3.0	0.50	ug/L	2.5		120	70-130			02/26/14		
Molinate	2.9	2.0	ug/L	2.5		117	70-130			02/26/14		
Propachlor	2.9	0.50	ug/L	2.5		117	70-130			02/26/14		
Simazine	0.40	1.0	ug/L	0.35		116	70-130			02/26/14		
Thiobencarb	0.59	1.0	ug/L	0.50		119	70-130			02/26/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.5*			*5.0*		*109*	*70-130*			02/26/14		
Blank Spike Dup (A402368-BSD1)												
Alachlor	0.58	1.0	ug/L	0.49		118	70-130	3	30	02/26/14		
Atrazine	0.53	0.50	ug/L	0.49		107	70-130	5	30	02/26/14		
Benzo(a)pyrene	0.11	0.10	ug/L	0.098		116	70-130	4	30	02/26/14		
Bis(2-ethylhexyl) adipate	3.6	3.0	ug/L	2.9		122	70-130	0	30	02/26/14		
Bis(2-ethylhexyl) phthalate	4.1	3.0	ug/L	2.9		140	70-130	3	30	02/26/14	BS	***High***
Bromacil	2.6	10	ug/L	2.0		132	70-130	2	30	02/26/14	BS	***High***
Butachlor	1.4	0.38	ug/L	1.2		111	70-130	1	30	02/26/14		
Diazinon	0.040	0.25	ug/L	0.049		82	70-130	6	30	02/26/14		
Dimethoate	0.34	10	ug/L	0.49		70	70-130	3	30	02/26/14		
Metolachlor	3.2	0.50	ug/L	2.5		132	70-130	1	30	02/26/14	BS	***High***
Metribuzin	3.0	0.50	ug/L	2.5		121	70-130	1	30	02/26/14		
Molinate	2.7	2.0	ug/L	2.5		109	70-130	9	30	02/26/14		
Propachlor	2.7	0.50	ug/L	2.5		109	70-130	8	30	02/26/14		
Simazine	0.37	1.0	ug/L	0.34		108	70-130	9	30	02/26/14		
Thiobencarb	0.57	1.0	ug/L	0.49		116	70-130	3	30	02/26/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*4.9*		*101*	*70-130*			02/26/14		
Matrix Spike (A402368-MS1), Source: A4B1490-02												
Alachlor	0.54	1.0	ug/L	0.49	ND	110	70-130			02/26/14		
Atrazine	0.52	0.50	ug/L	0.49	ND	105	70-130			02/26/14		
Benzo(a)pyrene	0.13	0.10	ug/L	0.099	ND	134	70-130			02/26/14	MS1.0	***High***
Bis(2-ethylhexyl) adipate	3.7	3.0	ug/L	3.0	ND	124	70-130			02/26/14		
Bis(2-ethylhexyl) phthalate	4.4	3.0	ug/L	3.0	ND	129	70-130			02/26/14		
Bromacil	2.5	10	ug/L	2.0	ND	126	70-130			02/26/14		
Butachlor	1.3	0.38	ug/L	1.2	ND	106	70-130			02/26/14		
Diazinon	0.056	0.25	ug/L	0.049	ND	114	70-130			02/26/14		
Dimethoate	0.32	10	ug/L	0.49	ND	64	70-130			02/26/14	MS1.0	***Low***
Metolachlor	2.9	0.50	ug/L	2.5	ND	119	70-130			02/26/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A402368										Prepared: 02/25/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Matrix Spike (A402368-MS1), Source: A4B1490-02											
Metribuzin	2.6	0.50	ug/L	2.5	ND	104	70-130			02/26/14	
Molinate	2.7	2.0	ug/L	2.5	ND	110	70-130			02/26/14	
Propachlor	2.6	0.50	ug/L	2.5	ND	107	70-130			02/26/14	
Simazine	0.38	1.0	ug/L	0.35	ND	109	70-130			02/26/14	
Thiobencarb	0.57	1.0	ug/L	0.49	ND	116	70-130			02/26/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.2*			*4.9*		*106*	*70-130*			02/26/14	
EPA 531.1 - Quality Control											
Batch: A402279										Prepared: 02/23/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A402279-BLK1)											
3-Hydroxycarbofuran	ND	3.0	ug/L							02/25/14	
Aldicarb	ND	3.0	ug/L							02/25/14	
Aldicarb Sulfone	ND	2.0	ug/L							02/25/14	
Aldicarb Sulfoxide	ND	3.0	ug/L							02/25/14	
Carbaryl	ND	5.0	ug/L							02/25/14	
Carbofuran	ND	5.0	ug/L							02/25/14	
Methomyl	ND	2.0	ug/L							02/25/14	
Oxamyl	ND	20	ug/L							02/25/14	
Blank Spike (A402279-BS1)											
3-Hydroxycarbofuran	3.6	3.0	ug/L	4.0		89	80-120			02/25/14	
Aldicarb	4.5	3.0	ug/L	4.0		114	80-120			02/25/14	
Aldicarb Sulfone	4.2	2.0	ug/L	4.0		104	80-120			02/25/14	
Aldicarb Sulfoxide	4.1	3.0	ug/L	4.0		103	80-120			02/25/14	
Carbaryl	4.2	5.0	ug/L	4.0		104	80-120			02/25/14	
Carbofuran	4.2	5.0	ug/L	4.0		104	80-120			02/25/14	
Methomyl	4.1	2.0	ug/L	4.0		103	80-120			02/25/14	
Oxamyl	4.1	20	ug/L	4.0		103	80-120			02/25/14	
Blank Spike Dup (A402279-BSD1)											
3-Hydroxycarbofuran	4.0	3.0	ug/L	4.0		99	80-120	11	20	02/25/14	
Aldicarb	4.3	3.0	ug/L	4.0		107	80-120	6	20	02/25/14	
Aldicarb Sulfone	4.1	2.0	ug/L	4.0		103	80-120	1	20	02/25/14	
Aldicarb Sulfoxide	4.0	3.0	ug/L	4.0		101	80-120	2	20	02/25/14	
Carbaryl	4.0	5.0	ug/L	4.0		101	80-120	3	20	02/25/14	
Carbofuran	4.0	5.0	ug/L	4.0		99	80-120	5	20	02/25/14	
Methomyl	4.0	2.0	ug/L	4.0		101	80-120	2	20	02/25/14	
Oxamyl	4.0	20	ug/L	4.0		101	80-120	2	20	02/25/14	
Matrix Spike (A402279-MS1), Source: A4B1162-01											
3-Hydroxycarbofuran	4.3	3.0	ug/L	4.0	ND	103	65-135			02/25/14	
Aldicarb	4.5	3.0	ug/L	4.0	ND	112	65-135			02/25/14	
Aldicarb Sulfone	4.4	2.0	ug/L	4.0	ND	109	65-135			02/25/14	
Aldicarb Sulfoxide	4.4	3.0	ug/L	4.0	ND	109	65-135			02/25/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A402279										Prepared: 02/23/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Matrix Spike (A402279-MS1), Source: A4B1162-01											
Carbaryl	4.4	5.0	ug/L	4.0	ND	109	65-135			02/25/14	
Carbofuran	4.2	5.0	ug/L	4.0	ND	106	65-135			02/25/14	
Methomyl	4.3	2.0	ug/L	4.0	ND	108	65-135			02/25/14	
Oxamyl	4.2	20	ug/L	4.0	ND	106	65-135			02/25/14	
EPA 547 - Quality Control											
Batch: A402275										Prepared: 02/22/2014	
Prep Method: EPA 547										Analyst: RJB	
Blank (A402275-BLK1)											
Glyphosate	ND	25	ug/L							02/22/14	
Surrogate: AMPA	*100*			*100*		*101*	*70-130*			02/22/14	
Blank Spike (A402275-BS1)											
Glyphosate	110	25	ug/L	100		105	70-130			02/22/14	
Surrogate: AMPA	*110*			*100*		*106*	*70-130*			02/22/14	
Blank Spike Dup (A402275-BSD1)											
Glyphosate	110	25	ug/L	100		110	70-130	5	30	02/22/14	
Surrogate: AMPA	*110*			*100*		*107*	*70-130*			02/22/14	
Matrix Spike (A402275-MS1), Source: A4B1537-01											
Glyphosate	110	25	ug/L	100	ND	106	70-130			02/22/14	
Surrogate: AMPA	*110*			*100*		*112*	*70-130*			02/22/14	
Matrix Spike Dup (A402275-MSD1), Source: A4B1537-01											
Glyphosate	110	25	ug/L	100	ND	108	70-130	2	30	02/22/14	
Surrogate: AMPA	*100*			*100*		*100*	*70-130*			02/22/14	
EPA 548.1 - Quality Control											
Batch: A402387										Prepared: 02/25/2014	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A402387-BLK1)											
Endothall	ND	45	ug/L							02/26/14	
Blank Spike (A402387-BS1)											
Endothall	17	45	ug/L	20		83	60-111			02/26/14	
Blank Spike Dup (A402387-BSD1)											
Endothall	15	45	ug/L	20		73	60-111	13	46	02/26/14	
Matrix Spike (A402387-MS1), Source: A4B1489-04											
Endothall	4.3	45	ug/L	20	ND	22	10-122			02/26/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 549.2 - Quality Control											
Batch: A402327										Prepared: 02/24/2014	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A402327-BLK1)											
Diquat	ND	4.0	ug/L							02/25/14	
Blank Spike (A402327-BS1)											
Diquat	3.1	4.0	ug/L	4.0		76	70-130			02/25/14	
Blank Spike Dup (A402327-BSD1)											
Diquat	3.2	4.0	ug/L	4.0		80	70-130	4	30	02/25/14	
Matrix Spike (A402327-MS1), Source: A4B1666-05											
Diquat	2.1	4.0	ug/L	4.0	ND	52	70-130			02/25/14	MS1.0 ***Low***

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of Oregon - NELAP	4021	State of Washington	C997
State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA

BSK is not accredited under the NELAC program for the following parameters:

A4B1697

Monterey Bay Analytical

Monte6227

02212014

Turnaround: Standard

Due Date: 2/28/2014

Printed: 2/21/2014 3:01:39PM

Page 1 of 1

A4B1697 Appendix G 02/26/2014
Monte6227 5

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street, Fresno, CA 93706-1623
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

* Required Fields

TEMP: 1.2

Client/Company Name *:	Report Attention *:	Phone * #: (831)-357-6227 FAX * #(831)-641-0734
Monterey Bay Analytical	David Holland	E-mail: 4MBAS@Sbcglobal.net

Address *	City *	State *	Zip *
4 Justin Ct.	Monterey	CA	93940

Project Information: Cal Am

PO # / Quote # 464

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: Nathan Reynolds

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☑ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☑ System No. *

ANALYSIS REQUESTED

Matrix Types: RSW = Raw Surface Water, CFW = Clorinated Finished Water, CWW = Chorinated Waste Water, BW = Bottled Water, RGW = Raw Ground Water, FW = Finished Water, WW = Waste Water, SW = Storm Water, DW = Drinking Water, SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 504	EPA 515	EPA 524 plus oxygenates	EPA 525	EPA 531	EPA 547	EPA 548	EPA 549
1		2/19	16:10	CX-BIWQ Zone #2	RGW	11965	✓	✓	✓	✓	✓	✓	✓	✓
				5 day TAT please										
				Conductivity 23,705 uS/cm										

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
David Holland	MBAS	2/20	1200		

Received for Lab by: (Signature and Printed Name)	Date	Time	Payment Received at Delivery:
John Herr	2/21/14	10:30	Date: Amount: Check/Cash/Card PIA # Init.

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material: BW

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/re-billing charges and interest calculated at 1 1/2 % per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorneys' fees incurred prior to or in litigation whether concluded by judgement, settlement, compromise or otherwise. The person signing for the client/Company expressley acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis requested, either type or quantities, will be noted and agreed upon this Chain of Custody. The turn around time for any samples received after 3:00 pm will begin the next business day.

SR-FL-0012-00 (Analytical)

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C 1.2	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun? wet	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received — "–" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1					
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—						
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—						
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N			JLH			
NaOH + ZnAc (P)	pH ≥ 9	Y N			2/21/14			
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—						
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2A,2C					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	4V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: NC @ 1457 Labels checked by: JLH @ 14:57 RUSH Paged by:

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

February 24, 2014 Ceres ID: 10263

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on February 21, 2014. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613. **Rush** 5 day turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # 11965.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (888)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
10263-001	CX-B1WQ Z#2 (274-284 ft bags)	2/21/2014	2/19/2014	16:10

Section II: Data Summary

Sample ID:	**Method Blank**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-MB001 — Date Received: NA
Project:	11850	Sample Size: 1.000 L	QC Batch #: 1156 — Date Extracted: 21-Feb-14
Date Collected:	NA		ZB-5 MS Analysis Date: 22-Feb-14
Time Collected:	NA		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	3.66		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	110	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	119	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Sample ID:	**Ongoing Precision and Recovery**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-OPR001 — Date Received: NA
Project:	11850	Sample Size: 1.000 L	QC Batch #: 1156 — Date Extracted: 21-Feb-14
Date Collected:	NA		ZB-5 MS Analysis Date: 22-Feb-14
Time Collected:	NA		

Analyte	Conc. (ng/ml)	Limits [a]	Qualifiers
2,3,7,8-TCDD	9.88	7.3-14.6	

	Labeled Standards	Conc.	Limits [a]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	98.3	25-141	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	10.1	3.7-15.8	

a. Method acceptance criteria .

Analyst: JMH

Reviewed by: BS

Sample ID:	CX-B1WQ Zone #2 (274-284 ft bags)				
Client Data		**Sample Data**		**Laboratory Data**	
Name:	Monterey Bay Analytical	Matrix:	Aqueous	Lab Sample ID: 10263-001	Date Received: 21-Feb-14
Project:	11850	Sample Size:	1.049 L	QC Batch #: 1156	Date Extracted: 21-Feb-14
Date Collected:	19-Feb-14			ZB-5 MS Analysis Date: 22-Feb-14	
Time Collected:	16:10				

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	2.47		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	104	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	110	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Pg ~~Appendix G~~ of

Ceres Project ID:_____
Temperature: _____ °C

Reports and invoices will be delivered by email in .pdf format

Client Information	Invoice Information(if different from Client Info)	Project Information
Company Name:_____ Monterey Bay Analytical	Company Name:_____ Same	Ceres Quote #:_____
Contact Name:_____ David Holland	Contact Name:_____	P.O. # _____
Address: 4 Justin Court Ste D Monterey CA 93940	Address:_____	Project ID: _____
Ph:_ 831-375-6227	Ph:_____ Fx:_____	**TAT** (business days)_____
Email: montereybayanalytical@usa.net	Email:	Std 15 days; Rush TAT available please call

Matrix abreviations:

A: Aqueous	S: Soil	AS: Ash	DW: Drinking Water
E: Effluent	SD: Sediment	C: Clay	SO: Solid
I: Influent	SL: Sludge	CS: Clay Slurry	O: Other (please comment)

	Sample ID	Sample Collection Date	Time	Matrix	# of containers	EPA 1613	EPA 8290	NCASI 551	EPA 8280	EPA 613	Other	TEF ☐ 1998 WHO ☐ 2005 WHO ☐ Other	Comments
1	CX-B1WQ Zone #2 (274-284 ft bags)	2/19/2014	16:10	Aq	2	X							11965
2													(2,3,7,8 TCDD only)
3													5 day Rush Please
4													
5													
6													
7													
8													
9													
10													
11													
12													

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

Relinquished by: *(Signature and Printed Name)*	Date	Time	Received by: *(signature and Printed Name)*	Date	Time
David Holland	2/20/2014	12:00	J.M Hedin	2/21/14	09:45
J.M Hedin	2/21/14	09:45			

Client understands that all terms desribed in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.

Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

Ceres ID: 102263	Date/Time: 2/21/14 9:40am
Client Project ID: ~~A01~~ 2/21/14 A01965	Received Temperature: 1.4 Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present?	Y / N / NA
List COC discrepancies: NAN 2/21/14	
List Damaged Samples: NAN 2/21/14	

Ceres Analytical Laboratory — Process Request

Ceres ID: 10263 PB: 1156 Sample #s: 1 Due Date: 2/26/14

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash

Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (check one):

- ☐ 1613 2,3,7,8-TCDD
- ☐ 1613 2,3,7,8-TCDD/F
- ☐ 1613 Cl_4-Cl_8
- ☐ 8290 2,3,7,8-TCDD
- ☐ 8290 2,3,7,8-TCDD/F
- ☐ 8290 Cl_4-Cl_8
- ☐ 8280 2,3,7,8-TCDD
- ☐ 8280 2,3,7,8-TCDD/F
- ☐ 8280 Appendix IX
- ☐ 8280 Cl_4-Cl_8
- ☐ NCASI 551

Instructions:

Sample Volume Calculation

Instructions:
1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$Sample\ Volume = (Sample + Bottle\ Wt) - Empty\ Bottle\ Wt.$$

Ceres ID	Sample +Bottle Wt.	Empty Bottle Wt.	Sample Volume
10263-1	1557.02	507.87	1.049L

Chemist: _____ Date: 2/21/14

Method: 1613

SOP #: 3 & 1.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Appendix G

Ceres ID	Client ID	Ver.	wt/vol	ISS/PAR chem/date/witness	CSS chem/date/witness	AP	AB/AC	FC	RSS chem/date/witness
0-1156-MB001	Method Blank		1.000L	2/21/14	2/22/14	NA	2/22/14	NA	2/22/14
0-1156-OPR001	OPR		1.000L	(A)					
10263-1156-001	CX-B1WQZone #2	✓	1.049L						

Comments: (A) Spiked w/ NSS.

Soxhlet Start: 14:00 2/21/14

Soxhlet Stop: 06:25 2/22/14

Samples Logged out by: 2/21/14 11:20

Samples Returned by: NA

Note samples Depleted: "A"

Sample Extracts Storage Location: Box 8

Extracts to Intrument: 09:20 2/22/14

Extracts returned to Storage Location: 09:20 2/24/14

Form M1.0 rev4

Chemist: G-101

Effective Date: 7/12/13

Method: 1653
SOP #: 301.1

Ceres Analytical Laboratory
Sample Prep Bench Sheet

Standard	Standard ID	Vol.	Expiration Date
ISS	S031212A	100	3/12/14
NSS	S031212B	10	3/12/14
CSS	S031212C	10	3/12/14
RSS	S031212D	20	3/12/12

Solvents/Solutions/Packing Materials

Name	Amount	Lot #	Exp. Date
Toluene	450 ml	B4020	6/10/14
Sigel	4g	P020514A	8/5/14
Hexane	30,30,100,20	136735	6/10/14
Basiogel	4g	P012014A	7/20/14
Acid gel	8g	P012014B	7/20/14
Acid Al	6g	P020414A	8/4/14
Na2SO4	1.5g	P120412A	6/4/14
20% DCM Hex	30ml	L021914A	8/19/14

Chemist : [signature] G-102

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

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http://www.MBASinc.com

Alkalinity QC Summary (SM 2320B)

Date Analyzed: 2/20/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	40	40.1	100.25	95-105
IPC	40	39.3	98.25	95-105

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB11873	179.7	179.1	0.3	10
AB11950	188.5	187.5	0.5	10
AB11960	157.5	156.9	0.4	10
AB11971	271.1	271.9	0.3	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

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pH QC Summary (SM 4500 H+)

Date Analyzed: 2/20/2014

	Value (pH Units)	Result (pH Units)	% Rec	Acceptance Criteria %Rec
IPC	6.86	6.83	99.6	95-105

Sample ID	Sample (pH Units)	Sample Dup (pH Units)	% RPD	Acceptance Criteria % RPD
AB11965	6.9	6.9	0.0	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 2/20/2014

	Value (umhos/cm)	Result (umhos/cm)	% Rec	Acceptance Criteria %Rec
IPC	1412	1412	100.0%	95-105

Sample ID	Sample (umhos/cm)	Sample Dup (umhos/cm)	% RPD	Acceptance Criteria % RPD
AB11953	496	496	0.0%	10
AB11963	339	339	0.0%	10
AB11974	751	746	0.7%	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 2/20/2014

	Value (NTU)	Result (NTU)	% Rec	Acceptance Criteria %Rec
IPC	1.00	1.03	103.0	95-105

Sample ID	Sample (NTU)	Sample Dup (NTU)	% RPD	Acceptance Criteria % RPD
AB11965	2.77	2.87	3.5	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

Date Analyzed: 20140220

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http://www.MBASinc.com

300.0 QC Summary

All units expressed in mg/L

		F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
		2	20	2	20	2	2	2
IPC		2.01	19.95	2.11	19.43	2.06	1.99	1.95
Recovery	90-110%	100.45	99.77	105.63	97.16	103.01	99.50	97.65
CCV1		2.01	20.04	2.13	19.59	2.06	2.00	1.99
Recovery	90-110%	100.49	100.22	106.51	97.94	103.08	100.07	99.63
RPD	10%	0.05	0.45	0.83	0.80	0.08	0.57	2.01
CCV2		2.03	20.10	2.14	19.61	2.05	2.00	2.01
Recovery	90-110%	101.25	100.51	107.00	98.04	102.65	100.15	100.50
RPD	10%	0.80	0.73	1.29	0.90	0.34	0.65	2.88
CCV3		2.01	20.00	2.12	19.50	2.04	1.99	1.94
Recovery	90-110%	100.28	100.01	105.92	97.50	101.83	99.60	97.05
RPD	10%	0.17	0.24	0.27	0.35	1.15	0.10	0.61
CCV4		2.03	20.14	2.13	19.56	2.05	1.99	1.94
Recovery	90-110%	101.52	100.71	106.31	97.80	102.46	99.66	97.02
RPD	10%	1.06	0.93	0.64	0.66	0.53	0.16	0.65

	F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
	2	20	2	20	2	2	2
AB11955	0.23	10.65	0.48	15.87	0.13	1.58	0.07
AB11955+LFM	2.29	30.70	2.35	35.38	1.82	3.59	1.84
AB11955+LFMD	2.30	30.84	2.36	35.45	1.81	3.60	1.88
Average	2.30	30.77	2.36	35.42	1.81	3.60	1.86
Recovery 80-120%	103.49	100.59	93.81	97.75	83.91	100.88	89.38
RPD 10%	0.76	0.48	0.17	0.18	0.54	0.24	2.42

ICP-OES EPA 200.7

Batch # 20140221

Analyte/		IC	Prep	LCS	%Rec	LCSD	%Rec	%Diff	IC Verification			QCS (95-105%)		
WL	Range	Blank	Blank	Value	85-115%	Value	85-115%		Value	Result	%Rec	Value	Result	%Rec
B 249.678	0.05-5ppm	0.00	0.00	1.00	100.3%	1.04	104.1%	3.7%	1	0.98	98.4%	1	0.96	96.3%
B 249.772	0.05-5ppm	0.01	0.00	1.01	100.7%	1.04	103.6%	2.9%	1	0.99	98.9%	1	0.96	96.3%
Ca 317.933	50-300ppm	-6.23	-6.24	48.1	96.3%	49.6	99.2%	3.0%	50	48.2	96.5%	50	46.8	93.6%
Ca 396.847	0.5-50ppm	-0.23	-0.24	49.1	98.2%	51.4	102.8%	4.5%	50	49.1	98.2%	50	48.7	97.5%
Cu 324.754	10ppb-100ppm	-3.68	-2.80	997	99.7%	1038	103.8%	4.0%	1000	984	98.4%	1000	984	98.4%
Cu 327.395	10ppb-100ppm	-0.27	0.98	990	99.0%	1025	102.5%	3.5%	1000	980	98.0%	1000	983	98.3%
Fe 238.204	10ppb-100ppm	0.91	0.00	992	99.2%	1017	101.7%	2.5%	1000	984	98.4%	1000	965	96.5%
Fe 259.940	10ppb-100ppm	-0.38	0.60	992	99.2%	1025	102.5%	3.2%	1000	995	99.5%	1000	968	96.8%
K 766.491	0.1-750ppm	0.14	0.11	9.8	97.7%	10.2	101.8%	4.1%	10	9.8	97.7%	10	9.6	96.2%
Mg 202.582	50-1000ppm	-2.11	-2.13	49.1	98.2%	51.0	102.0%	3.8%	50	49.4	98.9%	50	48.6	97.3%
Mg 279.078	0.5-50ppm	0.01	-0.03	49.2	98.4%	50.9	101.8%	3.4%	50	49.3	98.6%	50	48.5	96.9%
Mn 257.610	10ppb-11ppm	-1.16	-1.87	994	99.4%	1022	102.2%	2.8%	1000	986	98.6%	1000	966	96.6%
Mn 260.568	10ppb-11ppm	-0.35	-1.41	990	99.0%	1020	102.0%	3.0%	1000	978	97.8%	1000	960	96.0%
Na 568.821	50-1000ppm	2.64	3.62	47.6	95.3%	48.8	97.5%	2.3%	50	47.9	95.7%	50	47.8	95.5%
Na 589.592	0.5-50ppm	0.11	0.05	49.3	98.6%	51.2	102.4%	3.8%	50	49.5	99.0%	50	48.3	96.7%
Si 251.611	0.5-200ppm	0.12	0.05	50.0	99.9%	51.1	102.2%	2.2%	50	49.3	98.6%	107	102.5	95.8%
Si 252.411	0.5-200ppm	0.13	0.04	50.2	100.4%	51.1	102.3%	1.8%	50	49.3	98.5%	107	102.7	96.0%
Zn 213.857	10ppb-50ppm	-1.25	-3.10	989	98.9%	1017	101.7%	2.9%	1000	989	98.9%	1000	958	95.8%

Matrix Spikes

Sample ID AB11636

Analyte/	Sample	MS	%Rec	MSD	%Rec	%Diff	CCV (90-110%)			%Diff	CC
WL	Value	Value	70-130%	Value	70-130%		Value	Result	%Rec	10%	Blank
B 249.678	0.18	1.17	98.1%	1.17	98.8%	0.6%	1	1.00	99.8%	1.4%	0.00
B 249.772	0.18	1.17	98.2%	1.17	98.2%	0.0%	1	1.00	100.0%	1.0%	0.00
Ca 317.933	-6.23	46.7	105.9%	47.0	106.4%	0.6%	50	47.9	95.7%	0.8%	-6.25
Ca 396.847	-0.23	48.9	98.2%	48.8	98.1%	0.2%	50	49.7	99.5%	1.3%	-0.25
Cu 324.754	-3.42	991	99.4%	998	100.1%	0.7%	1000	995	99.5%	1.2%	-2.54
Cu 327.395	2.88	990	98.7%	995	99.2%	0.5%	1000	997	99.7%	1.7%	0.99
Fe 238.204	-1.92	970	97.2%	972	97.4%	0.2%	1000	992	99.2%	0.8%	0.05
Fe 259.940	-2.92	970	97.3%	974	97.6%	0.4%	1000	993	99.3%	0.1%	0.37
K 766.491	0.63	10.2	95.9%	10.3	96.4%	0.4%	10	9.9	99.4%	1.7%	0.11
Mg 202.582	-2.18	49.1	102.5%	49.2	102.8%	0.3%	50	49.8	99.6%	0.7%	-2.12
Mg 279.078	-0.01	48.9	97.8%	48.9	97.8%	0.0%	50	49.6	99.2%	0.6%	-0.01
Mn 257.610	-2.30	976	97.8%	975	97.7%	0.1%	1000	990	99.0%	0.4%	-1.91
Mn 260.568	-0.84	972	97.3%	970	97.1%	0.2%	1000	988	98.8%	1.0%	-1.00
Na 568.821	5.30	53.0	95.5%	51.3	92.0%	3.3%	50	47.5	95.0%	0.8%	2.91
Na 589.592	4.81	53.6	97.6%	53.9	98.1%	0.5%	50	50.3	100.5%	1.5%	0.06
Si 251.611	0.32	49.4	98.2%	49.5	98.3%	0.2%	50	49.4	98.7%	0.2%	0.02
Si 252.411	0.34	49.3	98.0%	49.5	98.3%	0.3%	50	49.4	98.9%	0.3%	0.02
Zn 213.857	19.84	995	97.5%	995	97.5%	0.0%	1000	987	98.7%	0.2%	-2.05

Note: Italics indicates that the result is outside the calibration range.

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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 2/25/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC Low	0.050	0.049	98	90-110
IPC	0.500	0.453	90.6	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB11890	1.080	0.500	1.530	1.630	90	110	6.3	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

AB11965
SAMPLE ID **Zone 2 Total**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	2913	0.04350	126.72
Potassium	36	0.02558	0.92
Calcium	1581	0.04990	78.89
Magnesium	674	0.08229	55.46
NH3-N	0	0.07143	0.00
		SUM	261.99

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	132	0.02000	2.64
Sulfate	991	0.02082	20.63
Chloride	8796	0.02821	248.14
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0	0.07138	0.00
Phosphate-P	0.1	0.01031	0.00
Fluoride	0.1	0.05264	0.01
Bromide	41.0	0.01252	0.51
		SUM	271.93

ANION-CATION BALANCE: **-2** (% DIFFERENCE)
Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	24570	
Cation Sum X 100	26199	**107%**
Anion Sum X 100	27193	**111%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**15.5**
Ca+Mg+Na	261.07
HCO3/Ca	0.03
dS/m	24.57
Value Table II	1.5
SAR adj	**23.7**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

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ELAP Certification Number: 2385

Cal Am Water Company
Travis Peterson
511 Pacific Lodge Road, Suite 100
Pacific Grove, CA 93950

Thursday, March 06, 2014

Lab Number: **AB12015**

Collection Date/Time:	2/21/2014	13:10	Sample Collector:	REYNOLDS N.	
Submittal Date/Time:	2/21/2014	16:55	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-BIWQ Zone #3 (182-192 ftbgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Alkalinity, Total (as CaCO3)	SM2320B	mg/L	**167**		2		2/24/2014	LRH
Aluminum, Total	EPA200.8	ug/L	**Not Detected**	E	10	1000	2/27/2014	MC LAB
Ammonia-N, Dissolved	SM4500NH3 D	mg/L	**Not Detected**		0.05		2/25/2014	DH
Arsenic, Total	EPA200.8	ug/L	**Not Detected**	E	1	10	2/27/2014	MC LAB
Barium, Dissolved	EPA200.8	ug/L	**Not Detected**	E	10		2/27/2014	MC LAB
Bicarbonate (as HCO3-)	SM2320B	mg/L	**204**		10		2/25/2014	SM
Boron, Dissolved	EPA200.7	mg/L	**1.54**		0.05		2/25/2014	DC
Bromide, Dissolved	EPA300.0	mg/L	**49.6**		0.1		2/21/2014	DC
Calcium	EPA200.7	mg/L	**2090**		0.5		2/25/2014	DC
Calcium, Dissolved	EPA200.7	mg/L	**2018**		0.5		2/25/2014	DC
Carbamates by HPLC (EPA 531)	EPA531	ug/L	**Not Detected**	E			2/26/2014	BSK
Carbonate as CaCO3	SM2320B	mg/L	**Not Detected**		10		2/25/2014	SM
Chloride, Dissolved	EPA300.0	mg/L	**17995**		1		2/21/2014	DC
Chlorinated Pesticides and PCB (EP	EPA508	ug/L	**Not Detected**	E			2/28/2014	WECK
Color, Apparent (Unfiltered)	SM2120B	Color Units	**Not Detected**		3	15	2/23/2014	DH
Copper, Total	EPA200.8	ug/L	**Not Detected**	E	4	1300	2/27/2014	MC LAB
DBCP & EDB	EPA504.1	ug/L	**Not Detected**	E			2/26/2014	BSK
Dioxin	EPA-5 1613B	pg/L	**Not Detected**	E			2/28/2014	CERES
Diquat (EPA 549)	EPA549	ug/L	**Not Detected**	E			2/28/2014	BSK
Dissolved Anions		Meq/L	**567.6**				3/6/2014	DH
Dissolved Cations		Meq/L	**564.9**				3/6/2014	DH
Endothall	EPA548.1	ug/L	**Not Detected**	E			2/26/2014	BSK
Fluoride, Dissolved	EPA300.0	mg/L	**Not Detected**		0.1		2/21/2014	DC
Glyphosate	EPA547	ug/L	**Not Detected**	E			3/1/2014	BSK
Hardness (as CaCO3)	SM2340B	mg/L	**9880**		10		2/26/2014	DH
Hydroxide	SM2320B	mg/L	**Not Detected**		5		2/25/2014	SM
Iodide	EPA9056M	ug/L	**190**	E	10		3/1/2014	WECK
Iron	EPA200.7	ug/L	**1928**		10	300	2/25/2014	DC
Iron, Dissolved	EPA200.7	ug/L	**1780**		10	300	2/25/2014	DC
Kjehldahl Nitrogen, Dissolved	SM4500-NH3 B,	mg/L	**0.3**	J	0.5		2/25/2014	HM
Lithium	EPA200.8	ug/L	**140**	E	1		2/27/2014	MC LAB
Magnesium	EPA200.7	mg/L	**1132**		0.5		2/25/2014	DC
Magnesium, Dissolved	EPA200.7	mg/L	**1078**		1		2/25/2014	DC
Manganese, Dissolved	EPA200.7	ug/L	**361**		10	50	2/25/2014	DC
Manganese, Total	EPA200.7	ug/L	**382**		10	50	2/25/2014	DC
MBAS (Surfactants)	SM5540C	mg/L	**Not Detected**		0.05	0.50	2/23/2014	DH
Nitrate as NO3	EPA300.0	mg/L	**Not Detected**		1	45	2/21/2014	DC
Nitrate+Nitrite as N	EPA300.0	mg/L	**Not Detected**		0.1		2/21/2014	DC
Nitrite as NO2-N, Dissolved	EPA300.0	mg/L	**Not Detected**		0.1		2/21/2014	DC

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

Lab Number: **AB12015**

Appendix G

Collection Date/Time:	2/21/2014	13:10	Sample Collector:	REYNOLDS N.	
Submittal Date/Time:	2/21/2014	16:55	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-BIWQ Zone #3 (182-192 ftbgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Odor Threshold at 60 C	SM2150B	TON	**1**		1	3	2/23/2014	DH
o-Phosphate-P, Dissolved	Hach 8190	mg/L	**0.08**		0.1		2/24/2014	DH
pH (Field Test)	SM4500-H+B	pH	**6.79**				2/21/2014	NR
pH (Laboratory)	SM4500-H+B	pH (H)	**6.9**				2/21/2014	HM
Phenoxy Acid Herbicides (515.3)	EPA515.3	ug/L	**Not Detected**	E			3/4/2014	BSK
Phosphorus, Dissolved	HACH 8190	mg/L	**0.08**		0.03		2/24/2014	DH
Potassium	EPA200.7	mg/L	**36**		0.5		2/25/2014	DC
Potassium, Dissolved	EPA200.7	mg/L	**34**		0.1		2/25/2014	DC
QC Ratio TDS/SEC	Calculation		**0.73**				2/27/2014	SM
Reg. Org. Compounds (EPA 525)	EPA525	ug/L	**Not Detected**	E			2/26/2014	BSK
Silica as SiO2, Dissolved	EPA200.7	mg/L	**25**		0.5		2/25/2014	DC
Sodium	EPA200.7	mg/L	**9146**		0.5		2/25/2014	DC
Sodium, Dissolved	EPA200.7	mg/L	**8612**		0.5		2/25/2014	DC
Specific Conductance (E.C)	SM2510B	umhos/cm	**48770**		1	900	2/26/2014	HM
Specific Conductance (E.C) (Field)	SM2510B	umhos/cm	**47112**		1		2/21/2014	NR
Strontium, Dissolved	EPA200.8	ug/L	**12000**	E	5		2/27/2014	MC LAB
Sulfate	EPA300.0	mg/L	**2688**		1	250	2/21/2014	DC
Temperature (Field)	SM2550	° C	**18.8**				2/21/2014	NR
Total Cations		Meq/L	**596.2**				3/6/2014	DH
Total Diss. Solids	SM2540C	mg/L	**35600**		10	500	2/25/2014	HM
Turbidity	EPA180.1	NTU	**0.70**		0.05	5.0	2/21/2014	LRH
Turbidity (Field)	EPA180.1	NTU	**0.25**		0.05		2/21/2014	NR
Volatile Org. Compounds (524)	EPA524	ug/L	**Not Detected**	E			2/26/2014	BSK
Zinc, Total	EPA200.8	ug/L	**Not Detected**	E	10	5000	2/27/2014	MC LAB

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level

H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12015 Zone #3**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	8612	0.04350	374.62
Potassium	34	0.02558	0.87
Calcium	2018	0.04990	100.70
Magnesium	1078	0.08229	88.71
NH3-N	0	0.07143	0.00
		SUM	564.90

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	167	0.02000	3.34
Sulfate	2688	0.02082	55.96
Chloride	17995	0.02821	507.64
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0	0.07138	0.00
Phosphate-P	0.1	0.01031	0.00
Fluoride	0.0	0.05264	0.00
Bromide	49.6	0.01252	0.62
		SUM	567.56

ANION-CATION BALANCE **0** (% DIFFERENCE)
Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	48770	
Cation Sum X 100	56490	**116%**
Anion Sum X 100	56756	**116%**

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (S	**38.5**
Ca+Mg+Na	564.03
HCO3/Ca	0.03
dS/m	48.77
Value Table II	1.5
SAR adj	**55.8**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

12015 Zone 3

SAMPLE ID **Total**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	9146	0.04350	397.85
Potassium	36	0.02558	0.92
Calcium	2090	0.04990	104.29
Magnesium	1132	0.08229	93.15
NH3-N	0	0.07143	0.00
		SUM	596.22

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	167	0.02000	3.34
Sulfate	2688	0.02082	55.96
Chloride	17995	0.02821	507.64
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0	0.07138	0.00
Phosphate-P	0.1	0.01031	0.00
Fluoride	0.0	0.05264	0.00
Bromide	49.6	0.01252	0.62
		SUM	567.56

ANION-CATION BALANCE: **2** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	48770	
Cation Sum X 100	59622	**122%**
Anion Sum X 100	56756	**116%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**40.0**
Ca+Mg+Na	595.29
HCO3/Ca	0.03
dS/m	48.77
Value Table II	1.5
SAR adj	**57.8**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A4B1813 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/25/2014. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Monterey Bay Analytical	**Invoice To:**	Monterey Bay Analytical
Report To:	David Holland	**Invoice Attn:**	David Holland
Project #:	-	**Project PO#:**	-
Received:	2/25/2014 - 10:00		
Report Due:	3/04/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 1.0

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.

Report Distribution

Recipient(s)	Report Format
David Holland	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1813-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone#3 (182-192 ft bgs) // 12015

Sample Date - Time: 02/21/14 - 13:10
Matrix: Water
Sample Type: Grab

Field Data: Cond.=47000 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A402381	02/25/14	02/26/14	CV0.0
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A402381	02/25/14	02/26/14	CV0.0
Surrogate: 1-Br-2-Nitrobenzene	EPA 504.1	113 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A402617	03/04/14	03/04/14	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A402617	03/04/14	03/04/14	
2,4-D	EPA 515.3	ND	10	ug/L	1	A402617	03/04/14	03/04/14	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A402617	03/04/14	03/04/14	
Dalapon	EPA 515.3	ND	10	ug/L	1	A402617	03/04/14	03/04/14	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A402617	03/04/14	03/04/14	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A402617	03/04/14	03/04/14	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A402617	03/04/14	03/04/14	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A402617	03/04/14	03/04/14	
Surrogate: DCPAA	EPA 515.3	72 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A402390	02/26/14	02/26/14	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A402390	02/26/14	02/26/14	BS1.0
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A402390	02/26/14	02/26/14	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A402390	02/26/14	02/26/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1813-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone#3 (182-192 ft bgs) // 12015

Sample Date - Time: 02/21/14 - 13:10
Matrix: Water
Sample Type: Grab

Field Data: Cond.=47000 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Acetone	EPA 524.2	ND	10	ug/L	1	A402390	02/26/14	02/26/14	BS1.0, CV0.0
Benzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A402390	02/26/14	02/26/14	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	BS1.0, CV0.0
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A402390	02/26/14	02/26/14	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A402390	02/26/14	02/26/14	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1813-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone#3 (182-192 ft bgs) // 12015

Sample Date - Time: 02/21/14 - 13:10
Matrix: Water
Sample Type: Grab

Field Data: Cond.=47000 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A402390	02/26/14	02/26/14	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	98 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	102 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A402368	02/25/14	02/26/14	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A402368	02/25/14	02/26/14	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Bromacil	EPA 525.2	ND	10	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A402368	02/25/14	02/26/14	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A402368	02/25/14	02/26/14	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A402368	02/25/14	02/26/14	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A402368	02/25/14	02/26/14	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	116 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A402388	02/25/14	02/26/14	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A402388	02/25/14	02/26/14	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A402388	02/25/14	02/26/14	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A402388	02/25/14	02/26/14	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A402388	02/25/14	02/26/14	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A402388	02/25/14	02/26/14	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A402388	02/25/14	02/26/14	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A402388	02/25/14	02/26/14	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A402555	03/01/14	03/01/14	
Surrogate: AMPA	EPA 547	104 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A402387	02/25/14	02/26/14	

Certificate of Analysis

Sample ID: A4B1813-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone#3 (182-192 ft bgs) // 12015

Sample Date - Time: 02/21/14 - 13:10
Matrix: Water
Sample Type: Grab

Field Data: Cond.=47000 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A402367	02/25/14	02/28/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A402381										Prepared: 02/25/2014	
Prep Method: EPA 505										Analyst: GAK	
Blank (A402381-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							02/26/14	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.8*			*3.4*		*110*	*70-130*			02/26/14	
Blank Spike (A402381-BS1)											
Dibromochloropropane (DBCP)	0.24	0.010	ug/L	0.20		118	70-130			02/26/14	
Ethylene Dibromide (EDB)	0.23	0.020	ug/L	0.20		113	70-130			02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.6*			*3.4*		*104*	*70-130*			02/26/14	
Blank Spike Dup (A402381-BSD1)											
Dibromochloropropane (DBCP)	0.25	0.010	ug/L	0.20		125	70-130	5	20	02/26/14	
Ethylene Dibromide (EDB)	0.24	0.020	ug/L	0.20		122	70-130	7	20	02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.7*			*3.4*		*109*	*70-130*			02/26/14	
Matrix Spike (A402381-MS1), Source: A4B1641-01											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20	ND	111	65-135			02/26/14	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.20	ND	109	65-135			02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.3*			*3.4*		*99*	*70-130*			02/26/14	
Matrix Spike Dup (A402381-MSD1), Source: A4B1641-01											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20	ND	114	65-135	3	20	02/26/14	
Ethylene Dibromide (EDB)	0.23	0.020	ug/L	0.20	ND	115	65-135	5	20	02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.4*			*3.4*		*101*	*70-130*			02/26/14	
EPA 515.3 - Quality Control											
Batch: A402617										Prepared: 03/04/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A402617-BLK1)											
2,4,5-T	ND	1.0	ug/L							03/04/14	
2,4,5-TP (Silvex)	ND	1.0	ug/L							03/04/14	
2,4-D	ND	10	ug/L							03/04/14	
Bentazon	ND	2.0	ug/L							03/04/14	
Dalapon	ND	10	ug/L							03/04/14	
Dicamba	ND	1.5	ug/L							03/04/14	
Dinoseb	ND	2.0	ug/L							03/04/14	
Pentachlorophenol	ND	0.20	ug/L							03/04/14	
Picloram	ND	1.0	ug/L							03/04/14	
Surrogate: DCPAA	*45*			*58*		*78*	*70-130*			03/04/14	
Blank Spike (A402617-BS1)											
2,4,5-T	3.8	1.0	ug/L	4.0		95	70-130			03/04/14	
2,4,5-TP (Silvex)	0.79	1.0	ug/L	0.80		99	70-130			03/04/14	
2,4-D	0.39	10	ug/L	0.40		97	70-130			03/04/14	
Bentazon	7.6	2.0	ug/L	8.0		95	70-130			03/04/14	
Dalapon	3.1	10	ug/L	4.0		78	70-130			03/04/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A402617										Prepared: 03/04/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike (A402617-BS1)											
Dicamba	5.7	1.5	ug/L	6.0		95	70-130			03/04/14	
Dinoseb	0.77	2.0	ug/L	0.80		97	70-130			03/04/14	
Pentachlorophenol	0.16	0.20	ug/L	0.16		97	70-130			03/04/14	
Picloram	0.32	1.0	ug/L	0.40		80	70-130			03/04/14	
Surrogate: DCPAA	*46*			*58*		*80*	*70-130*			03/04/14	
Blank Spike Dup (A402617-BSD1)											
2,4,5-T	3.9	1.0	ug/L	4.0		97	70-130	1	20	03/04/14	
2,4,5-TP (Silvex)	0.79	1.0	ug/L	0.80		98	70-130	1	20	03/04/14	
2,4-D	0.39	10	ug/L	0.40		97	70-130	1	20	03/04/14	
Bentazon	7.6	2.0	ug/L	8.0		95	70-130	0	20	03/04/14	
Dalapon	3.5	10	ug/L	4.0		87	70-130	10	20	03/04/14	
Dicamba	5.9	1.5	ug/L	6.0		98	70-130	2	20	03/04/14	
Dinoseb	0.76	2.0	ug/L	0.80		96	70-130	1	20	03/04/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16		96	70-130	1	20	03/04/14	
Picloram	0.36	1.0	ug/L	0.40		90	70-130	11	20	03/04/14	
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			03/04/14	
Matrix Spike (A402617-MS1), Source: A4B1813-01											
2,4,5-T	4.1	1.0	ug/L	4.0	ND	103	70-130			03/04/14	
2,4,5-TP (Silvex)	0.83	1.0	ug/L	0.80	ND	104	70-130			03/04/14	
2,4-D	0.40	10	ug/L	0.40	ND	101	70-130			03/04/14	
Bentazon	7.9	2.0	ug/L	8.0	ND	98	70-130			03/04/14	
Dalapon	3.0	10	ug/L	4.0	ND	75	70-130			03/04/14	
Dicamba	6.1	1.5	ug/L	6.0	ND	102	70-130			03/04/14	
Dinoseb	0.78	2.0	ug/L	0.80	ND	98	70-130			03/04/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	96	70-130			03/04/14	
Picloram	0.37	1.0	ug/L	0.40	ND	93	70-130			03/04/14	
Surrogate: DCPAA	*43*			*58*		*74*	*70-130*			03/04/14	
Matrix Spike Dup (A402617-MSD1), Source: A4B1813-01											
2,4,5-T	4.2	1.0	ug/L	4.0	ND	104	70-130	1	20	03/04/14	
2,4,5-TP (Silvex)	0.84	1.0	ug/L	0.80	ND	105	70-130	1	20	03/04/14	
2,4-D	0.40	10	ug/L	0.40	ND	99	70-130	2	20	03/04/14	
Bentazon	8.0	2.0	ug/L	8.0	ND	99	70-130	1	20	03/04/14	
Dalapon	3.3	10	ug/L	4.0	ND	82	70-130	9	20	03/04/14	
Dicamba	6.1	1.5	ug/L	6.0	ND	102	70-130	0	20	03/04/14	
Dinoseb	0.79	2.0	ug/L	0.80	ND	99	70-130	1	20	03/04/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	96	70-130	1	20	03/04/14	
Picloram	0.39	1.0	ug/L	0.40	ND	98	70-130	5	20	03/04/14	
Surrogate: DCPAA	*40*			*58*		*70*	*70-130*			03/04/14	
EPA 524.2 - Quality Control											
Batch: A402390										Prepared: 02/26/2014	
Prep Method: EPA 524.2										Analyst: JGB	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual

EPA 524.2 - Quality Control

Batch: A402390 Prepared: 02/26/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A402390-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							02/26/14	
1,1,1-Trichloroethane	ND	0.50	ug/L							02/26/14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							02/26/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							02/26/14	
1,1,2-Trichloroethane	ND	0.50	ug/L							02/26/14	
1,1-Dichloroethane	ND	0.50	ug/L							02/26/14	
1,1-Dichloroethene	ND	0.50	ug/L							02/26/14	
1,1-Dichloropropene	ND	0.50	ug/L							02/26/14	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							02/26/14	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							02/26/14	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							02/26/14	
1,2-Dichlorobenzene	ND	0.50	ug/L							02/26/14	
1,2-Dichloroethane	ND	0.50	ug/L							02/26/14	
1,2-Dichloropropane	ND	0.50	ug/L							02/26/14	
1,3,5-Trimethylbenzene	ND	0.50	ug/L							02/26/14	
1,3-Dichlorobenzene	ND	0.50	ug/L							02/26/14	
1,3-Dichloropropane	ND	0.50	ug/L							02/26/14	
1,4-Dichlorobenzene	ND	0.50	ug/L							02/26/14	
2,2-Dichloropropane	ND	0.50	ug/L							02/26/14	
2-Butanone	ND	5.0	ug/L							02/26/14	
2-Chlorotoluene	ND	0.50	ug/L							02/26/14	
2-Hexanone	ND	10	ug/L							02/26/14	
4-Chlorotoluene	ND	0.50	ug/L							02/26/14	
4-Methyl-2-pentanone	ND	5.0	ug/L							02/26/14	
Acetone	ND	10	ug/L							02/26/14	
Benzene	ND	0.50	ug/L							02/26/14	
Bromobenzene	ND	0.50	ug/L							02/26/14	
Bromochloromethane	ND	0.50	ug/L							02/26/14	
Bromodichloromethane	ND	0.50	ug/L							02/26/14	
Bromoform	ND	0.50	ug/L							02/26/14	
Bromomethane	ND	0.50	ug/L							02/26/14	
Carbon Tetrachloride	ND	0.50	ug/L							02/26/14	
Chlorobenzene	ND	0.50	ug/L							02/26/14	
Chloroethane	ND	0.50	ug/L							02/26/14	
Chloroform	ND	0.50	ug/L							02/26/14	
Chloromethane	ND	0.50	ug/L							02/26/14	
cis-1,2-Dichloroethene	ND	0.50	ug/L							02/26/14	
cis-1,3-Dichloropropene	ND	0.50	ug/L							02/26/14	
Dibromochloromethane	ND	0.50	ug/L							02/26/14	
Dibromomethane	ND	0.50	ug/L							02/26/14	
Dichlorodifluoromethane	ND	0.50	ug/L							02/26/14	
Dichloromethane	ND	0.50	ug/L							02/26/14	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							02/26/14	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							02/26/14	
Ethylbenzene	ND	0.50	ug/L							02/26/14	
Hexachlorobutadiene	ND	0.50	ug/L							02/26/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402390 Prepared: 02/26/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank (A402390-BLK1)												
Isopropylbenzene	ND	0.50	ug/L							02/26/14		
m,p-Xylenes	ND	0.50	ug/L							02/26/14		
Methyl-t-butyl ether	ND	0.50	ug/L							02/26/14		
Naphthalene	ND	0.50	ug/L							02/26/14		
n-Butylbenzene	ND	0.50	ug/L							02/26/14		
n-Propylbenzene	ND	0.50	ug/L							02/26/14		
o-Xylene	ND	0.50	ug/L							02/26/14		
p-Isopropyltoluene	ND	0.50	ug/L							02/26/14		
sec-Butylbenzene	ND	0.50	ug/L							02/26/14		
Styrene	ND	0.50	ug/L							02/26/14		
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							02/26/14		
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							02/26/14		
tert-Butylbenzene	ND	0.50	ug/L							02/26/14		
Tetrachloroethene (PCE)	ND	0.50	ug/L							02/26/14		
Toluene	ND	0.50	ug/L							02/26/14		
trans-1,2-Dichloroethene	ND	0.50	ug/L							02/26/14		
trans-1,3-Dichloropropene	ND	0.50	ug/L							02/26/14		
Trichloroethene (TCE)	ND	0.50	ug/L							02/26/14		
Trichlorofluoromethane	ND	5.0	ug/L							02/26/14		
Vinyl Chloride	ND	0.50	ug/L							02/26/14		
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*95*	*70-130*			02/26/14		
Surrogate: Bromofluorobenzene	*50*			*50*		*101*	*70-130*			02/26/14		
Blank Spike (A402390-BS1)												
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		108	70-130			02/26/14		
1,1,1-Trichloroethane	11	0.50	ug/L	10		106	70-130			02/26/14		
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		107	70-130			02/26/14		
1,1,2-Trichloro-1,2,2-trifluoroethane	11	10	ug/L	10		106	70-130			02/26/14		
1,1,2-Trichloroethane	11	0.50	ug/L	10		107	70-130			02/26/14		
1,1-Dichloroethane	10	0.50	ug/L	10		105	70-130			02/26/14		
1,1-Dichloroethene	10	0.50	ug/L	10		103	70-130			02/26/14		
1,1-Dichloropropene	11	0.50	ug/L	10		108	70-130			02/26/14		
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		103	70-130			02/26/14		
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
1,2-Dichlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,2-Dichloroethane	10	0.50	ug/L	10		101	70-130			02/26/14		
1,2-Dichloropropane	10	0.50	ug/L	10		105	70-130			02/26/14		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,3-Dichlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,3-Dichloropropane	11	0.50	ug/L	10		108	70-130			02/26/14		
1,4-Dichlorobenzene	11	0.50	ug/L	10		105	70-130			02/26/14		
2,2-Dichloropropane	11	0.50	ug/L	10		108	70-130			02/26/14		
2-Butanone	14	5.0	ug/L	10		139	70-130			02/26/14	BS	***High***
2-Chlorotoluene	10	0.50	ug/L	10		104	70-130			02/26/14		
2-Hexanone	12	10	ug/L	10		115	70-130			02/26/14		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402390 Prepared: 02/26/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A402390-BS1)												
4-Chlorotoluene	11	0.50	ug/L	10		106	70-130			02/26/14		
4-Methyl-2-pentanone	12	5.0	ug/L	10		119	70-130			02/26/14		
Acetone	22	10	ug/L	10		221	70-130			02/26/14	BS	***High***
Benzene	10	0.50	ug/L	10		101	70-130			02/26/14		
Bromobenzene	11	0.50	ug/L	10		107	70-130			02/26/14		
Bromochloromethane	10	0.50	ug/L	10		104	70-130			02/26/14		
Bromodichloromethane	8.5	0.50	ug/L	10		85	70-130			02/26/14		
Bromoform	11	0.50	ug/L	10		115	70-130			02/26/14		
Bromomethane	9.5	0.50	ug/L	10		95	70-130			02/26/14		
Carbon Tetrachloride	11	0.50	ug/L	10		110	70-130			02/26/14		
Chlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
Chloroethane	10	0.50	ug/L	10		100	70-130			02/26/14		
Chloroform	10	0.50	ug/L	10		102	70-130			02/26/14		
Chloromethane	9.6	0.50	ug/L	10		96	70-130			02/26/14		
cis-1,2-Dichloroethene	10	0.50	ug/L	10		104	70-130			02/26/14		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		109	70-130			02/26/14		
Dibromochloromethane	9.8	0.50	ug/L	10		98	70-130			02/26/14		
Dibromomethane	11	0.50	ug/L	10		114	70-130			02/26/14		
Dichlorodifluoromethane	9.9	0.50	ug/L	10		99	70-130			02/26/14		
Dichloromethane	11	0.50	ug/L	10		106	70-130			02/26/14		
Di-isopropyl ether (DIPE)	11	3.0	ug/L	10		107	70-130			02/26/14		
Ethyl tert-Butyl Ether (ETBE)	11	0.50	ug/L	10		111	70-130			02/26/14		
Ethylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
Hexachlorobutadiene	10	0.50	ug/L	10		104	70-130			02/26/14		
Isopropylbenzene	10	0.50	ug/L	10		103	70-130			02/26/14		
m,p-Xylenes	19	0.50	ug/L	20		96	70-130			02/26/14		
Methyl-t-butyl ether	22	0.50	ug/L	20		108	70-130			02/26/14		
Naphthalene	11	0.50	ug/L	10		109	70-130			02/26/14		
n-Butylbenzene	10	0.50	ug/L	10		103	70-130			02/26/14		
n-Propylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
o-Xylene	10	0.50	ug/L	10		104	70-130			02/26/14		
p-Isopropyltoluene	11	0.50	ug/L	10		106	70-130			02/26/14		
sec-Butylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
Styrene	13	0.50	ug/L	10		129	70-130			02/26/14		
tert-Amyl Methyl Ether (TAME)	11	3.0	ug/L	10		111	70-130			02/26/14		
tert-Butyl alcohol (TBA)	11	2.0	ug/L	10		107	70-130			02/26/14		
tert-Butylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
Tetrachloroethene (PCE)	10	0.50	ug/L	10		104	70-130			02/26/14		
Toluene	11	0.50	ug/L	10		106	70-130			02/26/14		
trans-1,2-Dichloroethene	10	0.50	ug/L	10		105	70-130			02/26/14		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		109	70-130			02/26/14		
Trichloroethene (TCE)	9.4	0.50	ug/L	10		94	70-130			02/26/14		
Trichlorofluoromethane	11	5.0	ug/L	10		107	70-130			02/26/14		
Vinyl Chloride	9.9	0.50	ug/L	10		99	70-130			02/26/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*100*	*70-130*			02/26/14		
Surrogate: Bromofluorobenzene	*50*			*50*		*100*	*70-130*			02/26/14		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402390 Prepared: 02/26/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A402390-BSD1)												
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		109	70-130	1	30	02/26/14		
1,1,1-Trichloroethane	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		109	70-130	2	30	02/26/14		
1,1,2-Trichloro-1,2,2-trifluoroethane	11	10	ug/L	10		110	70-130	3	30	02/26/14		
1,1,2-Trichloroethane	11	0.50	ug/L	10		108	70-130	2	30	02/26/14		
1,1-Dichloroethane	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
1,1-Dichloroethene	11	0.50	ug/L	10		108	70-130	5	30	02/26/14		
1,1-Dichloropropene	11	0.50	ug/L	10		110	70-130	1	30	02/26/14		
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		105	70-130	2	30	02/26/14		
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		108	70-130	2	30	02/26/14		
1,2,4-Trimethylbenzene	11	0.50	ug/L	10		110	70-130	6	30	02/26/14		
1,2-Dichlorobenzene	11	0.50	ug/L	10		106	70-130	0	30	02/26/14		
1,2-Dichloroethane	11	0.50	ug/L	10		107	70-130	6	30	02/26/14		
1,2-Dichloropropane	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		111	70-130	5	30	02/26/14		
1,3-Dichlorobenzene	11	0.50	ug/L	10		107	70-130	1	30	02/26/14		
1,3-Dichloropropane	11	0.50	ug/L	10		109	70-130	1	30	02/26/14		
1,4-Dichlorobenzene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
2,2-Dichloropropane	11	0.50	ug/L	10		112	70-130	4	30	02/26/14		
2-Butanone	14	5.0	ug/L	10		139	70-130	0	30	02/26/14	BS	***High***
2-Chlorotoluene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
2-Hexanone	12	10	ug/L	10		115	70-130	0	30	02/26/14		
4-Chlorotoluene	11	0.50	ug/L	10		110	70-130	4	30	02/26/14		
4-Methyl-2-pentanone	11	5.0	ug/L	10		114	70-130	4	30	02/26/14		
Acetone	22	10	ug/L	10		221	70-130	0	30	02/26/14	BS	***High***
Benzene	10	0.50	ug/L	10		104	70-130	3	30	02/26/14		
Bromobenzene	11	0.50	ug/L	10		109	70-130	2	30	02/26/14		
Bromochloromethane	10	0.50	ug/L	10		104	70-130	0	30	02/26/14		
Bromodichloromethane	9.8	0.50	ug/L	10		98	70-130	14	30	02/26/14		
Bromoform	11	0.50	ug/L	10		115	70-130	0	30	02/26/14		
Bromomethane	9.4	0.50	ug/L	10		94	70-130	1	30	02/26/14		
Carbon Tetrachloride	11	0.50	ug/L	10		108	70-130	2	30	02/26/14		
Chlorobenzene	11	0.50	ug/L	10		110	70-130	3	30	02/26/14		
Chloroethane	10	0.50	ug/L	10		100	70-130	0	30	02/26/14		
Chloroform	11	0.50	ug/L	10		105	70-130	3	30	02/26/14		
Chloromethane	9.1	0.50	ug/L	10		91	70-130	6	30	02/26/14		
cis-1,2-Dichloroethene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		112	70-130	2	30	02/26/14		
Dibromochloromethane	9.8	0.50	ug/L	10		98	70-130	0	30	02/26/14		
Dibromomethane	10	0.50	ug/L	10		101	70-130	12	30	02/26/14		
Dichlorodifluoromethane	10	0.50	ug/L	10		104	70-130	5	30	02/26/14		
Dichloromethane	11	0.50	ug/L	10		108	70-130	1	30	02/26/14		
Di-isopropyl ether (DIPE)	11	3.0	ug/L	10		110	70-130	2	30	02/26/14		
Ethyl tert-Butyl Ether (ETBE)	11	0.50	ug/L	10		112	70-130	1	30	02/26/14		
Ethylbenzene	11	0.50	ug/L	10		108	70-130	4	30	02/26/14		
Hexachlorobutadiene	11	0.50	ug/L	10		108	70-130	4	30	02/26/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 524.2 - Quality Control												
Batch: A402390										Prepared: 02/26/2014		
Prep Method: EPA 524.2										Analyst: JGB		
Blank Spike Dup (A402390-BSD1)												
Isopropylbenzene	11	0.50	ug/L	10		107	70-130	4	30	02/26/14		
m,p-Xylenes	20	0.50	ug/L	20		99	70-130	4	30	02/26/14		
Methyl-t-butyl ether	22	0.50	ug/L	20		109	70-130	1	30	02/26/14		
Naphthalene	11	0.50	ug/L	10		111	70-130	2	30	02/26/14		
n-Butylbenzene	11	0.50	ug/L	10		107	70-130	4	30	02/26/14		
n-Propylbenzene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
o-Xylene	11	0.50	ug/L	10		106	70-130	2	30	02/26/14		
p-Isopropyltoluene	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
sec-Butylbenzene	11	0.50	ug/L	10		107	70-130	3	30	02/26/14		
Styrene	14	0.50	ug/L	10		140	70-130	9	30	02/26/14	BS	***High***
tert-Amyl Methyl Ether (TAME)	11	3.0	ug/L	10		115	70-130	4	30	02/26/14		
tert-Butyl alcohol (TBA)	10	2.0	ug/L	10		105	70-130	2	30	02/26/14		
tert-Butylbenzene	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
Tetrachloroethene (PCE)	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
Toluene	11	0.50	ug/L	10		110	70-130	4	30	02/26/14		
trans-1,2-Dichloroethene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		112	70-130	2	30	02/26/14		
Trichloroethene (TCE)	11	0.50	ug/L	10		108	70-130	14	30	02/26/14		
Trichlorofluoromethane	11	5.0	ug/L	10		109	70-130	2	30	02/26/14		
Vinyl Chloride	10	0.50	ug/L	10		104	70-130	4	30	02/26/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*100*	*70-130*			02/26/14		
Surrogate: Bromofluorobenzene	*50*			*50*		*101*	*70-130*			02/26/14		
EPA 525.2 - Quality Control												
Batch: A402368										Prepared: 02/25/2014		
Prep Method: EPA 525.2										Analyst: KHH		
Blank (A402368-BLK1)												
Alachlor	ND	1.0	ug/L							02/26/14		
Atrazine	ND	0.50	ug/L							02/26/14		
Benzo(a)pyrene	ND	0.10	ug/L							02/26/14		
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							02/26/14		
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							02/26/14		
Bromacil	ND	10	ug/L							02/26/14		
Butachlor	ND	0.38	ug/L							02/26/14		
Diazinon	ND	0.25	ug/L							02/26/14		
Dimethoate	ND	10	ug/L							02/26/14		
Metolachlor	ND	0.50	ug/L							02/26/14		
Metribuzin	ND	0.50	ug/L							02/26/14		
Molinate	ND	2.0	ug/L							02/26/14		
Propachlor	ND	0.50	ug/L							02/26/14		
Simazine	ND	1.0	ug/L							02/26/14		
Thiobencarb	ND	1.0	ug/L							02/26/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*6.0*			*5.0*		*119*	*70-130*			02/26/14		
Blank Spike (A402368-BS1)												

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 525.2 - Quality Control												
Batch: A402368										Prepared: 02/25/2014		
Prep Method: EPA 525.2										Analyst: KHH		
Blank Spike (A402368-BS1)												
Alachlor	0.60	1.0	ug/L	0.50		119	70-130			02/26/14		
Atrazine	0.55	0.50	ug/L	0.50		111	70-130			02/26/14		
Benzo(a)pyrene	0.12	0.10	ug/L	0.10		119	70-130			02/26/14		
Bis(2-ethylhexyl) adipate	3.6	3.0	ug/L	3.0		120	70-130			02/26/14		
Bis(2-ethylhexyl) phthalate	4.3	3.0	ug/L	3.0		142	70-130			02/26/14	BS	***High***
Bromacil	2.6	10	ug/L	2.0		132	70-130			02/26/14	BS	***High***
Butachlor	1.4	0.38	ug/L	1.2		110	70-130			02/26/14		
Diazinon	0.038	0.25	ug/L	0.050		76	70-130			02/26/14		
Dimethoate	0.35	10	ug/L	0.50		71	70-130			02/26/14		
Metolachlor	3.3	0.50	ug/L	2.5		131	70-130			02/26/14	BS	***High***
Metribuzin	3.0	0.50	ug/L	2.5		120	70-130			02/26/14		
Molinate	2.9	2.0	ug/L	2.5		117	70-130			02/26/14		
Propachlor	2.9	0.50	ug/L	2.5		117	70-130			02/26/14		
Simazine	0.40	1.0	ug/L	0.35		116	70-130			02/26/14		
Thiobencarb	0.59	1.0	ug/L	0.50		119	70-130			02/26/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.5*			*5.0*		*109*	*70-130*			02/26/14		
Blank Spike Dup (A402368-BSD1)												
Alachlor	0.58	1.0	ug/L	0.49		118	70-130	3	30	02/26/14		
Atrazine	0.53	0.50	ug/L	0.49		107	70-130	5	30	02/26/14		
Benzo(a)pyrene	0.11	0.10	ug/L	0.098		116	70-130	4	30	02/26/14		
Bis(2-ethylhexyl) adipate	3.6	3.0	ug/L	2.9		122	70-130	0	30	02/26/14		
Bis(2-ethylhexyl) phthalate	4.1	3.0	ug/L	2.9		140	70-130	3	30	02/26/14	BS	***High***
Bromacil	2.6	10	ug/L	2.0		132	70-130	2	30	02/26/14	BS	***High***
Butachlor	1.4	0.38	ug/L	1.2		111	70-130	1	30	02/26/14		
Diazinon	0.040	0.25	ug/L	0.049		82	70-130	6	30	02/26/14		
Dimethoate	0.34	10	ug/L	0.49		70	70-130	3	30	02/26/14		
Metolachlor	3.2	0.50	ug/L	2.5		132	70-130	1	30	02/26/14	BS	***High***
Metribuzin	3.0	0.50	ug/L	2.5		121	70-130	1	30	02/26/14		
Molinate	2.7	2.0	ug/L	2.5		109	70-130	9	30	02/26/14		
Propachlor	2.7	0.50	ug/L	2.5		109	70-130	8	30	02/26/14		
Simazine	0.37	1.0	ug/L	0.34		108	70-130	9	30	02/26/14		
Thiobencarb	0.57	1.0	ug/L	0.49		116	70-130	3	30	02/26/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*4.9*		*101*	*70-130*			02/26/14		
Matrix Spike (A402368-MS1), Source: A4B1490-02												
Alachlor	0.54	1.0	ug/L	0.49	ND	110	70-130			02/26/14		
Atrazine	0.52	0.50	ug/L	0.49	ND	105	70-130			02/26/14		
Benzo(a)pyrene	0.13	0.10	ug/L	0.099	ND	134	70-130			02/26/14	MS1.0	***High***
Bis(2-ethylhexyl) adipate	3.7	3.0	ug/L	3.0	ND	124	70-130			02/26/14		
Bis(2-ethylhexyl) phthalate	4.4	3.0	ug/L	3.0	ND	129	70-130			02/26/14		
Bromacil	2.5	10	ug/L	2.0	ND	126	70-130			02/26/14		
Butachlor	1.3	0.38	ug/L	1.2	ND	106	70-130			02/26/14		
Diazinon	0.056	0.25	ug/L	0.049	ND	114	70-130			02/26/14		
Dimethoate	0.32	10	ug/L	0.49	ND	64	70-130			02/26/14	MS1.0	***Low***
Metolachlor	2.9	0.50	ug/L	2.5	ND	119	70-130			02/26/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A402368										Prepared: 02/25/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Matrix Spike (A402368-MS1), Source: A4B1490-02											
Metribuzin	2.6	0.50	ug/L	2.5	ND	104	70-130			02/26/14	
Molinate	2.7	2.0	ug/L	2.5	ND	110	70-130			02/26/14	
Propachlor	2.6	0.50	ug/L	2.5	ND	107	70-130			02/26/14	
Simazine	0.38	1.0	ug/L	0.35	ND	109	70-130			02/26/14	
Thiobencarb	0.57	1.0	ug/L	0.49	ND	116	70-130			02/26/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.2*			*4.9*		*106*	*70-130*			02/26/14	
EPA 531.1 - Quality Control											
Batch: A402388										Prepared: 02/25/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A402388-BLK1)											
3-Hydroxycarbofuran	ND	2.0	ug/L							02/25/14	
Aldicarb	ND	2.0	ug/L							02/25/14	
Aldicarb Sulfone	ND	2.0	ug/L							02/25/14	
Aldicarb Sulfoxide	ND	2.0	ug/L							02/25/14	
Carbaryl	ND	2.0	ug/L							02/25/14	
Carbofuran	ND	2.0	ug/L							02/25/14	
Methomyl	ND	2.0	ug/L							02/25/14	
Oxamyl	ND	2.0	ug/L							02/25/14	
Blank Spike (A402388-BS1)											
3-Hydroxycarbofuran	4.2	2.0	ug/L	4.0		105	80-120			02/25/14	
Aldicarb	4.1	2.0	ug/L	4.0		103	80-120			02/25/14	
Aldicarb Sulfone	4.1	2.0	ug/L	4.0		103	80-120			02/25/14	
Aldicarb Sulfoxide	4.1	2.0	ug/L	4.0		104	80-120			02/25/14	
Carbaryl	4.2	2.0	ug/L	4.0		104	80-120			02/25/14	
Carbofuran	4.1	2.0	ug/L	4.0		102	80-120			02/25/14	
Methomyl	4.1	2.0	ug/L	4.0		103	80-120			02/25/14	
Oxamyl	4.1	2.0	ug/L	4.0		102	80-120			02/25/14	
Blank Spike Dup (A402388-BSD1)											
3-Hydroxycarbofuran	4.1	2.0	ug/L	4.0		103	80-120	1	20	02/26/14	
Aldicarb	4.1	2.0	ug/L	4.0		102	80-120	1	20	02/26/14	
Aldicarb Sulfone	4.2	2.0	ug/L	4.0		106	80-120	3	20	02/26/14	
Aldicarb Sulfoxide	4.2	2.0	ug/L	4.0		105	80-120	1	20	02/26/14	
Carbaryl	4.1	2.0	ug/L	4.0		101	80-120	3	20	02/26/14	
Carbofuran	4.1	2.0	ug/L	4.0		103	80-120	2	20	02/26/14	
Methomyl	4.3	2.0	ug/L	4.0		109	80-120	5	20	02/26/14	
Oxamyl	4.2	2.0	ug/L	4.0		104	80-120	2	20	02/26/14	
Matrix Spike (A402388-MS1), Source: A4B1177-01											
3-Hydroxycarbofuran	3.3	2.0	ug/L	4.0	ND	82	65-135			02/26/14	
Aldicarb	3.1	2.0	ug/L	4.0	ND	72	65-135			02/26/14	
Aldicarb Sulfone	3.5	2.0	ug/L	4.0	ND	79	65-135			02/26/14	
Aldicarb Sulfoxide	3.5	2.0	ug/L	4.0	ND	87	65-135			02/26/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A402388										Prepared: 02/25/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Matrix Spike (A402388-MS1), Source: A4B1177-01											
Carbaryl	10	2.0	ug/L	4.0	8.8	31	65-135			02/26/14	MS1.0 ***Low***
Carbofuran	3.3	2.0	ug/L	4.0	ND	83	65-135			02/26/14	
Methomyl	3.5	2.0	ug/L	4.0	ND	87	65-135			02/26/14	
Oxamyl	3.3	2.0	ug/L	4.0	ND	84	65-135			02/26/14	
EPA 547 - Quality Control											
Batch: A402555										Prepared: 03/01/2014	
Prep Method: EPA 547										Analyst: RJB	
Blank (A402555-BLK1)											
Glyphosate	ND	25	ug/L							03/01/14	
Surrogate: AMPA	*95*			*100*		*95*	*70-130*			03/01/14	
Blank Spike (A402555-BS1)											
Glyphosate	100	25	ug/L	100		103	70-130			03/01/14	
Surrogate: AMPA	*100*			*100*		*102*	*70-130*			03/01/14	
Blank Spike Dup (A402555-BSD1)											
Glyphosate	120	25	ug/L	100		116	70-130	12	30	03/01/14	
Surrogate: AMPA	*97*			*100*		*97*	*70-130*			03/01/14	
Matrix Spike (A402555-MS1), Source: A4B1780-01											
Glyphosate	97	25	ug/L	100	ND	95	70-130			03/01/14	
Surrogate: AMPA	*89*			*100*		*87*	*70-130*			03/01/14	
Matrix Spike Dup (A402555-MSD1), Source: A4B1780-01											
Glyphosate	93	25	ug/L	100	ND	91	70-130	4	30	03/01/14	
Surrogate: AMPA	*86*			*100*		*84*	*70-130*			03/01/14	
EPA 548.1 - Quality Control											
Batch: A402387										Prepared: 02/25/2014	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A402387-BLK1)											
Endothall	ND	45	ug/L							02/26/14	
Blank Spike (A402387-BS1)											
Endothall	17	45	ug/L	20		83	60-111			02/26/14	
Blank Spike Dup (A402387-BSD1)											
Endothall	15	45	ug/L	20		73	60-111	13	46	02/26/14	
Matrix Spike (A402387-MS1), Source: A4B1489-04											
Endothall	4.3	45	ug/L	20	ND	22	10-122			02/26/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 549.2 - Quality Control											
Batch: A402367										Prepared: 02/25/2014	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A402367-BLK1)											
Diquat	ND	4.0	ug/L							02/28/14	
Blank Spike (A402367-BS1)											
Diquat	3.0	4.0	ug/L	4.0		76	70-130			02/28/14	
Blank Spike Dup (A402367-BSD1)											
Diquat	2.9	4.0	ug/L	4.0		72	70-130	6	30	02/28/14	
Matrix Spike (A402367-MS1), Source: A4B1780-01											
Diquat	2.2	4.0	ug/L	4.0	ND	54	70-130			02/28/14	MS1.0 ***Low***

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of Oregon - NELAP	4021	State of Washington	C997
State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA

BSK is not accredited under the NELAC program for the following parameters:

A4B1813

Monterey Bay Analytical

Monte6227 **02252014**

Turnaround: Standard
Due Date: 03/04/2014

Printed: 02/25/2014 12:06:21
Page 1 of 1

Appendix G

A4B1813 02/25/2014

Monte6227 5

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street, Fresno, CA 93706-1623
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

* Required Fields

TEMP: 1.0

Client/Company Name *:	Report Attention *:	Phone * #: (831)-357-6227 FAX * #: (831)-641-0734
Monterey Bay Analytical	David Holland	E-mail: 4MBAS@Sbcglobal.net

Address *: 4 Justin Ct. City *: Monterey State *: CA Zip *: 93940

Project Information: Cal Am

PO #

Quote # 464

How would you like your completed results sent? ✓ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: Nathan Reynolds

QC Request: ✓ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ✓ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ✓ System No. *

ANALYSIS REQUESTED

Matrix Types: RSW = Raw Surface Water; CFW = Clorinated Finished Water; CWW = Chorinated Waste Water; BW = Bottled Water; RGW = Raw Ground Water; FW = Finished Water; WW = Waste Water; SW = Storm Water; DW = Drinking Water; SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 504	EPA 515	EPA 524 inc MTBE	EPA 525	EPA 531	EPA 547	EPA 548	EPA 549	
1		2/21	13:10	CX-BIWQ Zone #3 (182-192 ft bgs)	RGW	12015	✓	✓	✓	✓	✓	✓	✓	✓	
				5 day TAT please											
				Conductivity 47,000 uS/cm											

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
David Holland	MBAS	2/24	1600		
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Received for Lab by: (Signature and Printed Name)		Date 2/25/14	Time 1000	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material: BN

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/re-billing charges and interest calculated at 1 1/2 % per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorneys' fees incurred prior to or in litigation whether concluded by judgement, settlement, compromise or otherwise. The person signing for the client/Company expressley acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis requested, either type or quantities, will be noted and agreed upon this Chain of Custody. The turn around time for any samples received after 3:00 pm will begin the next business day.

SR-FL-0012-00 (Analytical)

BSK Associates SR-FL-0002-09

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA	
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA	
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No	
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No	
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA	

Bottles Received — "—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—	1					
None (P) White Cap	—	—						
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—						
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—						
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2C, 3A					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	7V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2 BTEX Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

NA

2/25/14

Split	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: @ 1124 Labels checked by: @ 1151 RUSH Paged by:

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

March 3, 2014 Ceres ID: 10265

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on February 25, 2014. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613. Rush 5 day turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # 12015.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (888)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
10265-001	CX-B1WQ Zone #3 (182-192ft bags)	2/25/2014	2/21/2014	13:10

Section II: Data Summary

Sample ID:	**Method Blank**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-MB001 — Date Received: NA
Project:	12015	Sample Size: 1.000 L	QC Batch #: 1158 — Date Extracted: 28-Feb-14
Date Collected:	NA		ZB-5 MS Analysis Date: 1-Mar-14
Time Collected:	NA		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	2.15		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	103	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	109	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Sample ID:	**Ongoing Precision and Recovery**		
Client Data	**Sample Data**	**Laboratory Data**	
Name: Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-OPR001	Date Received: NA
Project: 12015	Sample Size: 1.000 L	QC Batch #: 1158	Date Extracted: 28-Feb-14
Date Collected: NA		ZB-5 MS Analysis Date: 1-Mar-14	
Time Collected: NA			

Analyte	Conc. (ng/ml)	Limits [a]	Qualifiers
2,3,7,8-TCDD	9.90	7.3-14.6	

	Labeled Standards	Conc.	Limits [a]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	98.3	25-141	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	10.1	3.7-15.8	

a. Method acceptance criteria .

Analyst: JMH

Reviewed by: BS

Sample ID:	**CX-B1WQ Zone #3 (182-192ft bags)**		
Client Data	**Sample Data**	**Laboratory Data**	
Name: Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 10265-001	Date Received: 25-Feb-14
Project: 12015	Sample Size: 1.058 L	QC Batch #: 1158	Date Extracted: 28-Feb-14
Date Collected: 21-Feb-14		ZB-5 MS Analysis Date: 1-Mar-14	
Time Collected: 13:10			

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	2.44		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	89.8	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	91.3	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Ceres Project ID: 10265
Temperature: 1.4 °C

Page Appendix G of

Reports and invoices will be delivered by email in .pdf format

Client Information	Invoice Information(if different from Client Info)	Project Information
Company Name: Monterey Bay Analytical	Company Name: Same	Ceres Quote #:
Contact Name: David Holland	Contact Name:	P.O. #
Address: 4 Justin Court Ste D Monterey CA 93940	Address:	Project ID:
Ph: 831-375-6227	Ph: Fx:	**TAT** (business days)
Email: montereybayanalytical@usa.net	Email:	Std 15 days; Rush TAT available please call

Matrix abreviations:

A: Aqueous	S: Soil	AS: Ash	DW: Drinking Water
E: Effluent	SD: Sediment	C: Clay	SO: Solid
I: Influent	SL: Sludge	CS: Clay Slurry	O: Other (please comment)

TEF: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Sample Collection Date	Time	Matrix	# of containers	EPA 1613	EPA 8290	NCASI 551	EPA 8280	EPA 613	Other	Comments
1	CX-B1WQ Zone #3 (182-192ft bags)	2/21/2014	13:10	Aq	2	X						12015
2												(2,3,7,8 TCDD only)
3												5 day Rush Please
4												
5												
6												
7												
8												
9												
10												
11												
12												

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

Relinquished by: *(Signature and Printed Name)*	Date	Time	Received by: *(signature and Printed Name)*	Date	Time
David Holland	2/24/2014	16:00	Jim Hedin	2/25/14	10:55

Client understands that all terms desribed in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.

Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

Ceres ID: 10265	Date/Time: 2/25/14 10:55
Client Project ID: 12015	Received Temperature: 1.4°C Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present? no Residual Cl	Y / N / NA
List COC discrepancies:	
List Damaged Samples:	

2/25/14

2/25/14

Ceres Analytical Laboratory

Process Request

Ceres ID: 10265 PB: 1158 Sample #s: 1 Due Date: 3/3/14

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash

Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (check one):

- ☐ 1613 2,3,7,8-TCDD
- ☐ 1613 2,3,7,8-TCDD/F
- ☐ 1613 Cl_4-Cl_8
- ☐ 8280 2,3,7,8-TCDD
- ☐ 8280 2,3,7,8-TCDD/F
- ☐ 8280 Appendix IX
- ☐ 8280 Cl_4-Cl_8
- ☐ 8290 2,3,7,8-TCDD
- ☐ 8290 2,3,7,8-TCDD/F
- ☐ 8290 Cl_4-Cl_8
- ☐ NCASI 551

Instructions:

Sample Volume Calculation

Instructions:
1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$Sample\ Volume = (Sample + Bottle\ Wt) - Empty\ Bottle\ Wt.$$

Ceres ID	Sample +Bottle Wt.	Empty Bottle Wt.	Sample Volume
10265-1	1568.37	506.44	1.062L

Chemist: _____ Date: 2/28/14

Method: 1613
SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Appendix G

Ceres ID	Client ID	Ver.	wt/vol	ISS/PAR chem/date/witness	CSS chem/date/witness	AP	AB/AC	FC	RSS chem/date/witness
0-1158-MB001	Method Blank		1.000 L	2/28/14	3/1/14	NA	3/1/14	NA	3/1/14
0-1158-OPR001	OPR		1.000L	(A)					
10265-1158-001	CX-B1WQ Zone #3	✓	1.062L						

Comments: (A) Spiked w/ NSS

Soxhlet Start: 14:30 2/28/14

Soxhlet Stop: 06:33 3/1/14

Samples Logged out by: 2/28/14 11:00

Samples Returned by: NA

Note samples Depleted: NA

Sample Extracts Storage Location: Box 8

Extracts to Intrument: 11:00 3/1/14

Extracts returned to Storage Location: 08:00 3/3/14

Form M1.0 rev4

Chemist: G-149

Effective Date: 7/12/13

Method: 1613
SOP #: 201.1

Ceres Analytical Laboratory
Sample Prep Bench Sheet

Standard	Standard ID	Vol.	Expiration Date
ISS	S031212A	10ml	3/12/14
NSS	S031212B	10ml	3/12/14
CSS	S031212C	10ml	3/12/14
RSS	S031212D	20ml	3/12/17

Solvents/Solutions/Packing Materials

Name	Amount	Lot #	Exp. Date
Toluene	450ml	PB005A0TOL	8/17/14
Hexane	30,30,100,20	136735	6/10/14
Sigel	4g	P022514A	8/5/14
Basic Gel	4g	P012014A	7/20/14
Acid Gel	8g	P012014B	7/20/14
Acid Al	6g	P020414A	8/4/14
Na_2SO_4	1.5g	P120413A	6/4/14
20% DCM/Hex	30ml	L021914A	8/19/14

Chemist : G-150

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

CERTIFICATE OF ANALYSIS

Client:	Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940	**Report Date:**	03/04/14 21:16
		Received Date:	02/25/14 09:40
		Turn Around:	5 workdays
Attention:	David Holland	**Client Project:**	Cal Am
Phone:	(831) 375-6227		
Fax:	(831) 641-0734		
Work Order(s):	4B25018		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

Enclosed are the results of analyses for samples received 02/25/14 09:40 with the Chain of Custody document. The samples were received in good condition, at 4.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CX-B1WQ Zone #3 (182-192 ft bgs)	Nathan Reynolds	12015	4B25018-01	Water	02/21/14 13:10

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Chlorinated Pesticides and/or PCBs

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:16

4B25018-01 **CX-B1WQ Zone #3 (182-192 ft bgs)**

Sampled: 02/21/14 13:10 **Sampled By:** Nathan Reynolds **Matrix:** Water

Sample Note: 12015

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 9056A Batch: W4C0014 Prepared: 03/01/14 11:00 Analyst: atl

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Iodide	**190**	21	500	ug/l	50	03/01/14 18:00	M-05, J

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4B1139 Prepared: 02/26/14 08:25 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND		0.010	ug/l	1	02/28/14 21:46	
4,4´-DDE	ND		0.010	ug/l	1	02/28/14 21:46	
4,4´-DDT	ND		0.010	ug/l	1	02/28/14 21:46	
Aldrin	ND		0.010	ug/l	1	02/28/14 21:46	
alpha-BHC	ND		0.010	ug/l	1	02/28/14 21:46	
Aroclor 1016	ND		0.10	ug/l	1	02/28/14 21:46	
Aroclor 1221	ND		0.10	ug/l	1	02/28/14 21:46	
Aroclor 1232	ND		0.10	ug/l	1	02/28/14 21:46	
Aroclor 1242	ND		0.10	ug/l	1	02/28/14 21:46	
Aroclor 1248	ND		0.10	ug/l	1	02/28/14 21:46	
Aroclor 1254	ND		0.10	ug/l	1	02/28/14 21:46	
Aroclor 1260	ND		0.10	ug/l	1	02/28/14 21:46	
beta-BHC	ND		0.010	ug/l	1	02/28/14 21:46	
Chlordane (tech)	ND		0.10	ug/l	1	02/28/14 21:46	
Chlorothalonil	ND		0.050	ug/l	1	02/28/14 21:46	
delta-BHC	ND		0.010	ug/l	1	02/28/14 21:46	
Dieldrin	ND		0.010	ug/l	1	02/28/14 21:46	
Endosulfan I	ND		0.010	ug/l	1	02/28/14 21:46	
Endosulfan II	ND		0.010	ug/l	1	02/28/14 21:46	
Endosulfan sulfate	ND		0.010	ug/l	1	02/28/14 21:46	
Endrin	ND		0.010	ug/l	1	02/28/14 21:46	
Endrin aldehyde	ND		0.010	ug/l	1	02/28/14 21:46	
gamma-BHC (Lindane)	ND		0.010	ug/l	1	02/28/14 21:46	
Heptachlor	ND		0.010	ug/l	1	02/28/14 21:46	
Heptachlor epoxide	ND		0.010	ug/l	1	02/28/14 21:46	
Hexachlorobenzene	ND		0.010	ug/l	1	02/28/14 21:46	
Hexachlorocyclopentadiene	ND		0.050	ug/l	1	02/28/14 21:46	
Methoxychlor	ND		0.010	ug/l	1	02/28/14 21:46	
PCBs, Total	ND		0.50	ug/l	1	02/28/14 21:46	
Propachlor	ND		0.050	ug/l	1	02/28/14 21:46	
Toxaphene	ND		1.0	ug/l	1	02/28/14 21:46	
Trifluralin	ND		0.010	ug/l	1	02/28/14 21:46	
Surr: Decachlorobiphenyl	*16 %*	Conc:*0.0149*	*70-130*	%			*S-GC*
Surr: Tetrachloro-meta-xylene	*79 %*	Conc:*0.0753*	*70-130*	%			

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WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:16

4B25018-01 **CX-B1WQ Zone #3 (182-192 ft bgs)**

Sampled: 02/21/14 13:10 **Sampled By:** Nathan Reynolds **Matrix:** Water

Sample Note: 12015

Chlorinated Pesticides and/or PCBs

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:16

QUALITY CONTROL SECTION

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:16

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4C0014 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0014-BLK1)				Analyzed: 03/01/14 18:00						
Iodide	ND	10	ug/l							
LCS (W4C0014-BS1)				Analyzed: 03/01/14 18:00						
Iodide	45.0	10	ug/l	40.0		113	85-115			
Matrix Spike (W4C0014-MS1)	**Source: 4B25020-01**			Analyzed: 03/01/14 18:00						
Iodide	836	250	ug/l	1000	161	68	80-120			MS-01
Matrix Spike Dup (W4C0014-MSD1)	**Source: 4B25020-01**			Analyzed: 03/01/14 18:00						
Iodide	984	250	ug/l	1000	161	82	80-120	16	20	

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B1139 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B1139-BLK1)				Analyzed: 02/28/14 16:10						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							

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WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:16

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B1139 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B1139-BLK1)				Analyzed: 02/28/14 16:10						
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							
Surr: Decachlorobiphenyl	*0.0947*		*ug/l*	*0.100*		*95*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0904*		*ug/l*	*0.100*		*90*	*70-130*			
LCS (W4B1139-BS1)				Analyzed: 02/28/14 17:42						
4,4´-DDD	0.0801	0.010	ug/l	0.100		80	55-142			
4,4´-DDE	0.0848	0.010	ug/l	0.100		85	49-129			
4,4´-DDT	0.0979	0.010	ug/l	0.100		98	54-160			
Aldrin	0.0759	0.010	ug/l	0.100		76	29-115			
alpha-BHC	0.0802	0.010	ug/l	0.100		80	59-131			
beta-BHC	0.0789	0.010	ug/l	0.100		79	63-136			
delta-BHC	0.0881	0.010	ug/l	0.100		88	59-137			
Dieldrin	0.0832	0.010	ug/l	0.100		83	59-135			
Endosulfan I	0.0689	0.010	ug/l	0.100		69	28-138			
Endosulfan II	0.0754	0.010	ug/l	0.100		75	53-133			
Endosulfan sulfate	0.0877	0.010	ug/l	0.100		88	58-155			
Endrin	0.0585	0.010	ug/l	0.100		59	57-148			
Endrin aldehyde	0.0597	0.010	ug/l	0.100		60	45-139			
gamma-BHC (Lindane)	0.0802	0.010	ug/l	0.100		80	59-129			
Heptachlor	0.0817	0.010	ug/l	0.100		82	42-136			
Heptachlor epoxide	0.0809	0.010	ug/l	0.100		81	59-134			
Methoxychlor	0.0870	0.010	ug/l	0.100		87	56-167			
Surr: Decachlorobiphenyl	*0.0903*		*ug/l*	*0.100*		*90*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0827*		*ug/l*	*0.100*		*83*	*70-130*			
LCS Dup (W4B1139-BSD1)				Analyzed: 02/28/14 17:11						
4,4´-DDD	0.0789	0.010	ug/l	0.100		79	55-142	2	25	
4,4´-DDE	0.0850	0.010	ug/l	0.100		85	49-129	0.2	25	
4,4´-DDT	0.0947	0.010	ug/l	0.100		95	54-160	3	25	
Aldrin	0.0777	0.010	ug/l	0.100		78	29-115	2	25	
alpha-BHC	0.0813	0.010	ug/l	0.100		81	59-131	1	25	
beta-BHC	0.0799	0.010	ug/l	0.100		80	63-136	1	25	
delta-BHC	0.0883	0.010	ug/l	0.100		88	59-137	0.3	25	
Dieldrin	0.0844	0.010	ug/l	0.100		84	59-135	1	25	
Endosulfan I	0.0700	0.010	ug/l	0.100		70	28-138	2	25	
Endosulfan II	0.0756	0.010	ug/l	0.100		76	53-133	0.3	25	
Endosulfan sulfate	0.0871	0.010	ug/l	0.100		87	58-155	0.7	25	
Endrin	0.0740	0.010	ug/l	0.100		74	57-148	23	25	
Endrin aldehyde	0.0748	0.010	ug/l	0.100		75	45-139	22	25	
gamma-BHC (Lindane)	0.0813	0.010	ug/l	0.100		81	59-129	1	25	
Heptachlor	0.0828	0.010	ug/l	0.100		83	42-136	1	25	
Heptachlor epoxide	0.0816	0.010	ug/l	0.100		82	59-134	0.8	25	
Methoxychlor	0.0835	0.010	ug/l	0.100		84	56-167	4	25	
Surr: Decachlorobiphenyl	*0.172*		*ug/l*	*0.200*		*86*	*70-130*			

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4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:16

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B1139 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W4B1139-BSD1)				Analyzed: 02/28/14 17:11						
Surr: Tetrachloro-meta-xylene	*0.161*		*ug/l*	*0.200*		*81*	*70-130*			

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Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:16

Notes and Definitions

S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
J	Estimated conc. detected <MRL and >MDL.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1402896

Report Created for: Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Project Contact: David Holland
Project P.O.:
Project Name: CalAm

Project Received: 02/26/2014

Analytical Report reviewed & approved for release on 02/28/2014 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

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"When Quality Counts"

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Glossary of Terms & Qualifier Definitions

Client: Monterey Bay Analytical
Project: CalAm
WorkOrder: 1402896

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifier

a1	sample diluted due to matrix interference

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Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method:**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #2 (237-247 ft bgs) (dissol	**1402896-002A**	**Water/DISS.**	**02/19/2014 16:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**210**	100	20	02/27/2014 19:31
Strontium	**11,000**	400	20	02/27/2014 19:31

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #3 (182-192 ft bgs) (dissol	**1402896-004A**	**Water/DISS.**	**02/21/2014 13:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	ND	100	20	02/27/2014 14:48
Strontium	**12,000**	400	20	02/27/2014 14:48

Analytical Comments: a1

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #4 (134-144 ft bgs) (dissol	**1402896-006A**	**Water/DISS.**	**02/22/2014 14:45**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**120**	100	20	02/27/2014 19:37
Strontium	**9400**	400	20	02/27/2014 19:37

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #5 (84-94 ft bgs) (dissolve	**1402896-008A**	**Water/DISS.**	**02/23/2014 16:20**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	ND	100	20	02/27/2014 19:43
Strontium	**10,000**	400	20	02/27/2014 19:43

Analytical Comments: a1

(Cont.)

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Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method:**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #6 (51-61 ft bgs) (dissolve	**1402896-010A**	**Water/DISS.**	**02/25/2014 09:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**100**	100	20	02/27/2014 19:48
Strontium	**9500**	400	20	02/27/2014 19:48

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Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #2 (237-247 ft bgs)	**1402896-001A**	**Water/TOTAL**	**02/19/2014 16:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:23
Arsenic	ND	10	20	02/27/2014 15:23
Copper	ND	10	20	02/27/2014 15:23
Lithium	**120**	100	20	02/27/2014 15:23
Zinc	ND	100	20	02/27/2014 15:23

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	104	70-130		02/27/2014 15:23

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #3 (182-192 ft bgs)	**1402896-003A**	**Water/TOTAL**	**02/21/2014 13:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:28
Arsenic	ND	10	20	02/27/2014 15:28
Copper	ND	10	20	02/27/2014 15:28
Lithium	**140**	100	20	02/27/2014 15:28
Zinc	ND	100	20	02/27/2014 15:28

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	111	70-130		02/27/2014 15:28

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #4 (134-144 ft bgs)	**1402896-005A**	**Water/TOTAL**	**02/22/2014 14:45**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:34
Arsenic	ND	10	20	02/27/2014 15:34
Copper	ND	10	20	02/27/2014 15:34
Lithium	**120**	100	20	02/27/2014 15:34
Zinc	ND	100	20	02/27/2014 15:34

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	104	70-130		02/27/2014 15:34

(Cont.)

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Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #5 (84-94 ft bgs)	**1402896-007A**	**Water/TOTAL**	**02/23/2014 16:20**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:40
Arsenic	ND	10	20	02/27/2014 15:40
Copper	ND	10	20	02/27/2014 15:40
Lithium	**170**	100	20	02/27/2014 15:40
Zinc	ND	100	20	02/27/2014 15:40

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	109	70-130		02/27/2014 15:40

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #6 (51-61 ft bgs)	**1402896-009A**	**Water/TOTAL**	**02/25/2014 09:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:45
Arsenic	ND	10	20	02/27/2014 15:45
Copper	ND	10	20	02/27/2014 15:45
Lithium	**140**	100	20	02/27/2014 15:45
Zinc	ND	100	20	02/27/2014 15:45

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	110	70-130		02/27/2014 15:45

Quality Control Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Date Prepared:	2/26/14	**BatchID:**	87508
Date Analyzed:	2/27/14	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	CalAm	**Sample ID:**	MB/LCS-87508 1402903-004CMS/MSD

QC Summary Report for E200.8

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aluminum	ND	475.4	50	500	-	95.1	85-115
Arsenic	ND	46.74	0.50	50	-	93.5	85-115
Barium	ND	451.9	5.0	500	-	90.4	85-115
Copper	ND	48.31	0.50	50	-	96.6	85-115
Lithium	ND	47.95	5.0	50	-	95.9	85-115
Strontium	ND	496	20	500	-	99.2	85-115
Zinc	ND	489.9	5.0	500	-	98	85-115
Surrogate Recovery							
Tb 350.917	695.7	710.9		750	93	95	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aluminum	1373	1438	500	863.6	102	115	70-130	4.62	20
Arsenic	47.91	48.87	50	0.84	94.1	96.1	70-130	1.98	20
Barium	473.2	485.6	500	18	91	93.5	70-130	2.59	20
Copper	60.61	62.62	50	13.01	95.2	99.2	70-130	3.26	20
Lithium	49.57	51.07	50	ND	99.1	102	70-130	2.98	20
Strontium	532.9	553	500	36	99.4	103	70-130	3.70	20
Zinc	632.5	641.6	500	118.4	103	105	70-130	1.43	20
Surrogate Recovery									
Tb 350.917	712.5	731	750		95	97	70-130	2.56	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1402896 **ClientCode: MBAS**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
David Holland
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940
831-375-6227 FAX: 831-641-0734

Email: 4mbas@sbcglobal.net
cc:
PO:
ProjectNo: CalAm

Bill to:
Accounts Payable
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Requested TAT: 3 days

Date Received: 02/26/2014
Date Printed: 02/26/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1402896-001	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	2/19/2014 16:10	☐		A										
1402896-002	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	2/19/2014 16:10	☐	A											
1402896-003	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	2/21/2014 13:10	☐		A										
1402896-004	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	2/21/2014 13:10	☐	A											
1402896-005	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	2/22/2014 14:45	☐		A										
1402896-006	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	2/22/2014 14:45	☐	A											
1402896-007	CX-BIWQ Zone #5 (84-94 ft bgs)	Water	2/23/2014 16:20	☐		A										
1402896-008	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	Water	2/23/2014 16:20	☐	A											
1402896-009	CX-BIWQ Zone #6 (51-61 ft bgs)	Water	2/25/2014 9:10	☐		A										
1402896-010	CX-BIWQ Zone #6 (51-61 ft bgs) (dissolved)	Water	2/25/2014 9:10	☐	A											

Test Legend:

1	METALSMS_DISS	2	METALSMS_W	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Jena Alfaro

Comments: Needs analysts initials for all reports per D.H. 4/5/13

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: MONTEREY BAY ANALYTICAL
QC Level: LEVEL 2
Work Order: 1402896
Project: CalAm
Client Contact: David Holland
Date Received: 2/26/2014
Comments: Needs analysts initials for all reports per D.H. 4/5/13
Contact's Email: 4mbas@sbcglobal.net

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1402896-001A	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/19/2014 16:10	3 days	None	☐	
1402896-002A	CX-BIWQ Zone #2 (237-247 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/19/2014 16:10	3 days	None	☐	
1402896-003A	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/21/2014 13:10	3 days	None	☐	
1402896-004A	CX-BIWQ Zone #3 (182-192 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/21/2014 13:10	3 days	None	☐	
1402896-005A	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/22/2014 14:45	3 days	None	☐	
1402896-006A	CX-BIWQ Zone #4 (134-144 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/22/2014 14:45	3 days	None	☐	
1402896-007A	CX-BIWQ Zone #5 (84-94 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/23/2014 16:20	3 days	None	☐	
1402896-008A	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/23/2014 16:20	3 days	None	☐	
1402896-009A	CX-BIWQ Zone #6 (51-61 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/25/2014 9:10	3 days	None	☐	
1402896-010A	CX-BIWQ Zone #6 (51-61 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/25/2014 9:10	3 days	None	☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

125mL HDPE w/ HNO3 = 125mL HDPE Bottle w/ Nitric Acid
250mL HDPE w/ HNO3 = 250mL HDPE Bottle w/ HNO3

14028896

Appendix G

RUSH

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAY

☐ GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW)

Report To: David Holland Bill To:
Company: Monterey Bay Analytical Services
4 Justin Ct. Suite D
Monterey, Ca 93940 E-Mail: 4mbas@sbcglobal.net
Tele: (831) 375 - 6227 Fax: (831) 641-0734
Project #: Project Name: CalAm
Project Location:
Sampler Signature: Nathan Reynolds

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	HCL	HNO_3	Other	MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other: Al, As, Cu, Li, Zn	Other: Ba, Sr	Other	Comments: Filter Samples for Metals analysis: Yes / No
	CX-BIWQ Zone #2 (237-247 ft bgs)	2/19/14	16:10	1	p	X					X		X																			X			11965
	CX-BIWQ Zone #2 (237-247 ft bgs) (dissolved)	2/19/14	16:10	1	p	X					X		X																				X		11965 (dissolved)
	CX-BIWQ Zone #3 (182-192 ft bgs)	2/21/14	13:10	1	p	X					X		X																			X			12015
	CX-BIWQ Zone #3 (182-192 ft bgs) (dissolved)	2/21/14	13:10	1	p	X					X		X																				X		12015 (dissolved)
	CX-BIWQ Zone #4 (134-144 ft bgs)	2/22/14	14:45	1	p	X					X		X																			X			12029
	CX-BIWQ Zone #4 (134-144 ft bgs) (dissolved)	2/22/14	14:45	1	p	X					X		X																				X		12029 (dissolved)
	CX-BIWQ Zone #5 (84-94 ft bgs)	2/23/14	16:20	1	P	X					X		X																			X			12030
	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	2/23/14	16:20	1	P	X					X		X																				X		12030 (dissolved)
	CX-BIWQ Zone #6 (51-61 ft bgs)	2/25/14	09:10	1	p	X					X		X																			X			12148
	CX-BIWQ Zone #6 (51-61 ft bgs) (Dissolved)	2/25/14	09:10	1	p	X					X		X																				X		12148 (dissolved)

REC'D SEALED & INTACT VIA UPS ~~On Trac~~

Relinquished By:	Date:	Time:	Received By:
David Holland	2/25/14	1200	2/26/14 9:15
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____

COMMENTS: The sample conductivity ranges from 25,000 uS/cm to 40,000 uS/cm

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Monterey Bay Analytical**	Date and Time Received:	**2/26/2014 11:35:12 AM**
Project Name:	**CalAm**	LogIn Reviewed by:	Jena Alfaro
WorkOrder N°:	**1402896** Matrix: Water	Carrier:	UPS

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☑	

** NOTE: If the "No" box is checked, see comments below.*

Comments:

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PRECISION • ACCURACY • DEPENDABILITY
4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

pH QC Summary (SM 4500 H+)

Date Analyzed: 2/21/2014

	Value (pH Units)	Result (pH Units)	% Rec	Acceptance Criteria %Rec
IPC	6.86	6.86	100.0	95-105

Sample ID	Sample (pH Units)	Sample Dup (pH Units)	% RPD	Acceptance Criteria % RPD
AB12021	7.0	7.0	0.0	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Turbidity QC Summary (EPA 180.1)

Date Analyzed: 2/21/2014

	Value (NTU)	Result (NTU)	% Rec	Acceptance Criteria %Rec
IPC	1.00	1.05	105.0	95-105

Sample ID	Sample (NTU)	Sample Dup (NTU)	% RPD	Acceptance Criteria % RPD
AB12015	0.74	0.69	7.5	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

300.0 QC Summary

All units expressed in mg/L

		F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
		2	20	2	20	2	2	2
IPC		1.99	20.09	2.12	19.60	2.09	2.00	1.91
Recovery	90-110%	99.51	100.43	106.17	98.01	104.71	100.14	95.56
CCV1		1.97	20.92	2.03	19.43	2.03	1.96	1.71
Recovery	90-110%	98.69	104.61	101.34	97.13	101.26	98.09	85.25
RPD	10%	0.82	4.07	4.66	0.90	3.35	2.06	11.40
CCV2		1.98	19.93	2.11	19.44	2.06	1.98	1.80
Recovery	90-110%	99.05	99.67	105.32	97.18	103.13	98.76	89.86
RPD	10%	0.46	0.76	0.80	0.85	1.52	1.38	6.15
		F	**Cl**	**NO2-N**	**SO4**	**Br**	**NO3-N**	**PO4-P**
		2	20	2	20	2	2	2
AB12018		0.00	10605.35	0.00	1411.32	34.01	9.38	0.03
AB12018+LFM		1.40	10697.24	0.07	1443.73	34.15	11.33	0.29
AB12018+LFMD		1.39	10782.09	0.00	1447.52	34.98	11.51	0.07
Average		1.40	10739.66	0.03	1445.62	34.56	11.42	0.18
Recovery	80-120%	69.87	671.58	1.66	171.52	27.90	102.00	7.64
RPD	10%	0.71	0.79	200.00	0.26	2.40	1.57	118.84

Batch # 20140225

Analyte/		IC	Prep	LCS	%Rec	LCSD	%Rec	%Diff	IC Verification			QCS (95-105%)		
WL	Range	Blank	Blank	Value	85-115%	Value	85-115%		Value	Result	%Rec	Value	Result	%Rec
B 249.678	0.05-5ppm	0.00	0.00	1.03	103.3%	1.04	104.1%	0.7%	1	1.01	100.8%	1	0.99	99.3%
B 249.772	0.05-5ppm	0.00	0.00	1.03	102.7%	1.04	103.9%	1.2%	1	1.00	99.5%	1	0.99	99.1%
Ca 317.933	50-300ppm	-4.32	-4.33	49.6	99.3%	50.9	101.7%	2.4%	50	49.1	98.3%	50	48.7	97.4%
Ca 396.847	0.5-50ppm	-0.23	-0.24	50.1	100.3%	51.1	102.3%	2.0%	50	49.7	99.5%	50	49.5	99.1%
Cu 324.754	10ppb-100ppm	-7.83	-9.32	1008	100.8%	1031	103.1%	2.3%	1000	989	98.9%	1000	1002	100.2%
Cu 327.395	10ppb-100ppm	-3.71	-2.81	1018	101.8%	1037	103.7%	1.8%	1000	989	98.9%	1000	1005	100.5%
Fe 238.204	10ppb-100ppm	-0.01	0.65	998	99.8%	1008	100.8%	1.1%	1000	985	98.5%	1000	980	98.0%
Fe 259.940	10ppb-100ppm	-1.92	-2.32	1008	100.8%	1025	102.5%	1.6%	1000	992	99.2%	1000	995	99.5%
K 766.491	0.5-750ppm	0.06	0.04	9.9	99.2%	10.2	101.9%	2.7%	10	9.9	98.6%	10	9.9	98.9%
Mg 202.582	50-1000ppm	-1.92	-1.95	51.3	102.7%	51.9	103.8%	1.1%	50	50.1	100.3%	50	50.2	100.3%
Mg 279.078	0.5-50ppm	0.04	0.01	50.3	100.5%	50.8	101.6%	1.1%	50	49.3	98.7%	50	49.1	98.2%
Mn 257.610	10ppb-11ppm	-6.24	-6.61	1005	100.5%	1021	102.1%	1.5%	1000	988	98.8%	1000	978	97.8%
Mn 260.568	10ppb-11ppm	-6.06	-6.71	1006	100.6%	1015	101.5%	0.9%	1000	986	98.6%	1000	974	97.4%
Na 568.821	50-1000ppm	8.44	6.58	51.4	102.7%	54.1	108.1%	5.1%	50	50.7	101.3%	50	51.1	102.2%
Na 589.592	0.5-50ppm	0.11	0.04	49.9	99.9%	51.4	102.8%	2.9%	50	49.7	99.4%	50	49.6	99.1%
Si 251.611	0.5-200ppm	0.03	-0.03	51.1	102.3%	51.4	102.7%	0.4%	50	49.4	98.8%	107	105.0	98.2%
Si 252.411	0.5-200ppm	0.07	-0.01	50.9	101.8%	51.3	102.5%	0.7%	50	49.2	98.5%	107	105.0	98.1%
Zn 213.857	10ppb-50ppm	-12.44	-12.72	999	99.9%	1008	100.8%	0.9%	1000	974	97.4%	1000	967	96.7%

Matrix Spikes

Sample ID AB12040

Analyte/	Sample	MS	%Rec	MSD	%Rec	%Diff	CCV (90-110%)			%Diff	CC
WL	Value	Value	70-130%	Value	70-130%		Value	Result	%Rec	10%	Blank
B 249.678	0.09	1.12	102.9%	1.09	100.2%	2.5%	1	1.04	104.1%	3.3%	0.00
B 249.772	0.09	1.13	103.9%	1.11	101.8%	1.8%	1	1.06	105.6%	5.9%	0.00
Ca 317.933	136.6	186.1	99.0%	184.0	94.8%	1.1%	50	50.3	100.6%	2.3%	-4.35
Ca 396.847	*115.2*	*149.6*	*68.7%*	*148.1*	*65.8%*	*1.0%*	50	50.4	100.9%	1.4%	-0.25
Cu 324.754	31	1071	104.0%	1053	102.2%	1.7%	1000	1012	101.2%	2.3%	-7.80
Cu 327.395	34	1106	107.2%	1085	105.1%	1.9%	1000	1037	103.7%	4.8%	-7.04
Fe 238.204	761	1738	97.7%	1717	95.6%	1.2%	1000	1004	100.4%	1.9%	-2.79
Fe 259.940	775	1772	99.7%	1754	97.9%	1.0%	1000	1007	100.7%	1.4%	-1.97
K 766.491	3.6	13.9	103.1%	13.7	100.5%	1.9%	10	10.1	100.9%	2.2%	0.07

Mg 202.582	23.1	77.8	109.6%	76.7	107.4%	1.4%	50	52.5	105.0%	4.6%	-1.95
Mg 279.078	22.7	73.2	101.0%	72.2	99.0%	1.4%	50	50.3	100.6%	1.9%	0.01
Mn 257.610	87	1104	101.7%	1090	100.3%	1.3%	1000	1011	101.1%	2.3%	-7.07
Mn 260.568	89	1111	102.2%	1097	100.8%	1.3%	1000	1017	101.7%	3.1%	-7.40
Na 568.821	96.9	149.1	104.3%	145.2	96.5%	2.7%	50	55.1	110.2%	8.4%	6.53
Na 589.592	*90.0*	*140.9*	*101.7%*	*138.3*	*96.6%*	*1.8%*	50	51.5	103.0%	3.6%	0.44
Si 251.611	31.0	81.6	101.1%	80.6	99.0%	1.3%	50	52.4	104.8%	5.9%	-0.08
Si 252.411	30.5	79.8	98.4%	78.6	96.2%	1.4%	50	51.2	102.3%	3.8%	-0.02
Zn 213.857	22	1051	102.9%	1040	101.8%	1.0%	1000	1013	101.3%	3.9%	-16.83

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831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 2/24/2014

	Value (umhos/cm)	Result (umhos/cm)	% Rec	Acceptance Criteria %Rec
IPC	1412	1412	100.0%	95-105

Sample ID	Sample (umhos/cm)	Sample Dup (umhos/cm)	% RPD	Acceptance Criteria % RPD
AB12170	2780	2782	0.1%	10
AB12203	118	118	0.0%	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Ortho Phosphate QC Summary (Hach 8190)

Date: 3/2/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
LCS	0.200	0.220	110	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12155	0.052	0.200	0.241	0.243	94.5	95.5	0.8	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Total Phosphorus QC Summary (Hach 8190)

Date: 3/2/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
LCS	0.200	0.214	107	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12148	0.010	0.200	0.200	0.206	95	98	3.0	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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montereybayanalytical@usa.net

ELAP Certification Number: 2385

Cal Am Water Company
Travis Peterson
511 Pacific Lodge Road, Suite 100
Pacific Grove, CA 93950

Thursday, March 06, 2014

Lab Number: **AB12029**

Collection Date/Time:	2/22/2014	14:45	Sample Collector:	NATHAN REYNOL	
Submittal Date/Time:	2/22/2014	17:00	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B1WQ Zone # 4 (134-144 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Alkalinity, Total (as CaCO3)	SM2320B	mg/L	**96**		2		2/24/2014	LRH
Aluminum, Total	EPA200.8	ug/L	**Not Detected**	E	10	1000	2/27/2014	MC LAB
Ammonia-N, Dissolved	SM4500NH3 D	mg/L	**Not Detected**		0.05		3/5/2014	DH
Arsenic, Total	EPA200.8	ug/L	**Not Detected**		1	10	2/27/2014	MC LAB
Barium, Dissolved	EPA200.8	ug/L	**120**		10		2/27/2014	MC LAB
Bicarbonate (as HCO3-)	SM2320B	mg/L	**117**		10		2/25/2014	SM
Boron, Dissolved	EPA200.7	mg/L	**2.88**		0.05		2/25/2014	DC
Bromide, Dissolved	EPA300.0	mg/L	**38**		0.1		2/23/2014	DH
Calcium	EPA200.7	mg/L	**505**		0.5		2/25/2014	DC
Calcium, Dissolved	EPA200.7	mg/L	**502**		0.5		2/25/2014	DC
Carbamates by HPLC (EPA 531)	EPA531	ug/L	**Not Detected**	E			2/26/2014	BSK
Carbonate as CaCO3	SM2320B	mg/L	**Not Detected**		10		2/25/2014	SM
Chloride, Dissolved	EPA300.0	mg/L	**14050**		1		2/23/2014	DH
Chlorinated Pesticides and PCB (EP	EPA508	ug/L	**Not Detected**	E			2/28/2014	WECK
Color, Apparent (Unfiltered)	SM2120B	Color Units	**10**		3	15	2/23/2014	DH
Copper, Total	EPA200.8	ug/L	**Not Detected**		4	1300	2/27/2014	MC LAB
DBCP & EDB	EPA504.1	ug/L	**Not Detected**	E			2/26/2014	BSK
Dioxin	EPA-5 1613B	pg/L	**Not Detected**				2/28/2014	CERES
Diquat (EPA 549)	EPA549	ug/L	**Not Detected**	E			2/28/2014	BSK
Dissolved Anions		Meq/L	**436.9**				3/6/2014	DH
Dissolved Cations		Meq/L	**458.9**				3/6/2014	DH
Endothall	EPA548.1	ug/L	**Not Detected**	E			2/26/2014	BSK
Fluoride, Dissolved	EPA300.0	mg/L	**Not Detected**		0.1		2/23/2014	DH
Glyphosate	EPA547	ug/L	**Not Detected**	E			3/1/2014	BSK
Hardness (as CaCO3)	SM2340B	mg/L	**5350**		10		3/6/2014	DH
Hydroxide	SM2320B	mg/L	**Not Detected**		5		2/25/2014	SM
Iodide	EPA9056M	ug/L	**Not Detected**	E	10		3/1/2014	WECK
Iron	EPA200.7	ug/L	**922**		10	300	2/25/2014	DC
Iron, Dissolved	EPA200.7	ug/L	**814**		10	300	2/25/2014	DC
Kjehldahl Nitrogen, Dissolved	SM4500-NH3 B,	mg/L	**0.4**	J	0.5		2/25/2014	HM
Lithium	EPA200.8	ug/L	**120**		1		2/27/2014	MC LAB
Magnesium	EPA200.7	mg/L	**993**		0.5		2/25/2014	DC
Magnesium, Dissolved	EPA200.7	mg/L	**981**		1		2/25/2014	DC
Manganese, Dissolved	EPA200.7	ug/L	**349**		10	50	2/25/2014	DC
Manganese, Total	EPA200.7	ug/L	**387**		10	50	2/25/2014	DC
MBAS (Surfactants)	SM5540C	mg/L	**Not Detected**		0.05	0.50	2/23/2014	DH
Nitrate as NO3	EPA300.0	mg/L	**2**		1	45	2/23/2014	DH
Nitrate+Nitrite as N	EPA300.0	mg/L	**0.4**		0.1		2/23/2014	DH
Nitrite as NO2-N, Dissolved	EPA300.0	mg/L	**Not Detected**		0.1		2/23/2014	DH

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

Lab Number: **AB12029**

Appendix G

Collection Date/Time:	2/22/2014	14:45	Sample Collector:	NATHAN REYNOL	
Submittal Date/Time:	2/22/2014	17:00	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B1WQ Zone # 4 (134-144 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Odor Threshold at 60 C	SM2150B	TON	**1**		1	3	2/23/2014	DH
o-Phosphate-P, Dissolved	Hach 8190	mg/L	**0.07**		0.1		2/24/2014	DH
pH (Field Test)	SM4500-H+B	pH	**6.82**				2/22/2014	NR
pH (Laboratory)	SM4500-H+B	pH (H)	**6.9**				2/22/2014	DH
Phenoxy Acid Herbicides (515.3)	EPA515.3	ug/L	**Not Detected**	E			3/2/2014	BSK
Phosphorus, Dissolved	HACH 8190	mg/L	**0.07**		0.03		2/24/2014	DH
Potassium	EPA200.7	mg/L	**261**		0.5		2/25/2014	DC
Potassium, Dissolved	EPA200.7	mg/L	**256**		0.1		2/25/2014	DC
QC Ratio TDS/SEC	Calculation		**0.67**				2/27/2014	SM
Reg. Org. Compounds (EPA 525)	EPA525	ug/L	**Not Detected**	E			2/26/2014	BSK
Silica as SiO2, Dissolved	EPA200.7	mg/L	**27**		0.5		2/25/2014	DC
Sodium	EPA200.7	mg/L	**8045**		0.5		2/25/2014	DC
Sodium, Dissolved	EPA200.7	mg/L	**7968**		0.5		2/25/2014	DC
Specific Conductance (E.C)	SM2510B	umhos/cm	**39610**		1	900	2/24/2014	HM
Specific Conductance (E.C) (Field)	SM2510B	umhos/cm	**39592**		1		2/22/2014	NR
Strontium, Dissolved	EPA200.8	ug/L	**9400**		5		2/27/2014	MC LAB
Sulfate	EPA300.0	mg/L	**1832**		1	250	2/23/2014	DH
Temperature (Field)	SM2550	° C	**18.8**				2/22/2014	NR
Total Cations		Meq/L	**463.6**				3/6/2014	DH
Total Diss. Solids	SM2540C	mg/L	**26500**		10	500	2/25/2014	HM
Turbidity	EPA180.1	NTU	**4.6**		0.05	5.0	2/24/2014	LRH
Turbidity (Field)	EPA180.1	NTU	**0.24**		0.05		2/22/2014	NR
Volatile Org. Compounds (524)	EPA524	ug/L	**Not Detected**	E			2/26/2014	BSK
Zinc, Total	EPA200.8	ug/L	**Not Detected**		10	5000	2/27/2014	MC LAB

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level

H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **\B12029 Zone #4 Total**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	8045	0.04350	349.96
Potassium	256	0.02558	6.55
Calcium	505	0.04990	25.20
Magnesium	993	0.08229	81.71
NH3-N	0	0.07143	0.00
		SUM	463.42

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	96	0.02000	1.92
Sulfate	1832	0.02082	38.14
Chloride	14050	0.02821	396.35
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0.4	0.07138	0.03
Phosphate-P	0.1	0.01031	0.00
Fluoride	0.0	0.05264	0.00
Bromide	38.0	0.01252	0.48
		SUM	436.92

ANION-CATION BALANCE **3** (% DIFFERENCE)
Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	39610	
Cation Sum X 100	46342	**117%**
Anion Sum X 100	43692	**110%**

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (S	**47.9**
Ca+Mg+Na	456.87
HCO3/Ca	0.08
dS/m	39.61
Value Table II	1.5
SAR adj	**54.3**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **12029 Zone #4 Dissolvec**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	7968	0.04350	346.61
Potassium	256	0.02558	6.55
Calcium	502	0.04990	25.05
Magnesium	981	0.08229	80.73
NH3-N	0	0.07143	0.00
		SUM	458.93

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	96	0.02000	1.92
Sulfate	1832	0.02082	38.14
Chloride	14050	0.02821	396.35
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0.4	0.07138	0.03
Phosphate-P	0.1	0.01031	0.00
Fluoride	0.0	0.05264	0.00
Bromide	38.0	0.01252	0.48
		SUM	436.92

ANION-CATION BALANCE **2** (% DIFFERENCE)
Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	39610	
Cation Sum X 100	45893	**116%**
Anion Sum X 100	43692	**110%**

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (S	**47.7**
Ca+Mg+Na	452.38
HCO3/Ca	0.08
dS/m	39.61
Value Table II	1.5
SAR adj	**54.1**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A4B1781 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/25/2014. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Monterey Bay Analytical	**Invoice To:**	Monterey Bay Analytical
Report To:	David Holland	**Invoice Attn:**	David Holland
Project #:	-	**Project PO#:**	-
Received:	2/25/2014 - 09:30		
Report Due:	3/04/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 3.1

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.

Report Distribution

Recipient(s)	Report Format
David Holland	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1781-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #4 (134-144 ft bgs) // 12029

Sample Date - Time: 02/22/14 - 14:45
Matrix: Drinking Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A402381	02/25/14	02/26/14	CV0.0
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A402381	02/25/14	02/26/14	CV0.0
Surrogate: 1-Br-2-Nitrobenzene	EPA 504.1	111 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A402552	02/28/14	03/02/14	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A402552	02/28/14	03/02/14	
2,4-D	EPA 515.3	ND	10	ug/L	1	A402552	02/28/14	03/02/14	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A402552	02/28/14	03/02/14	
Dalapon	EPA 515.3	ND	10	ug/L	1	A402552	02/28/14	03/02/14	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A402552	02/28/14	03/02/14	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A402552	02/28/14	03/02/14	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A402552	02/28/14	03/02/14	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A402552	02/28/14	03/02/14	
Surrogate: DCPAA	EPA 515.3	74 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A402390	02/26/14	02/26/14	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A402390	02/26/14	02/26/14	BS1.0
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A402390	02/26/14	02/26/14	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A402390	02/26/14	02/26/14	
Acetone	EPA 524.2	ND	10	ug/L	1	A402390	02/26/14	02/26/14	BS1.0, CV0.0

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1781-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #4 (134-144 ft bgs) // 12029

Sample Date - Time: 02/22/14 - 14:45
Matrix: Drinking Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Benzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A402390	02/26/14	02/26/14	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	BS1.0, CV0.0
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A402390	02/26/14	02/26/14	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A402390	02/26/14	02/26/14	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A402390	02/26/14	02/26/14	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1781-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #4 (134-144 ft bgs) // 12029

Sample Date - Time: 02/22/14 - 14:45
Matrix: Drinking Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	100 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	104 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A402368	02/25/14	02/26/14	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A402368	02/25/14	02/26/14	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Bromacil	EPA 525.2	ND	10	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A402368	02/25/14	02/26/14	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A402368	02/25/14	02/26/14	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A402368	02/25/14	02/26/14	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A402368	02/25/14	02/26/14	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	105 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A402388	02/25/14	02/26/14	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A402388	02/25/14	02/26/14	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A402388	02/25/14	02/26/14	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A402388	02/25/14	02/26/14	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A402388	02/25/14	02/26/14	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A402388	02/25/14	02/26/14	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A402388	02/25/14	02/26/14	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A402388	02/25/14	02/26/14	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A402555	03/01/14	03/01/14	
Surrogate: AMPA	EPA 547	97 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A402387	02/25/14	02/26/14	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A402367	02/25/14	02/28/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A402381										Prepared: 02/25/2014	
Prep Method: EPA 505										Analyst: GAK	
Blank (A402381-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							02/26/14	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.8*			*3.4*		*110*	*70-130*			02/26/14	
Blank Spike (A402381-BS1)											
Dibromochloropropane (DBCP)	0.24	0.010	ug/L	0.20		118	70-130			02/26/14	
Ethylene Dibromide (EDB)	0.23	0.020	ug/L	0.20		113	70-130			02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.6*			*3.4*		*104*	*70-130*			02/26/14	
Blank Spike Dup (A402381-BSD1)											
Dibromochloropropane (DBCP)	0.25	0.010	ug/L	0.20		125	70-130	5	20	02/26/14	
Ethylene Dibromide (EDB)	0.24	0.020	ug/L	0.20		122	70-130	7	20	02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.7*			*3.4*		*109*	*70-130*			02/26/14	
Matrix Spike (A402381-MS1), Source: A4B1641-01											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20	ND	111	65-135			02/26/14	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.20	ND	109	65-135			02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.3*			*3.4*		*99*	*70-130*			02/26/14	
Matrix Spike Dup (A402381-MSD1), Source: A4B1641-01											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20	ND	114	65-135	3	20	02/26/14	
Ethylene Dibromide (EDB)	0.23	0.020	ug/L	0.20	ND	115	65-135	5	20	02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.4*			*3.4*		*101*	*70-130*			02/26/14	
EPA 515.3 - Quality Control											
Batch: A402552										Prepared: 02/28/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A402552-BLK1)											
2,4,5-T	ND	1.0	ug/L							03/02/14	
2,4,5-TP (Silvex)	ND	1.0	ug/L							03/02/14	
2,4-D	ND	10	ug/L							03/02/14	
Bentazon	ND	2.0	ug/L							03/02/14	
Dalapon	ND	10	ug/L							03/02/14	
Dicamba	ND	1.5	ug/L							03/02/14	
Dinoseb	ND	2.0	ug/L							03/02/14	
Pentachlorophenol	ND	0.20	ug/L							03/02/14	
Picloram	ND	1.0	ug/L							03/02/14	
Surrogate: DCPAA	*46*			*58*		*80*	*70-130*			03/02/14	
Blank Spike (A402552-BS1)											
2,4,5-T	4.1	1.0	ug/L	4.0		103	70-130			03/02/14	
2,4,5-TP (Silvex)	0.84	1.0	ug/L	0.80		105	70-130			03/02/14	
2,4-D	0.46	10	ug/L	0.40		115	70-130			03/02/14	
Bentazon	8.9	2.0	ug/L	8.0		111	70-130			03/02/14	
Dalapon	4.1	10	ug/L	4.0		101	70-130			03/02/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A402552										Prepared: 02/28/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike (A402552-BS1)											
Dicamba	6.2	1.5	ug/L	6.0		103	70-130			03/02/14	
Dinoseb	0.82	2.0	ug/L	0.80		102	70-130			03/02/14	
Pentachlorophenol	0.16	0.20	ug/L	0.16		100	70-130			03/02/14	
Picloram	0.41	1.0	ug/L	0.40		104	70-130			03/02/14	
Surrogate: DCPAA	*47*			*58*		*80*	*70-130*			03/02/14	
Blank Spike Dup (A402552-BSD1)											
2,4,5-T	4.2	1.0	ug/L	4.0		105	70-130	2	20	03/02/14	
2,4,5-TP (Silvex)	0.83	1.0	ug/L	0.80		103	70-130	2	20	03/02/14	
2,4-D	0.47	10	ug/L	0.40		118	70-130	2	20	03/02/14	
Bentazon	8.7	2.0	ug/L	8.0		109	70-130	2	20	03/02/14	
Dalapon	4.2	10	ug/L	4.0		106	70-130	4	20	03/02/14	
Dicamba	6.1	1.5	ug/L	6.0		101	70-130	2	20	03/02/14	
Dinoseb	0.81	2.0	ug/L	0.80		102	70-130	1	20	03/02/14	
Pentachlorophenol	0.16	0.20	ug/L	0.16		98	70-130	2	20	03/02/14	
Picloram	0.43	1.0	ug/L	0.40		107	70-130	4	20	03/02/14	
Surrogate: DCPAA	*45*			*58*		*78*	*70-130*			03/02/14	
Matrix Spike (A402552-MS1), Source: A4B1782-01											
2,4,5-T	4.2	1.0	ug/L	4.0	ND	104	70-130			03/02/14	
2,4,5-TP (Silvex)	0.85	1.0	ug/L	0.80	ND	106	70-130			03/02/14	
2,4-D	0.47	10	ug/L	0.40	ND	117	70-130			03/02/14	
Bentazon	8.8	2.0	ug/L	8.0	ND	110	70-130			03/02/14	
Dalapon	4.2	10	ug/L	4.0	ND	105	70-130			03/02/14	
Dicamba	6.0	1.5	ug/L	6.0	ND	101	70-130			03/02/14	
Dinoseb	0.82	2.0	ug/L	0.80	ND	102	70-130			03/02/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	97	70-130			03/02/14	
Picloram	0.41	1.0	ug/L	0.40	ND	103	70-130			03/02/14	
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			03/02/14	
Matrix Spike Dup (A402552-MSD1), Source: A4B1782-01											
2,4,5-T	4.1	1.0	ug/L	4.0	ND	103	70-130	1	20	03/02/14	
2,4,5-TP (Silvex)	0.84	1.0	ug/L	0.80	ND	105	70-130	1	20	03/02/14	
2,4-D	0.51	10	ug/L	0.40	ND	127	70-130	9	20	03/02/14	
Bentazon	8.8	2.0	ug/L	8.0	ND	110	70-130	0	20	03/02/14	
Dalapon	4.1	10	ug/L	4.0	ND	102	70-130	3	20	03/02/14	
Dicamba	6.0	1.5	ug/L	6.0	ND	100	70-130	1	20	03/02/14	
Dinoseb	0.80	2.0	ug/L	0.80	ND	101	70-130	2	20	03/02/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	97	70-130	0	20	03/02/14	
Picloram	0.40	1.0	ug/L	0.40	ND	99	70-130	4	20	03/02/14	
Surrogate: DCPAA	*46*			*58*		*80*	*70-130*			03/02/14	
EPA 524.2 - Quality Control											
Batch: A402390										Prepared: 02/26/2014	
Prep Method: EPA 524.2										Analyst: JGB	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A402390										Prepared: 02/26/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A402390-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							02/26/14	
1,1,1-Trichloroethane	ND	0.50	ug/L							02/26/14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							02/26/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							02/26/14	
1,1,2-Trichloroethane	ND	0.50	ug/L							02/26/14	
1,1-Dichloroethane	ND	0.50	ug/L							02/26/14	
1,1-Dichloroethene	ND	0.50	ug/L							02/26/14	
1,1-Dichloropropene	ND	0.50	ug/L							02/26/14	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							02/26/14	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							02/26/14	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							02/26/14	
1,2-Dichlorobenzene	ND	0.50	ug/L							02/26/14	
1,2-Dichloroethane	ND	0.50	ug/L							02/26/14	
1,2-Dichloropropane	ND	0.50	ug/L							02/26/14	
1,3,5-Trimethylbenzene	ND	0.50	ug/L							02/26/14	
1,3-Dichlorobenzene	ND	0.50	ug/L							02/26/14	
1,3-Dichloropropane	ND	0.50	ug/L							02/26/14	
1,4-Dichlorobenzene	ND	0.50	ug/L							02/26/14	
2,2-Dichloropropane	ND	0.50	ug/L							02/26/14	
2-Butanone	ND	5.0	ug/L							02/26/14	
2-Chlorotoluene	ND	0.50	ug/L							02/26/14	
2-Hexanone	ND	10	ug/L							02/26/14	
4-Chlorotoluene	ND	0.50	ug/L							02/26/14	
4-Methyl-2-pentanone	ND	5.0	ug/L							02/26/14	
Acetone	ND	10	ug/L							02/26/14	
Benzene	ND	0.50	ug/L							02/26/14	
Bromobenzene	ND	0.50	ug/L							02/26/14	
Bromochloromethane	ND	0.50	ug/L							02/26/14	
Bromodichloromethane	ND	0.50	ug/L							02/26/14	
Bromoform	ND	0.50	ug/L							02/26/14	
Bromomethane	ND	0.50	ug/L							02/26/14	
Carbon Tetrachloride	ND	0.50	ug/L							02/26/14	
Chlorobenzene	ND	0.50	ug/L							02/26/14	
Chloroethane	ND	0.50	ug/L							02/26/14	
Chloroform	ND	0.50	ug/L							02/26/14	
Chloromethane	ND	0.50	ug/L							02/26/14	
cis-1,2-Dichloroethene	ND	0.50	ug/L							02/26/14	
cis-1,3-Dichloropropene	ND	0.50	ug/L							02/26/14	
Dibromochloromethane	ND	0.50	ug/L							02/26/14	
Dibromomethane	ND	0.50	ug/L							02/26/14	
Dichlorodifluoromethane	ND	0.50	ug/L							02/26/14	
Dichloromethane	ND	0.50	ug/L							02/26/14	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							02/26/14	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							02/26/14	
Ethylbenzene	ND	0.50	ug/L							02/26/14	
Hexachlorobutadiene	ND	0.50	ug/L							02/26/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402390 Prepared: 02/26/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank (A402390-BLK1)												
Isopropylbenzene	ND	0.50	ug/L							02/26/14		
m,p-Xylenes	ND	0.50	ug/L							02/26/14		
Methyl-t-butyl ether	ND	0.50	ug/L							02/26/14		
Naphthalene	ND	0.50	ug/L							02/26/14		
n-Butylbenzene	ND	0.50	ug/L							02/26/14		
n-Propylbenzene	ND	0.50	ug/L							02/26/14		
o-Xylene	ND	0.50	ug/L							02/26/14		
p-Isopropyltoluene	ND	0.50	ug/L							02/26/14		
sec-Butylbenzene	ND	0.50	ug/L							02/26/14		
Styrene	ND	0.50	ug/L							02/26/14		
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							02/26/14		
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							02/26/14		
tert-Butylbenzene	ND	0.50	ug/L							02/26/14		
Tetrachloroethene (PCE)	ND	0.50	ug/L							02/26/14		
Toluene	ND	0.50	ug/L							02/26/14		
trans-1,2-Dichloroethene	ND	0.50	ug/L							02/26/14		
trans-1,3-Dichloropropene	ND	0.50	ug/L							02/26/14		
Trichloroethene (TCE)	ND	0.50	ug/L							02/26/14		
Trichlorofluoromethane	ND	5.0	ug/L							02/26/14		
Vinyl Chloride	ND	0.50	ug/L							02/26/14		
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*95*	*70-130*			02/26/14		
Surrogate: Bromofluorobenzene	*50*			*50*		*101*	*70-130*			02/26/14		
Blank Spike (A402390-BS1)												
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		108	70-130			02/26/14		
1,1,1-Trichloroethane	11	0.50	ug/L	10		106	70-130			02/26/14		
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		107	70-130			02/26/14		
1,1,2-Trichloro-1,2,2-trifluoroethane	11	10	ug/L	10		106	70-130			02/26/14		
1,1,2-Trichloroethane	11	0.50	ug/L	10		107	70-130			02/26/14		
1,1-Dichloroethane	10	0.50	ug/L	10		105	70-130			02/26/14		
1,1-Dichloroethene	10	0.50	ug/L	10		103	70-130			02/26/14		
1,1-Dichloropropene	11	0.50	ug/L	10		108	70-130			02/26/14		
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		103	70-130			02/26/14		
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
1,2-Dichlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,2-Dichloroethane	10	0.50	ug/L	10		101	70-130			02/26/14		
1,2-Dichloropropane	10	0.50	ug/L	10		105	70-130			02/26/14		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,3-Dichlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,3-Dichloropropane	11	0.50	ug/L	10		108	70-130			02/26/14		
1,4-Dichlorobenzene	11	0.50	ug/L	10		105	70-130			02/26/14		
2,2-Dichloropropane	11	0.50	ug/L	10		108	70-130			02/26/14		
2-Butanone	14	5.0	ug/L	10		139	70-130			02/26/14	BS	***High***
2-Chlorotoluene	10	0.50	ug/L	10		104	70-130			02/26/14		
2-Hexanone	12	10	ug/L	10		115	70-130			02/26/14		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402390 Prepared: 02/26/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A402390-BS1)												
4-Chlorotoluene	11	0.50	ug/L	10		106	70-130			02/26/14		
4-Methyl-2-pentanone	12	5.0	ug/L	10		119	70-130			02/26/14		
Acetone	22	10	ug/L	10		221	70-130			02/26/14	BS	***High***
Benzene	10	0.50	ug/L	10		101	70-130			02/26/14		
Bromobenzene	11	0.50	ug/L	10		107	70-130			02/26/14		
Bromochloromethane	10	0.50	ug/L	10		104	70-130			02/26/14		
Bromodichloromethane	8.5	0.50	ug/L	10		85	70-130			02/26/14		
Bromoform	11	0.50	ug/L	10		115	70-130			02/26/14		
Bromomethane	9.5	0.50	ug/L	10		95	70-130			02/26/14		
Carbon Tetrachloride	11	0.50	ug/L	10		110	70-130			02/26/14		
Chlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
Chloroethane	10	0.50	ug/L	10		100	70-130			02/26/14		
Chloroform	10	0.50	ug/L	10		102	70-130			02/26/14		
Chloromethane	9.6	0.50	ug/L	10		96	70-130			02/26/14		
cis-1,2-Dichloroethene	10	0.50	ug/L	10		104	70-130			02/26/14		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		109	70-130			02/26/14		
Dibromochloromethane	9.8	0.50	ug/L	10		98	70-130			02/26/14		
Dibromomethane	11	0.50	ug/L	10		114	70-130			02/26/14		
Dichlorodifluoromethane	9.9	0.50	ug/L	10		99	70-130			02/26/14		
Dichloromethane	11	0.50	ug/L	10		106	70-130			02/26/14		
Di-isopropyl ether (DIPE)	11	3.0	ug/L	10		107	70-130			02/26/14		
Ethyl tert-Butyl Ether (ETBE)	11	0.50	ug/L	10		111	70-130			02/26/14		
Ethylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
Hexachlorobutadiene	10	0.50	ug/L	10		104	70-130			02/26/14		
Isopropylbenzene	10	0.50	ug/L	10		103	70-130			02/26/14		
m,p-Xylenes	19	0.50	ug/L	20		96	70-130			02/26/14		
Methyl-t-butyl ether	22	0.50	ug/L	20		108	70-130			02/26/14		
Naphthalene	11	0.50	ug/L	10		109	70-130			02/26/14		
n-Butylbenzene	10	0.50	ug/L	10		103	70-130			02/26/14		
n-Propylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
o-Xylene	10	0.50	ug/L	10		104	70-130			02/26/14		
p-Isopropyltoluene	11	0.50	ug/L	10		106	70-130			02/26/14		
sec-Butylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
Styrene	13	0.50	ug/L	10		129	70-130			02/26/14		
tert-Amyl Methyl Ether (TAME)	11	3.0	ug/L	10		111	70-130			02/26/14		
tert-Butyl alcohol (TBA)	11	2.0	ug/L	10		107	70-130			02/26/14		
tert-Butylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
Tetrachloroethene (PCE)	10	0.50	ug/L	10		104	70-130			02/26/14		
Toluene	11	0.50	ug/L	10		106	70-130			02/26/14		
trans-1,2-Dichloroethene	10	0.50	ug/L	10		105	70-130			02/26/14		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		109	70-130			02/26/14		
Trichloroethene (TCE)	9.4	0.50	ug/L	10		94	70-130			02/26/14		
Trichlorofluoromethane	11	5.0	ug/L	10		107	70-130			02/26/14		
Vinyl Chloride	9.9	0.50	ug/L	10		99	70-130			02/26/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*100*	*70-130*			02/26/14		
Surrogate: Bromofluorobenzene	*50*			*50*		*100*	*70-130*			02/26/14		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402390 Prepared: 02/26/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A402390-BSD1)												
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		109	70-130	1	30	02/26/14		
1,1,1-Trichloroethane	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		109	70-130	2	30	02/26/14		
1,1,2-Trichloro-1,2,2-trifluoroethane	11	10	ug/L	10		110	70-130	3	30	02/26/14		
1,1,2-Trichloroethane	11	0.50	ug/L	10		108	70-130	2	30	02/26/14		
1,1-Dichloroethane	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
1,1-Dichloroethene	11	0.50	ug/L	10		108	70-130	5	30	02/26/14		
1,1-Dichloropropene	11	0.50	ug/L	10		110	70-130	1	30	02/26/14		
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		105	70-130	2	30	02/26/14		
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		108	70-130	2	30	02/26/14		
1,2,4-Trimethylbenzene	11	0.50	ug/L	10		110	70-130	6	30	02/26/14		
1,2-Dichlorobenzene	11	0.50	ug/L	10		106	70-130	0	30	02/26/14		
1,2-Dichloroethane	11	0.50	ug/L	10		107	70-130	6	30	02/26/14		
1,2-Dichloropropane	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		111	70-130	5	30	02/26/14		
1,3-Dichlorobenzene	11	0.50	ug/L	10		107	70-130	1	30	02/26/14		
1,3-Dichloropropane	11	0.50	ug/L	10		109	70-130	1	30	02/26/14		
1,4-Dichlorobenzene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
2,2-Dichloropropane	11	0.50	ug/L	10		112	70-130	4	30	02/26/14		
2-Butanone	14	5.0	ug/L	10		139	70-130	0	30	02/26/14	BS	***High***
2-Chlorotoluene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
2-Hexanone	12	10	ug/L	10		115	70-130	0	30	02/26/14		
4-Chlorotoluene	11	0.50	ug/L	10		110	70-130	4	30	02/26/14		
4-Methyl-2-pentanone	11	5.0	ug/L	10		114	70-130	4	30	02/26/14		
Acetone	22	10	ug/L	10		221	70-130	0	30	02/26/14	BS	***High***
Benzene	10	0.50	ug/L	10		104	70-130	3	30	02/26/14		
Bromobenzene	11	0.50	ug/L	10		109	70-130	2	30	02/26/14		
Bromochloromethane	10	0.50	ug/L	10		104	70-130	0	30	02/26/14		
Bromodichloromethane	9.8	0.50	ug/L	10		98	70-130	14	30	02/26/14		
Bromoform	11	0.50	ug/L	10		115	70-130	0	30	02/26/14		
Bromomethane	9.4	0.50	ug/L	10		94	70-130	1	30	02/26/14		
Carbon Tetrachloride	11	0.50	ug/L	10		108	70-130	2	30	02/26/14		
Chlorobenzene	11	0.50	ug/L	10		110	70-130	3	30	02/26/14		
Chloroethane	10	0.50	ug/L	10		100	70-130	0	30	02/26/14		
Chloroform	11	0.50	ug/L	10		105	70-130	3	30	02/26/14		
Chloromethane	9.1	0.50	ug/L	10		91	70-130	6	30	02/26/14		
cis-1,2-Dichloroethene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		112	70-130	2	30	02/26/14		
Dibromochloromethane	9.8	0.50	ug/L	10		98	70-130	0	30	02/26/14		
Dibromomethane	10	0.50	ug/L	10		101	70-130	12	30	02/26/14		
Dichlorodifluoromethane	10	0.50	ug/L	10		104	70-130	5	30	02/26/14		
Dichloromethane	11	0.50	ug/L	10		108	70-130	1	30	02/26/14		
Di-isopropyl ether (DIPE)	11	3.0	ug/L	10		110	70-130	2	30	02/26/14		
Ethyl tert-Butyl Ether (ETBE)	11	0.50	ug/L	10		112	70-130	1	30	02/26/14		
Ethylbenzene	11	0.50	ug/L	10		108	70-130	4	30	02/26/14		
Hexachlorobutadiene	11	0.50	ug/L	10		108	70-130	4	30	02/26/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 524.2 - Quality Control												
Batch: A402390										Prepared: 02/26/2014		
Prep Method: EPA 524.2										Analyst: JGB		
Blank Spike Dup (A402390-BSD1)												
Isopropylbenzene	11	0.50	ug/L	10		107	70-130	4	30	02/26/14		
m,p-Xylenes	20	0.50	ug/L	20		99	70-130	4	30	02/26/14		
Methyl-t-butyl ether	22	0.50	ug/L	20		109	70-130	1	30	02/26/14		
Naphthalene	11	0.50	ug/L	10		111	70-130	2	30	02/26/14		
n-Butylbenzene	11	0.50	ug/L	10		107	70-130	4	30	02/26/14		
n-Propylbenzene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
o-Xylene	11	0.50	ug/L	10		106	70-130	2	30	02/26/14		
p-Isopropyltoluene	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
sec-Butylbenzene	11	0.50	ug/L	10		107	70-130	3	30	02/26/14		
Styrene	14	0.50	ug/L	10		140	70-130	9	30	02/26/14	BS	***High***
tert-Amyl Methyl Ether (TAME)	11	3.0	ug/L	10		115	70-130	4	30	02/26/14		
tert-Butyl alcohol (TBA)	10	2.0	ug/L	10		105	70-130	2	30	02/26/14		
tert-Butylbenzene	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
Tetrachloroethene (PCE)	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
Toluene	11	0.50	ug/L	10		110	70-130	4	30	02/26/14		
trans-1,2-Dichloroethene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		112	70-130	2	30	02/26/14		
Trichloroethene (TCE)	11	0.50	ug/L	10		108	70-130	14	30	02/26/14		
Trichlorofluoromethane	11	5.0	ug/L	10		109	70-130	2	30	02/26/14		
Vinyl Chloride	10	0.50	ug/L	10		104	70-130	4	30	02/26/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*100*	*70-130*			02/26/14		
Surrogate: Bromofluorobenzene	*50*			*50*		*101*	*70-130*			02/26/14		
EPA 525.2 - Quality Control												
Batch: A402368										Prepared: 02/25/2014		
Prep Method: EPA 525.2										Analyst: KHH		
Blank (A402368-BLK1)												
Alachlor	ND	1.0	ug/L							02/26/14		
Atrazine	ND	0.50	ug/L							02/26/14		
Benzo(a)pyrene	ND	0.10	ug/L							02/26/14		
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							02/26/14		
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							02/26/14		
Bromacil	ND	10	ug/L							02/26/14		
Butachlor	ND	0.38	ug/L							02/26/14		
Diazinon	ND	0.25	ug/L							02/26/14		
Dimethoate	ND	10	ug/L							02/26/14		
Metolachlor	ND	0.50	ug/L							02/26/14		
Metribuzin	ND	0.50	ug/L							02/26/14		
Molinate	ND	2.0	ug/L							02/26/14		
Propachlor	ND	0.50	ug/L							02/26/14		
Simazine	ND	1.0	ug/L							02/26/14		
Thiobencarb	ND	1.0	ug/L							02/26/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*6.0*			*5.0*		*119*	*70-130*			02/26/14		
Blank Spike (A402368-BS1)												

Organics Quality Control Report

EPA 525.2 - Quality Control

Batch: A402368 Prepared: 02/25/2014

Prep Method: EPA 525.2 Analyst: KHH

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A402368-BS1)												
Alachlor	0.60	1.0	ug/L	0.50		119	70-130			02/26/14		
Atrazine	0.55	0.50	ug/L	0.50		111	70-130			02/26/14		
Benzo(a)pyrene	0.12	0.10	ug/L	0.10		119	70-130			02/26/14		
Bis(2-ethylhexyl) adipate	3.6	3.0	ug/L	3.0		120	70-130			02/26/14		
Bis(2-ethylhexyl) phthalate	4.3	3.0	ug/L	3.0		142	70-130			02/26/14	BS	***High***
Bromacil	2.6	10	ug/L	2.0		132	70-130			02/26/14	BS	***High***
Butachlor	1.4	0.38	ug/L	1.2		110	70-130			02/26/14		
Diazinon	0.038	0.25	ug/L	0.050		76	70-130			02/26/14		
Dimethoate	0.35	10	ug/L	0.50		71	70-130			02/26/14		
Metolachlor	3.3	0.50	ug/L	2.5		131	70-130			02/26/14	BS	***High***
Metribuzin	3.0	0.50	ug/L	2.5		120	70-130			02/26/14		
Molinate	2.9	2.0	ug/L	2.5		117	70-130			02/26/14		
Propachlor	2.9	0.50	ug/L	2.5		117	70-130			02/26/14		
Simazine	0.40	1.0	ug/L	0.35		116	70-130			02/26/14		
Thiobencarb	0.59	1.0	ug/L	0.50		119	70-130			02/26/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.5*			*5.0*		*109*	*70-130*			02/26/14		
Blank Spike Dup (A402368-BSD1)												
Alachlor	0.58	1.0	ug/L	0.49		118	70-130	3	30	02/26/14		
Atrazine	0.53	0.50	ug/L	0.49		107	70-130	5	30	02/26/14		
Benzo(a)pyrene	0.11	0.10	ug/L	0.098		116	70-130	4	30	02/26/14		
Bis(2-ethylhexyl) adipate	3.6	3.0	ug/L	2.9		122	70-130	0	30	02/26/14		
Bis(2-ethylhexyl) phthalate	4.1	3.0	ug/L	2.9		140	70-130	3	30	02/26/14	BS	***High***
Bromacil	2.6	10	ug/L	2.0		132	70-130	2	30	02/26/14	BS	***High***
Butachlor	1.4	0.38	ug/L	1.2		111	70-130	1	30	02/26/14		
Diazinon	0.040	0.25	ug/L	0.049		82	70-130	6	30	02/26/14		
Dimethoate	0.34	10	ug/L	0.49		70	70-130	3	30	02/26/14		
Metolachlor	3.2	0.50	ug/L	2.5		132	70-130	1	30	02/26/14	BS	***High***
Metribuzin	3.0	0.50	ug/L	2.5		121	70-130	1	30	02/26/14		
Molinate	2.7	2.0	ug/L	2.5		109	70-130	9	30	02/26/14		
Propachlor	2.7	0.50	ug/L	2.5		109	70-130	8	30	02/26/14		
Simazine	0.37	1.0	ug/L	0.34		108	70-130	9	30	02/26/14		
Thiobencarb	0.57	1.0	ug/L	0.49		116	70-130	3	30	02/26/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*4.9*		*101*	*70-130*			02/26/14		
Matrix Spike (A402368-MS1), Source: A4B1490-02												
Alachlor	0.54	1.0	ug/L	0.49	ND	110	70-130			02/26/14		
Atrazine	0.52	0.50	ug/L	0.49	ND	105	70-130			02/26/14		
Benzo(a)pyrene	0.13	0.10	ug/L	0.099	ND	134	70-130			02/26/14	MS1.0	***High***
Bis(2-ethylhexyl) adipate	3.7	3.0	ug/L	3.0	ND	124	70-130			02/26/14		
Bis(2-ethylhexyl) phthalate	4.4	3.0	ug/L	3.0	ND	129	70-130			02/26/14		
Bromacil	2.5	10	ug/L	2.0	ND	126	70-130			02/26/14		
Butachlor	1.3	0.38	ug/L	1.2	ND	106	70-130			02/26/14		
Diazinon	0.056	0.25	ug/L	0.049	ND	114	70-130			02/26/14		
Dimethoate	0.32	10	ug/L	0.49	ND	64	70-130			02/26/14	MS1.0	***Low***
Metolachlor	2.9	0.50	ug/L	2.5	ND	119	70-130			02/26/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A402368										Prepared: 02/25/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Matrix Spike (A402368-MS1), Source: A4B1490-02											
Metribuzin	2.6	0.50	ug/L	2.5	ND	104	70-130			02/26/14	
Molinate	2.7	2.0	ug/L	2.5	ND	110	70-130			02/26/14	
Propachlor	2.6	0.50	ug/L	2.5	ND	107	70-130			02/26/14	
Simazine	0.38	1.0	ug/L	0.35	ND	109	70-130			02/26/14	
Thiobencarb	0.57	1.0	ug/L	0.49	ND	116	70-130			02/26/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.2*			*4.9*		*106*	*70-130*			02/26/14	
EPA 531.1 - Quality Control											
Batch: A402388										Prepared: 02/25/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A402388-BLK1)											
3-Hydroxycarbofuran	ND	2.0	ug/L							02/25/14	
Aldicarb	ND	2.0	ug/L							02/25/14	
Aldicarb Sulfone	ND	2.0	ug/L							02/25/14	
Aldicarb Sulfoxide	ND	2.0	ug/L							02/25/14	
Carbaryl	ND	2.0	ug/L							02/25/14	
Carbofuran	ND	2.0	ug/L							02/25/14	
Methomyl	ND	2.0	ug/L							02/25/14	
Oxamyl	ND	2.0	ug/L							02/25/14	
Blank Spike (A402388-BS1)											
3-Hydroxycarbofuran	4.2	2.0	ug/L	4.0		105	80-120			02/25/14	
Aldicarb	4.1	2.0	ug/L	4.0		103	80-120			02/25/14	
Aldicarb Sulfone	4.1	2.0	ug/L	4.0		103	80-120			02/25/14	
Aldicarb Sulfoxide	4.1	2.0	ug/L	4.0		104	80-120			02/25/14	
Carbaryl	4.2	2.0	ug/L	4.0		104	80-120			02/25/14	
Carbofuran	4.1	2.0	ug/L	4.0		102	80-120			02/25/14	
Methomyl	4.1	2.0	ug/L	4.0		103	80-120			02/25/14	
Oxamyl	4.1	2.0	ug/L	4.0		102	80-120			02/25/14	
Blank Spike Dup (A402388-BSD1)											
3-Hydroxycarbofuran	4.1	2.0	ug/L	4.0		103	80-120	1	20	02/26/14	
Aldicarb	4.1	2.0	ug/L	4.0		102	80-120	1	20	02/26/14	
Aldicarb Sulfone	4.2	2.0	ug/L	4.0		106	80-120	3	20	02/26/14	
Aldicarb Sulfoxide	4.2	2.0	ug/L	4.0		105	80-120	1	20	02/26/14	
Carbaryl	4.1	2.0	ug/L	4.0		101	80-120	3	20	02/26/14	
Carbofuran	4.1	2.0	ug/L	4.0		103	80-120	2	20	02/26/14	
Methomyl	4.3	2.0	ug/L	4.0		109	80-120	5	20	02/26/14	
Oxamyl	4.2	2.0	ug/L	4.0		104	80-120	2	20	02/26/14	
Matrix Spike (A402388-MS1), Source: A4B1177-01											
3-Hydroxycarbofuran	3.3	2.0	ug/L	4.0	ND	82	65-135			02/26/14	
Aldicarb	3.1	2.0	ug/L	4.0	ND	72	65-135			02/26/14	
Aldicarb Sulfone	3.5	2.0	ug/L	4.0	ND	79	65-135			02/26/14	
Aldicarb Sulfoxide	3.5	2.0	ug/L	4.0	ND	87	65-135			02/26/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A402388										Prepared: 02/25/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Matrix Spike (A402388-MS1), Source: A4B1177-01											
Carbaryl	10	2.0	ug/L	4.0	8.8	31	65-135			02/26/14	MS1.0 ***Low***
Carbofuran	3.3	2.0	ug/L	4.0	ND	83	65-135			02/26/14	
Methomyl	3.5	2.0	ug/L	4.0	ND	87	65-135			02/26/14	
Oxamyl	3.3	2.0	ug/L	4.0	ND	84	65-135			02/26/14	
EPA 547 - Quality Control											
Batch: A402555										Prepared: 03/01/2014	
Prep Method: EPA 547										Analyst: RJB	
Blank (A402555-BLK1)											
Glyphosate	ND	25	ug/L							03/01/14	
Surrogate: AMPA	*95*			*100*		*95*	*70-130*			03/01/14	
Blank Spike (A402555-BS1)											
Glyphosate	100	25	ug/L	100		103	70-130			03/01/14	
Surrogate: AMPA	*100*			*100*		*102*	*70-130*			03/01/14	
Blank Spike Dup (A402555-BSD1)											
Glyphosate	120	25	ug/L	100		116	70-130	12	30	03/01/14	
Surrogate: AMPA	*97*			*100*		*97*	*70-130*			03/01/14	
Matrix Spike (A402555-MS1), Source: A4B1780-01											
Glyphosate	97	25	ug/L	100	ND	95	70-130			03/01/14	
Surrogate: AMPA	*89*			*100*		*87*	*70-130*			03/01/14	
Matrix Spike Dup (A402555-MSD1), Source: A4B1780-01											
Glyphosate	93	25	ug/L	100	ND	91	70-130	4	30	03/01/14	
Surrogate: AMPA	*86*			*100*		*84*	*70-130*			03/01/14	
EPA 548.1 - Quality Control											
Batch: A402387										Prepared: 02/25/2014	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A402387-BLK1)											
Endothall	ND	45	ug/L							02/26/14	
Blank Spike (A402387-BS1)											
Endothall	17	45	ug/L	20		83	60-111			02/26/14	
Blank Spike Dup (A402387-BSD1)											
Endothall	15	45	ug/L	20		73	60-111	13	46	02/26/14	
Matrix Spike (A402387-MS1), Source: A4B1489-04											
Endothall	4.3	45	ug/L	20	ND	22	10-122			02/26/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 549.2 - Quality Control											
Batch: A402367										Prepared: 02/25/2014	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A402367-BLK1)											
Diquat	ND	4.0	ug/L							02/28/14	
Blank Spike (A402367-BS1)											
Diquat	3.0	4.0	ug/L	4.0		76	70-130			02/28/14	
Blank Spike Dup (A402367-BSD1)											
Diquat	2.9	4.0	ug/L	4.0		72	70-130	6	30	02/28/14	
Matrix Spike (A402367-MS1), Source: A4B1780-01											
Diquat	2.2	4.0	ug/L	4.0	ND	54	70-130			02/28/14	MS1.0 ***Low***

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of Oregon - NELAP	4021	State of Washington	C997
State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA

BSK is not accredited under the NELAC program for the following parameters:

A4B1781

Monterey Bay Analytical

Monte6227

02252014

Turnaround: Standard

Due Date: 03/04/2014

Printed: 02/25/2014 12:07:10

A4B1781 02/25/2014
Monte6227 5

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street, Fresno, CA 93706-1623
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

* Required Fields

TEMP: 3.1

Client/Company Name *:	Report Attention *:	Phone * #: (831)-357-6227 FAX * #: (831)-641-0734
Monterey Bay Analytical	David Holland	E-mail: 4MBAS@Sbcglobal.net

Address *: 4 Justin Ct. City *: Monterey State *: CA Zip *: 93940

Project Information: Cal Am
PO #
Quote #: 464

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: Nathan Reynolds
QC Request: ☑ STD ☐ Level II
Result Request ** Surcharge: ☐ STD ☑ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance
Electronic Data Transfer: Y ☐ N ☑
System No. *

ANALYSIS REQUESTED

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 504	EPA 515	EPA 524 inc MTBE	EPA 525	EPA 531	EPA 547	EPA 548	EPA 549
1		2/22	14:45	CX-BIWQ Zone #4 (134-144 ft bgs)	RGW	12029	✓	✓	✓	✓	✓	✓	✓	✓
				5 day TAT please										
				Conductivity 36,000 uS/cm										

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
David Holland	MBAS	2/24	1600		

Received for Lab by: (Signature and Printed Name)	Date	Time	Payment Received at Delivery:
John Hen	2/25/14	9:30	Date: Amount: Check/Cash/Card PIA # Init.

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material: BW

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/re-billing charges and interest calculated at 1 1/2 % per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorneys' fees incurred prior to or in litigation whether concluded by judgement, settlement, compromise or otherwise. The person signing for the client/Company expressley acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis requested, either type or quantities, will be noted and agreed upon this Chain of Custody. The turn around time for any samples received after 3:00 pm will begin the next business day.

SR-FL-0012-00 (Analytical)

BSK Associates SR-FL-0002-09

Sample Integrity

BSK Bottles: (Yes) No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C 3.1	(Yes) No NA	Were correct containers and preservatives received for the tests requested?	(Yes) No NA	
If samples were taken today, is there evidence that chilling has begun? v-cl	Yes No (NA)	Were there bubbles in the VOA vials? (Volatiles Only)	Yes (No) NA	
Did all bottles arrive unbroken and intact?	(Yes) No	Was a sufficient amount of sample received?	(Yes) No	
Did all bottle labels agree with COC?	(Yes) No	Do samples have a hold time <72 hours?	Yes (No)	
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No (NA)	Was PM notified of discrepancies? PM: By/Time:	Yes No (NA)	

Bottles Received — "—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1					
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—						
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—						
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—			JH			
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—			2/25/14			
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	3A, 2C					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	7V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	(Y) N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: MM @ 1020 Labels checked by: G-203 @ 1154 RUSH Paged by:

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

March 3, 2014 Ceres ID: 10266

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on February 25, 2014. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613. **Rush** 5 day turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # 12029.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (888)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
10266-001	CX-B1WQ Zone #4 (134-144ft bags)	2/25/2014	2/22/2014	14:45

Section II: Data Summary

Sample ID:	**Method Blank**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-MB001 — Date Received: NA
Project:	12029	Sample Size: 1.000 L	QC Batch #: 1158 — Date Extracted: 28-Feb-14
Date Collected:	NA		ZB-5 MS Analysis Date: 1-Mar-14
Time Collected:	NA		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	2.15		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	103	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	109	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Sample ID:	**Ongoing Precision and Recovery**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-OPR001
Project:	12029	Sample Size: 1.000 L	QC Batch #: 1158
Date Collected:	NA		ZB-5 MS Analysis Date: 1-Mar-14
Time Collected:	NA		

Date Received:	NA
Date Extracted:	28-Feb-14

Analyte	Conc. (ng/ml)	Limits [a]	Qualifiers
2,3,7,8-TCDD	9.90	7.3-14.6	

	Labeled Standards	Conc.	Limits [a]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	98.3	25-141	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	10.1	3.7-15.8	

a. Method acceptance criteria .

Analyst: JMH

Reviewed by: BS

Sample ID:	CX-B1WQ Zone #4 (134-144ft bags)				
Client Data		**Sample Data**		**Laboratory Data**	
Name:	Monterey Bay Analytical	Matrix:	Aqueous	Lab Sample ID: 10266-001	Date Received: 25-Feb-14
Project:	12029	Sample Size:	1.052 L	QC Batch #: 1158	Date Extracted: 28-Feb-14
Date Collected:	22-Feb-14			ZB-5 MS Analysis Date: 1-Mar-14	
Time Collected:	14:45				

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	1.89		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	97.1	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	107	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Ceres Project ID: 10266
Temperature: 1.4 °C

Pg Appendix G

Reports and invoices will be delivered by email in .pdf format

Client Information	Invoice Information (if different from Client Info)	Project Information
Company Name: Monterey Bay Analytical	Company Name: Same	Ceres Quote #:
Contact Name: David Holland	Contact Name:	P.O. #
Address: 4 Justin Court Ste D Monterey CA 93940	Address:	Project ID:
Ph: 831-375-6227	Ph: Fx:	**TAT** (business days)
Email: montereybayanalytical@usa.net	Email:	Std 15 days; Rush TAT available please call

Matrix abreviations:

A: Aqueous	S: Soil	AS: Ash	DW: Drinking Water
E: Effluent	SD: Sediment	C: Clay	SO: Solid
I: Influent	SL: Sludge	CS: Clay Slurry	O: Other (please comment)

TEF: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Sample Collection Date	Sample Collection Time	Matrix	# of containers	EPA 1613	EPA 8290	NCASI 551	EPA 8280	EPA 613	Other	Comments
1	CX-B1WQ Zone #4 (134-144ft bags)	2/22/2014	14:45	Aq	2	X						12029
2												(2,3,7,8 TCDD only)
3												5 day Rush Please
4												
5												
6												
7												
8												
9												
10												
11												
12												

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

Relinquished by: *(Signature and Printed Name)*	Date	Time	Received by: *(signature and Printed Name)*	Date	Time
David Holland	2/24/2014	16:00	J M Hodin	2/25/14	10:55

Client understands that all terms desribed in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.

Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

Ceres ID: 10266	Date/Time: 2/25/14 10:55
Client Project ID: 12029	Received Temperature: 1.4°C Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present? no Residual Cl	Y / N / NA
List COC discrepancies: 2/25/14	
List Damaged Samples: 2/25/14	

Ceres Analytical Laboratory

Process Request

Ceres ID: 18266 PB: 1158 Sample #s: 1 Due Date: 2/3/14

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash

Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (check one):

- ☐ 1613 2,3,7,8-TCDD
- ☐ 1613 2,3,7,8-TCDD/F
- ☐ 1613 Cl_4-Cl_8
- ☐ 8280 2,3,7,8-TCDD
- ☐ 8280 2,3,7,8-TCDD/F
- ☐ 8280 Appendix IX
- ☐ 8280 Cl_4-Cl_8
- ☐ 8290 2,3,7,8-TCDD
- ☐ 8290 2,3,7,8-TCDD/F
- ☐ 8290 Cl_4-Cl_8
- ☐ NCASI 551

Instructions:

Sample Volume Calculation

Instructions:
1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$Sample\ Volume = (Sample + Bottle\ Wt) - Empty\ Bottle\ Wt.$$

Ceres ID	Sample +Bottle Wt.	Empty Bottle Wt.	Sample Volume
10266-1	1559.02	507.35	1.0522

Chemist: [signature] Date: 2/28/14

Method: 1613
SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Appendix G

Ceres ID	Client ID	Ver.	wt/vol	ISS/PAR chem/date/witness	CSS chem/date/witness	AP	AB/AC	FC	RSS chem/date/witness
0-1158-MB001	Method Blank		1.000L	2/28/14	3/1/14	NA	3/1/14	NA	3/1/14
0-1158-OPR001	OPR		1.000L	(A)					
10266-1158-001	CX-B1WQ Zone #4	✓	1.052L						

Comments: (A) Spiked w/NSS

Soxhlet Start: 14:30 2/28/14

Soxhlet Stop: 06:33 3/1/14

Samples Logged out by: 2/28/14 11:00

Samples Returned by: NA

Note samples Depleted: 1A

Sample Extracts Storage Location: Box 8

Extracts to Intrument: 11:00 3/1/14

Extracts returned to Storage Location: 08:00 3/3/14

Form M1.0 rev4

Chemist: G-215

Effective Date: 7/12/13

Method: 1613
SOP #: 3011

Ceres Analytical Laboratory
Sample Prep Bench Sheet

Standard	Standard ID	Vol.	Expiration Date
ISS	S031212A	10ml	3/12/14
NSS	S031212B	10ml	3/12/14
CSS	S031212C	10ml	3/12/14
RSS	S031212D	20ml	3/12/17

Solvents/Solutions/Packing Materials

Name	Amount	Lot #	Exp. Date
Toluene	450ml	PB005A0TOL	8/17/14
Hexane	30,30,100,20	136735	6/10/14
Si Gel	4g	P028514A	8/5/14
Basic Gel	4g	P012014A	7/20/14
Acid Gel	8g	P012014B	7/20/14
Acid Al	6g	P020414A	8/4/14
Na_2SO_4	1.5g	P120413A	6/4/14
20% DCM Hex	30ml	L021914A	8/19/14

Chemist : G-216

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

CERTIFICATE OF ANALYSIS

Client:	Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940	**Report Date:**	03/04/14 21:16
		Received Date:	02/25/14 09:40
		Turn Around:	5 workdays
Attention:	David Holland	**Client Project:**	Cal Am
Phone:	(831) 375-6227		
Fax:	(831) 641-0734		
Work Order(s):	4B25019		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

Enclosed are the results of analyses for samples received 02/25/14 09:40 with the Chain of Custody document. The samples were received in good condition, at 4.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CX-B1WQ Zone #4 (134-144 ft bgs)	Nathan Reynolds	12029	4B25019-01	Water	02/22/14 14:45

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Chlorinated Pesticides and/or PCBs

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

www.wecklabs.com

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:16

4B25019-01 **CX-B1WQ Zone #4 (134-144 ft bgs)**

Sampled: 02/22/14 14:45 **Sampled By:** Nathan Reynolds **Matrix:** Water

Sample Note: 12029

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 9056A Batch: W4C0014 Prepared: 03/01/14 11:00 Analyst: atl

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Iodide	ND	10	250	ug/l	25	03/01/14 18:00	M-05

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4B1139 Prepared: 02/26/14 08:25 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND		0.010	ug/l	1	02/28/14 22:17	
4,4´-DDE	ND		0.010	ug/l	1	02/28/14 22:17	
4,4´-DDT	ND		0.010	ug/l	1	02/28/14 22:17	
Aldrin	ND		0.010	ug/l	1	02/28/14 22:17	
alpha-BHC	ND		0.010	ug/l	1	02/28/14 22:17	
Aroclor 1016	ND		0.10	ug/l	1	02/28/14 22:17	
Aroclor 1221	ND		0.10	ug/l	1	02/28/14 22:17	
Aroclor 1232	ND		0.10	ug/l	1	02/28/14 22:17	
Aroclor 1242	ND		0.10	ug/l	1	02/28/14 22:17	
Aroclor 1248	ND		0.10	ug/l	1	02/28/14 22:17	
Aroclor 1254	ND		0.10	ug/l	1	02/28/14 22:17	
Aroclor 1260	ND		0.10	ug/l	1	02/28/14 22:17	
beta-BHC	ND		0.010	ug/l	1	02/28/14 22:17	
Chlordane (tech)	ND		0.10	ug/l	1	02/28/14 22:17	
Chlorothalonil	ND		0.050	ug/l	1	02/28/14 22:17	
delta-BHC	ND		0.010	ug/l	1	02/28/14 22:17	
Dieldrin	ND		0.010	ug/l	1	02/28/14 22:17	
Endosulfan I	ND		0.010	ug/l	1	02/28/14 22:17	
Endosulfan II	ND		0.010	ug/l	1	02/28/14 22:17	
Endosulfan sulfate	ND		0.010	ug/l	1	02/28/14 22:17	
Endrin	ND		0.010	ug/l	1	02/28/14 22:17	
Endrin aldehyde	ND		0.010	ug/l	1	02/28/14 22:17	
gamma-BHC (Lindane)	ND		0.010	ug/l	1	02/28/14 22:17	
Heptachlor	ND		0.010	ug/l	1	02/28/14 22:17	
Heptachlor epoxide	ND		0.010	ug/l	1	02/28/14 22:17	
Hexachlorobenzene	ND		0.010	ug/l	1	02/28/14 22:17	
Hexachlorocyclopentadiene	ND		0.050	ug/l	1	02/28/14 22:17	
Methoxychlor	ND		0.010	ug/l	1	02/28/14 22:17	
PCBs, Total	ND		0.50	ug/l	1	02/28/14 22:17	
Propachlor	ND		0.050	ug/l	1	02/28/14 22:17	
Toxaphene	ND		1.0	ug/l	1	02/28/14 22:17	
Trifluralin	ND		0.010	ug/l	1	02/28/14 22:17	
Surr: Decachlorobiphenyl	*72 %*	Conc:*0.0690*	*70-130*	%			
Surr: Tetrachloro-meta-xylene	*79 %*	Conc:*0.0752*	*70-130*	%			

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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:16

4B25019-01 **CX-B1WQ Zone #4 (134-144 ft bgs)**

Sampled: 02/22/14 14:45 **Sampled By:** Nathan Reynolds **Matrix:** Water

Sample Note: 12029

Chlorinated Pesticides and/or PCBs

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QUALITY CONTROL SECTION

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Date Received: 02/25/14 09:40
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Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4C0014 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0014-BLK1)				Analyzed: 03/01/14 18:00						
Iodide	ND	10	ug/l							
LCS (W4C0014-BS1)				Analyzed: 03/01/14 18:00						
Iodide	45.0	10	ug/l	40.0		113	85-115			
Matrix Spike (W4C0014-MS1)	**Source: 4B25020-01**			Analyzed: 03/01/14 18:00						
Iodide	836	250	ug/l	1000	161	68	80-120			MS-01
Matrix Spike Dup (W4C0014-MSD1)	**Source: 4B25020-01**			Analyzed: 03/01/14 18:00						
Iodide	984	250	ug/l	1000	161	82	80-120	16	20	

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B1139 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B1139-BLK1)				Analyzed: 02/28/14 16:10						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							

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Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B1139 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B1139-BLK1)				Analyzed: 02/28/14 16:10						
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							
Surr: Decachlorobiphenyl	*0.0947*		*ug/l*	*0.100*		*95*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0904*		*ug/l*	*0.100*		*90*	*70-130*			
LCS (W4B1139-BS1)				Analyzed: 02/28/14 17:42						
4,4´-DDD	0.0801	0.010	ug/l	0.100		80	55-142			
4,4´-DDE	0.0848	0.010	ug/l	0.100		85	49-129			
4,4´-DDT	0.0979	0.010	ug/l	0.100		98	54-160			
Aldrin	0.0759	0.010	ug/l	0.100		76	29-115			
alpha-BHC	0.0802	0.010	ug/l	0.100		80	59-131			
beta-BHC	0.0789	0.010	ug/l	0.100		79	63-136			
delta-BHC	0.0881	0.010	ug/l	0.100		88	59-137			
Dieldrin	0.0832	0.010	ug/l	0.100		83	59-135			
Endosulfan I	0.0689	0.010	ug/l	0.100		69	28-138			
Endosulfan II	0.0754	0.010	ug/l	0.100		75	53-133			
Endosulfan sulfate	0.0877	0.010	ug/l	0.100		88	58-155			
Endrin	0.0585	0.010	ug/l	0.100		59	57-148			
Endrin aldehyde	0.0597	0.010	ug/l	0.100		60	45-139			
gamma-BHC (Lindane)	0.0802	0.010	ug/l	0.100		80	59-129			
Heptachlor	0.0817	0.010	ug/l	0.100		82	42-136			
Heptachlor epoxide	0.0809	0.010	ug/l	0.100		81	59-134			
Methoxychlor	0.0870	0.010	ug/l	0.100		87	56-167			
Surr: Decachlorobiphenyl	*0.0903*		*ug/l*	*0.100*		*90*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0827*		*ug/l*	*0.100*		*83*	*70-130*			
LCS Dup (W4B1139-BSD1)				Analyzed: 02/28/14 17:11						
4,4´-DDD	0.0789	0.010	ug/l	0.100		79	55-142	2	25	
4,4´-DDE	0.0850	0.010	ug/l	0.100		85	49-129	0.2	25	
4,4´-DDT	0.0947	0.010	ug/l	0.100		95	54-160	3	25	
Aldrin	0.0777	0.010	ug/l	0.100		78	29-115	2	25	
alpha-BHC	0.0813	0.010	ug/l	0.100		81	59-131	1	25	
beta-BHC	0.0799	0.010	ug/l	0.100		80	63-136	1	25	
delta-BHC	0.0883	0.010	ug/l	0.100		88	59-137	0.3	25	
Dieldrin	0.0844	0.010	ug/l	0.100		84	59-135	1	25	
Endosulfan I	0.0700	0.010	ug/l	0.100		70	28-138	2	25	
Endosulfan II	0.0756	0.010	ug/l	0.100		76	53-133	0.3	25	
Endosulfan sulfate	0.0871	0.010	ug/l	0.100		87	58-155	0.7	25	
Endrin	0.0740	0.010	ug/l	0.100		74	57-148	23	25	
Endrin aldehyde	0.0748	0.010	ug/l	0.100		75	45-139	22	25	
gamma-BHC (Lindane)	0.0813	0.010	ug/l	0.100		81	59-129	1	25	
Heptachlor	0.0828	0.010	ug/l	0.100		83	42-136	1	25	
Heptachlor epoxide	0.0816	0.010	ug/l	0.100		82	59-134	0.8	25	
Methoxychlor	0.0835	0.010	ug/l	0.100		84	56-167	4	25	
Surr: Decachlorobiphenyl	*0.172*		*ug/l*	*0.200*		*86*	*70-130*			

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Date Reported: 03/04/14 21:16

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B1139 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W4B1139-BSD1)				Analyzed: 02/28/14 17:11						
Surr: Tetrachloro-meta-xylene	*0.161*		*ug/l*	*0.200*		*81*	*70-130*			

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Date Reported: 03/04/14 21:16

Notes and Definitions

MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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http://www.MBASinc.com

pH QC Summary (SM 4500 H+)

Date Analyzed: 2/22/2014

	Value (pH Units)	Result (pH Units)	% Rec	Acceptance Criteria %Rec
IPC	6.86	6.87	100.1	95-105

Sample ID	Sample (pH Units)	Sample Dup (pH Units)	% RPD	Acceptance Criteria % RPD
AB12029	6.9	6.9	0.0	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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http://www.MBASinc.com

MBAS QC Summary (SM 5540C)

Date Analyzed: 2/23/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	0.100	0.087	87	80-120

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

300.0 QC Summary

All units expressed in mg/L

		F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
		2	20	2	20	2	2	2
IPC		1.96	19.40	2.07	19.27	2.02	1.90	1.70
Recovery	90-110%	97.88	97.02	103.50	96.34	100.94	95.24	85.13
CCV1		1.93	19.49	2.08	19.43	2.03	1.92	1.79
Recovery	90-110%	96.57	97.43	104.18	97.15	101.47	95.84	89.38
RPD	10%	1.34	0.42	0.65	0.84	0.52	0.63	4.87

		F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
		2	20	2	20	2	2	2
AB12026		0.11	70.57	0.24	35.16	0.02	7.60	0.00
AB12026+LFM		2.07	90.75	1.93	54.67	1.78	9.82	1.32
AB12026+LFMD		2.03	90.42	1.90	54.28	1.75	9.80	1.31
Average		2.05	90.59	1.91	54.48	1.76	9.81	1.31
Recovery	80-120%	96.94	100.07	83.77	96.59	87.18	110.54	65.65
RPD	10%	1.62	0.36	1.66	0.72	1.62	0.20	0.57

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http://www.MBASinc.com

Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 2/24/2014

	Value (umhos/cm)	Result (umhos/cm)	% Rec	Acceptance Criteria %Rec
IPC	1412	1412	100.0%	95-105

Sample ID	Sample (umhos/cm)	Sample Dup (umhos/cm)	% RPD	Acceptance Criteria % RPD
AB12170	2780	2782	0.1%	10
AB12203	118	118	0.0%	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 2/24/2014

	Value (NTU)	Result (NTU)	% Rec	Acceptance Criteria %Rec
IPC	1.00	1.01	101.0	95-105

Sample ID	Sample (NTU)	Sample Dup (NTU)	% RPD	Acceptance Criteria % RPD
AB12030	0.77	0.78	0.9	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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TDS/TSS QC Summary (SM 2540C/D)

Date Analyzed: 2/25/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC 100	100	106	106	80-120
IPC 500	500	500	100	90-110

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12141	186	191	2.7	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Differer

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http://www.MBASinc.com

Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 2/25/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	5.0	4.820	96.4	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB11639	29.800	5.000	34.800	35.200	100	108	1.1	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

Batch # 20140225

Analyte/		IC	Prep	LCS	%Rec	LCSD	%Rec	%Diff	IC Verification			QCS (95-105%)		
WL	Range	Blank	Blank	Value	85-115%	Value	85-115%		Value	Result	%Rec	Value	Result	%Rec
B 249.678	0.05-5ppm	0.00	0.00	1.03	103.3%	1.04	104.1%	0.7%	1	1.01	100.8%	1	0.99	99.3%
B 249.772	0.05-5ppm	0.00	0.00	1.03	102.7%	1.04	103.9%	1.2%	1	1.00	99.5%	1	0.99	99.1%
Ca 317.933	50-300ppm	-4.32	-4.33	49.6	99.3%	50.9	101.7%	2.4%	50	49.1	98.3%	50	48.7	97.4%
Ca 396.847	0.5-50ppm	-0.23	-0.24	50.1	100.3%	51.1	102.3%	2.0%	50	49.7	99.5%	50	49.5	99.1%
Cu 324.754	10ppb-100ppm	-7.83	-9.32	1008	100.8%	1031	103.1%	2.3%	1000	989	98.9%	1000	1002	100.2%
Cu 327.395	10ppb-100ppm	-3.71	-2.81	1018	101.8%	1037	103.7%	1.8%	1000	989	98.9%	1000	1005	100.5%
Fe 238.204	10ppb-100ppm	-0.01	0.65	998	99.8%	1008	100.8%	1.1%	1000	985	98.5%	1000	980	98.0%
Fe 259.940	10ppb-100ppm	-1.92	-2.32	1008	100.8%	1025	102.5%	1.6%	1000	992	99.2%	1000	995	99.5%
K 766.491	0.5-750ppm	0.06	0.04	9.9	99.2%	10.2	101.9%	2.7%	10	9.9	98.6%	10	9.9	98.9%
Mg 202.582	50-1000ppm	-1.92	-1.95	51.3	102.7%	51.9	103.8%	1.1%	50	50.1	100.3%	50	50.2	100.3%
Mg 279.078	0.5-50ppm	0.04	0.01	50.3	100.5%	50.8	101.6%	1.1%	50	49.3	98.7%	50	49.1	98.2%
Mn 257.610	10ppb-11ppm	-6.24	-6.61	1005	100.5%	1021	102.1%	1.5%	1000	988	98.8%	1000	978	97.8%
Mn 260.568	10ppb-11ppm	-6.06	-6.71	1006	100.6%	1015	101.5%	0.9%	1000	986	98.6%	1000	974	97.4%
Na 568.821	50-1000ppm	8.44	6.58	51.4	102.7%	54.1	108.1%	5.1%	50	50.7	101.3%	50	51.1	102.2%
Na 589.592	0.5-50ppm	0.11	0.04	49.9	99.9%	51.4	102.8%	2.9%	50	49.7	99.4%	50	49.6	99.1%
Si 251.611	0.5-200ppm	0.03	-0.03	51.1	102.3%	51.4	102.7%	0.4%	50	49.4	98.8%	107	105.0	98.2%
Si 252.411	0.5-200ppm	0.07	-0.01	50.9	101.8%	51.3	102.5%	0.7%	50	49.2	98.5%	107	105.0	98.1%
Zn 213.857	10ppb-50ppm	-12.44	-12.72	999	99.9%	1008	100.8%	0.9%	1000	974	97.4%	1000	967	96.7%

Matrix Spikes

Sample ID AB12040

Analyte/	Sample	MS	%Rec	MSD	%Rec	%Diff	CCV (90-110%)			%Diff	CC
WL	Value	Value	70-130%	Value	70-130%		Value	Result	%Rec	10%	Blank
B 249.678	0.09	1.12	102.9%	1.09	100.2%	2.5%	1	1.04	104.1%	3.3%	0.00
B 249.772	0.09	1.13	103.9%	1.11	101.8%	1.8%	1	1.06	105.6%	5.9%	0.00
Ca 317.933	136.6	186.1	99.0%	184.0	94.8%	1.1%	50	50.3	100.6%	2.3%	-4.35
Ca 396.847	*115.2*	*149.6*	*68.7%*	*148.1*	*65.8%*	*1.0%*	50	50.4	100.9%	1.4%	-0.25
Cu 324.754	31	1071	104.0%	1053	102.2%	1.7%	1000	1012	101.2%	2.3%	-7.80
Cu 327.395	34	1106	107.2%	1085	105.1%	1.9%	1000	1037	103.7%	4.8%	-7.04
Fe 238.204	761	1738	97.7%	1717	95.6%	1.2%	1000	1004	100.4%	1.9%	-2.79
Fe 259.940	775	1772	99.7%	1754	97.9%	1.0%	1000	1007	100.7%	1.4%	-1.97
K 766.491	3.6	13.9	103.1%	13.7	100.5%	1.9%	10	10.1	100.9%	2.2%	0.07

Mg 202.582	23.1	77.8	109.6%	76.7	107.4%	1.4%	50	52.5	105.0%	4.6%	-1.95
Mg 279.078	22.7	73.2	101.0%	72.2	99.0%	1.4%	50	50.3	100.6%	1.9%	0.01
Mn 257.610	87	1104	101.7%	1090	100.3%	1.3%	1000	1011	101.1%	2.3%	-7.07
Mn 260.568	89	1111	102.2%	1097	100.8%	1.3%	1000	1017	101.7%	3.1%	-7.40
Na 568.821	96.9	149.1	104.3%	145.2	96.5%	2.7%	50	55.1	110.2%	8.4%	6.53
Na 589.592	*90.0*	*140.9*	*101.7%*	*138.3*	*96.6%*	*1.8%*	50	51.5	103.0%	3.6%	0.44
Si 251.611	31.0	81.6	101.1%	80.6	99.0%	1.3%	50	52.4	104.8%	5.9%	-0.08
Si 252.411	30.5	79.8	98.4%	78.6	96.2%	1.4%	50	51.2	102.3%	3.8%	-0.02
Zn 213.857	22	1051	102.9%	1040	101.8%	1.0%	1000	1013	101.3%	3.9%	-16.83

MONTEREY BAY ANALYTICAL SERVICES
PRECISION • ACCURACY • DEPENDABILITY
4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 3/5/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC Low	0.050	0.043	86	90-110
IPC	0.500	0.462	92.4	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12148	0.020	0.500	0.536	0.550	103.2	106	2.6	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1402896

Report Created for: Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Project Contact: David Holland
Project P.O.:
Project Name: CalAm

Project Received: 02/26/2014

Analytical Report reviewed & approved for release on 02/28/2014 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Monterey Bay Analytical
Project: CalAm
WorkOrder: 1402896

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifier

a1	sample diluted due to matrix interference

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Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method:**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #2 (237-247 ft bgs) (dissol	**1402896-002A**	**Water/DISS.**	**02/19/2014 16:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**210**	100	20	02/27/2014 19:31
Strontium	**11,000**	400	20	02/27/2014 19:31

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #3 (182-192 ft bgs) (dissol	**1402896-004A**	**Water/DISS.**	**02/21/2014 13:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	ND	100	20	02/27/2014 14:48
Strontium	**12,000**	400	20	02/27/2014 14:48

Analytical Comments: a1

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #4 (134-144 ft bgs) (dissol	**1402896-006A**	**Water/DISS.**	**02/22/2014 14:45**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**120**	100	20	02/27/2014 19:37
Strontium	**9400**	400	20	02/27/2014 19:37

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #5 (84-94 ft bgs) (dissolve	**1402896-008A**	**Water/DISS.**	**02/23/2014 16:20**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	ND	100	20	02/27/2014 19:43
Strontium	**10,000**	400	20	02/27/2014 19:43

Analytical Comments: a1

(Cont.)

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method:**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #6 (51-61 ft bgs) (dissolve	**1402896-010A**	**Water/DISS.**	**02/25/2014 09:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**100**	100	20	02/27/2014 19:48
Strontium	**9500**	400	20	02/27/2014 19:48

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Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #2 (237-247 ft bgs)	**1402896-001A**	**Water/TOTAL**	**02/19/2014 16:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:23
Arsenic	ND	10	20	02/27/2014 15:23
Copper	ND	10	20	02/27/2014 15:23
Lithium	**120**	100	20	02/27/2014 15:23
Zinc	ND	100	20	02/27/2014 15:23

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	104	70-130		02/27/2014 15:23

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #3 (182-192 ft bgs)	**1402896-003A**	**Water/TOTAL**	**02/21/2014 13:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:28
Arsenic	ND	10	20	02/27/2014 15:28
Copper	ND	10	20	02/27/2014 15:28
Lithium	**140**	100	20	02/27/2014 15:28
Zinc	ND	100	20	02/27/2014 15:28

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	111	70-130		02/27/2014 15:28

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #4 (134-144 ft bgs)	**1402896-005A**	**Water/TOTAL**	**02/22/2014 14:45**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:34
Arsenic	ND	10	20	02/27/2014 15:34
Copper	ND	10	20	02/27/2014 15:34
Lithium	**120**	100	20	02/27/2014 15:34
Zinc	ND	100	20	02/27/2014 15:34

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	104	70-130		02/27/2014 15:34

(Cont.)

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #5 (84-94 ft bgs)	**1402896-007A**	**Water/TOTAL**	**02/23/2014 16:20**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:40
Arsenic	ND	10	20	02/27/2014 15:40
Copper	ND	10	20	02/27/2014 15:40
Lithium	**170**	100	20	02/27/2014 15:40
Zinc	ND	100	20	02/27/2014 15:40

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	109	70-130		02/27/2014 15:40

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #6 (51-61 ft bgs)	**1402896-009A**	**Water/TOTAL**	**02/25/2014 09:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:45
Arsenic	ND	10	20	02/27/2014 15:45
Copper	ND	10	20	02/27/2014 15:45
Lithium	**140**	100	20	02/27/2014 15:45
Zinc	ND	100	20	02/27/2014 15:45

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	110	70-130		02/27/2014 15:45

Quality Control Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Date Prepared:	2/26/14	**BatchID:**	87508
Date Analyzed:	2/27/14	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	CalAm	**Sample ID:**	MB/LCS-87508 1402903-004CMS/MSD

QC Summary Report for E200.8

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aluminum	ND	475.4	50	500	-	95.1	85-115
Arsenic	ND	46.74	0.50	50	-	93.5	85-115
Barium	ND	451.9	5.0	500	-	90.4	85-115
Copper	ND	48.31	0.50	50	-	96.6	85-115
Lithium	ND	47.95	5.0	50	-	95.9	85-115
Strontium	ND	496	20	500	-	99.2	85-115
Zinc	ND	489.9	5.0	500	-	98	85-115
Surrogate Recovery							
Tb 350.917	695.7	710.9		750	93	95	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aluminum	1373	1438	500	863.6	102	115	70-130	4.62	20
Arsenic	47.91	48.87	50	0.84	94.1	96.1	70-130	1.98	20
Barium	473.2	485.6	500	18	91	93.5	70-130	2.59	20
Copper	60.61	62.62	50	13.01	95.2	99.2	70-130	3.26	20
Lithium	49.57	51.07	50	ND	99.1	102	70-130	2.98	20
Strontium	532.9	553	500	36	99.4	103	70-130	3.70	20
Zinc	632.5	641.6	500	118.4	103	105	70-130	1.43	20
Surrogate Recovery									
Tb 350.917	712.5	731	750		95	97	70-130	2.56	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1402896 **ClientCode: MBAS**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
David Holland
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940
831-375-6227 FAX: 831-641-0734

Email: 4mbas@sbcglobal.net
cc:
PO:
ProjectNo: CalAm

Bill to:
Accounts Payable
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Requested TAT: 3 days

Date Received: 02/26/2014
Date Printed: 02/26/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
					Requested Tests (See legend below)											
1402896-001	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	2/19/2014 16:10	☐		A										
1402896-002	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	2/19/2014 16:10	☐	A											
1402896-003	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	2/21/2014 13:10	☐		A										
1402896-004	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	2/21/2014 13:10	☐	A											
1402896-005	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	2/22/2014 14:45	☐		A										
1402896-006	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	2/22/2014 14:45	☐	A											
1402896-007	CX-BIWQ Zone #5 (84-94 ft bgs)	Water	2/23/2014 16:20	☐		A										
1402896-008	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	Water	2/23/2014 16:20	☐	A											
1402896-009	CX-BIWQ Zone #6 (51-61 ft bgs)	Water	2/25/2014 9:10	☐		A										
1402896-010	CX-BIWQ Zone #6 (51-61 ft bgs) (dissolved)	Water	2/25/2014 9:10	☐	A											

Test Legend:

1	METALSMS_DISS	2	METALSMS_W	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Jena Alfaro

Comments: Needs analysts initials for all reports per D.H. 4/5/13

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: MONTEREY BAY ANALYTICAL
QC Level: LEVEL 2
Work Order: 1402896
Project: CalAm
Client Contact: David Holland
Date Received: 2/26/2014
Comments: Needs analysts initials for all reports per D.H. 4/5/13
Contact's Email: 4mbas@sbcglobal.net

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1402896-001A	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/19/2014 16:10	3 days	None	☐	
1402896-002A	CX-BIWQ Zone #2 (237-247 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/19/2014 16:10	3 days	None	☐	
1402896-003A	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/21/2014 13:10	3 days	None	☐	
1402896-004A	CX-BIWQ Zone #3 (182-192 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/21/2014 13:10	3 days	None	☐	
1402896-005A	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/22/2014 14:45	3 days	None	☐	
1402896-006A	CX-BIWQ Zone #4 (134-144 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/22/2014 14:45	3 days	None	☐	
1402896-007A	CX-BIWQ Zone #5 (84-94 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/23/2014 16:20	3 days	None	☐	
1402896-008A	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/23/2014 16:20	3 days	None	☐	
1402896-009A	CX-BIWQ Zone #6 (51-61 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/25/2014 9:10	3 days	None	☐	
1402896-010A	CX-BIWQ Zone #6 (51-61 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/25/2014 9:10	3 days	None	☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

125mL HDPE w/ HNO3 = 125mL HDPE Bottle w/ Nitric Acid
250mL HDPE w/ HNO3 = 250mL HDPE Bottle w/ HNO3

14028896

Appendix G

McCAMPBELL ANALYTICAL, INC.

RUSH

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAY

☐ GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW)

Report To: David Holland Bill To:
Company: Monterey Bay Analytical Services
4 Justin Ct. Suite D
Monterey, Ca 93940 E-Mail: 4mbas@sbcglobal.net
Tele: (831) 375 - 6227 Fax: (831) 641-0734
Project #: Project Name: CalAm
Project Location:
Sampler Signature: Nathan Reynolds

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	HCL	HNO_3	Other	MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other: Al, As, Cu, Li, Zn	Other: Ba, Sr	Other	Comments: Filter Samples for Metals analysis: Yes / No
	CX-BIWQ Zone #2 (237-247 ft bgs)	2/19/14	16:10	1	p	X					X		X																			X			11965
	CX-BIWQ Zone #2 (237-247 ft bgs) (dissolved)	2/19/14	16:10	1	p	X					X		X																				X		11965 (dissolved)
	CX-BIWQ Zone #3 (182-192 ft bgs)	2/21/14	13:10	1	p	X					X		X																			X			12015
	CX-BIWQ Zone #3 (182-192 ft bgs) (dissolved)	2/21/14	13:10	1	p	X					X		X																				X		12015 (dissolved)
	CX-BIWQ Zone #4 (134-144 ft bgs)	2/22/14	14:45	1	p	X					X		X																			X			12029
	CX-BIWQ Zone #4 (134-144 ft bgs) (dissolved)	2/22/14	14:45	1	p	X					X		X																				X		12029 (dissolved)
	CX-BIWQ Zone #5 (84-94 ft bgs)	2/23/14	16:20	1	P	X					X		X																			X			12030
	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	2/23/14	16:20	1	P	X					X		X																				X		12030 (dissolved)
	CX-BIWQ Zone #6 (51-61 ft bgs)	2/25/14	09:10	1	p	X					X		X																			X			12148
	CX-BIWQ Zone #6 (51-61 ft bgs) (Dissolved)	2/25/14	09:10	1	p	X					X		X																				X		12148 (dissolved)

REC'D SEALED & INTACT VIA UPS ~~On Trac~~

Relinquished By:	Date:	Time:	Received By:
David Holland	2/25/14	1200	2/26/14 9:15
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____

COMMENTS: The sample conductivity ranges from 25,000 µS/cm to 40,000 µS/cm

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Monterey Bay Analytical**	Date and Time Received:	**2/26/2014 11:35:12 AM**
Project Name:	**CalAm**	LogIn Reviewed by:	Jena Alfaro
WorkOrder N°:	**1402896** Matrix: Water	Carrier:	UPS

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☑	

** NOTE: If the "No" box is checked, see comments below.*

Comments:

MONTEREY BAY ANALYTICAL SERVICES
PRECISION • ACCURACY • DEPENDABILITY
4 Justin Court Suite D, Monterey, CA 93940
831.375.MBAS
montereybayanalytical@usa.net

ELAP Certification Number: 2385

Cal Am Water Company
Travis Peterson
511 Pacific Lodge Road, Suite 100
Pacific Grove, CA 93950

Thursday, March 06, 2014

Lab Number: **AB12030**

Collection Date/Time:	2/23/2014	16:20	Sample Collector:	NATHAN REYNOL	
Submittal Date/Time:	2/23/2014	17:42	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B1WQ Zone # 5 (84 - 94 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Alkalinity, Total (as CaCO3)	SM2320B	mg/L	**126**		2		2/24/2014	LRH
Aluminum, Total	EPA200.8	ug/L	**Not Detected**		10	1000	2/27/2014	MC LAB
Ammonia-N, Dissolved	SM4500NH3 D	mg/L	**Not Detected**		0.05		3/5/2014	DH
Arsenic, Total	EPA200.8	ug/L	**Not Detected**		1	10	2/27/2014	MC LAB
Barium, Dissolved	EPA200.8	ug/L	**Not Detected**		10		2/27/2014	MC LAB
Bicarbonate (as HCO3-)	SM2320B	mg/L	**154**		10		2/25/2014	SM
Boron, Dissolved	EPA200.7	mg/L	**2.80**		0.05		2/25/2014	DC
Bromide, Dissolved	EPA300.0	mg/L	**41**		0.1		2/23/2014	DH
Calcium	EPA200.7	mg/L	**674**		0.5		2/25/2014	DC
Calcium, Dissolved	EPA200.7	mg/L	**656**		0.5		2/25/2014	DC
Carbamates by HPLC (EPA 531)	EPA531	ug/L	**Not Detected**	E			2/26/2014	BSK
Carbonate as CaCO3	SM2320B	mg/L	**Not Detected**		10		2/25/2014	SM
Chloride, Dissolved	EPA300.0	mg/L	**14755**		1		2/23/2014	DH
Chlorinated Pesticides and PCB (EP	EPA508	ug/L	**Not Detected**	E			2/28/2014	WECK
Color, Apparent (Unfiltered)	SM2120B	Color Units	**5**		3	15	2/23/2014	DH
Copper, Total	EPA200.8	ug/L	**Not Detected**		4	1300	2/27/2014	MC LAB
DBCP & EDB	EPA504.1	ug/L	**Not Detected**	E			2/26/2014	BSK
Dioxin	EPA-5 1613B	pg/L	**Not Detected**				2/28/2014	CERES
Diquat (EPA 549)	EPA549	ug/L	**Not Detected**	E			2/28/2014	BSK
Dissolved Anions		Meq/L	**458.5**				3/6/2014	DH
Dissolved Cations		Meq/L	**464.6**				3/6/2014	DH
Endothall	EPA548.1	ug/L	**Not Detected**	E			2/26/2014	BSK
Fluoride, Dissolved	EPA300.0	mg/L	**0.4**		0.1		2/23/2014	DH
Glyphosate	EPA547	ug/L	**Not Detected**	E			3/1/2014	BSK
Hardness (as CaCO3)	SM2340B	mg/L	**6748**		10		3/6/2014	DH
Hydroxide	SM2320B	mg/L	**Not Detected**		5		2/25/2014	SM
Iodide	EPA9056M	ug/L	**160**	E	10		3/1/2014	WECK
Iron	EPA200.7	ug/L	**178**		10	300	2/25/2014	DC
Iron, Dissolved	EPA200.7	ug/L	**171**		10	300	2/25/2014	DC
Kjehldahl Nitrogen, Dissolved	SM4500-NH3 B,	mg/L	**0.5**	J	0.5		2/25/2014	HM
Lithium	EPA200.8	ug/L	**170**		1		2/27/2014	MC LAB
Magnesium	EPA200.7	mg/L	**1230**		0.5		2/25/2014	DC
Magnesium, Dissolved	EPA200.7	mg/L	**1215**		1		2/25/2014	DC
Manganese, Dissolved	EPA200.7	ug/L	**Not Detected**		10	50	2/25/2014	DC
Manganese, Total	EPA200.7	ug/L	**78**		10	50	2/25/2014	DC
MBAS (Surfactants)	SM5540C	mg/L	**Not Detected**		0.05	0.50	2/23/2014	DH
Nitrate as NO3	EPA300.0	mg/L	**2**		1	45	2/23/2014	DH
Nitrate+Nitrite as N	EPA300.0	mg/L	**0.4**		0.1		2/23/2014	DH
Nitrite as NO2-N, Dissolved	EPA300.0	mg/L	**Not Detected**		0.1		2/23/2014	DH

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

Lab Number: AB12030

Appendix G

Collection Date/Time:	2/23/2014	16:20	Sample Collector:	NATHAN REYNOL	
Submittal Date/Time:	2/23/2014	17:42	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B1WQ Zone # 5 (84 - 94 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Odor Threshold at 60 C	SM2150B	TON	**1**		1	3	2/23/2014	DH
o-Phosphate-P, Dissolved	Hach 8190	mg/L	**0.07**		0.1		2/24/2014	DH
pH (Field Test)	SM4500-H+B	pH	**7.05**				2/23/2014	NR
pH (Laboratory)	SM4500-H+B	pH (H)	**7.2**				2/23/2014	DH
Phenoxy Acid Herbicides (515.3)	EPA515.3	ug/L	**Not Detected**	E			3/2/2014	BSK
Phosphorus, Dissolved	HACH 8190	mg/L	**0.07**		0.03		2/24/2014	DH
Potassium	EPA200.7	mg/L	**261**		0.5		2/25/2014	DC
Potassium, Dissolved	EPA200.7	mg/L	**221**		0.1		2/25/2014	DC
QC Ratio TDS/SEC	Calculation		**0.67**				2/27/2014	SM
Reg. Org. Compounds (EPA 525)	EPA525	ug/L	**Not Detected**	E			2/26/2014	BSK
Silica as SiO2, Dissolved	EPA200.7	mg/L	**19**		0.5		2/25/2014	DC
Sodium	EPA200.7	mg/L	**8444**		0.5		2/25/2014	DC
Sodium, Dissolved	EPA200.7	mg/L	**7500**		0.5		3/5/2014	DC
Specific Conductance (E.C)	SM2510B	umhos/cm	**40900**		1	900	2/24/2014	HM
Specific Conductance (E.C) (Field)	SM2510B	umhos/cm	**41336**		1		2/23/2014	NR
Strontium, Dissolved	EPA200.8	ug/L	**10000**		5		2/27/2014	MC LAB
Sulfate	EPA300.0	mg/L	**1882**		1	250	2/23/2014	DH
Temperature (Field)	SM2550	° C	**17.2**				2/23/2014	NR
Total Cations		Meq/L	**463.4**				3/6/2014	DH
Total Diss. Solids	SM2540C	mg/L	**27400**		10	500	2/25/2014	HM
Turbidity	EPA180.1	NTU	**0.75**		0.05	5.0	2/24/2014	LRH
Turbidity (Field)	EPA180.1	NTU	**0.47**		0.05		2/23/2014	NR
Volatile Org. Compounds (524)	EPA524	ug/L	**Not Detected**	E			2/26/2014	BSK
Zinc, Total	EPA200.8	ug/L	**Not Detected**		10	5000	2/27/2014	MC LAB

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level

H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12030 Zone #5 Dissolved**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	7500	0.04350	326.25
Potassium	221	0.02558	5.65
Calcium	656	0.04990	32.73
Magnesium	1215	0.08229	99.98
NH3-N	0	0.07143	0.00
		SUM	464.62

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	126	0.02000	2.52
Sulfate	1882	0.02082	39.18
Chloride	14755	0.02821	416.24
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0.4	0.07138	0.03
Phosphate-P	0.1	0.01031	0.00
Fluoride	0.4	0.05264	0.02
Bromide	41.0	0.01252	0.51
		SUM	458.51

ANION-CATION BALANCE **1** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	40900	
Cation Sum X 100	46462	**114%**
Anion Sum X 100	45851	**112%**

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (S	**40.1**
Ca+Mg+Na	458.97
HCO3/Ca	0.08
dS/m	40.90
Value Table II	1.5
SAR adj	**45.8**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12030 Zone #5 Total**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	8444	0.04350	367.31
Potassium	261	0.02558	6.68
Calcium	674	0.04990	33.63
Magnesium	1230	0.08229	101.22
NH3-N	0	0.07143	0.00
		SUM	508.84

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	126	0.02000	2.52
Sulfate	1882	0.02082	39.18
Chloride	14755	0.02821	416.24
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0.4	0.07138	0.03
Phosphate-P	0.1	0.01031	0.00
Fluoride	0.4	0.05264	0.02
Bromide	41.0	0.01252	0.51
		SUM	458.51

ANION-CATION BALANCE **5** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	40900	
Cation Sum X 100	50884	**124%**
Anion Sum X 100	45851	**112%**

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (S	**44.7**
Ca+Mg+Na	502.16
HCO3/Ca	0.07
dS/m	40.90
Value Table II	1.5
SAR adj	**51.3**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

BSK Associates Engineers & Laboratories
Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A4B1780 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/25/2014. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Monterey Bay Analytical	**Invoice To:**	Monterey Bay Analytical
Report To:	David Holland	**Invoice Attn:**	David Holland
Project #:	-	**Project PO#:**	-
Received:	2/25/2014 - 09:20		
Report Due:	3/04/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 3.2

Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Wet Ice
Received On Blue Ice
Packing Material - Bubble Wrap
Packing Material - Foam
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.

Report Distribution

Recipient(s)	Report Format
David Holland	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1780-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #5 (84-94 ft bgs) // 12030

Sample Date - Time: 02/23/14 - 16:20
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A402381	02/25/14	02/26/14	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A402381	02/25/14	02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	EPA 504.1	114 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A402552	02/28/14	03/02/14	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A402552	02/28/14	03/02/14	
2,4-D	EPA 515.3	ND	10	ug/L	1	A402552	02/28/14	03/02/14	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A402552	02/28/14	03/02/14	
Dalapon	EPA 515.3	ND	10	ug/L	1	A402552	02/28/14	03/02/14	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A402552	02/28/14	03/02/14	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A402552	02/28/14	03/02/14	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A402552	02/28/14	03/02/14	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A402552	02/28/14	03/02/14	
Surrogate: DCPAA	EPA 515.3	77 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A402390	02/26/14	02/26/14	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A402390	02/26/14	02/26/14	BS1.0
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A402390	02/26/14	02/26/14	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A402390	02/26/14	02/26/14	
Acetone	EPA 524.2	ND	10	ug/L	1	A402390	02/26/14	02/26/14	BS1.0, CV0.0

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1780-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #5 (84-94 ft bgs) // 12030

Sample Date - Time: 02/23/14 - 16:20
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Benzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A402390	02/26/14	02/26/14	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	BS1.0, CV0.0
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A402390	02/26/14	02/26/14	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A402390	02/26/14	02/26/14	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A402390	02/26/14	02/26/14	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A402390	02/26/14	02/26/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1780-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #5 (84-94 ft bgs) // 12030

Sample Date - Time: 02/23/14 - 16:20
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	96 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	100 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A402368	02/25/14	02/26/14	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A402368	02/25/14	02/26/14	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Bromacil	EPA 525.2	ND	10	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A402368	02/25/14	02/26/14	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A402368	02/25/14	02/26/14	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A402368	02/25/14	02/26/14	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	BS1.0
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A402368	02/25/14	02/26/14	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A402368	02/25/14	02/26/14	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A402368	02/25/14	02/26/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	115 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A402388	02/25/14	02/26/14	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A402388	02/25/14	02/26/14	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A402388	02/25/14	02/26/14	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A402388	02/25/14	02/26/14	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A402388	02/25/14	02/26/14	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A402388	02/25/14	02/26/14	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A402388	02/25/14	02/26/14	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A402388	02/25/14	02/26/14	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A402555	03/01/14	03/01/14	
Surrogate: AMPA	EPA 547	89 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A402387	02/25/14	02/26/14	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A402367	02/25/14	02/28/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A402381										Prepared: 02/25/2014	
Prep Method: EPA 505										Analyst: GAK	
Blank (A402381-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							02/26/14	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.8*			*3.4*		*110*	*70-130*			02/26/14	
Blank Spike (A402381-BS1)											
Dibromochloropropane (DBCP)	0.24	0.010	ug/L	0.20		118	70-130			02/26/14	
Ethylene Dibromide (EDB)	0.23	0.020	ug/L	0.20		113	70-130			02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.6*			*3.4*		*104*	*70-130*			02/26/14	
Blank Spike Dup (A402381-BSD1)											
Dibromochloropropane (DBCP)	0.25	0.010	ug/L	0.20		125	70-130	5	20	02/26/14	
Ethylene Dibromide (EDB)	0.24	0.020	ug/L	0.20		122	70-130	7	20	02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.7*			*3.4*		*109*	*70-130*			02/26/14	
Matrix Spike (A402381-MS1), Source: A4B1641-01											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20	ND	111	65-135			02/26/14	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.20	ND	109	65-135			02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.3*			*3.4*		*99*	*70-130*			02/26/14	
Matrix Spike Dup (A402381-MSD1), Source: A4B1641-01											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20	ND	114	65-135	3	20	02/26/14	
Ethylene Dibromide (EDB)	0.23	0.020	ug/L	0.20	ND	115	65-135	5	20	02/26/14	
Surrogate: 1-Br-2-Nitrobenzene	*3.4*			*3.4*		*101*	*70-130*			02/26/14	
EPA 515.3 - Quality Control											
Batch: A402552										Prepared: 02/28/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A402552-BLK1)											
2,4,5-T	ND	1.0	ug/L							03/02/14	
2,4,5-TP (Silvex)	ND	1.0	ug/L							03/02/14	
2,4-D	ND	10	ug/L							03/02/14	
Bentazon	ND	2.0	ug/L							03/02/14	
Dalapon	ND	10	ug/L							03/02/14	
Dicamba	ND	1.5	ug/L							03/02/14	
Dinoseb	ND	2.0	ug/L							03/02/14	
Pentachlorophenol	ND	0.20	ug/L							03/02/14	
Picloram	ND	1.0	ug/L							03/02/14	
Surrogate: DCPAA	*46*			*58*		*80*	*70-130*			03/02/14	
Blank Spike (A402552-BS1)											
2,4,5-T	4.1	1.0	ug/L	4.0		103	70-130			03/02/14	
2,4,5-TP (Silvex)	0.84	1.0	ug/L	0.80		105	70-130			03/02/14	
2,4-D	0.46	10	ug/L	0.40		115	70-130			03/02/14	
Bentazon	8.9	2.0	ug/L	8.0		111	70-130			03/02/14	
Dalapon	4.1	10	ug/L	4.0		101	70-130			03/02/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A402552										Prepared: 02/28/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike (A402552-BS1)											
Dicamba	6.2	1.5	ug/L	6.0		103	70-130			03/02/14	
Dinoseb	0.82	2.0	ug/L	0.80		102	70-130			03/02/14	
Pentachlorophenol	0.16	0.20	ug/L	0.16		100	70-130			03/02/14	
Picloram	0.41	1.0	ug/L	0.40		104	70-130			03/02/14	
Surrogate: DCPAA	*47*			*58*		*80*	*70-130*			03/02/14	
Blank Spike Dup (A402552-BSD1)											
2,4,5-T	4.2	1.0	ug/L	4.0		105	70-130	2	20	03/02/14	
2,4,5-TP (Silvex)	0.83	1.0	ug/L	0.80		103	70-130	2	20	03/02/14	
2,4-D	0.47	10	ug/L	0.40		118	70-130	2	20	03/02/14	
Bentazon	8.7	2.0	ug/L	8.0		109	70-130	2	20	03/02/14	
Dalapon	4.2	10	ug/L	4.0		106	70-130	4	20	03/02/14	
Dicamba	6.1	1.5	ug/L	6.0		101	70-130	2	20	03/02/14	
Dinoseb	0.81	2.0	ug/L	0.80		102	70-130	1	20	03/02/14	
Pentachlorophenol	0.16	0.20	ug/L	0.16		98	70-130	2	20	03/02/14	
Picloram	0.43	1.0	ug/L	0.40		107	70-130	4	20	03/02/14	
Surrogate: DCPAA	*45*			*58*		*78*	*70-130*			03/02/14	
Matrix Spike (A402552-MS1), Source: A4B1782-01											
2,4,5-T	4.2	1.0	ug/L	4.0	ND	104	70-130			03/02/14	
2,4,5-TP (Silvex)	0.85	1.0	ug/L	0.80	ND	106	70-130			03/02/14	
2,4-D	0.47	10	ug/L	0.40	ND	117	70-130			03/02/14	
Bentazon	8.8	2.0	ug/L	8.0	ND	110	70-130			03/02/14	
Dalapon	4.2	10	ug/L	4.0	ND	105	70-130			03/02/14	
Dicamba	6.0	1.5	ug/L	6.0	ND	101	70-130			03/02/14	
Dinoseb	0.82	2.0	ug/L	0.80	ND	102	70-130			03/02/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	97	70-130			03/02/14	
Picloram	0.41	1.0	ug/L	0.40	ND	103	70-130			03/02/14	
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			03/02/14	
Matrix Spike Dup (A402552-MSD1), Source: A4B1782-01											
2,4,5-T	4.1	1.0	ug/L	4.0	ND	103	70-130	1	20	03/02/14	
2,4,5-TP (Silvex)	0.84	1.0	ug/L	0.80	ND	105	70-130	1	20	03/02/14	
2,4-D	0.51	10	ug/L	0.40	ND	127	70-130	9	20	03/02/14	
Bentazon	8.8	2.0	ug/L	8.0	ND	110	70-130	0	20	03/02/14	
Dalapon	4.1	10	ug/L	4.0	ND	102	70-130	3	20	03/02/14	
Dicamba	6.0	1.5	ug/L	6.0	ND	100	70-130	1	20	03/02/14	
Dinoseb	0.80	2.0	ug/L	0.80	ND	101	70-130	2	20	03/02/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	97	70-130	0	20	03/02/14	
Picloram	0.40	1.0	ug/L	0.40	ND	99	70-130	4	20	03/02/14	
Surrogate: DCPAA	*46*			*58*		*80*	*70-130*			03/02/14	
EPA 524.2 - Quality Control											
Batch: A402390										Prepared: 02/26/2014	
Prep Method: EPA 524.2										Analyst: JGB	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A402390										Prepared: 02/26/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A402390-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							02/26/14	
1,1,1-Trichloroethane	ND	0.50	ug/L							02/26/14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							02/26/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							02/26/14	
1,1,2-Trichloroethane	ND	0.50	ug/L							02/26/14	
1,1-Dichloroethane	ND	0.50	ug/L							02/26/14	
1,1-Dichloroethene	ND	0.50	ug/L							02/26/14	
1,1-Dichloropropene	ND	0.50	ug/L							02/26/14	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							02/26/14	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							02/26/14	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							02/26/14	
1,2-Dichlorobenzene	ND	0.50	ug/L							02/26/14	
1,2-Dichloroethane	ND	0.50	ug/L							02/26/14	
1,2-Dichloropropane	ND	0.50	ug/L							02/26/14	
1,3,5-Trimethylbenzene	ND	0.50	ug/L							02/26/14	
1,3-Dichlorobenzene	ND	0.50	ug/L							02/26/14	
1,3-Dichloropropane	ND	0.50	ug/L							02/26/14	
1,4-Dichlorobenzene	ND	0.50	ug/L							02/26/14	
2,2-Dichloropropane	ND	0.50	ug/L							02/26/14	
2-Butanone	ND	5.0	ug/L							02/26/14	
2-Chlorotoluene	ND	0.50	ug/L							02/26/14	
2-Hexanone	ND	10	ug/L							02/26/14	
4-Chlorotoluene	ND	0.50	ug/L							02/26/14	
4-Methyl-2-pentanone	ND	5.0	ug/L							02/26/14	
Acetone	ND	10	ug/L							02/26/14	
Benzene	ND	0.50	ug/L							02/26/14	
Bromobenzene	ND	0.50	ug/L							02/26/14	
Bromochloromethane	ND	0.50	ug/L							02/26/14	
Bromodichloromethane	ND	0.50	ug/L							02/26/14	
Bromoform	ND	0.50	ug/L							02/26/14	
Bromomethane	ND	0.50	ug/L							02/26/14	
Carbon Tetrachloride	ND	0.50	ug/L							02/26/14	
Chlorobenzene	ND	0.50	ug/L							02/26/14	
Chloroethane	ND	0.50	ug/L							02/26/14	
Chloroform	ND	0.50	ug/L							02/26/14	
Chloromethane	ND	0.50	ug/L							02/26/14	
cis-1,2-Dichloroethene	ND	0.50	ug/L							02/26/14	
cis-1,3-Dichloropropene	ND	0.50	ug/L							02/26/14	
Dibromochloromethane	ND	0.50	ug/L							02/26/14	
Dibromomethane	ND	0.50	ug/L							02/26/14	
Dichlorodifluoromethane	ND	0.50	ug/L							02/26/14	
Dichloromethane	ND	0.50	ug/L							02/26/14	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							02/26/14	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							02/26/14	
Ethylbenzene	ND	0.50	ug/L							02/26/14	
Hexachlorobutadiene	ND	0.50	ug/L							02/26/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 524.2 - Quality Control												
Batch: A402390										Prepared: 02/26/2014		
Prep Method: EPA 524.2										Analyst: JGB		
Blank (A402390-BLK1)												
Isopropylbenzene	ND	0.50	ug/L							02/26/14		
m,p-Xylenes	ND	0.50	ug/L							02/26/14		
Methyl-t-butyl ether	ND	0.50	ug/L							02/26/14		
Naphthalene	ND	0.50	ug/L							02/26/14		
n-Butylbenzene	ND	0.50	ug/L							02/26/14		
n-Propylbenzene	ND	0.50	ug/L							02/26/14		
o-Xylene	ND	0.50	ug/L							02/26/14		
p-Isopropyltoluene	ND	0.50	ug/L							02/26/14		
sec-Butylbenzene	ND	0.50	ug/L							02/26/14		
Styrene	ND	0.50	ug/L							02/26/14		
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							02/26/14		
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							02/26/14		
tert-Butylbenzene	ND	0.50	ug/L							02/26/14		
Tetrachloroethene (PCE)	ND	0.50	ug/L							02/26/14		
Toluene	ND	0.50	ug/L							02/26/14		
trans-1,2-Dichloroethene	ND	0.50	ug/L							02/26/14		
trans-1,3-Dichloropropene	ND	0.50	ug/L							02/26/14		
Trichloroethene (TCE)	ND	0.50	ug/L							02/26/14		
Trichlorofluoromethane	ND	5.0	ug/L							02/26/14		
Vinyl Chloride	ND	0.50	ug/L							02/26/14		
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*95*	*70-130*			02/26/14		
Surrogate: Bromofluorobenzene	*50*			*50*		*101*	*70-130*			02/26/14		
Blank Spike (A402390-BS1)												
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		108	70-130			02/26/14		
1,1,1-Trichloroethane	11	0.50	ug/L	10		106	70-130			02/26/14		
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		107	70-130			02/26/14		
1,1,2-Trichloro-1,2,2-trifluoroethane	11	10	ug/L	10		106	70-130			02/26/14		
1,1,2-Trichloroethane	11	0.50	ug/L	10		107	70-130			02/26/14		
1,1-Dichloroethane	10	0.50	ug/L	10		105	70-130			02/26/14		
1,1-Dichloroethene	10	0.50	ug/L	10		103	70-130			02/26/14		
1,1-Dichloropropene	11	0.50	ug/L	10		108	70-130			02/26/14		
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		103	70-130			02/26/14		
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
1,2-Dichlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,2-Dichloroethane	10	0.50	ug/L	10		101	70-130			02/26/14		
1,2-Dichloropropane	10	0.50	ug/L	10		105	70-130			02/26/14		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,3-Dichlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
1,3-Dichloropropane	11	0.50	ug/L	10		108	70-130			02/26/14		
1,4-Dichlorobenzene	11	0.50	ug/L	10		105	70-130			02/26/14		
2,2-Dichloropropane	11	0.50	ug/L	10		108	70-130			02/26/14		
2-Butanone	14	5.0	ug/L	10		139	70-130			02/26/14	BS	***High***
2-Chlorotoluene	10	0.50	ug/L	10		104	70-130			02/26/14		
2-Hexanone	12	10	ug/L	10		115	70-130			02/26/14		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402390 Prepared: 02/26/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A402390-BS1)												
4-Chlorotoluene	11	0.50	ug/L	10		106	70-130			02/26/14		
4-Methyl-2-pentanone	12	5.0	ug/L	10		119	70-130			02/26/14		
Acetone	22	10	ug/L	10		221	70-130			02/26/14	BS	***High***
Benzene	10	0.50	ug/L	10		101	70-130			02/26/14		
Bromobenzene	11	0.50	ug/L	10		107	70-130			02/26/14		
Bromochloromethane	10	0.50	ug/L	10		104	70-130			02/26/14		
Bromodichloromethane	8.5	0.50	ug/L	10		85	70-130			02/26/14		
Bromoform	11	0.50	ug/L	10		115	70-130			02/26/14		
Bromomethane	9.5	0.50	ug/L	10		95	70-130			02/26/14		
Carbon Tetrachloride	11	0.50	ug/L	10		110	70-130			02/26/14		
Chlorobenzene	11	0.50	ug/L	10		106	70-130			02/26/14		
Chloroethane	10	0.50	ug/L	10		100	70-130			02/26/14		
Chloroform	10	0.50	ug/L	10		102	70-130			02/26/14		
Chloromethane	9.6	0.50	ug/L	10		96	70-130			02/26/14		
cis-1,2-Dichloroethene	10	0.50	ug/L	10		104	70-130			02/26/14		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		109	70-130			02/26/14		
Dibromochloromethane	9.8	0.50	ug/L	10		98	70-130			02/26/14		
Dibromomethane	11	0.50	ug/L	10		114	70-130			02/26/14		
Dichlorodifluoromethane	9.9	0.50	ug/L	10		99	70-130			02/26/14		
Dichloromethane	11	0.50	ug/L	10		106	70-130			02/26/14		
Di-isopropyl ether (DIPE)	11	3.0	ug/L	10		107	70-130			02/26/14		
Ethyl tert-Butyl Ether (ETBE)	11	0.50	ug/L	10		111	70-130			02/26/14		
Ethylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
Hexachlorobutadiene	10	0.50	ug/L	10		104	70-130			02/26/14		
Isopropylbenzene	10	0.50	ug/L	10		103	70-130			02/26/14		
m,p-Xylenes	19	0.50	ug/L	20		96	70-130			02/26/14		
Methyl-t-butyl ether	22	0.50	ug/L	20		108	70-130			02/26/14		
Naphthalene	11	0.50	ug/L	10		109	70-130			02/26/14		
n-Butylbenzene	10	0.50	ug/L	10		103	70-130			02/26/14		
n-Propylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
o-Xylene	10	0.50	ug/L	10		104	70-130			02/26/14		
p-Isopropyltoluene	11	0.50	ug/L	10		106	70-130			02/26/14		
sec-Butylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
Styrene	13	0.50	ug/L	10		129	70-130			02/26/14		
tert-Amyl Methyl Ether (TAME)	11	3.0	ug/L	10		111	70-130			02/26/14		
tert-Butyl alcohol (TBA)	11	2.0	ug/L	10		107	70-130			02/26/14		
tert-Butylbenzene	10	0.50	ug/L	10		104	70-130			02/26/14		
Tetrachloroethene (PCE)	10	0.50	ug/L	10		104	70-130			02/26/14		
Toluene	11	0.50	ug/L	10		106	70-130			02/26/14		
trans-1,2-Dichloroethene	10	0.50	ug/L	10		105	70-130			02/26/14		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		109	70-130			02/26/14		
Trichloroethene (TCE)	9.4	0.50	ug/L	10		94	70-130			02/26/14		
Trichlorofluoromethane	11	5.0	ug/L	10		107	70-130			02/26/14		
Vinyl Chloride	9.9	0.50	ug/L	10		99	70-130			02/26/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*100*	*70-130*			02/26/14		
Surrogate: Bromofluorobenzene	*50*			*50*		*100*	*70-130*			02/26/14		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402390 Prepared: 02/26/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A402390-BSD1)												
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		109	70-130	1	30	02/26/14		
1,1,1-Trichloroethane	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		109	70-130	2	30	02/26/14		
1,1,2-Trichloro-1,2,2-trifluoroethane	11	10	ug/L	10		110	70-130	3	30	02/26/14		
1,1,2-Trichloroethane	11	0.50	ug/L	10		108	70-130	2	30	02/26/14		
1,1-Dichloroethane	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
1,1-Dichloroethene	11	0.50	ug/L	10		108	70-130	5	30	02/26/14		
1,1-Dichloropropene	11	0.50	ug/L	10		110	70-130	1	30	02/26/14		
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		105	70-130	2	30	02/26/14		
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		108	70-130	2	30	02/26/14		
1,2,4-Trimethylbenzene	11	0.50	ug/L	10		110	70-130	6	30	02/26/14		
1,2-Dichlorobenzene	11	0.50	ug/L	10		106	70-130	0	30	02/26/14		
1,2-Dichloroethane	11	0.50	ug/L	10		107	70-130	6	30	02/26/14		
1,2-Dichloropropane	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		111	70-130	5	30	02/26/14		
1,3-Dichlorobenzene	11	0.50	ug/L	10		107	70-130	1	30	02/26/14		
1,3-Dichloropropane	11	0.50	ug/L	10		109	70-130	1	30	02/26/14		
1,4-Dichlorobenzene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
2,2-Dichloropropane	11	0.50	ug/L	10		112	70-130	4	30	02/26/14		
2-Butanone	14	5.0	ug/L	10		139	70-130	0	30	02/26/14	BS	***High***
2-Chlorotoluene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
2-Hexanone	12	10	ug/L	10		115	70-130	0	30	02/26/14		
4-Chlorotoluene	11	0.50	ug/L	10		110	70-130	4	30	02/26/14		
4-Methyl-2-pentanone	11	5.0	ug/L	10		114	70-130	4	30	02/26/14		
Acetone	22	10	ug/L	10		221	70-130	0	30	02/26/14	BS	***High***
Benzene	10	0.50	ug/L	10		104	70-130	3	30	02/26/14		
Bromobenzene	11	0.50	ug/L	10		109	70-130	2	30	02/26/14		
Bromochloromethane	10	0.50	ug/L	10		104	70-130	0	30	02/26/14		
Bromodichloromethane	9.8	0.50	ug/L	10		98	70-130	14	30	02/26/14		
Bromoform	11	0.50	ug/L	10		115	70-130	0	30	02/26/14		
Bromomethane	9.4	0.50	ug/L	10		94	70-130	1	30	02/26/14		
Carbon Tetrachloride	11	0.50	ug/L	10		108	70-130	2	30	02/26/14		
Chlorobenzene	11	0.50	ug/L	10		110	70-130	3	30	02/26/14		
Chloroethane	10	0.50	ug/L	10		100	70-130	0	30	02/26/14		
Chloroform	11	0.50	ug/L	10		105	70-130	3	30	02/26/14		
Chloromethane	9.1	0.50	ug/L	10		91	70-130	6	30	02/26/14		
cis-1,2-Dichloroethene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		112	70-130	2	30	02/26/14		
Dibromochloromethane	9.8	0.50	ug/L	10		98	70-130	0	30	02/26/14		
Dibromomethane	10	0.50	ug/L	10		101	70-130	12	30	02/26/14		
Dichlorodifluoromethane	10	0.50	ug/L	10		104	70-130	5	30	02/26/14		
Dichloromethane	11	0.50	ug/L	10		108	70-130	1	30	02/26/14		
Di-isopropyl ether (DIPE)	11	3.0	ug/L	10		110	70-130	2	30	02/26/14		
Ethyl tert-Butyl Ether (ETBE)	11	0.50	ug/L	10		112	70-130	1	30	02/26/14		
Ethylbenzene	11	0.50	ug/L	10		108	70-130	4	30	02/26/14		
Hexachlorobutadiene	11	0.50	ug/L	10		108	70-130	4	30	02/26/14		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402390 Prepared: 02/26/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A402390-BSD1)												
Isopropylbenzene	11	0.50	ug/L	10		107	70-130	4	30	02/26/14		
m,p-Xylenes	20	0.50	ug/L	20		99	70-130	4	30	02/26/14		
Methyl-t-butyl ether	22	0.50	ug/L	20		109	70-130	1	30	02/26/14		
Naphthalene	11	0.50	ug/L	10		111	70-130	2	30	02/26/14		
n-Butylbenzene	11	0.50	ug/L	10		107	70-130	4	30	02/26/14		
n-Propylbenzene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
o-Xylene	11	0.50	ug/L	10		106	70-130	2	30	02/26/14		
p-Isopropyltoluene	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
sec-Butylbenzene	11	0.50	ug/L	10		107	70-130	3	30	02/26/14		
Styrene	14	0.50	ug/L	10		140	70-130	9	30	02/26/14	BS	***High***
tert-Amyl Methyl Ether (TAME)	11	3.0	ug/L	10		115	70-130	4	30	02/26/14		
tert-Butyl alcohol (TBA)	10	2.0	ug/L	10		105	70-130	2	30	02/26/14		
tert-Butylbenzene	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
Tetrachloroethene (PCE)	11	0.50	ug/L	10		109	70-130	4	30	02/26/14		
Toluene	11	0.50	ug/L	10		110	70-130	4	30	02/26/14		
trans-1,2-Dichloroethene	11	0.50	ug/L	10		108	70-130	3	30	02/26/14		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		112	70-130	2	30	02/26/14		
Trichloroethene (TCE)	11	0.50	ug/L	10		108	70-130	14	30	02/26/14		
Trichlorofluoromethane	11	5.0	ug/L	10		109	70-130	2	30	02/26/14		
Vinyl Chloride	10	0.50	ug/L	10		104	70-130	4	30	02/26/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*100*	*70-130*			02/26/14		
Surrogate: Bromofluorobenzene	*50*			*50*		*101*	*70-130*			02/26/14		

EPA 525.2 - Quality Control

Batch: A402368 Prepared: 02/25/2014

Prep Method: EPA 525.2 Analyst: KHH

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank (A402368-BLK1)												
Alachlor	ND	1.0	ug/L							02/26/14		
Atrazine	ND	0.50	ug/L							02/26/14		
Benzo(a)pyrene	ND	0.10	ug/L							02/26/14		
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							02/26/14		
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							02/26/14		
Bromacil	ND	10	ug/L							02/26/14		
Butachlor	ND	0.38	ug/L							02/26/14		
Diazinon	ND	0.25	ug/L							02/26/14		
Dimethoate	ND	10	ug/L							02/26/14		
Metolachlor	ND	0.50	ug/L							02/26/14		
Metribuzin	ND	0.50	ug/L							02/26/14		
Molinate	ND	2.0	ug/L							02/26/14		
Propachlor	ND	0.50	ug/L							02/26/14		
Simazine	ND	1.0	ug/L							02/26/14		
Thiobencarb	ND	1.0	ug/L							02/26/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*6.0*			*5.0*		*119*	*70-130*			02/26/14		

Blank Spike (A402368-BS1)

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 525.2 - Quality Control												
Batch: A402368										Prepared: 02/25/2014		
Prep Method: EPA 525.2										Analyst: KHH		
Blank Spike (A402368-BS1)												
Alachlor	0.60	1.0	ug/L	0.50		119	70-130			02/26/14		
Atrazine	0.55	0.50	ug/L	0.50		111	70-130			02/26/14		
Benzo(a)pyrene	0.12	0.10	ug/L	0.10		119	70-130			02/26/14		
Bis(2-ethylhexyl) adipate	3.6	3.0	ug/L	3.0		120	70-130			02/26/14		
Bis(2-ethylhexyl) phthalate	4.3	3.0	ug/L	3.0		142	70-130			02/26/14	BS	***High***
Bromacil	2.6	10	ug/L	2.0		132	70-130			02/26/14	BS	***High***
Butachlor	1.4	0.38	ug/L	1.2		110	70-130			02/26/14		
Diazinon	0.038	0.25	ug/L	0.050		76	70-130			02/26/14		
Dimethoate	0.35	10	ug/L	0.50		71	70-130			02/26/14		
Metolachlor	3.3	0.50	ug/L	2.5		131	70-130			02/26/14	BS	***High***
Metribuzin	3.0	0.50	ug/L	2.5		120	70-130			02/26/14		
Molinate	2.9	2.0	ug/L	2.5		117	70-130			02/26/14		
Propachlor	2.9	0.50	ug/L	2.5		117	70-130			02/26/14		
Simazine	0.40	1.0	ug/L	0.35		116	70-130			02/26/14		
Thiobencarb	0.59	1.0	ug/L	0.50		119	70-130			02/26/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.5*			*5.0*		*109*	*70-130*			02/26/14		
Blank Spike Dup (A402368-BSD1)												
Alachlor	0.58	1.0	ug/L	0.49		118	70-130	3	30	02/26/14		
Atrazine	0.53	0.50	ug/L	0.49		107	70-130	5	30	02/26/14		
Benzo(a)pyrene	0.11	0.10	ug/L	0.098		116	70-130	4	30	02/26/14		
Bis(2-ethylhexyl) adipate	3.6	3.0	ug/L	2.9		122	70-130	0	30	02/26/14		
Bis(2-ethylhexyl) phthalate	4.1	3.0	ug/L	2.9		140	70-130	3	30	02/26/14	BS	***High***
Bromacil	2.6	10	ug/L	2.0		132	70-130	2	30	02/26/14	BS	***High***
Butachlor	1.4	0.38	ug/L	1.2		111	70-130	1	30	02/26/14		
Diazinon	0.040	0.25	ug/L	0.049		82	70-130	6	30	02/26/14		
Dimethoate	0.34	10	ug/L	0.49		70	70-130	3	30	02/26/14		
Metolachlor	3.2	0.50	ug/L	2.5		132	70-130	1	30	02/26/14	BS	***High***
Metribuzin	3.0	0.50	ug/L	2.5		121	70-130	1	30	02/26/14		
Molinate	2.7	2.0	ug/L	2.5		109	70-130	9	30	02/26/14		
Propachlor	2.7	0.50	ug/L	2.5		109	70-130	8	30	02/26/14		
Simazine	0.37	1.0	ug/L	0.34		108	70-130	9	30	02/26/14		
Thiobencarb	0.57	1.0	ug/L	0.49		116	70-130	3	30	02/26/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*4.9*		*101*	*70-130*			02/26/14		
Matrix Spike (A402368-MS1), Source: A4B1490-02												
Alachlor	0.54	1.0	ug/L	0.49	ND	110	70-130			02/26/14		
Atrazine	0.52	0.50	ug/L	0.49	ND	105	70-130			02/26/14		
Benzo(a)pyrene	0.13	0.10	ug/L	0.099	ND	134	70-130			02/26/14	MS1.0	***High***
Bis(2-ethylhexyl) adipate	3.7	3.0	ug/L	3.0	ND	124	70-130			02/26/14		
Bis(2-ethylhexyl) phthalate	4.4	3.0	ug/L	3.0	ND	129	70-130			02/26/14		
Bromacil	2.5	10	ug/L	2.0	ND	126	70-130			02/26/14		
Butachlor	1.3	0.38	ug/L	1.2	ND	106	70-130			02/26/14		
Diazinon	0.056	0.25	ug/L	0.049	ND	114	70-130			02/26/14		
Dimethoate	0.32	10	ug/L	0.49	ND	64	70-130			02/26/14	MS1.0	***Low***
Metolachlor	2.9	0.50	ug/L	2.5	ND	119	70-130			02/26/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A402368										Prepared: 02/25/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Matrix Spike (A402368-MS1), Source: A4B1490-02											
Metribuzin	2.6	0.50	ug/L	2.5	ND	104	70-130			02/26/14	
Molinate	2.7	2.0	ug/L	2.5	ND	110	70-130			02/26/14	
Propachlor	2.6	0.50	ug/L	2.5	ND	107	70-130			02/26/14	
Simazine	0.38	1.0	ug/L	0.35	ND	109	70-130			02/26/14	
Thiobencarb	0.57	1.0	ug/L	0.49	ND	116	70-130			02/26/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.2*			*4.9*		*106*	*70-130*			02/26/14	
EPA 531.1 - Quality Control											
Batch: A402388										Prepared: 02/25/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A402388-BLK1)											
3-Hydroxycarbofuran	ND	2.0	ug/L							02/25/14	
Aldicarb	ND	2.0	ug/L							02/25/14	
Aldicarb Sulfone	ND	2.0	ug/L							02/25/14	
Aldicarb Sulfoxide	ND	2.0	ug/L							02/25/14	
Carbaryl	ND	2.0	ug/L							02/25/14	
Carbofuran	ND	2.0	ug/L							02/25/14	
Methomyl	ND	2.0	ug/L							02/25/14	
Oxamyl	ND	2.0	ug/L							02/25/14	
Blank Spike (A402388-BS1)											
3-Hydroxycarbofuran	4.2	2.0	ug/L	4.0		105	80-120			02/25/14	
Aldicarb	4.1	2.0	ug/L	4.0		103	80-120			02/25/14	
Aldicarb Sulfone	4.1	2.0	ug/L	4.0		103	80-120			02/25/14	
Aldicarb Sulfoxide	4.1	2.0	ug/L	4.0		104	80-120			02/25/14	
Carbaryl	4.2	2.0	ug/L	4.0		104	80-120			02/25/14	
Carbofuran	4.1	2.0	ug/L	4.0		102	80-120			02/25/14	
Methomyl	4.1	2.0	ug/L	4.0		103	80-120			02/25/14	
Oxamyl	4.1	2.0	ug/L	4.0		102	80-120			02/25/14	
Blank Spike Dup (A402388-BSD1)											
3-Hydroxycarbofuran	4.1	2.0	ug/L	4.0		103	80-120	1	20	02/26/14	
Aldicarb	4.1	2.0	ug/L	4.0		102	80-120	1	20	02/26/14	
Aldicarb Sulfone	4.2	2.0	ug/L	4.0		106	80-120	3	20	02/26/14	
Aldicarb Sulfoxide	4.2	2.0	ug/L	4.0		105	80-120	1	20	02/26/14	
Carbaryl	4.1	2.0	ug/L	4.0		101	80-120	3	20	02/26/14	
Carbofuran	4.1	2.0	ug/L	4.0		103	80-120	2	20	02/26/14	
Methomyl	4.3	2.0	ug/L	4.0		109	80-120	5	20	02/26/14	
Oxamyl	4.2	2.0	ug/L	4.0		104	80-120	2	20	02/26/14	
Matrix Spike (A402388-MS1), Source: A4B1177-01											
3-Hydroxycarbofuran	3.3	2.0	ug/L	4.0	ND	82	65-135			02/26/14	
Aldicarb	3.1	2.0	ug/L	4.0	ND	72	65-135			02/26/14	
Aldicarb Sulfone	3.5	2.0	ug/L	4.0	ND	79	65-135			02/26/14	
Aldicarb Sulfoxide	3.5	2.0	ug/L	4.0	ND	87	65-135			02/26/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A402388										Prepared: 02/25/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Matrix Spike (A402388-MS1), Source: A4B1177-01											
Carbaryl	10	2.0	ug/L	4.0	8.8	31	65-135			02/26/14	MS1.0 ***Low***
Carbofuran	3.3	2.0	ug/L	4.0	ND	83	65-135			02/26/14	
Methomyl	3.5	2.0	ug/L	4.0	ND	87	65-135			02/26/14	
Oxamyl	3.3	2.0	ug/L	4.0	ND	84	65-135			02/26/14	
EPA 547 - Quality Control											
Batch: A402555										Prepared: 03/01/2014	
Prep Method: EPA 547										Analyst: RJB	
Blank (A402555-BLK1)											
Glyphosate	ND	25	ug/L							03/01/14	
Surrogate: AMPA	*95*			*100*		*95*	*70-130*			03/01/14	
Blank Spike (A402555-BS1)											
Glyphosate	100	25	ug/L	100		103	70-130			03/01/14	
Surrogate: AMPA	*100*			*100*		*102*	*70-130*			03/01/14	
Blank Spike Dup (A402555-BSD1)											
Glyphosate	120	25	ug/L	100		116	70-130	12	30	03/01/14	
Surrogate: AMPA	*97*			*100*		*97*	*70-130*			03/01/14	
Matrix Spike (A402555-MS1), Source: A4B1780-01											
Glyphosate	97	25	ug/L	100	ND	95	70-130			03/01/14	
Surrogate: AMPA	*89*			*100*		*87*	*70-130*			03/01/14	
Matrix Spike Dup (A402555-MSD1), Source: A4B1780-01											
Glyphosate	93	25	ug/L	100	ND	91	70-130	4	30	03/01/14	
Surrogate: AMPA	*86*			*100*		*84*	*70-130*			03/01/14	
EPA 548.1 - Quality Control											
Batch: A402387										Prepared: 02/25/2014	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A402387-BLK1)											
Endothall	ND	45	ug/L							02/26/14	
Blank Spike (A402387-BS1)											
Endothall	17	45	ug/L	20		83	60-111			02/26/14	
Blank Spike Dup (A402387-BSD1)											
Endothall	15	45	ug/L	20		73	60-111	13	46	02/26/14	
Matrix Spike (A402387-MS1), Source: A4B1489-04											
Endothall	4.3	45	ug/L	20	ND	22	10-122			02/26/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 549.2 - Quality Control											
Batch: A402367										Prepared: 02/25/2014	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A402367-BLK1)											
Diquat	ND	4.0	ug/L							02/28/14	
Blank Spike (A402367-BS1)											
Diquat	3.0	4.0	ug/L	4.0		76	70-130			02/28/14	
Blank Spike Dup (A402367-BSD1)											
Diquat	2.9	4.0	ug/L	4.0		72	70-130	6	30	02/28/14	
Matrix Spike (A402367-MS1), Source: A4B1780-01											
Diquat	2.2	4.0	ug/L	4.0	ND	54	70-130			02/28/14	MS1.0 ***Low***

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of Oregon - NELAP	4021	State of Washington	C997
State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA

BSK is not accredited under the NELAC program for the following parameters:

A4B1780

Monterey Bay Analytical

Monte6227

02252014

Turnaround: Standard

Due Date: 03/04/2014

Printed: 02/25/2014 12:07:12

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street, Fresno, CA 93706-1623
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

A4B1780
Monte6227

02/25/2014
5

TEMP: 3.2

* Required Fields

Client/Company Name *:	Report Attention *:	Phone * #: (831)-357-6227 FAX * #: (831)-641-0734
Monterey Bay Analytical	David Holland	E-mail: 4MBAS@Sbcglobal.net

Address *	City *	State *	Zip *
4 Justin Ct.	Monterey	CA	93940

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: Cal Am

PO # / Quote # 464

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance
Electronic Data Transfer: Y ☐ N ☑
System No. *

Sampler Name Printed / Signature: Nathan Reynolds

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☑ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water, CFW = Clorinated Finished Water, CWW = Chorinated Waste Water, BW = Bottled Water, RGW = Raw Ground Water, FW = Finished Water, WW = Waste Water, SW = Storm Water, DW = Drinking Water, SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 504	EPA 515	EPA 524 inc MTBE	EPA 525	EPA 531	EPA 547	EPA 548	EPA 549	
1		2/23	16:20	CX-BIWQ Zone #5 (84-94 ft bgs)	RGW	12030	✓	✓	✓	✓	✓	✓	✓	✓	
				5 day TAT please											
				Conductivity 41,000 uS/cm											

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
David Holland	MBAS	2/24	1600		
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery:	
Anthony Cobb		2/25/14	0912	Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material: Airbag Bubble Wrap

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/re-billing charges and interest calculated at 1 1/2 % per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorneys' fees incurred prior to or in litigation whether concluded by judgment, settlement, compromise or otherwise. The person signing for the client/Company expressley acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis requested, either type or quantities, will be noted and agreed upon this Chain of Custody. The turn around time for any samples received after 3:00 pm will begin the next business day.

SR-FL-0012-00 (Analytical)

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received

"|" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—						
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—						
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151 8270	—	—						
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	3A, 2C					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	7V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH ≤ 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: MA @ 1019 Labels checked by: G-2/1 @ 1027 RUSH Paged by: @

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

March 3, 2014 Ceres ID: 10267

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on February 25, 2014. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613. Rush 5 day turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # 12030.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (888)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
10267-001	CX-B1WQ #5 (84-94ft bags)	2/25/2014	2/23/2014	16:20

Section II: Data Summary

Sample ID:	**Method Blank**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-MB001 — Date Received: NA
Project:	12030	Sample Size: 1.000 L	QC Batch #: 1158 — Date Extracted: 28-Feb-14
Date Collected:	NA		ZB-5 MS Analysis Date: 1-Mar-14
Time Collected:	NA		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	2.15		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	103	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	109	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Sample ID:	**Ongoing Precision and Recovery**		
Client Data	**Sample Data**	**Laboratory Data**	
Name: Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-OPR001	Date Received: NA
Project: 12030	Sample Size: 1.000 L	QC Batch #: 1158	Date Extracted: 28-Feb-14
Date Collected: NA		ZB-5 MS Analysis Date: 1-Mar-14	
Time Collected: NA			

Analyte	Conc. (ng/ml)	Limits [a]	Qualifiers
2,3,7,8-TCDD	9.90	7.3-14.6	

	Labeled Standards	Conc.	Limits [a]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	98.3	25-141	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	10.1	3.7-15.8	

a. Method acceptance criteria .

Analyst: JMH

Reviewed by: BS

Sample ID:	CX-B1WQ Zone #5 (84-94ft bags)				
Client Data		**Sample Data**		**Laboratory Data**	
Name:	Monterey Bay Analytical	Matrix:	Aqueous	Lab Sample ID: 10267-001	Date Received: 25-Feb-14
Project:	12030	Sample Size:	1.061 L	QC Batch #: 1158	Date Extracted: 28-Feb-14
Date Collected:	23-Feb-14			ZB-5 MS Analysis Date: 1-Mar-14	
Time Collected:	16:20				

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	1.96		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	95.2	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	91.2	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Ceres Project ID: 10267
Temperature: 1.4 °C

Pg. Appendix G

Reports and invoices will be delivered by email in .pdf format

Client Information	Invoice Information (if different from Client Info)	Project Information
Company Name: Monterey Bay Analytical	Company Name: Same	Ceres Quote #:
Contact Name: David Holland	Contact Name:	P.O. #
Address: 4 Justin Court Ste D Monterey CA 93940	Address:	Project ID:
Ph: 831-375-6227	Ph: Fx:	**TAT** (business days)
Email: montereybayanalytical@usa.net	Email:	Std 15 days; Rush TAT available please call

Matrix abreviations:

A: Aqueous	S: Soil	AS: Ash	DW: Drinking Water
E: Effluent	SD: Sediment	C: Clay	SO: Solid
I: Influent	SL: Sludge	CS: Clay Slurry	O: Other (please comment)

TEF: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Sample Collection Date	Sample Collection Time	Matrix	# of containers	EPA 1613	EPA 8290	NCASI 551	EPA 8280	EPA 613	Other	Comments
1	CX-B1WQ Zone #5 (84-94ft bags)	2/23/2014	16:20	Aq	2	X						~~12023~~ 12030
2												(2,3,7,8 TCDD only)
3												5 day Rush Please
4												
5												
6												
7												
8												
9												
10												
11												
12												

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

Relinquished by: *(Signature and Printed Name)*	Date	Time	Received by: *(signature and Printed Name)*	Date	Time
David Holland	2/24/2014	16:00	Jm Hedin	2/25/14	10:55

Client understands that all terms desribed in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.

Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

Ceres ID: 10267	Date/Time: 2/25/14 10:55
Client Project ID: 12030	Received Temperature: 1.4°C Acceptable: Y / N
Chain of Custody Relinquished by signed? Printed, NOT signed.	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present? no Residual Cl	Y / N / NA
List COC discrepancies: 2/25/14	
List Damaged Samples: 2/25/14	

Ceres Analytical Laboratory

Process Request

Ceres ID: 10267 PB: 1158 Sample #s: 1 Due Date: 3/3/14

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash

Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (check one):

- ☐ 1613 2,3,7,8-TCDD
- ☐ 1613 2,3,7,8-TCDD/F
- ☐ 1613 Cl_4-Cl_8
- ☐ 8280 2,3,7,8-TCDD
- ☐ 8280 2,3,7,8-TCDD/F
- ☐ 8280 Appendix IX
- ☐ 8280 Cl_4-Cl_8
- ☐ 8290 2,3,7,8-TCDD
- ☐ 8290 2,3,7,8-TCDD/F
- ☐ 8290 Cl_4-Cl_8
- ☐ NCASI 551

Instructions:

Sample Volume Calculation

Instructions:
1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$Sample\ Volume = (Sample + Bottle\ Wt) - Empty\ Bottle\ Wt.$$

Ceres ID	Sample +Bottle Wt.	Empty Bottle Wt.	Sample Volume
10267-1	1567.93	507.38	1.061 L

Chemist: [signature] Date: 2/28/14

Method: 1613
SOP #: 3061

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Appendix G

				ISS/PAR	CSS				RSS
Ceres ID	Client ID	Ver.	wt/vol	chem/date/witness	chem/date/witness	AP	AB/AC	FC	chem/date/witness
0-1158-MB001	Method Blank		1.000L	(A) 2/28/14	3/1/14	NA	3/1/14	NA	3/1/14
0-1158-OPR001	OPR		1.000L						
10267-1158-001	CX-B1WQ #5	✓	1.061L						

Comments : (A) Spiked w/NSS

Soxhlet Start: 14:30 2/28/14

Soxhlet Stop: 08:33 3/1/14

Samples Logged out by: 2/28/14 11:00

Samples Returned by: NA

Note samples Depleted: NA

Sample Extracts Storage Location: Box 8

Extracts to Intrument: 11:00 3/1/14

Extracts returned to Storage Location: 08:00 3/3/14

Form M1.0 rev4

Chemist: G-283

Effective Date: 7/12/13

Method: 1613
SOP #: 301.1

Ceres Analytical Laboratory
Sample Prep Bench Sheet

Standard	Standard ID	Vol.	Expiration Date
ISS	S031212 A	10ml	3/12/14
NSS	S031212 B	10ml	3/12/14
CSS	S031212 C	10ml	3/12/14
RSS	S031212 D	20ml	3/12/17

Solvents/Solutions/Packing Materials

Name	Amount	Lot #	Exp. Date
Toluene	450ml	PB005AOTOL	8/17/14
Hexane	30,30,100,20	136735	6/10/14
Sigel	4g	P024514A	8/5/14
Basic Gel	4g	P012014A	7/20/14
Acid Gel	8g	P012014B	7/20/14
Acid Al	6g	P020414A	8/4/14
Na_2SO_4	1.5g	P120413A	6/4/14
20% DCM/Hex	30ml	L021914A	8/19/14

Chemist : G-284

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

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CERTIFICATE OF ANALYSIS

Client:	Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940	**Report Date:**	03/04/14 21:17
		Received Date:	02/25/14 09:40
		Turn Around:	5 workdays
Attention:	David Holland	**Client Project:**	Cal Am
Phone:	(831) 375-6227		
Fax:	(831) 641-0734		
Work Order(s):	4B25020		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

Enclosed are the results of analyses for samples received 02/25/14 09:40 with the Chain of Custody document. The samples were received in good condition, at 4.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CX-B1WQ Zone #5 (84-94 ft bgs)	Nathan Reynolds	12030	4B25020-01	Water	02/23/14 16:20

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Chlorinated Pesticides and/or PCBs

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Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:17

4B25020-01 **CX-B1WQ Zone #5 (84-94 ft bgs)**

Sampled: 02/23/14 16:20 **Sampled By:** Nathan Reynolds **Matrix:** Water

Sample Note: 12030

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 9056A Batch: W4C0014 Prepared: 03/01/14 11:00 Analyst: atl

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Iodide	**160**	10	250	ug/l	25	03/01/14 18:00	M-05, J

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4B1139 Prepared: 02/26/14 08:25 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND		0.010	ug/l	1	02/28/14 22:48	
4,4´-DDE	ND		0.010	ug/l	1	02/28/14 22:48	
4,4´-DDT	ND		0.010	ug/l	1	02/28/14 22:48	
Aldrin	ND		0.010	ug/l	1	02/28/14 22:48	
alpha-BHC	ND		0.010	ug/l	1	02/28/14 22:48	
Aroclor 1016	ND		0.10	ug/l	1	02/28/14 22:48	
Aroclor 1221	ND		0.10	ug/l	1	02/28/14 22:48	
Aroclor 1232	ND		0.10	ug/l	1	02/28/14 22:48	
Aroclor 1242	ND		0.10	ug/l	1	02/28/14 22:48	
Aroclor 1248	ND		0.10	ug/l	1	02/28/14 22:48	
Aroclor 1254	ND		0.10	ug/l	1	02/28/14 22:48	
Aroclor 1260	ND		0.10	ug/l	1	02/28/14 22:48	
beta-BHC	ND		0.010	ug/l	1	02/28/14 22:48	
Chlordane (tech)	ND		0.10	ug/l	1	02/28/14 22:48	
Chlorothalonil	ND		0.050	ug/l	1	02/28/14 22:48	
delta-BHC	ND		0.010	ug/l	1	02/28/14 22:48	
Dieldrin	ND		0.010	ug/l	1	02/28/14 22:48	
Endosulfan I	ND		0.010	ug/l	1	02/28/14 22:48	
Endosulfan II	ND		0.010	ug/l	1	02/28/14 22:48	
Endosulfan sulfate	ND		0.010	ug/l	1	02/28/14 22:48	
Endrin	ND		0.010	ug/l	1	02/28/14 22:48	
Endrin aldehyde	ND		0.010	ug/l	1	02/28/14 22:48	
gamma-BHC (Lindane)	ND		0.010	ug/l	1	02/28/14 22:48	
Heptachlor	ND		0.010	ug/l	1	02/28/14 22:48	
Heptachlor epoxide	ND		0.010	ug/l	1	02/28/14 22:48	
Hexachlorobenzene	ND		0.010	ug/l	1	02/28/14 22:48	
Hexachlorocyclopentadiene	ND		0.050	ug/l	1	02/28/14 22:48	
Methoxychlor	ND		0.010	ug/l	1	02/28/14 22:48	
PCBs, Total	ND		0.50	ug/l	1	02/28/14 22:48	
Propachlor	ND		0.050	ug/l	1	02/28/14 22:48	
Toxaphene	ND		1.0	ug/l	1	02/28/14 22:48	
Trifluralin	ND		0.010	ug/l	1	02/28/14 22:48	
Surr: Decachlorobiphenyl	*76 %*	Conc:*0.0727*	*70-130*	%			
Surr: Tetrachloro-meta-xylene	*84 %*	Conc:*0.0796*	*70-130*	%			

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4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:17

4B25020-01 **CX-B1WQ Zone #5 (84-94 ft bgs)**

Sampled: 02/23/14 16:20 **Sampled By:** Nathan Reynolds **Matrix:** Water

Sample Note: 12030

Chlorinated Pesticides and/or PCBs

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QUALITY CONTROL SECTION

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Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:17

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4C0014 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0014-BLK1)				Analyzed: 03/01/14 18:00						
Iodide	ND	10	ug/l							
LCS (W4C0014-BS1)				Analyzed: 03/01/14 18:00						
Iodide	45.0	10	ug/l	40.0		113	85-115			
Matrix Spike (W4C0014-MS1)	**Source: 4B25020-01**			Analyzed: 03/01/14 18:00						
Iodide	836	250	ug/l	1000	161	68	80-120			MS-01
Matrix Spike Dup (W4C0014-MSD1)	**Source: 4B25020-01**			Analyzed: 03/01/14 18:00						
Iodide	984	250	ug/l	1000	161	82	80-120	16	20	

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B1139 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B1139-BLK1)				Analyzed: 02/28/14 16:10						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							

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Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:17

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B1139 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B1139-BLK1)				Analyzed: 02/28/14 16:10						
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							
Surr: Decachlorobiphenyl	*0.0947*		*ug/l*	*0.100*		*95*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0904*		*ug/l*	*0.100*		*90*	*70-130*			
LCS (W4B1139-BS1)				Analyzed: 02/28/14 17:42						
4,4´-DDD	0.0801	0.010	ug/l	0.100		80	55-142			
4,4´-DDE	0.0848	0.010	ug/l	0.100		85	49-129			
4,4´-DDT	0.0979	0.010	ug/l	0.100		98	54-160			
Aldrin	0.0759	0.010	ug/l	0.100		76	29-115			
alpha-BHC	0.0802	0.010	ug/l	0.100		80	59-131			
beta-BHC	0.0789	0.010	ug/l	0.100		79	63-136			
delta-BHC	0.0881	0.010	ug/l	0.100		88	59-137			
Dieldrin	0.0832	0.010	ug/l	0.100		83	59-135			
Endosulfan I	0.0689	0.010	ug/l	0.100		69	28-138			
Endosulfan II	0.0754	0.010	ug/l	0.100		75	53-133			
Endosulfan sulfate	0.0877	0.010	ug/l	0.100		88	58-155			
Endrin	0.0585	0.010	ug/l	0.100		59	57-148			
Endrin aldehyde	0.0597	0.010	ug/l	0.100		60	45-139			
gamma-BHC (Lindane)	0.0802	0.010	ug/l	0.100		80	59-129			
Heptachlor	0.0817	0.010	ug/l	0.100		82	42-136			
Heptachlor epoxide	0.0809	0.010	ug/l	0.100		81	59-134			
Methoxychlor	0.0870	0.010	ug/l	0.100		87	56-167			
Surr: Decachlorobiphenyl	*0.0903*		*ug/l*	*0.100*		*90*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0827*		*ug/l*	*0.100*		*83*	*70-130*			
LCS Dup (W4B1139-BSD1)				Analyzed: 02/28/14 17:11						
4,4´-DDD	0.0789	0.010	ug/l	0.100		79	55-142	2	25	
4,4´-DDE	0.0850	0.010	ug/l	0.100		85	49-129	0.2	25	
4,4´-DDT	0.0947	0.010	ug/l	0.100		95	54-160	3	25	
Aldrin	0.0777	0.010	ug/l	0.100		78	29-115	2	25	
alpha-BHC	0.0813	0.010	ug/l	0.100		81	59-131	1	25	
beta-BHC	0.0799	0.010	ug/l	0.100		80	63-136	1	25	
delta-BHC	0.0883	0.010	ug/l	0.100		88	59-137	0.3	25	
Dieldrin	0.0844	0.010	ug/l	0.100		84	59-135	1	25	
Endosulfan I	0.0700	0.010	ug/l	0.100		70	28-138	2	25	
Endosulfan II	0.0756	0.010	ug/l	0.100		76	53-133	0.3	25	
Endosulfan sulfate	0.0871	0.010	ug/l	0.100		87	58-155	0.7	25	
Endrin	0.0740	0.010	ug/l	0.100		74	57-148	23	25	
Endrin aldehyde	0.0748	0.010	ug/l	0.100		75	45-139	22	25	
gamma-BHC (Lindane)	0.0813	0.010	ug/l	0.100		81	59-129	1	25	
Heptachlor	0.0828	0.010	ug/l	0.100		83	42-136	1	25	
Heptachlor epoxide	0.0816	0.010	ug/l	0.100		82	59-134	0.8	25	
Methoxychlor	0.0835	0.010	ug/l	0.100		84	56-167	4	25	
Surr: Decachlorobiphenyl	*0.172*		*ug/l*	*0.200*		*86*	*70-130*			

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4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:17

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4B1139 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W4B1139-BSD1)				Analyzed: 02/28/14 17:11						
Surr: Tetrachloro-meta-xylene	*0.161*		*ug/l*	*0.200*		*81*	*70-130*			

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Monterey CA, 93940

Date Received: 02/25/14 09:40
Date Reported: 03/04/14 21:17

Notes and Definitions

MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
J	Estimated conc. detected <MRL and >MDL.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1402896

Report Created for: Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Project Contact: David Holland
Project P.O.:
Project Name: CalAm

Project Received: 02/26/2014

Analytical Report reviewed & approved for release on 02/28/2014 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Monterey Bay Analytical
Project: CalAm
WorkOrder: 1402896

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifier

a1	sample diluted due to matrix interference

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method:**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #2 (237-247 ft bgs) (dissol	**1402896-002A**	**Water/DISS.**	**02/19/2014 16:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**210**	100	20	02/27/2014 19:31
Strontium	**11,000**	400	20	02/27/2014 19:31

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #3 (182-192 ft bgs) (dissol	**1402896-004A**	**Water/DISS.**	**02/21/2014 13:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	ND	100	20	02/27/2014 14:48
Strontium	**12,000**	400	20	02/27/2014 14:48

Analytical Comments: a1

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #4 (134-144 ft bgs) (dissol	**1402896-006A**	**Water/DISS.**	**02/22/2014 14:45**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**120**	100	20	02/27/2014 19:37
Strontium	**9400**	400	20	02/27/2014 19:37

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #5 (84-94 ft bgs) (dissolve	**1402896-008A**	**Water/DISS.**	**02/23/2014 16:20**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	ND	100	20	02/27/2014 19:43
Strontium	**10,000**	400	20	02/27/2014 19:43

Analytical Comments: a1

(Cont.)

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method:**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #6 (51-61 ft bgs) (dissolve	**1402896-010A**	**Water/DISS.**	**02/25/2014 09:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**100**	100	20	02/27/2014 19:48
Strontium	**9500**	400	20	02/27/2014 19:48

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #2 (237-247 ft bgs)	**1402896-001A**	**Water/TOTAL**	**02/19/2014 16:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:23
Arsenic	ND	10	20	02/27/2014 15:23
Copper	ND	10	20	02/27/2014 15:23
Lithium	**120**	100	20	02/27/2014 15:23
Zinc	ND	100	20	02/27/2014 15:23

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	104	70-130		02/27/2014 15:23

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #3 (182-192 ft bgs)	**1402896-003A**	**Water/TOTAL**	**02/21/2014 13:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:28
Arsenic	ND	10	20	02/27/2014 15:28
Copper	ND	10	20	02/27/2014 15:28
Lithium	**140**	100	20	02/27/2014 15:28
Zinc	ND	100	20	02/27/2014 15:28

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	111	70-130		02/27/2014 15:28

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #4 (134-144 ft bgs)	**1402896-005A**	**Water/TOTAL**	**02/22/2014 14:45**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:34
Arsenic	ND	10	20	02/27/2014 15:34
Copper	ND	10	20	02/27/2014 15:34
Lithium	**120**	100	20	02/27/2014 15:34
Zinc	ND	100	20	02/27/2014 15:34

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	104	70-130		02/27/2014 15:34

(Cont.)

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #5 (84-94 ft bgs)	**1402896-007A**	**Water/TOTAL**	**02/23/2014 16:20**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:40
Arsenic	ND	10	20	02/27/2014 15:40
Copper	ND	10	20	02/27/2014 15:40
Lithium	**170**	100	20	02/27/2014 15:40
Zinc	ND	100	20	02/27/2014 15:40

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	109	70-130		02/27/2014 15:40

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #6 (51-61 ft bgs)	**1402896-009A**	**Water/TOTAL**	**02/25/2014 09:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:45
Arsenic	ND	10	20	02/27/2014 15:45
Copper	ND	10	20	02/27/2014 15:45
Lithium	**140**	100	20	02/27/2014 15:45
Zinc	ND	100	20	02/27/2014 15:45

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	110	70-130		02/27/2014 15:45

Quality Control Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Date Prepared:	2/26/14	**BatchID:**	87508
Date Analyzed:	2/27/14	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	CalAm	**Sample ID:**	MB/LCS-87508 1402903-004CMS/MSD

QC Summary Report for E200.8

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aluminum	ND	475.4	50	500	-	95.1	85-115
Arsenic	ND	46.74	0.50	50	-	93.5	85-115
Barium	ND	451.9	5.0	500	-	90.4	85-115
Copper	ND	48.31	0.50	50	-	96.6	85-115
Lithium	ND	47.95	5.0	50	-	95.9	85-115
Strontium	ND	496	20	500	-	99.2	85-115
Zinc	ND	489.9	5.0	500	-	98	85-115
Surrogate Recovery							
Tb 350.917	695.7	710.9		750	93	95	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aluminum	1373	1438	500	863.6	102	115	70-130	4.62	20
Arsenic	47.91	48.87	50	0.84	94.1	96.1	70-130	1.98	20
Barium	473.2	485.6	500	18	91	93.5	70-130	2.59	20
Copper	60.61	62.62	50	13.01	95.2	99.2	70-130	3.26	20
Lithium	49.57	51.07	50	ND	99.1	102	70-130	2.98	20
Strontium	532.9	553	500	36	99.4	103	70-130	3.70	20
Zinc	632.5	641.6	500	118.4	103	105	70-130	1.43	20
Surrogate Recovery									
Tb 350.917	712.5	731	750		95	97	70-130	2.56	20

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1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1402896 **ClientCode: MBAS**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
David Holland
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940
831-375-6227 FAX: 831-641-0734

Email: 4mbas@sbcglobal.net
cc:
PO:
ProjectNo: CalAm

Bill to:
Accounts Payable
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Requested TAT: 3 days

Date Received: 02/26/2014
Date Printed: 02/26/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
					Requested Tests (See legend below)											
1402896-001	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	2/19/2014 16:10	☐		A										
1402896-002	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	2/19/2014 16:10	☐	A											
1402896-003	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	2/21/2014 13:10	☐		A										
1402896-004	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	2/21/2014 13:10	☐	A											
1402896-005	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	2/22/2014 14:45	☐		A										
1402896-006	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	2/22/2014 14:45	☐	A											
1402896-007	CX-BIWQ Zone #5 (84-94 ft bgs)	Water	2/23/2014 16:20	☐		A										
1402896-008	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	Water	2/23/2014 16:20	☐	A											
1402896-009	CX-BIWQ Zone #6 (51-61 ft bgs)	Water	2/25/2014 9:10	☐		A										
1402896-010	CX-BIWQ Zone #6 (51-61 ft bgs) (dissolved)	Water	2/25/2014 9:10	☐	A											

Test Legend:

1	METALSMS_DISS	2	METALSMS_W	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Jena Alfaro

Comments: Needs analysts initials for all reports per D.H. 4/5/13

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: MONTEREY BAY ANALYTICAL
QC Level: LEVEL 2
Work Order: 1402896
Project: CalAm
Client Contact: David Holland
Date Received: 2/26/2014
Comments: Needs analysts initials for all reports per D.H. 4/5/13
Contact's Email: 4mbas@sbcglobal.net

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1402896-001A	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/19/2014 16:10	3 days	None	☐	
1402896-002A	CX-BIWQ Zone #2 (237-247 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/19/2014 16:10	3 days	None	☐	
1402896-003A	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/21/2014 13:10	3 days	None	☐	
1402896-004A	CX-BIWQ Zone #3 (182-192 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/21/2014 13:10	3 days	None	☐	
1402896-005A	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/22/2014 14:45	3 days	None	☐	
1402896-006A	CX-BIWQ Zone #4 (134-144 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/22/2014 14:45	3 days	None	☐	
1402896-007A	CX-BIWQ Zone #5 (84-94 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/23/2014 16:20	3 days	None	☐	
1402896-008A	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/23/2014 16:20	3 days	None	☐	
1402896-009A	CX-BIWQ Zone #6 (51-61 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/25/2014 9:10	3 days	None	☐	
1402896-010A	CX-BIWQ Zone #6 (51-61 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/25/2014 9:10	3 days	None	☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

125mL HDPE w/ HNO3 = 125mL HDPE Bottle w/ Nitric Acid
250mL HDPE w/ HNO3 = 250mL HDPE Bottle w/ HNO3

14028896

Appendix G

RUSH

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAY

☐ GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW)

Report To: David Holland Bill To:
Company: Monterey Bay Analytical Services
4 Justin Ct. Suite D
Monterey, Ca 93940 E-Mail: 4mbas@sbcglobal.net
Tele: (831) 375 - 6227 Fax: (831) 641-0734
Project #: Project Name: CalAm
Project Location:
Sampler Signature: Nathan Reynolds

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	HCL	HNO_3	Other	MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other: Al, As, Cu, Li, Zn	Other: Ba, Sr	Other	Comments: Filter Samples for Metals analysis: Yes / No
	CX-BIWQ Zone #2 (237-247 ft bgs)	2/19/14	16:10	1	p	X					X		X																			X			11965
	CX-BIWQ Zone #2 (237-247 ft bgs) (dissolved)	2/19/14	16:10	1	p	X					X		X																				X		11965 (dissolved)
	CX-BIWQ Zone #3 (182-192 ft bgs)	2/21/14	13:10	1	p	X					X		X																			X			12015
	CX-BIWQ Zone #3 (182-192 ft bgs) (dissolved)	2/21/14	13:10	1	p	X					X		X																				X		12015 (dissolved)
	CX-BIWQ Zone #4 (134-144 ft bgs)	2/22/14	14:45	1	p	X					X		X																			X			12029
	CX-BIWQ Zone #4 (134-144 ft bgs) (dissolved)	2/22/14	14:45	1	p	X					X		X																				X		12029 (dissolved)
	CX-BIWQ Zone #5 (84-94 ft bgs)	2/23/14	16:20	1	P	X					X		X																			X			12030
	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	2/23/14	16:20	1	P	X					X		X																				X		12030 (dissolved)
	CX-BIWQ Zone #6 (51-61 ft bgs)	2/25/14	09:10	1	p	X					X		X																			X			12148
	CX-BIWQ Zone #6 (51-61 ft bgs) (Dissolved)	2/25/14	09:10	1	p	X					X		X																				X		12148 (dissolved)

REC'D SEALED & INTACT VIA UPS ~~On Trac~~

Relinquished By:	Date:	Time:	Received By:
David Holland	2/25/14	1200	2/26/14 9:15
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____

COMMENTS: The sample conductivity ranges from 25,000 µS/cm to 40,000 µS/cm

G-304

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Monterey Bay Analytical**	Date and Time Received:	**2/26/2014 11:35:12 AM**
Project Name:	**CalAm**	LogIn Reviewed by:	Jena Alfaro
WorkOrder N°:	**1402896** Matrix: Water	Carrier:	UPS

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☑	

** NOTE: If the "No" box is checked, see comments below.*

Comments:

MONTEREY BAY ANALYTICAL SERVICES
PRECISION • ACCURACY • DEPENDABILITY
4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

pH QC Summary (SM 4500 H+)

Date Analyzed: 2/23/2014

	Value (pH Units)	Result (pH Units)	% Rec	Acceptance Criteria %Rec
IPC	6.86	6.88	100.3	95-105

Sample ID	Sample (pH Units)	Sample Dup (pH Units)	% RPD	Acceptance Criteria % RPD
AB12030	7.2	7.2	0.0	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

MONTEREY BAY ANALYTICAL SERVICES
PRECISION • ACCURACY • DEPENDABILITY
4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

MBAS QC Summary (SM 5540C)

Date Analyzed: 2/23/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	0.100	0.087	87	80-120

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

300.0 QC Summary

All units expressed in mg/L

		F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
		2	20	2	20	2	2	2
IPC		1.96	19.40	2.07	19.27	2.02	1.90	1.70
Recovery	90-110%	97.88	97.02	103.50	96.34	100.94	95.24	85.13
CCV1		1.93	19.49	2.08	19.43	2.03	1.92	1.79
Recovery	90-110%	96.57	97.43	104.18	97.15	101.47	95.84	89.38
RPD	10%	1.34	0.42	0.65	0.84	0.52	0.63	4.87

		F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
		2	20	2	20	2	2	2
AB12026		0.11	70.57	0.24	35.16	0.02	7.60	0.00
AB12026+LFM		2.07	90.75	1.93	54.67	1.78	9.82	1.32
AB12026+LFMD		2.03	90.42	1.90	54.28	1.75	9.80	1.31
Average		2.05	90.59	1.91	54.48	1.76	9.81	1.31
Recovery	80-120%	96.94	100.07	83.77	96.59	87.18	110.54	65.65
RPD	10%	1.62	0.36	1.66	0.72	1.62	0.20	0.57

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PRECISION • ACCURACY • DEPENDABILITY
4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 2/24/2014

	Value (umhos/cm)	Result (umhos/cm)	% Rec	Acceptance Criteria %Rec
IPC	1412	1412	100.0%	95-105

Sample ID	Sample (umhos/cm)	Sample Dup (umhos/cm)	% RPD	Acceptance Criteria % RPD
AB12170	2780	2782	0.1%	10
AB12203	118	118	0.0%	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 2/24/2014

	Value (NTU)	Result (NTU)	% Rec	Acceptance Criteria %Rec
IPC	1.00	1.01	101.0	95-105

Sample ID	Sample (NTU)	Sample Dup (NTU)	% RPD	Acceptance Criteria % RPD
AB12030	0.77	0.78	0.9	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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TDS/TSS QC Summary (SM 2540C/D)

Date Analyzed: 2/25/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC 100	100	106	106	80-120
IPC 500	500	500	100	90-110

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12141	186	191	2.7	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Differer

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Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 2/25/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	5.0	4.820	96.4	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB11639	29.800	5.000	34.800	35.200	100	108	1.1	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

Batch # 20140225

Analyte/		IC	Prep	LCS	%Rec	LCSD	%Rec	%Diff	IC Verification			QCS (95-105%)		
WL	Range	Blank	Blank	Value	85-115%	Value	85-115%		Value	Result	%Rec	Value	Result	%Rec
B 249.678	0.05-5ppm	0.00	0.00	1.03	103.3%	1.04	104.1%	0.7%	1	1.01	100.8%	1	0.99	99.3%
B 249.772	0.05-5ppm	0.00	0.00	1.03	102.7%	1.04	103.9%	1.2%	1	1.00	99.5%	1	0.99	99.1%
Ca 317.933	50-300ppm	-4.32	-4.33	49.6	99.3%	50.9	101.7%	2.4%	50	49.1	98.3%	50	48.7	97.4%
Ca 396.847	0.5-50ppm	-0.23	-0.24	50.1	100.3%	51.1	102.3%	2.0%	50	49.7	99.5%	50	49.5	99.1%
Cu 324.754	10ppb-100ppm	-7.83	-9.32	1008	100.8%	1031	103.1%	2.3%	1000	989	98.9%	1000	1002	100.2%
Cu 327.395	10ppb-100ppm	-3.71	-2.81	1018	101.8%	1037	103.7%	1.8%	1000	989	98.9%	1000	1005	100.5%
Fe 238.204	10ppb-100ppm	-0.01	0.65	998	99.8%	1008	100.8%	1.1%	1000	985	98.5%	1000	980	98.0%
Fe 259.940	10ppb-100ppm	-1.92	-2.32	1008	100.8%	1025	102.5%	1.6%	1000	992	99.2%	1000	995	99.5%
K 766.491	0.5-750ppm	0.06	0.04	9.9	99.2%	10.2	101.9%	2.7%	10	9.9	98.6%	10	9.9	98.9%
Mg 202.582	50-1000ppm	-1.92	-1.95	51.3	102.7%	51.9	103.8%	1.1%	50	50.1	100.3%	50	50.2	100.3%
Mg 279.078	0.5-50ppm	0.04	0.01	50.3	100.5%	50.8	101.6%	1.1%	50	49.3	98.7%	50	49.1	98.2%
Mn 257.610	10ppb-11ppm	-6.24	-6.61	1005	100.5%	1021	102.1%	1.5%	1000	988	98.8%	1000	978	97.8%
Mn 260.568	10ppb-11ppm	-6.06	-6.71	1006	100.6%	1015	101.5%	0.9%	1000	986	98.6%	1000	974	97.4%
Na 568.821	50-1000ppm	8.44	6.58	51.4	102.7%	54.1	108.1%	5.1%	50	50.7	101.3%	50	51.1	102.2%
Na 589.592	0.5-50ppm	0.11	0.04	49.9	99.9%	51.4	102.8%	2.9%	50	49.7	99.4%	50	49.6	99.1%
Si 251.611	0.5-200ppm	0.03	-0.03	51.1	102.3%	51.4	102.7%	0.4%	50	49.4	98.8%	107	105.0	98.2%
Si 252.411	0.5-200ppm	0.07	-0.01	50.9	101.8%	51.3	102.5%	0.7%	50	49.2	98.5%	107	105.0	98.1%
Zn 213.857	10ppb-50ppm	-12.44	-12.72	999	99.9%	1008	100.8%	0.9%	1000	974	97.4%	1000	967	96.7%

Matrix Spikes

Sample ID AB12040

Analyte/	Sample	MS	%Rec	MSD	%Rec	%Diff	CCV (90-110%)			%Diff	CC
WL	Value	Value	70-130%	Value	70-130%		Value	Result	%Rec	10%	Blank
B 249.678	0.09	1.12	102.9%	1.09	100.2%	2.5%	1	1.04	104.1%	3.3%	0.00
B 249.772	0.09	1.13	103.9%	1.11	101.8%	1.8%	1	1.06	105.6%	5.9%	0.00
Ca 317.933	136.6	186.1	99.0%	184.0	94.8%	1.1%	50	50.3	100.6%	2.3%	-4.35
Ca 396.847	*115.2*	*149.6*	*68.7%*	*148.1*	*65.8%*	*1.0%*	50	50.4	100.9%	1.4%	-0.25
Cu 324.754	31	1071	104.0%	1053	102.2%	1.7%	1000	1012	101.2%	2.3%	-7.80
Cu 327.395	34	1106	107.2%	1085	105.1%	1.9%	1000	1037	103.7%	4.8%	-7.04
Fe 238.204	761	1738	97.7%	1717	95.6%	1.2%	1000	1004	100.4%	1.9%	-2.79
Fe 259.940	775	1772	99.7%	1754	97.9%	1.0%	1000	1007	100.7%	1.4%	-1.97
K 766.491	3.6	13.9	103.1%	13.7	100.5%	1.9%	10	10.1	100.9%	2.2%	0.07

Mg 202.582	23.1	77.8	109.6%	76.7	107.4%	1.4%	50	52.5	105.0%	4.6%	-1.95
Mg 279.078	22.7	73.2	101.0%	72.2	99.0%	1.4%	50	50.3	100.6%	1.9%	0.01
Mn 257.610	87	1104	101.7%	1090	100.3%	1.3%	1000	1011	101.1%	2.3%	-7.07
Mn 260.568	89	1111	102.2%	1097	100.8%	1.3%	1000	1017	101.7%	3.1%	-7.40
Na 568.821	96.9	149.1	104.3%	145.2	96.5%	2.7%	50	55.1	110.2%	8.4%	6.53
Na 589.592	*90.0*	*140.9*	*101.7%*	*138.3*	*96.6%*	*1.8%*	50	51.5	103.0%	3.6%	0.44
Si 251.611	31.0	81.6	101.1%	80.6	99.0%	1.3%	50	52.4	104.8%	5.9%	-0.08
Si 252.411	30.5	79.8	98.4%	78.6	96.2%	1.4%	50	51.2	102.3%	3.8%	-0.02
Zn 213.857	22	1051	102.9%	1040	101.8%	1.0%	1000	1013	101.3%	3.9%	-16.83

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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 3/5/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC Low	0.050	0.043	86	90-110
IPC	0.500	0.462	92.4	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12148	0.020	0.500	0.536	0.550	103.2	106	2.6	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery

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ELAP Certification Number: 2385

Cal Am Water Company
Travis Peterson
511 Pacific Lodge Road, Suite 100
Pacific Grove, CA 93950

Wednesday, March 12, 2014

Lab Number: AB12148

Collection Date/Time:	2/25/2014	9:10	Sample Collector:	REYNOLDS, N	
Submittal Date/Time:	2/25/2014	12:40	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-BIWQ Zone #6 (51-61 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Alkalinity, Total (as CaCO3)	SM2320B	mg/L	**103**		2		2/26/2014	LRH
Aluminum, Total	EPA200.8	ug/L	**Not Detected**		10	1000	2/27/2014	MC LAB
Ammonia-N, Dissolved	SM4500NH3 D	mg/L	**Not Detected**		0.05		3/5/2014	DH
Arsenic, Total	EPA200.8	ug/L	**Not Detected**		1	10	2/27/2014	MC LAB
Barium, Dissolved	EPA200.8	ug/L	**100**		10		2/27/2014	MC LAB
Bicarbonate (as HCO3-)	SM2320B	mg/L	**126**		10		2/26/2014	DH
Boron, Dissolved	EPA200.7	mg/L	**2.40**		0.05		3/5/2014	DC
Bromide, Dissolved	EPA300.0	mg/L	**38**		10		2/26/2014	DC
Calcium	EPA200.7	mg/L	**710**		0.5		3/5/2014	DC
Calcium, Dissolved	EPA200.7	mg/L	**709**		0.5		3/5/2014	DC
Carbamates by HPLC (EPA 531)	EPA531	ug/L	**Not Detected**	E			2/25/2014	BSK
Carbonate as CaCO3	SM2320B	mg/L	**Not Detected**		10		2/26/2014	DH
Chloride, Dissolved	EPA300.0	mg/L	**13675**		100		2/26/2014	DC
Chlorinated Pesticides and PCB (EP	EPA508	ug/L	**Not Detected**	E			3/4/2014	WECK
Color, Apparent (Unfiltered)	SM2120B	Color Units	**4**		3	15	2/25/2014	LRH
Copper, Total	EPA200.8	ug/L	**Not Detected**		4	1300	2/27/2014	MC LAB
DBCP & EDB	EPA504.1	ug/L	**Not Detected**	E			2/20/2014	BSK
Dioxin	EPA-5 1613B	pg/L	**Not Detected**	E			3/9/2014	CERES
Diquat (EPA 549)	EPA549	ug/L	**Not Detected**	E			2/25/2014	BSK
Dissolved Anions		Meq/L	**424.8**				3/6/2014	DH
Dissolved Cations		Meq/L	**387.0**				3/6/2014	DH
Endothall	EPA548.1	ug/L	**Not Detected**	E			2/20/2014	BSK
Fluoride, Dissolved	EPA300.0	mg/L	**0.3**		0.1		2/26/2014	DC
Glyphosate	EPA547	ug/L	**Not Detected**	E			2/20/2014	BSK
Hardness (as CaCO3)	SM2340B	mg/L	**5561**		10		3/12/2014	DH
Hydroxide	SM2320B	mg/L	**Not Detected**		5		2/26/2014	DH
Iodide	EPA9056M	ug/L	**Not Detected**	E	10		3/1/2014	WECK
Iron	EPA200.7	ug/L	**162**		10	300	3/5/2014	DC
Iron, Dissolved	EPA200.7	ug/L	**57**		10	300	3/5/2014	DC
Kjehldahl Nitrogen, Dissolved	SM4500-NH3 B,	mg/L	**Not Detected**		0.5		3/3/2014	HM
Lithium	EPA200.8	ug/L	**140**		1		2/27/2014	MC LAB
Magnesium	EPA200.7	mg/L	**920**		0.5		3/5/2014	DC
Magnesium, Dissolved	EPA200.7	mg/L	**928**		1		3/5/2014	DC
Manganese, Dissolved	EPA200.7	ug/L	**172**		10	50	3/5/2014	DC
Manganese, Total	EPA200.7	ug/L	**131**		10	50	2/25/2014	DC

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See Report attachments T = Temperature Exceedance

Lab Number: **AB12148**

Collection Date/Time:	2/25/2014	9:10	Sample Collector:	REYNOLDS, N	
Submittal Date/Time:	2/25/2014	12:40	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-BIWQ Zone #6 (51-61 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
MBAS (Surfactants)	SM5540C	mg/L	**Not Detected**	H	0.05	0.50	2/28/2014	DC
Nitrate as NO3	EPA300.0	mg/L	**3**		1	45	2/26/2014	DC
Nitrate+Nitrite as N	EPA300.0	mg/L	**0.8**		0.1		2/26/2014	DC
Nitrite as NO2-N, Dissolved	EPA300.0	mg/L	**Not Detected**		0.1		2/26/2014	DC
Odor Threshold at 60 C	SM2150B	TON	**1**		1	3	2/25/2014	LRH
o-Phosphate-P, Dissolved	Hach 8190	mg/L	**Not Detected**		0.1		2/26/2014	DC
pH (Field Test)	SM4500-H+B	pH	**7.18**				2/25/2014	NR
pH (Laboratory)	SM4500-H+B	pH (H)	**7.3**				2/25/2014	HM
Phenoxy Acid Herbicides (515.3)	EPA515.3	ug/L	**Not Detected**	E			2/23/2014	BSK
Phosphorus, Dissolved	HACH 8190	mg/L	**Not Detected**		0.03		3/2/2014	DH
Potassium	EPA200.7	mg/L	**187**		0.5		2/25/2014	DC
Potassium, Dissolved	EPA200.7	mg/L	**186**		0.1		3/5/2014	DC
QC Ratio TDS/SEC	Calculation		**0.67**				2/28/2014	DH
Reg. Org. Compounds (EPA 525)	EPA525	ug/L	**Not Detected**	E			2/22/2014	BSK
Silica as SiO2, Dissolved	EPA200.7	mg/L	**18.0**		0.5		3/5/2014	DC
Sodium	EPA200.7	mg/L	**6253**		0.5		2/25/2014	DC
Sodium, Dissolved	EPA200.7	mg/L	**6219**		0.5		3/5/2014	DC
Specific Conductance (E.C)	SM2510B	umhos/cm	**37260**		1	900	2/25/2014	HM
Specific Conductance (E.C) (Field)	SM2510B	umhos/cm	**35952**		1		2/25/2014	NR
Strontium, Dissolved	EPA200.8	ug/L	**9500**		5		2/27/2014	MC LAB
Sulfate	EPA300.0	mg/L	**1748**		1	250	2/26/2014	DC
Temperature (Field)	SM2550	° C	**17.5**				2/25/2014	NR
Total Cations		Meq/L	**387.9**				3/6/2014	DH
Total Diss. Solids	SM2540C	mg/L	**24800**		10	500	2/26/2014	HM
Turbidity	EPA180.1	NTU	**0.45**		0.05	5.0	2/25/2014	LRH
Turbidity (Field)	EPA180.1	NTU	**0.33**		0.05		2/25/2014	NR
Volatile Org. Compounds (524)	EPA524	ug/L	**Not Detected**	E			2/19/2014	BSK
Zinc, Total	EPA200.8	ug/L	**Not Detected**		10	5000	2/27/2014	MC LAB

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level

H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See Report attachments T = Temperature Exceedance

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12148 Zone 6 Diss**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	6219	0.04350	270.53
Potassium	186	0.02558	4.76
Calcium	709	0.04990	35.38
Magnesium	928	0.08229	76.37
NH3-N	0	0.07143	0.00
		SUM	387.03

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	103	0.02000	2.06
Sulfate	1748	0.02082	36.39
Chloride	13675	0.02821	385.77
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0.8	0.07138	0.06
Phosphate-P	0.0	0.01031	0.00
Fluoride	0.0	0.05264	0.00
Bromide	38.0	0.01252	0.48
		SUM	424.76

ANION-CATION BALANCE **-5** (% DIFFERENCE)
Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	37260	
Cation Sum X 100	38703	**104%**
Anion Sum X 100	42476	**114%**

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (S	**36.2**
Ca+Mg+Na	382.27
HCO3/Ca	0.06
dS/m	37.26
Value Table II	1.5
SAR adj	**43.4**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12148 Zone 6 Total**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	6253	0.04350	272.01
Potassium	187	0.02558	4.78
Calcium	710	0.04990	35.43
Magnesium	920	0.08229	75.71
NH3-N	0	0.07143	0.00
		SUM	387.92

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	103	0.02000	2.06
Sulfate	1748	0.02082	36.39
Chloride	13675	0.02821	385.77
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0.8	0.07138	0.06
Phosphate-P	0.0	0.01031	0.00
Fluoride	0.0	0.05264	0.00
Bromide	38.0	0.01252	0.48
		SUM	424.76

ANION-CATION BALANCE **-5** (% DIFFERENCE)
Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	37260	
Cation Sum X 100	38792	**104%**
Anion Sum X 100	42476	**114%**

Note: In Natural Waters, Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (S	**36.5**
Ca+Mg+Na	383.14
HCO3/Ca	0.06
dS/m	37.26
Value Table II	1.5
SAR adj	**43.8**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

BSK Associates Engineers & Laboratories
Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A4B1898 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/26/2014. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Monterey Bay Analytical	**Invoice To:**	Monterey Bay Analytical
Report To:	David Holland	**Invoice Attn:**	David Holland
Project #:	-	**Project PO#:**	-
Received:	2/26/2014 - 10:30		
Report Due:	3/05/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 3.8

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
BS6.0	BS/BSD RPD exceeded method acceptance limits
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.

Report Distribution

Recipient(s)	Report Format
David Holland	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1898-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #6 (51-61 ft bgs) // 12148

Sample Date - Time: 02/25/14 - 09:10
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A402472	02/27/14	02/28/14	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A402472	02/27/14	02/28/14	
Surrogate: 1-Br-2-Nitrobenzene	EPA 504.1	97 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A402552	02/28/14	03/02/14	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A402552	02/28/14	03/02/14	
2,4-D	EPA 515.3	ND	10	ug/L	1	A402552	02/28/14	03/02/14	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A402552	02/28/14	03/02/14	
Dalapon	EPA 515.3	ND	10	ug/L	1	A402552	02/28/14	03/02/14	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A402552	02/28/14	03/02/14	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A402552	02/28/14	03/02/14	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A402552	02/28/14	03/02/14	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A402552	02/28/14	03/02/14	
Surrogate: DCPAA	EPA 515.3	71 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A402445	02/28/14	02/28/14	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A402445	02/28/14	02/28/14	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A402445	02/28/14	02/28/14	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A402445	02/28/14	02/28/14	
Acetone	EPA 524.2	ND	10	ug/L	1	A402445	02/28/14	02/28/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1898-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #6 (51-61 ft bgs) // 12148

Sample Date - Time: 02/25/14 - 09:10
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Benzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	BS1.0, CV0.0
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A402445	02/28/14	02/28/14	BS1.0
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	BS1.0
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	BS1.0, CV0.0
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A402445	02/28/14	02/28/14	BS1.0
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A402445	02/28/14	02/28/14	BS1.0, CV0.0
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A402445	02/28/14	02/28/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4B1898-01
Sampled By: Nathan Reynolds
Sample Description: CX-BIWQ Zone #6 (51-61 ft bgs) // 12148

Sample Date - Time: 02/25/14 - 09:10
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A402445	02/28/14	02/28/14	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	96 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	96 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A402556	03/01/14	03/03/14	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A402556	03/01/14	03/03/14	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A402556	03/01/14	03/03/14	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A402556	03/01/14	03/03/14	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A402556	03/01/14	03/03/14	BS1.0
Bromacil	EPA 525.2	ND	10	ug/L	1	A402556	03/01/14	03/03/14	BS1.0
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A402556	03/01/14	03/03/14	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A402556	03/01/14	03/03/14	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A402556	03/01/14	03/03/14	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A402556	03/01/14	03/03/14	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A402556	03/01/14	03/03/14	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A402556	03/01/14	03/03/14	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A402556	03/01/14	03/03/14	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A402556	03/01/14	03/03/14	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A402556	03/01/14	03/03/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	114 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A402440	02/26/14	02/27/14	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A402440	02/26/14	02/27/14	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A402440	02/26/14	02/27/14	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A402440	02/26/14	02/27/14	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A402440	02/26/14	02/27/14	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A402440	02/26/14	02/27/14	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A402440	02/26/14	02/27/14	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A402440	02/26/14	02/27/14	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A402555	03/01/14	03/01/14	
Surrogate: AMPA	EPA 547	109 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A402503	02/27/14	02/28/14	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A402584	03/03/14	03/03/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A402472										Prepared: 02/27/2014	
Prep Method: EPA 504.1										Analyst: PYA	
Blank (A402472-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							02/28/14	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							02/28/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.2*			*2.3*		*97*	*70-130*			02/28/14	
Blank Spike (A402472-BS1)											
Dibromochloropropane (DBCP)	0.13	0.010	ug/L	0.12		105	70-130			02/28/14	
Ethylene Dibromide (EDB)	0.12	0.020	ug/L	0.12		96	70-130			02/28/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.2*			*2.3*		*98*	*70-130*			02/28/14	
Blank Spike Dup (A402472-BSD1)											
Dibromochloropropane (DBCP)	0.13	0.010	ug/L	0.12		104	70-130	1	20	02/28/14	
Ethylene Dibromide (EDB)	0.12	0.020	ug/L	0.12		96	70-130	0	20	02/28/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.2*			*2.3*		*97*	*70-130*			02/28/14	
Matrix Spike (A402472-MS1), Source: A4B1302-02											
Dibromochloropropane (DBCP)	0.13	0.010	ug/L	0.12	ND	105	65-135			02/28/14	
Ethylene Dibromide (EDB)	0.12	0.020	ug/L	0.12	ND	95	65-135			02/28/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.2*			*2.3*		*96*	*70-130*			02/28/14	
EPA 515.3 - Quality Control											
Batch: A402552										Prepared: 02/28/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A402552-BLK1)											
2,4,5-T	ND	1.0	ug/L							03/02/14	
2,4,5-TP (Silvex)	ND	1.0	ug/L							03/02/14	
2,4-D	ND	10	ug/L							03/02/14	
Bentazon	ND	2.0	ug/L							03/02/14	
Dalapon	ND	10	ug/L							03/02/14	
Dicamba	ND	1.5	ug/L							03/02/14	
Dinoseb	ND	2.0	ug/L							03/02/14	
Pentachlorophenol	ND	0.20	ug/L							03/02/14	
Picloram	ND	1.0	ug/L							03/02/14	
Surrogate: DCPAA	*46*			*58*		*80*	*70-130*			03/02/14	
Blank Spike (A402552-BS1)											
2,4,5-T	4.1	1.0	ug/L	4.0		103	70-130			03/02/14	
2,4,5-TP (Silvex)	0.84	1.0	ug/L	0.80		105	70-130			03/02/14	
2,4-D	0.46	10	ug/L	0.40		115	70-130			03/02/14	
Bentazon	8.9	2.0	ug/L	8.0		111	70-130			03/02/14	
Dalapon	4.1	10	ug/L	4.0		101	70-130			03/02/14	
Dicamba	6.2	1.5	ug/L	6.0		103	70-130			03/02/14	
Dinoseb	0.82	2.0	ug/L	0.80		102	70-130			03/02/14	
Pentachlorophenol	0.16	0.20	ug/L	0.16		100	70-130			03/02/14	
Picloram	0.41	1.0	ug/L	0.40		104	70-130			03/02/14	
Surrogate: DCPAA	*47*			*58*		*80*	*70-130*			03/02/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A402552										Prepared: 02/28/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A402552-BSD1)											
2,4,5-T	4.2	1.0	ug/L	4.0		105	70-130	2	20	03/02/14	
2,4,5-TP (Silvex)	0.83	1.0	ug/L	0.80		103	70-130	2	20	03/02/14	
2,4-D	0.47	10	ug/L	0.40		118	70-130	2	20	03/02/14	
Bentazon	8.7	2.0	ug/L	8.0		109	70-130	2	20	03/02/14	
Dalapon	4.2	10	ug/L	4.0		106	70-130	4	20	03/02/14	
Dicamba	6.1	1.5	ug/L	6.0		101	70-130	2	20	03/02/14	
Dinoseb	0.81	2.0	ug/L	0.80		102	70-130	1	20	03/02/14	
Pentachlorophenol	0.16	0.20	ug/L	0.16		98	70-130	2	20	03/02/14	
Picloram	0.43	1.0	ug/L	0.40		107	70-130	4	20	03/02/14	
Surrogate: DCPAA	*45*			*58*		*78*	*70-130*			03/02/14	
Matrix Spike (A402552-MS1), Source: A4B1782-01											
2,4,5-T	4.2	1.0	ug/L	4.0	ND	104	70-130			03/02/14	
2,4,5-TP (Silvex)	0.85	1.0	ug/L	0.80	ND	106	70-130			03/02/14	
2,4-D	0.47	10	ug/L	0.40	ND	117	70-130			03/02/14	
Bentazon	8.8	2.0	ug/L	8.0	ND	110	70-130			03/02/14	
Dalapon	4.2	10	ug/L	4.0	ND	105	70-130			03/02/14	
Dicamba	6.0	1.5	ug/L	6.0	ND	101	70-130			03/02/14	
Dinoseb	0.82	2.0	ug/L	0.80	ND	102	70-130			03/02/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	97	70-130			03/02/14	
Picloram	0.41	1.0	ug/L	0.40	ND	103	70-130			03/02/14	
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			03/02/14	
Matrix Spike Dup (A402552-MSD1), Source: A4B1782-01											
2,4,5-T	4.1	1.0	ug/L	4.0	ND	103	70-130	1	20	03/02/14	
2,4,5-TP (Silvex)	0.84	1.0	ug/L	0.80	ND	105	70-130	1	20	03/02/14	
2,4-D	0.51	10	ug/L	0.40	ND	127	70-130	9	20	03/02/14	
Bentazon	8.8	2.0	ug/L	8.0	ND	110	70-130	0	20	03/02/14	
Dalapon	4.1	10	ug/L	4.0	ND	102	70-130	3	20	03/02/14	
Dicamba	6.0	1.5	ug/L	6.0	ND	100	70-130	1	20	03/02/14	
Dinoseb	0.80	2.0	ug/L	0.80	ND	101	70-130	2	20	03/02/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	97	70-130	0	20	03/02/14	
Picloram	0.40	1.0	ug/L	0.40	ND	99	70-130	4	20	03/02/14	
Surrogate: DCPAA	*46*			*58*		*80*	*70-130*			03/02/14	
EPA 524.2 - Quality Control											
Batch: A402445										Prepared: 02/28/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A402445-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							02/28/14	
1,1,1-Trichloroethane	ND	0.50	ug/L							02/28/14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							02/28/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							02/28/14	
1,1,2-Trichloroethane	ND	0.50	ug/L							02/28/14	
1,1-Dichloroethane	ND	0.50	ug/L							02/28/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A402445										Prepared: 02/28/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A402445-BLK1)											
1,1-Dichloroethene	ND	0.50	ug/L							02/28/14	
1,1-Dichloropropene	ND	0.50	ug/L							02/28/14	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							02/28/14	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							02/28/14	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							02/28/14	
1,2-Dichlorobenzene	ND	0.50	ug/L							02/28/14	
1,2-Dichloroethane	ND	0.50	ug/L							02/28/14	
1,2-Dichloropropane	ND	0.50	ug/L							02/28/14	
1,3,5-Trimethylbenzene	ND	0.50	ug/L							02/28/14	
1,3-Dichlorobenzene	ND	0.50	ug/L							02/28/14	
1,3-Dichloropropane	ND	0.50	ug/L							02/28/14	
1,4-Dichlorobenzene	ND	0.50	ug/L							02/28/14	
2,2-Dichloropropane	ND	0.50	ug/L							02/28/14	
2-Butanone	ND	5.0	ug/L							02/28/14	
2-Chlorotoluene	ND	0.50	ug/L							02/28/14	
2-Hexanone	ND	10	ug/L							02/28/14	
4-Chlorotoluene	ND	0.50	ug/L							02/28/14	
4-Methyl-2-pentanone	ND	5.0	ug/L							02/28/14	
Acetone	ND	10	ug/L							02/28/14	
Benzene	ND	0.50	ug/L							02/28/14	
Bromobenzene	ND	0.50	ug/L							02/28/14	
Bromochloromethane	ND	0.50	ug/L							02/28/14	
Bromodichloromethane	ND	0.50	ug/L							02/28/14	
Bromoform	ND	0.50	ug/L							02/28/14	
Bromomethane	ND	0.50	ug/L							02/28/14	
Carbon Tetrachloride	ND	0.50	ug/L							02/28/14	
Chlorobenzene	ND	0.50	ug/L							02/28/14	
Chloroethane	ND	0.50	ug/L							02/28/14	
Chloroform	ND	0.50	ug/L							02/28/14	
Chloromethane	ND	0.50	ug/L							02/28/14	
cis-1,2-Dichloroethene	ND	0.50	ug/L							02/28/14	
cis-1,3-Dichloropropene	ND	0.50	ug/L							02/28/14	
Dibromochloromethane	ND	0.50	ug/L							02/28/14	
Dibromomethane	ND	0.50	ug/L							02/28/14	
Dichlorodifluoromethane	ND	0.50	ug/L							02/28/14	
Dichloromethane	ND	0.50	ug/L							02/28/14	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							02/28/14	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							02/28/14	
Ethylbenzene	ND	0.50	ug/L							02/28/14	
Hexachlorobutadiene	ND	0.50	ug/L							02/28/14	
Isopropylbenzene	ND	0.50	ug/L							02/28/14	
m,p-Xylenes	ND	0.50	ug/L							02/28/14	
Methyl-t-butyl ether	ND	0.50	ug/L							02/28/14	
Naphthalene	ND	0.50	ug/L							02/28/14	
n-Butylbenzene	ND	0.50	ug/L							02/28/14	
n-Propylbenzene	ND	0.50	ug/L							02/28/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402445 Prepared: 02/28/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A402445-BLK1)											
o-Xylene	ND	0.50	ug/L							02/28/14	
p-Isopropyltoluene	ND	0.50	ug/L							02/28/14	
sec-Butylbenzene	ND	0.50	ug/L							02/28/14	
Styrene	ND	0.50	ug/L							02/28/14	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							02/28/14	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							02/28/14	
tert-Butylbenzene	ND	0.50	ug/L							02/28/14	
Tetrachloroethene (PCE)	ND	0.50	ug/L							02/28/14	
Toluene	ND	0.50	ug/L							02/28/14	
trans-1,2-Dichloroethene	ND	0.50	ug/L							02/28/14	
trans-1,3-Dichloropropene	ND	0.50	ug/L							02/28/14	
Trichloroethene (TCE)	ND	0.50	ug/L							02/28/14	
Trichlorofluoromethane	ND	5.0	ug/L							02/28/14	
Vinyl Chloride	ND	0.50	ug/L							02/28/14	
Surrogate: 1,2-Dichlorobenzene-d4	*4.7*			*5.0*		*94*	*70-130*			02/28/14	
Surrogate: Bromofluorobenzene	*47*			*50*		*94*	*70-130*			02/28/14	
Blank Spike (A402445-BS1)											
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		107	70-130			02/28/14	
1,1,1-Trichloroethane	11	0.50	ug/L	10		107	70-130			02/28/14	
1,1,2,2-Tetrachloroethane	10	0.50	ug/L	10		104	70-130			02/28/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	12	10	ug/L	10		116	70-130			02/28/14	
1,1,2-Trichloroethane	11	0.50	ug/L	10		107	70-130			02/28/14	
1,1-Dichloroethane	11	0.50	ug/L	10		108	70-130			02/28/14	
1,1-Dichloroethene	11	0.50	ug/L	10		108	70-130			02/28/14	
1,1-Dichloropropene	11	0.50	ug/L	10		113	70-130			02/28/14	
1,2,3-Trichlorobenzene	11	0.50	ug/L	10		106	70-130			02/28/14	
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		109	70-130			02/28/14	
1,2,4-Trimethylbenzene	11	0.50	ug/L	10		106	70-130			02/28/14	
1,2-Dichlorobenzene	11	0.50	ug/L	10		112	70-130			02/28/14	
1,2-Dichloroethane	10	0.50	ug/L	10		105	70-130			02/28/14	
1,2-Dichloropropane	11	0.50	ug/L	10		108	70-130			02/28/14	
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		108	70-130			02/28/14	
1,3-Dichlorobenzene	10	0.50	ug/L	10		105	70-130			02/28/14	
1,3-Dichloropropane	11	0.50	ug/L	10		107	70-130			02/28/14	
1,4-Dichlorobenzene	11	0.50	ug/L	10		108	70-130			02/28/14	
2,2-Dichloropropane	11	0.50	ug/L	10		107	70-130			02/28/14	
2-Butanone	11	5.0	ug/L	10		106	70-130			02/28/14	
2-Chlorotoluene	11	0.50	ug/L	10		106	70-130			02/28/14	
2-Hexanone	10	10	ug/L	10		104	70-130			02/28/14	
4-Chlorotoluene	11	0.50	ug/L	10		106	70-130			02/28/14	
4-Methyl-2-pentanone	10	5.0	ug/L	10		103	70-130			02/28/14	
Acetone	10	10	ug/L	10		101	70-130			02/28/14	
Benzene	10	0.50	ug/L	10		104	70-130			02/28/14	
Bromobenzene	10	0.50	ug/L	10		105	70-130			02/28/14	
Bromochloromethane	11	0.50	ug/L	10		112	70-130			02/28/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402445 Prepared: 02/28/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A402445-BS1)												
Bromodichloromethane	9.6	0.50	ug/L	10		96	70-130			02/28/14		
Bromoform	10	0.50	ug/L	10		103	70-130			02/28/14		
Bromomethane	7.6	0.50	ug/L	10		76	70-130			02/28/14		
Carbon Tetrachloride	11	0.50	ug/L	10		112	70-130			02/28/14		
Chlorobenzene	11	0.50	ug/L	10		107	70-130			02/28/14		
Chloroethane	10	0.50	ug/L	10		103	70-130			02/28/14		
Chloroform	10	0.50	ug/L	10		103	70-130			02/28/14		
Chloromethane	12	0.50	ug/L	10		124	70-130			02/28/14		
cis-1,2-Dichloroethene	11	0.50	ug/L	10		108	70-130			02/28/14		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		107	70-130			02/28/14		
Dibromochloromethane	9.8	0.50	ug/L	10		98	70-130			02/28/14		
Dibromomethane	10	0.50	ug/L	10		103	70-130			02/28/14		
Dichlorodifluoromethane	19	0.50	ug/L	10		187	70-130			02/28/14	BS	***High***
Dichloromethane	11	0.50	ug/L	10		108	70-130			02/28/14		
Di-isopropyl ether (DIPE)	11	3.0	ug/L	10		114	70-130			02/28/14		
Ethyl tert-Butyl Ether (ETBE)	11	0.50	ug/L	10		113	70-130			02/28/14		
Ethylbenzene	11	0.50	ug/L	10		106	70-130			02/28/14		
Hexachlorobutadiene	11	0.50	ug/L	10		110	70-130			02/28/14		
Isopropylbenzene	11	0.50	ug/L	10		107	70-130			02/28/14		
m,p-Xylenes	19	0.50	ug/L	20		96	70-130			02/28/14		
Methyl-t-butyl ether	21	0.50	ug/L	20		104	70-130			02/28/14		
Naphthalene	11	0.50	ug/L	10		107	70-130			02/28/14		
n-Butylbenzene	11	0.50	ug/L	10		105	70-130			02/28/14		
n-Propylbenzene	11	0.50	ug/L	10		106	70-130			02/28/14		
o-Xylene	10	0.50	ug/L	10		104	70-130			02/28/14		
p-Isopropyltoluene	11	0.50	ug/L	10		109	70-130			02/28/14		
sec-Butylbenzene	11	0.50	ug/L	10		107	70-130			02/28/14		
Styrene	14	0.50	ug/L	10		138	70-130			02/28/14	BS	***High***
tert-Amyl Methyl Ether (TAME)	12	3.0	ug/L	10		116	70-130			02/28/14		
tert-Butyl alcohol (TBA)	14	2.0	ug/L	10		135	70-130			02/28/14	BS	***High***
tert-Butylbenzene	11	0.50	ug/L	10		106	70-130			02/28/14		
Tetrachloroethene (PCE)	11	0.50	ug/L	10		111	70-130			02/28/14		
Toluene	11	0.50	ug/L	10		109	70-130			02/28/14		
trans-1,2-Dichloroethene	11	0.50	ug/L	10		108	70-130			02/28/14		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		107	70-130			02/28/14		
Trichloroethene (TCE)	11	0.50	ug/L	10		110	70-130			02/28/14		
Trichlorofluoromethane	12	5.0	ug/L	10		122	70-130			02/28/14		
Vinyl Chloride	13	0.50	ug/L	10		127	70-130			02/28/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*99*	*70-130*			02/28/14		
Surrogate: Bromofluorobenzene	*49*			*50*		*98*	*70-130*			02/28/14		
Blank Spike Dup (A402445-BSD1)												
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		109	70-130	2	30	02/28/14		
1,1,1-Trichloroethane	11	0.50	ug/L	10		108	70-130	1	30	02/28/14		
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		108	70-130	4	30	02/28/14		
1,1,2-Trichloro-1,2,2-trifluoroethane	12	10	ug/L	10		118	70-130	2	30	02/28/14		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402445 Prepared: 02/28/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A402445-BSD1)												
1,1,2-Trichloroethane	11	0.50	ug/L	10		111	70-130	3	30	02/28/14		
1,1-Dichloroethane	11	0.50	ug/L	10		111	70-130	2	30	02/28/14		
1,1-Dichloroethene	11	0.50	ug/L	10		109	70-130	1	30	02/28/14		
1,1-Dichloropropene	12	0.50	ug/L	10		116	70-130	3	30	02/28/14		
1,2,3-Trichlorobenzene	11	0.50	ug/L	10		108	70-130	1	30	02/28/14		
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		110	70-130	1	30	02/28/14		
1,2,4-Trimethylbenzene	11	0.50	ug/L	10		108	70-130	2	30	02/28/14		
1,2-Dichlorobenzene	11	0.50	ug/L	10		112	70-130	1	30	02/28/14		
1,2-Dichloroethane	10	0.50	ug/L	10		103	70-130	2	30	02/28/14		
1,2-Dichloropropane	11	0.50	ug/L	10		111	70-130	3	30	02/28/14		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		111	70-130	3	30	02/28/14		
1,3-Dichlorobenzene	10	0.50	ug/L	10		103	70-130	1	30	02/28/14		
1,3-Dichloropropane	11	0.50	ug/L	10		110	70-130	2	30	02/28/14		
1,4-Dichlorobenzene	11	0.50	ug/L	10		109	70-130	1	30	02/28/14		
2,2-Dichloropropane	11	0.50	ug/L	10		108	70-130	2	30	02/28/14		
2-Butanone	11	5.0	ug/L	10		114	70-130	7	30	02/28/14		
2-Chlorotoluene	11	0.50	ug/L	10		107	70-130	1	30	02/28/14		
2-Hexanone	11	10	ug/L	10		110	70-130	6	30	02/28/14		
4-Chlorotoluene	11	0.50	ug/L	10		108	70-130	2	30	02/28/14		
4-Methyl-2-pentanone	11	5.0	ug/L	10		110	70-130	6	30	02/28/14		
Acetone	11	10	ug/L	10		106	70-130	5	30	02/28/14		
Benzene	10	0.50	ug/L	10		101	70-130	3	30	02/28/14		
Bromobenzene	11	0.50	ug/L	10		107	70-130	2	30	02/28/14		
Bromochloromethane	11	0.50	ug/L	10		111	70-130	0	30	02/28/14		
Bromodichloromethane	9.7	0.50	ug/L	10		97	70-130	1	30	02/28/14		
Bromoform	11	0.50	ug/L	10		112	70-130	9	30	02/28/14		
Bromomethane	8.5	0.50	ug/L	10		85	70-130	11	30	02/28/14		
Carbon Tetrachloride	12	0.50	ug/L	10		115	70-130	3	30	02/28/14		
Chlorobenzene	11	0.50	ug/L	10		108	70-130	1	30	02/28/14		
Chloroethane	11	0.50	ug/L	10		106	70-130	3	30	02/28/14		
Chloroform	10	0.50	ug/L	10		105	70-130	2	30	02/28/14		
Chloromethane	10	0.50	ug/L	10		103	70-130	18	30	02/28/14		
cis-1,2-Dichloroethene	11	0.50	ug/L	10		111	70-130	2	30	02/28/14		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		109	70-130	2	30	02/28/14		
Dibromochloromethane	10	0.50	ug/L	10		101	70-130	3	30	02/28/14		
Dibromomethane	11	0.50	ug/L	10		113	70-130	9	30	02/28/14		
Dichlorodifluoromethane	17	0.50	ug/L	10		172	70-130	8	30	02/28/14	BS	***High***
Dichloromethane	11	0.50	ug/L	10		109	70-130	1	30	02/28/14		
Di-isopropyl ether (DIPE)	13	3.0	ug/L	10		134	70-130	16	30	02/28/14	BS	***High***
Ethyl tert-Butyl Ether (ETBE)	14	0.50	ug/L	10		135	70-130	18	30	02/28/14	BS	***High***
Ethylbenzene	11	0.50	ug/L	10		107	70-130	2	30	02/28/14		
Hexachlorobutadiene	11	0.50	ug/L	10		112	70-130	1	30	02/28/14		
Isopropylbenzene	11	0.50	ug/L	10		109	70-130	1	30	02/28/14		
m,p-Xylenes	20	0.50	ug/L	20		98	70-130	2	30	02/28/14		
Methyl-t-butyl ether	23	0.50	ug/L	20		116	70-130	11	30	02/28/14		
Naphthalene	11	0.50	ug/L	10		111	70-130	4	30	02/28/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 524.2 - Quality Control												
Batch: A402445										Prepared: 02/28/2014		
Prep Method: EPA 524.2										Analyst: JGB		
Blank Spike Dup (A402445-BSD1)												
n-Butylbenzene	11	0.50	ug/L	10		106	70-130	1	30	02/28/14		
n-Propylbenzene	11	0.50	ug/L	10		108	70-130	2	30	02/28/14		
o-Xylene	11	0.50	ug/L	10		107	70-130	2	30	02/28/14		
p-Isopropyltoluene	11	0.50	ug/L	10		110	70-130	1	30	02/28/14		
sec-Butylbenzene	11	0.50	ug/L	10		108	70-130	1	30	02/28/14		
Styrene	14	0.50	ug/L	10		141	70-130	2	30	02/28/14	BS	***High***
tert-Amyl Methyl Ether (TAME)	14	3.0	ug/L	10		136	70-130	16	30	02/28/14	BS	***High***
tert-Butyl alcohol (TBA)	22	2.0	ug/L	10		219	70-130	48	30	02/28/14	BS, BS6.0	***High***
tert-Butylbenzene	11	0.50	ug/L	10		108	70-130	2	30	02/28/14		
Tetrachloroethene (PCE)	11	0.50	ug/L	10		113	70-130	2	30	02/28/14		
Toluene	11	0.50	ug/L	10		112	70-130	2	30	02/28/14		
trans-1,2-Dichloroethene	11	0.50	ug/L	10		110	70-130	2	30	02/28/14		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		109	70-130	2	30	02/28/14		
Trichloroethene (TCE)	11	0.50	ug/L	10		113	70-130	3	30	02/28/14		
Trichlorofluoromethane	12	5.0	ug/L	10		124	70-130	2	30	02/28/14		
Vinyl Chloride	12	0.50	ug/L	10		118	70-130	8	30	02/28/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*100*	*70-130*			02/28/14		
Surrogate: Bromofluorobenzene	*49*			*50*		*98*	*70-130*			02/28/14		
EPA 525.2 - Quality Control												
Batch: A402556										Prepared: 03/01/2014		
Prep Method: EPA 525.2										Analyst: KHH		
Blank (A402556-BLK1)												
Alachlor	ND	1.0	ug/L							03/03/14		
Atrazine	ND	0.50	ug/L							03/03/14		
Benzo(a)pyrene	ND	0.10	ug/L							03/03/14		
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							03/03/14		
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							03/03/14		
Bromacil	ND	10	ug/L							03/03/14		
Butachlor	ND	0.38	ug/L							03/03/14		
Diazinon	ND	0.25	ug/L							03/03/14		
Dimethoate	ND	10	ug/L							03/03/14		
Metolachlor	ND	0.50	ug/L							03/03/14		
Metribuzin	ND	0.50	ug/L							03/03/14		
Molinate	ND	2.0	ug/L							03/03/14		
Propachlor	ND	0.50	ug/L							03/03/14		
Simazine	ND	1.0	ug/L							03/03/14		
Thiobencarb	ND	1.0	ug/L							03/03/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.9*			*5.0*		*118*	*70-130*			03/03/14		
Blank Spike (A402556-BS1)												
Alachlor	0.59	1.0	ug/L	0.51		115	70-130			03/03/14		
Atrazine	0.57	0.50	ug/L	0.51		111	70-130			03/03/14		
Benzo(a)pyrene	0.098	0.10	ug/L	0.10		95	70-130			03/03/14		

Organics Quality Control Report

EPA 525.2 - Quality Control

Batch: A402556 Prepared: 03/01/2014

Prep Method: EPA 525.2 Analyst: KHH

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A402556-BS1)												
Bis(2-ethylhexyl) adipate	3.8	3.0	ug/L	3.1		124	70-130			03/03/14		
Bis(2-ethylhexyl) phthalate	4.2	3.0	ug/L	3.1		137	70-130			03/03/14	BS	***High***
Bromacil	2.6	10	ug/L	2.1		128	70-130			03/03/14		
Butachlor	1.4	0.38	ug/L	1.3		111	70-130			03/03/14		
Diazinon	0.040	0.25	ug/L	0.051		78	70-130			03/03/14		
Dimethoate	0.51	10	ug/L	0.51		99	70-130			03/03/14		
Metolachlor	3.3	0.50	ug/L	2.6		128	70-130			03/03/14		
Metribuzin	3.1	0.50	ug/L	2.6		122	70-130			03/03/14		
Molinate	2.9	2.0	ug/L	2.6		112	70-130			03/03/14		
Propachlor	2.8	0.50	ug/L	2.6		108	70-130			03/03/14		
Simazine	0.40	1.0	ug/L	0.36		110	70-130			03/03/14		
Thiobencarb	0.58	1.0	ug/L	0.51		113	70-130			03/03/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*6.1*			*5.1*		*118*	*70-130*			03/03/14		
Blank Spike Dup (A402556-BSD1)												
Alachlor	0.60	1.0	ug/L	0.51		117	70-130	1	30	03/03/14		
Atrazine	0.59	0.50	ug/L	0.51		114	70-130	2	30	03/03/14		
Benzo(a)pyrene	0.095	0.10	ug/L	0.10		93	70-130	3	30	03/03/14		
Bis(2-ethylhexyl) adipate	3.9	3.0	ug/L	3.1		127	70-130	2	30	03/03/14		
Bis(2-ethylhexyl) phthalate	4.4	3.0	ug/L	3.1		144	70-130	4	30	03/03/14	BS	***High***
Bromacil	2.7	10	ug/L	2.1		131	70-130	2	30	03/03/14	BS	***High***
Butachlor	1.4	0.38	ug/L	1.3		107	70-130	4	30	03/03/14		
Diazinon	0.052	0.25	ug/L	0.051		102	70-130	26	30	03/03/14		
Dimethoate	0.45	10	ug/L	0.51		88	70-130	12	30	03/03/14		
Metolachlor	3.3	0.50	ug/L	2.6		129	70-130	0	30	03/03/14		
Metribuzin	3.0	0.50	ug/L	2.6		118	70-130	3	30	03/03/14		
Molinate	2.8	2.0	ug/L	2.6		109	70-130	3	30	03/03/14		
Propachlor	2.7	0.50	ug/L	2.6		107	70-130	1	30	03/03/14		
Simazine	0.42	1.0	ug/L	0.36		117	70-130	5	30	03/03/14		
Thiobencarb	0.58	1.0	ug/L	0.51		114	70-130	0	30	03/03/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.7*			*5.1*		*111*	*70-130*			03/03/14		
Matrix Spike (A402556-MS1), Source: A4B2037-04												
Alachlor	0.57	1.0	ug/L	0.49	ND	116	70-130			03/03/14		
Atrazine	0.56	0.50	ug/L	0.49	ND	113	70-130			03/03/14		
Benzo(a)pyrene	0.11	0.10	ug/L	0.099	ND	110	70-130			03/03/14		
Bis(2-ethylhexyl) adipate	3.7	3.0	ug/L	3.0	ND	126	70-130			03/03/14		
Bis(2-ethylhexyl) phthalate	4.3	3.0	ug/L	3.0	ND	120	70-130			03/03/14		
Bromacil	2.6	10	ug/L	2.0	ND	131	70-130			03/03/14	BS	***High***
Butachlor	1.4	0.38	ug/L	1.2	ND	111	70-130			03/03/14		
Diazinon	0.048	0.25	ug/L	0.049	ND	98	70-130			03/03/14		
Dimethoate	0.49	10	ug/L	0.49	ND	100	70-130			03/03/14		
Metolachlor	3.1	0.50	ug/L	2.5	ND	127	70-130			03/03/14		
Metribuzin	2.9	0.50	ug/L	2.5	ND	116	70-130			03/03/14		
Molinate	2.6	2.0	ug/L	2.5	ND	104	70-130			03/03/14		
Propachlor	2.6	0.50	ug/L	2.5	ND	107	70-130			03/03/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A402556										Prepared: 03/01/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Matrix Spike (A402556-MS1), Source: A4B2037-04											
Simazine	0.39	1.0	ug/L	0.35	ND	113	70-130			03/03/14	
Thiobencarb	0.54	1.0	ug/L	0.49	ND	110	70-130			03/03/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.4*			*4.9*		*109*	*70-130*			03/03/14	
EPA 531.1 - Quality Control											
Batch: A402440										Prepared: 02/26/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A402440-BLK1)											
3-Hydroxycarbofuran	ND	2.0	ug/L							02/26/14	
Aldicarb	ND	2.0	ug/L							02/26/14	
Aldicarb Sulfone	ND	2.0	ug/L							02/26/14	
Aldicarb Sulfoxide	ND	2.0	ug/L							02/26/14	
Carbaryl	ND	2.0	ug/L							02/26/14	
Carbofuran	ND	2.0	ug/L							02/26/14	
Methomyl	ND	2.0	ug/L							02/26/14	
Oxamyl	ND	2.0	ug/L							02/26/14	
Blank Spike (A402440-BS1)											
3-Hydroxycarbofuran	3.8	2.0	ug/L	4.0		95	80-120			02/26/14	
Aldicarb	4.0	2.0	ug/L	4.0		100	80-120			02/26/14	
Aldicarb Sulfone	4.0	2.0	ug/L	4.0		99	80-120			02/26/14	
Aldicarb Sulfoxide	4.0	2.0	ug/L	4.0		100	80-120			02/26/14	
Carbaryl	3.8	2.0	ug/L	4.0		96	80-120			02/26/14	
Carbofuran	3.9	2.0	ug/L	4.0		98	80-120			02/26/14	
Methomyl	4.1	2.0	ug/L	4.0		103	80-120			02/26/14	
Oxamyl	3.9	2.0	ug/L	4.0		98	80-120			02/26/14	
Blank Spike Dup (A402440-BSD1)											
3-Hydroxycarbofuran	4.0	2.0	ug/L	4.0		101	80-120	6	20	02/27/14	
Aldicarb	4.3	2.0	ug/L	4.0		107	80-120	7	20	02/27/14	
Aldicarb Sulfone	4.2	2.0	ug/L	4.0		104	80-120	5	20	02/27/14	
Aldicarb Sulfoxide	4.2	2.0	ug/L	4.0		105	80-120	5	20	02/27/14	
Carbaryl	4.2	2.0	ug/L	4.0		104	80-120	8	20	02/27/14	
Carbofuran	4.1	2.0	ug/L	4.0		104	80-120	5	20	02/27/14	
Methomyl	4.3	2.0	ug/L	4.0		108	80-120	5	20	02/27/14	
Oxamyl	4.1	2.0	ug/L	4.0		103	80-120	4	20	02/27/14	
Matrix Spike (A402440-MS1), Source: A4B1898-01											
3-Hydroxycarbofuran	4.2	2.0	ug/L	4.0	ND	106	65-135			02/27/14	
Aldicarb	4.4	2.0	ug/L	4.0	ND	103	65-135			02/27/14	
Aldicarb Sulfone	4.4	2.0	ug/L	4.0	ND	107	65-135			02/27/14	
Aldicarb Sulfoxide	4.3	2.0	ug/L	4.0	ND	108	65-135			02/27/14	
Carbaryl	4.3	2.0	ug/L	4.0	ND	107	65-135			02/27/14	
Carbofuran	4.2	2.0	ug/L	4.0	ND	105	65-135			02/27/14	
Methomyl	4.5	2.0	ug/L	4.0	ND	111	65-135			02/27/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A402440										Prepared: 02/26/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Matrix Spike (A402440-MS1), Source: A4B1898-01											
Oxamyl	4.3	2.0	ug/L	4.0	ND	108	65-135			02/27/14	
EPA 547 - Quality Control											
Batch: A402555										Prepared: 03/01/2014	
Prep Method: EPA 547										Analyst: RJB	
Blank (A402555-BLK1)											
Glyphosate	ND	25	ug/L							03/01/14	
Surrogate: AMPA	*95*			*100*		*95*	*70-130*			03/01/14	
Blank Spike (A402555-BS1)											
Glyphosate	100	25	ug/L	100		103	70-130			03/01/14	
Surrogate: AMPA	*100*			*100*		*102*	*70-130*			03/01/14	
Blank Spike Dup (A402555-BSD1)											
Glyphosate	120	25	ug/L	100		116	70-130	12	30	03/01/14	
Surrogate: AMPA	*97*			*100*		*97*	*70-130*			03/01/14	
Matrix Spike (A402555-MS1), Source: A4B1780-01											
Glyphosate	97	25	ug/L	100	ND	95	70-130			03/01/14	
Surrogate: AMPA	*89*			*100*		*87*	*70-130*			03/01/14	
Matrix Spike Dup (A402555-MSD1), Source: A4B1780-01											
Glyphosate	93	25	ug/L	100	ND	91	70-130	4	30	03/01/14	
Surrogate: AMPA	*86*			*100*		*84*	*70-130*			03/01/14	
EPA 548.1 - Quality Control											
Batch: A402503										Prepared: 02/27/2014	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A402503-BLK1)											
Endothall	ND	45	ug/L							02/28/14	
Blank Spike (A402503-BS1)											
Endothall	17	45	ug/L	20		84	60-111			02/28/14	
Blank Spike Dup (A402503-BSD1)											
Endothall	15	45	ug/L	20		77	60-111	10	46	02/28/14	
Matrix Spike (A402503-MS1), Source: A4B1920-01											
Endothall	4.4	45	ug/L	20	ND	22	10-122			02/28/14	
EPA 549.2 - Quality Control											
Batch: A402584										Prepared: 03/03/2014	
Prep Method: EPA 549.2										Analyst: PYA	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 549.2 - Quality Control											
Batch: A402584										Prepared: 03/03/2014	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A402584-BLK1)											
Diquat	ND	4.0	ug/L							03/03/14	
Blank Spike (A402584-BS1)											
Diquat	3.1	4.0	ug/L	4.0		78	70-130			03/03/14	
Blank Spike Dup (A402584-BSD1)											
Diquat	3.3	4.0	ug/L	4.0		83	70-130	6	30	03/03/14	
Matrix Spike (A402584-MS1), Source: A4B1898-01											
Diquat	2.1	4.0	ug/L	4.0	ND	46	70-130			03/03/14	MS1.0 ***Low***

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of Oregon - NELAP	4021	State of Washington	C997
State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA

BSK is not accredited under the NELAC program for the following parameters:

A4B1898

Monterey Bay Analytical

Monte6227

02262014

Turnaround: Standard

Due Date: 3/5/2014

Printed: 2/26/2014 3:50:12PM

A4B1898 02/26/2014
Monte6227 5

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street, Fresno, CA 93706-1623
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

* Required Fields

TEMP: 3.8

Client/Company Name *:	Report Attention *:	Phone * #: (831)-357-6227 FAX * #(831)-641-0734
Monterey Bay Analytical	David Holland	E-mail: 4MBAS@Sbcglobal.net

Address *	City *	State *	Zip *
4 Justin Ct.	Monterey	CA	93940

Project Information: Cal Am

PO # / Quote # 464

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: Nathan Reynolds

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☑ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☑ System No. *

ANALYSIS REQUESTED

Matrix Types: RSW = Raw Surface Water, CFW = Clorinated Finished Water, CWW = Chorinated Waste Water, BW = Bottled Water, RGW = Raw Ground Water, FW = Finished Water, WW = Waste Water, SW = Storm Water, DW = Drinking Water, SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 504	EPA 515	EPA 524 inc MTBE	EPA 525	EPA 531	EPA 547	EPA 548	EPA 549	
1		2/25	09:10	CX-BIWQ Zone #6 (51-61 ft bgs)	RGW	12148	✓	✓	✓	✓	✓	✓	✓	✓	
				5 day TAT please *											
				Conductivity 35,952 uS/cm											

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
David Holland	MBAS	~~2/24~~ 2/25/14	1600		
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material: BW

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/e-billing charges and interest calculated at 1 1/2 % per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorneys' fees incurred prior to or in litigation whether concluded by judgement, settlement, compromise or otherwise. The person signing for the client/Company expressley acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis requested, either type or quantities, will be noted and agreed upon this Chain of Custody. The turn around time for any samples received after 3:00 pm will begin the next business day.

SR-FL-0012-00 (analytical)

Sample Integrity

BSK Bottles: Yes* No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C 3.8	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received — "|" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—						
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—						
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—						
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2C, 2a					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	4V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: @ Labels checked by: SPB @ 1318 RUSH Paged by:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1402896

Report Created for: Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Project Contact: David Holland
Project P.O.:
Project Name: CalAm

Project Received: 02/26/2014

Analytical Report reviewed & approved for release on 02/28/2014 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Monterey Bay Analytical
Project: CalAm
WorkOrder: 1402896

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifier

a1	sample diluted due to matrix interference

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method:**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #2 (237-247 ft bgs) (dissol	**1402896-002A**	**Water/DISS.**	**02/19/2014 16:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**210**	100	20	02/27/2014 19:31
Strontium	**11,000**	400	20	02/27/2014 19:31

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #3 (182-192 ft bgs) (dissol	**1402896-004A**	**Water/DISS.**	**02/21/2014 13:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	ND	100	20	02/27/2014 14:48
Strontium	**12,000**	400	20	02/27/2014 14:48

Analytical Comments: a1

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #4 (134-144 ft bgs) (dissol	**1402896-006A**	**Water/DISS.**	**02/22/2014 14:45**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**120**	100	20	02/27/2014 19:37
Strontium	**9400**	400	20	02/27/2014 19:37

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #5 (84-94 ft bgs) (dissolve	**1402896-008A**	**Water/DISS.**	**02/23/2014 16:20**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	ND	100	20	02/27/2014 19:43
Strontium	**10,000**	400	20	02/27/2014 19:43

Analytical Comments: a1

(Cont.)

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Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method:**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #6 (51-61 ft bgs) (dissolve	**1402896-010A**	**Water/DISS.**	**02/25/2014 09:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Barium	**100**	100	20	02/27/2014 19:48
Strontium	**9500**	400	20	02/27/2014 19:48

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Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #2 (237-247 ft bgs)	**1402896-001A**	**Water/TOTAL**	**02/19/2014 16:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:23
Arsenic	ND	10	20	02/27/2014 15:23
Copper	ND	10	20	02/27/2014 15:23
Lithium	**120**	100	20	02/27/2014 15:23
Zinc	ND	100	20	02/27/2014 15:23

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	104	70-130		02/27/2014 15:23

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #3 (182-192 ft bgs)	**1402896-003A**	**Water/TOTAL**	**02/21/2014 13:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:28
Arsenic	ND	10	20	02/27/2014 15:28
Copper	ND	10	20	02/27/2014 15:28
Lithium	**140**	100	20	02/27/2014 15:28
Zinc	ND	100	20	02/27/2014 15:28

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	111	70-130		02/27/2014 15:28

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #4 (134-144 ft bgs)	**1402896-005A**	**Water/TOTAL**	**02/22/2014 14:45**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:34
Arsenic	ND	10	20	02/27/2014 15:34
Copper	ND	10	20	02/27/2014 15:34
Lithium	**120**	100	20	02/27/2014 15:34
Zinc	ND	100	20	02/27/2014 15:34

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	104	70-130		02/27/2014 15:34

(Cont.)

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Analytical Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Project:	CalAm	**Extraction Method**	E200.8
Date Received:	2/26/14 11:35	**Analytical Method:**	E200.8
Date Prepared:	2/26/14	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #5 (84-94 ft bgs)	**1402896-007A**	**Water/TOTAL**	**02/23/2014 16:20**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:40
Arsenic	ND	10	20	02/27/2014 15:40
Copper	ND	10	20	02/27/2014 15:40
Lithium	**170**	100	20	02/27/2014 15:40
Zinc	ND	100	20	02/27/2014 15:40

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	109	70-130		02/27/2014 15:40

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
CX-BIWQ Zone #6 (51-61 ft bgs)	**1402896-009A**	**Water/TOTAL**	**02/25/2014 09:10**	**ICP-MS2**	**87508**

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	1000	20	02/27/2014 15:45
Arsenic	ND	10	20	02/27/2014 15:45
Copper	ND	10	20	02/27/2014 15:45
Lithium	**140**	100	20	02/27/2014 15:45
Zinc	ND	100	20	02/27/2014 15:45

Surrogates	REC (%)	Limits	Analytical Comments: a1	
Tb 350.917	110	70-130		02/27/2014 15:45

Quality Control Report

Client:	Monterey Bay Analytical	**WorkOrder:**	1402896
Date Prepared:	2/26/14	**BatchID:**	87508
Date Analyzed:	2/27/14	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	CalAm	**Sample ID:**	MB/LCS-87508 1402903-004CMS/MSD

QC Summary Report for E200.8

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aluminum	ND	475.4	50	500	-	95.1	85-115
Arsenic	ND	46.74	0.50	50	-	93.5	85-115
Barium	ND	451.9	5.0	500	-	90.4	85-115
Copper	ND	48.31	0.50	50	-	96.6	85-115
Lithium	ND	47.95	5.0	50	-	95.9	85-115
Strontium	ND	496	20	500	-	99.2	85-115
Zinc	ND	489.9	5.0	500	-	98	85-115
Surrogate Recovery							
Tb 350.917	695.7	710.9		750	93	95	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aluminum	1373	1438	500	863.6	102	115	70-130	4.62	20
Arsenic	47.91	48.87	50	0.84	94.1	96.1	70-130	1.98	20
Barium	473.2	485.6	500	18	91	93.5	70-130	2.59	20
Copper	60.61	62.62	50	13.01	95.2	99.2	70-130	3.26	20
Lithium	49.57	51.07	50	ND	99.1	102	70-130	2.98	20
Strontium	532.9	553	500	36	99.4	103	70-130	3.70	20
Zinc	632.5	641.6	500	118.4	103	105	70-130	1.43	20
Surrogate Recovery									
Tb 350.917	712.5	731	750		95	97	70-130	2.56	20

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1402896 **ClientCode: MBAS**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
David Holland
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940
831-375-6227 FAX: 831-641-0734

Email: 4mbas@sbcglobal.net
cc:
PO:
ProjectNo: CalAm

Bill to:
Accounts Payable
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Requested TAT: 3 days

Date Received: 02/26/2014
Date Printed: 02/26/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
					Requested Tests (See legend below)											
1402896-001	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	2/19/2014 16:10	☐		A										
1402896-002	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	2/19/2014 16:10	☐	A											
1402896-003	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	2/21/2014 13:10	☐		A										
1402896-004	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	2/21/2014 13:10	☐	A											
1402896-005	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	2/22/2014 14:45	☐		A										
1402896-006	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	2/22/2014 14:45	☐	A											
1402896-007	CX-BIWQ Zone #5 (84-94 ft bgs)	Water	2/23/2014 16:20	☐		A										
1402896-008	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	Water	2/23/2014 16:20	☐	A											
1402896-009	CX-BIWQ Zone #6 (51-61 ft bgs)	Water	2/25/2014 9:10	☐		A										
1402896-010	CX-BIWQ Zone #6 (51-61 ft bgs) (dissolved)	Water	2/25/2014 9:10	☐	A											

Test Legend:

1	METALSMS_DISS	2	METALSMS_W	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Jena Alfaro

Comments: Needs analysts initials for all reports per D.H. 4/5/13

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: MONTEREY BAY ANALYTICAL
QC Level: LEVEL 2
Work Order: 1402896
Project: CalAm
Client Contact: David Holland
Date Received: 2/26/2014
Comments: Needs analysts initials for all reports per D.H. 4/5/13
Contact's Email: 4mbas@sbcglobal.net

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1402896-001A	CX-BIWQ Zone #2 (237-247 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/19/2014 16:10	3 days	None	☐	
1402896-002A	CX-BIWQ Zone #2 (237-247 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/19/2014 16:10	3 days	None	☐	
1402896-003A	CX-BIWQ Zone #3 (182-192 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/21/2014 13:10	3 days	None	☐	
1402896-004A	CX-BIWQ Zone #3 (182-192 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/21/2014 13:10	3 days	None	☐	
1402896-005A	CX-BIWQ Zone #4 (134-144 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/22/2014 14:45	3 days	None	☐	
1402896-006A	CX-BIWQ Zone #4 (134-144 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/22/2014 14:45	3 days	None	☐	
1402896-007A	CX-BIWQ Zone #5 (84-94 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/23/2014 16:20	3 days	None	☐	
1402896-008A	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/23/2014 16:20	3 days	None	☐	
1402896-009A	CX-BIWQ Zone #6 (51-61 ft bgs)	Water	E200.8 (Metals) <Aluminum, Arsenic, Copper, Lithium, Zinc>	1	125mL HDPE w/ HNO3	☐	2/25/2014 9:10	3 days	None	☐	
1402896-010A	CX-BIWQ Zone #6 (51-61 ft bgs) (dissolved)	Water	E200.8 (Metals) (Dissolved) <Barium, Strontium>	1	250mL HDPE w/ HNO3	☐	2/25/2014 9:10	3 days	None	☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

125mL HDPE w/ HNO3 = 125mL HDPE Bottle w/ Nitric Acid
250mL HDPE w/ HNO3 = 250mL HDPE Bottle w/ HNO3

14028896

Appendix G

RUSH

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAY

☐ GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW)

Report To: David Holland Bill To:
Company: Monterey Bay Analytical Services
4 Justin Ct. Suite D
Monterey, Ca 93940 E-Mail: 4mbas@sbcglobal.net
Tele: (831) 375 - 6227 Fax: (831) 641-0734
Project #: Project Name: CalAm
Project Location:
Sampler Signature: Nathan Reynolds

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	HCL	HNO_3	Other	MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other: Al, As, Cu, Li, Zn	Other: Ba, Sr	Other	Comments: Filter Samples for Metals analysis: Yes / No
	CX-BIWQ Zone #2 (237-247 ft bgs)	2/19/14	16:10	1	p	X					X		X																			X			11965
	CX-BIWQ Zone #2 (237-247 ft bgs) (dissolved)	2/19/14	16:10	1	p	X					X		X																				X		11965 (dissolved)
	CX-BIWQ Zone #3 (182-192 ft bgs)	2/21/14	13:10	1	p	X					X		X																			X			12015
	CX-BIWQ Zone #3 (182-192 ft bgs) (dissolved)	2/21/14	13:10	1	p	X					X		X																				X		12015 (dissolved)
	CX-BIWQ Zone #4 (134-144 ft bgs)	2/22/14	14:45	1	p	X					X		X																			X			12029
	CX-BIWQ Zone #4 (134-144 ft bgs) (dissolved)	2/22/14	14:45	1	p	X					X		X																				X		12029 (dissolved)
	CX-BIWQ Zone #5 (84-94 ft bgs)	2/23/14	16:20	1	P	X					X		X																			X			12030
	CX-BIWQ Zone #5 (84-94 ft bgs) (dissolved)	2/23/14	16:20	1	P	X					X		X																				X		12030 (dissolved)
	CX-BIWQ Zone #6 (51-61 ft bgs)	2/25/14	09:10	1	p	X					X		X																			X			12148
	CX-BIWQ Zone #6 (51-61 ft bgs) (Dissolved)	2/25/14	09:10	1	p	X					X		X																				X		12148 (dissolved)

REC'D SEALED & INTACT VIA UPS ~~On Trac~~

Relinquished By:	Date:	Time:	Received By:
David Holland	2/25/14	1200	2/26/14 9:15
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____

COMMENTS: The sample conductivity ranges from 25,000 uS/cm to 40,000 uS/cm

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: **Monterey Bay Analytical** Date and Time Received: **2/26/2014 11:35:12 AM**

Project Name: **CalAm** LogIn Reviewed by: Jena Alfaro

WorkOrder N°: **1402896** Matrix: Water Carrier: UPS

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☑	

** NOTE: If the "No" box is checked, see comments below.*

Comments:

MONTEREY BAY ANALYTICAL SERVICES
PRECISION • ACCURACY • DEPENDABILITY
4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

pH QC Summary (SM 4500 H+)

Date Analyzed: 2/25/2014

	Value (pH Units)	Result (pH Units)	% Rec	Acceptance Criteria %Rec
IPC	6.86	6.86	100.0	95-105

Sample ID	Sample (pH Units)	Sample Dup (pH Units)	% RPD	Acceptance Criteria % RPD
AB12148	7.3	7.3	0.0	10
AB12177	7.4	7.4	0.0	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

MONTEREY BAY ANALYTICAL SERVICES
PRECISION • ACCURACY • DEPENDABILITY
4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 2/25/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	5.0	4.820	96.4	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB11639	29.800	5.000	34.800	35.200	100	108	1.1	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Turbidity QC Summary (EPA 180.1)

Date Analyzed: 2/25/2014

	Value (NTU)	Result (NTU)	% Rec	Acceptance Criteria %Rec
IPC	1.00	1.03	103.0	95-105

Sample ID	Sample (NTU)	Sample Dup (NTU)	% RPD	Acceptance Criteria % RPD
AB12088	None Detected	None Detected		10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Alkalinity QC Summary (SM 2320B)

Date Analyzed: 2/26/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	40	40.7	101.75	95-105

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12173	179.7	179.5	0.1	10
AB12235	295.5	295.7	0.1	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 2/26/2014

	Value (umhos/cm)	Result (umhos/cm)	% Rec	Acceptance Criteria %Rec
IPC	1412	1412	100.0%	95-105

Sample ID	Sample (umhos/cm)	Sample Dup (umhos/cm)	% RPD	Acceptance Criteria % RPD
AB12170	2780	2782	0.1%	10
AB12203	118	118	0.0%	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

300.0 QC Summary 2/26/2014

All units expressed in mg/L

		F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
		2	20	2	20	2	2	2
IPC		2.12	19.92	2.11	19.44	2.11	2.01	1.88
Recovery	90-110%	105.78	99.58	105.57	97.22	105.27	100.28	94.23
CCV1		2.10	19.77	2.11	19.29	2.07	1.99	1.84
Recovery	90-110%	104.80	98.86	105.37	96.46	103.39	99.56	91.99
RPD	10%	0.93	0.73	0.19	0.78	1.80	0.72	2.40
CCV2		2.09	19.75	2.12	19.30	2.07	1.99	1.83
Recovery	90-110%	104.57	98.73	105.80	96.51	103.48	99.70	91.50
RPD	10%	1.15	0.86	0.22	0.72	1.72	0.58	2.94
CCV3		2.08	19.68	2.10	19.15	2.06	1.98	1.69
Recovery	90-110%	103.90	98.38	104.76	95.73	103.22	98.76	84.71
RPD	10%	1.79	1.22	0.77	1.54	1.97	1.52	10.64

		F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
		2	20	2	20	2	2	2
AB12158		0.38	52.14	0.17	91.66	0.00	0.03	0.00
AB12158+LFM		2.55	71.11	2.17	109.53	1.55	1.95	1.70
AB12158+LFMD		2.57	71.51	2.17	110.06	1.54	1.94	1.77
Average		2.56	71.31	2.17	109.79	1.54	1.95	1.73
Recovery	80-120%	109.34	95.86	99.75	90.68	77.11	95.98	86.75
RPD	10%	0.94	0.57	0.01	0.49	0.61	0.33	4.17
AB12174		0.16	12.22	0.54	30.13	0.00	0.00	0.00
AB12174+LFM		2.31	32.05	2.31	49.19	1.73	1.90	1.48
AB12174+LFMD		2.31	32.14	2.31	49.28	1.72	1.91	1.53
Average		2.31	32.10	2.31	49.24	1.72	1.91	1.50
Recovery	80-120%	107.28	99.39	88.39	95.52	86.24	95.27	75.24
RPD	10%	0.04	0.29	0.05	0.19	0.07	0.23	2.76

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MBAS QC Summary (SM 5540C)

Date Analyzed: 2/28/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	0.050	0.052	104	80-120

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

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Ortho Phosphate QC Summary (Hach 8190)

Date: 3/2/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
LCS	0.200	0.220	110	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12155	0.052	0.200	0.241	0.243	94.5	95.5	0.8	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Total Phosphorus QC Summary (Hach 8190)

Date: 3/2/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
LCS	0.200	0.214	107	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12148	0.010	0.200	0.200	0.206	95	98	3.0	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 3/5/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC Low	0.050	0.043	86	90-110
IPC	0.500	0.462	92.4	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12148	0.020	0.500	0.536	0.550	103.2	106	2.6	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check

RPD = Relative Percent Difference; Rec = Recovery

QC EPA 200.7

Batch # 20140305

Analyte/		IC	Prep	LCS	%Rec	LCSD	%Rec	%Diff	IC Verification			QCS (95-105%)		
WL	Range	Blank	Blank	Value	85-115%	Value	85-115%		Value	Result	%Rec	Value	Result	%Rec
B 249.678	0.05-5ppm	0.00	0.00	1.00	100.0%	1.00	100.3%	0.3%	1	1.00	100.5%	1	1.00	99.7%
B 249.772	0.05-5ppm	0.01	0.00	1.00	100.2%	1.02	101.6%	1.3%	1	1.00	100.2%	1	1.00	99.8%
Ca 317.933	50-300ppm	-4.59	-4.59	49.3	98.5%	49.3	98.6%	0.1%	50	49.2	98.5%	50	48.2	96.4%
Ca 396.847	0.5-50ppm	-0.27	-0.26	50.3	100.6%	50.4	100.9%	0.3%	50	50.4	100.9%	50	49.6	99.2%
Fe 238.204	10ppb-100ppm	-4.46	-3.96	991	99.1%	1005	100.5%	1.3%	1000	1000	100.0%	1000	993	99.3%
Fe 259.940	10ppb-100ppm	-2.27	-2.47	993	99.3%	1001	100.1%	0.9%	1000	1004	100.4%	1000	1000	100.0%
K 766.491	0.5-750ppm	0.28	0.24	10.0	99.5%	9.9	99.2%	0.3%	10	9.9	99.3%	10	9.7	96.9%
Mg 202.582	50-1000ppm	-0.85	-0.83	50.0	100.0%	50.6	101.2%	1.2%	50	50.3	100.6%	50	50.5	100.9%
Mg 279.078	0.5-50ppm	0.02	0.00	49.5	99.1%	50.0	100.0%	0.9%	50	50.1	100.3%	50	49.7	99.4%
Mn 257.610	10ppb-11ppm	-1.56	-2.13	995	99.5%	1007	100.7%	1.2%	1000	1002	100.2%	1000	989	98.9%
Mn 260.568	10ppb-11ppm	-0.36	-0.92	996	99.6%	1006	100.6%	1.0%	1000	1002	100.2%	1000	991	99.1%
Na 568.821	50-1000ppm	8.10	9.30	51.8	103.6%	53.0	106.0%	2.3%	50	52.1	104.2%	50	50.6	101.1%
Na 589.592	0.5-50ppm	0.17	0.10	50.5	100.9%	50.5	101.0%	0.1%	50	50.1	100.3%	50	49.0	98.0%
Si 251.611	0.5-200ppm	0.02	-0.04	49.7	99.3%	50.1	100.3%	1.0%	50	50.1	100.2%	107	106.1	99.2%
Si 252.411	0.5-200ppm	0.01	-0.04	49.5	99.0%	50.0	100.0%	1.0%	50	50.1	100.1%	107	105.8	98.8%

Matrix Spikes

Sample ID AB12170

Analyte/	Sample	MS	%Rec	MSD	%Rec	%Diff	CCV (90-110%)			%Diff	CC
WL	Value	Value	70-130%	Value	70-130%		Value	Result	%Rec	10%	Blank
B 249.678	0.06	2.02	97.9%	2.03	98.6%	0.7%	1	0.98	98.4%	2.1%	0.00
B 249.772	0.06	2.04	99.4%	2.04	99.1%	0.3%	1	1.00	100.1%	0.1%	0.00
Ca 317.933	191.3	291.2	99.9%	289.4	98.1%	0.6%	50	49.3	98.6%	0.1%	-4.63
Ca 396.847	*175.9*	*238.1*	*62.2%*	*236.9*	*61.0%*	*0.5%*	50	50.1	100.1%	0.7%	-0.30
Cu 324.754	-8.6	1955	98.2%	1947	97.8%	0.4%	1000	993	99.3%	0.7%	-3.46
Cu 327.395	-2.0	1969	98.6%	1955	97.9%	0.7%	1000	996	99.6%	0.3%	-1.13
Fe 238.204	5.17	1988	99.1%	1977	98.6%	0.6%	1000	994	99.4%	0.6%	-4.53
Fe 259.940	6.77	1995	99.4%	1994	99.4%	0.0%	1000	1005	100.5%	0.1%	-3.24
K 766.491	4.89	24.3	97.2%	24.2	96.7%	0.5%	10	9.8	98.2%	1.1%	0.19
Mg 202.582	142.8	242.4	99.6%	241.4	98.6%	0.4%	50	50.3	100.5%	0.1%	-0.90

Mg 279.078	*140.1*	*236.9*	*96.8%*	*236.3*	*96.2%*	*0.2%*	50	49.9	99.7%	0.5%	-0.02
Mn 257.610	-4.11	1958	98.1%	1946	97.5%	0.6%	1000	998	99.8%	0.4%	-2.01
Mn 260.568	3.14	1969	98.3%	1959	97.8%	0.5%	1000	1000	100.0%	0.2%	-1.46
Na 568.821	164.1	256.2	92.1%	255.1	91.0%	0.4%	50	51.7	103.4%	0.8%	8.83
Na 589.592	*162.4*	*258.0*	*95.5%*	*256.9*	*94.5%*	*0.4%*	50	50.3	100.5%	0.2%	0.11
Si 251.611	36.9	135.6	98.7%	134.4	97.5%	0.9%	50	50.0	100.0%	0.2%	-0.07
Si 252.411	36.6	134.7	98.1%	134.2	97.7%	0.3%	50	49.7	99.4%	0.7%	-0.05

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

March 10, 2014 Ceres ID: 10276

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on March 6, 2014. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613. **Rush** 5 day turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # 12148.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (888)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
10276-001	CX-B1WQ Zone #6 (51-61 ft bags)	3/6/2014	2/25/2014	9:10

Section II: Data Summary

Sample ID:	Method Blank				
Client Data		**Sample Data**		**Laboratory Data**	
Name:	Monterey Bay Analytical	Matrix:	Aqueous	Lab Sample ID: 0-MB001	Date Received: NA
Project:	12148	Sample Size:	1.000 L	QC Batch #: 1163	Date Extracted: 7-Mar-14
Date Collected:	NA			ZB-5 MS Analysis Date: 9-Mar-14	
Time Collected:	NA				

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	1.40		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	106	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	105	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Sample ID:	**Ongoing Precision and Recovery**		
Client Data	**Sample Data**	**Laboratory Data**	
Name: Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-OPR001	Date Received: NA
Project: 12148	Sample Size: 1.000 L	QC Batch #: 1163	Date Extracted: 7-Mar-14
Date Collected: NA		ZB-5 MS Analysis Date: 9-Mar-14	
Time Collected: NA			

Analyte	Conc. (ng/ml)	Limits [a]	Qualifiers
2,3,7,8-TCDD	9.23	7.3-14.6	

	Labeled Standards	Conc.	Limits [a]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	105	25-141	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	10.0	3.7-15.8	

a. Method acceptance criteria .

Analyst: JMH

Reviewed by: BS

Sample ID:	CX-B1WQ Zone #6 (51-61 ft bags)				
Client Data		**Sample Data**		**Laboratory Data**	
Name:	Monterey Bay Analytical	Matrix:	Aqueous	Lab Sample ID: 10276-001	Date Received: 6-Mar-14
Project:	12148	Sample Size:	1.059 L	QC Batch #: 1163	Date Extracted: 7-Mar-14
Date Collected:	25-Feb-14			ZB-5 MS Analysis Date: 9-Mar-14	
Time Collected:	9:10				

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	1.26		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	98.1	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	96.3	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Tel: (916)932-5011

Chain of Custody

10276

Please Print in Pen

Ceres Use Only

Ceres Project ID:_____
Temperature: _____ °C

Pg Appendix G of _____

Reports and invoices will be delivered by email in .pdf format

Client Information	Invoice Information(if different from Client Info)	Project Information
Company Name:_____ Monterey Bay Analytical	Company Name:_____ Same	Ceres Quote #:_____
Contact Name:_____ David Holland	Contact Name:_____	P.O. # _____
Address: 4 Justin Court Ste D Monterey CA 93940	Address:_____	Project ID: _____
Ph:_ 831-375-6227	Ph:_____ Fx:_____	**TAT** (business days)_____
Email: montereybayanalytical@usa.net	Email:	Std 15 days; Rush TAT available please call

Matrix abreviations:

A: Aqueous	S: Soil	AS: Ash	DW: Drinking Water
E: Effluent	SD: Sediment	C: Clay	SO: Solid
I: Influent	SL: Sludge	CS: Clay Slurry	O: Other (please comment)

TEF: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Sample Collection Date	Time	Matrix	# of containers	EPA 1613	EPA 8290	NCASI 551	EPA 8280	EPA 613	Other	Comments
1	CX-B1WQ Zone #6 (51-61 ft bags)	2/25/2014	9:10	Aq	2	X						12148
2												(2,3,7,8 TCDD only)
3												5 day Rush Please
4												
5												
6												
7												
8												
9												
10												
11												
12												

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

Relinquished by: *(Signature and Printed Name)*	Date	Time	Received by: *(signature and Printed Name)*	Date	Time
David Holland	2/25/2014	16:00	J M Hedin	3/6/14	10:28

Client understands that all terms desribed in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.

Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

Ceres ID: 10276	Date/Time: 3/6/14 10:28
Client Project ID: 12148	Received Temperature: 14.3°C Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present?	Y / N / NA
List COC discrepancies: 3/6/14	
List Damaged Samples: 3/6/14	

Ceres Analytical Laboratory

Process Request

Ceres ID: 10276 PB: 1163 Sample #s: 1 Due Date: ASAP

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash

Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (check one):

- ☐ 1613 2,3,7,8-TCDD
- ☐ 1613 2,3,7,8-TCDD/F
- ☐ 1613 Cl_4-Cl_8
- ☐ 8290 2,3,7,8-TCDD
- ☐ 8290 2,3,7,8-TCDD/F
- ☐ 8290 Cl_4-Cl_8
- ☐ 8280 2,3,7,8-TCDD
- ☐ 8280 2,3,7,8-TCDD/F
- ☐ 8280 Appendix IX
- ☐ 8280 Cl_4-Cl_8
- ☐ NCASI 551

Instructions:

Sample Volume Calculation

Instructions:
1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$Sample\ Volume = (Sample + Bottle\ Wt) - Empty\ Bottle\ Wt.$$

Ceres ID	Sample +Bottle Wt.	Empty Bottle Wt.	Sample Volume
10276-1	1566.78	507.93	1.059L

Chemist: [signature] Date: 3/7/14

Method: 1613
SOP #: 3021

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Appendix G

Ceres ID	Client ID	Ver.	wt/vol	ISS/PAR chem/date/witness	CSS chem/date/witness	AP	AB/AC	FC	RSS chem/date/witness
0-1163-MB001	Method Blank		1.000L	3/7/14	3/8/14	NA	3/8/14	NA	3/8/14
0-1163-OPR001	OPR		1.000L	(A)					
10276-1163-001	CX-B1WQ Zone #6 (51-61 ft bags)	✓	1.059L						

Comments: (A) Spiked w/ NSS

Soxhlet Start: 14:00 3/7/14

Soxhlet Stop: 06:15 3/8/14

Samples Logged out by: 11:00 3/7/14

Samples Returned by: NA

Note samples Depleted: NA

Sample Extracts Storage Location: Box 8

Extracts to Intrument: 3/8/14 13:00

Extracts returned to Storage Location: 08:05 3/10/14

Form M1.0 rev4

Chemist: G-375

Effective Date: 7/12/13

Method: 1613
SOP #: 301.1

Ceres Analytical Laboratory
Sample Prep Bench Sheet

Standard	Standard ID	Vol.	Expiration Date
ISS	5031212A	10 µl	3/12/17
NSS	5031212B	10 µl	3/12/17
CSS	5031212C	10 µl	3/12/17
RSS	5031212D	20 µl	3/12/17

Solvents/Solutions/Packing Materials

Name	Amount	Lot #	Exp. Date
Toluene	450ml	PB005770TOL	8/17/14
Hexanes	30,30,100,20	136735	6/10/14
Sigel	4g	P020514A	8/5/14
Basic gel	4g	P012014A	7/20/14
Acid gel	8g	P012014B	7/20/14
Acid Al	6g	P123113C	6/30/14
Na2SO4	1.5g	P120413A	6/4/14
20% DCM Hex	30ml	L021914A	8/19/14

Form M1.0 rev4

Chemist : G-376

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

MONTEREY BAY ANALYTICAL SERVICES
PRECISION ● ACCURACY ● DEPENDABILITY
4 Justin Court Suite D, Monterey, CA 93940
831.375.MBAS
montereybayanalytical@usa.net

ELAP Certification Number: 2385

Cal Am Water Company
Travis Peterson
511 Pacific Lodge Road, Suite 100
Pacific Grove, CA 93950

Monday, March 17, 2014

Lab Number: **AB12621**

Collection Date/Time:	3/8/2014	14:00	Sample Collector:	SOBOLEW J	
Submittal Date/Time:	3/9/2014	11:06	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B2WQ Zone #1 (215-225 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Alkalinity, Total (as CaCO3)	SM2320B	mg/L	**147**		2		3/13/2014	LRH
Aluminum, Total	EPA200.8	ug/L	**84**	J	200	1000	3/17/2014	SM
Ammonia-N, Dissolved	SM4500NH3 D	mg/L	**Not Detected**		0.05		3/11/2014	LRH
Arsenic, Total	EPA200.8	ug/L	**46**		20	10	3/17/2014	SM
Barium, Dissolved	EPA200.8	ug/L	**109**	J	200		3/17/2014	SM
Bicarbonate (as HCO3-)	SM2320B	mg/L	**179**		10		3/14/2014	DH
Boron, Dissolved	EPA200.7	mg/L	**1.54**		0.5		3/13/2014	DC
Bromide, Dissolved	EPA300.0	mg/L	**38**		10		3/9/2014	DH
Calcium	EPA200.7	mg/L	**1961**		5		3/13/2014	DC
Calcium, Dissolved	EPA200.7	mg/L	**1948**		5		3/13/2014	DC
Carbamates by HPLC (EPA 531)	EPA531	ug/L	**Not Detected**	E			3/13/2014	BSK
Carbonate as CaCO3	SM2320B	mg/L	**Not Detected**		10		3/14/2014	DH
Chloride, Dissolved	EPA300.0	mg/L	**13026**		100		3/9/2014	DH
Chlorinated Pesticides and PCB (EP	EPA508	ug/L	**Not Detected**	E			3/14/2014	WECK
Color, Apparent (Unfiltered)	SM2120B	Color Units	**21**	H	3	15	3/10/2014	LRH
Copper, Total	EPA200.8	ug/L	**Not Detected**		4	1300	3/17/2014	SM
DBCP & EDB	EPA504.1	ug/L	**Not Detected**	E			3/13/2014	BSK
Dioxin	EPA-5 1613B	pg/L	**Not Detected**	E			3/14/2014	CERES
Diquat (EPA 549)	EPA549	ug/L	**Not Detected**	E			3/14/2014	BSK
Dissolved Anions		Meq/L	**405.7**				3/17/2014	DH
Dissolved Cations		Meq/L	**399.0**				3/17/2014	DH
Endothall	EPA548.1	ug/L	**Not Detected**	E			3/13/2014	BSK
Fluoride, Dissolved	EPA300.0	mg/L	**Not Detected**		0.2		3/9/2014	DH
Glyphosate	EPA547	ug/L	**Not Detected**	E			3/12/2014	BSK
Hardness (as CaCO3)	SM2340B	mg/L	**8776**		10		3/14/2014	DH
Hydroxide	SM2320B	mg/L	**Not Detected**		5		3/14/2014	DH
Iodide	EPA9056M	ug/L	**Not Detected**	E	10		3/15/2014	WECK
Iron	EPA200.7	ug/L	**367**		100	300	3/13/2014	DC
Iron, Dissolved	EPA200.7	ug/L	**246**		100	300	3/13/2014	DC
Kjehldahl Nitrogen, Dissolved	SM4500-NH3 B,	mg/L	**Not Detected**		0.5		3/17/2014	HM
Lithium	EPA200.8	ug/L	**149**		1		3/17/2014	SM
Magnesium	EPA200.7	mg/L	**942**		5		3/13/2014	DC
Magnesium, Dissolved	EPA200.7	mg/L	**936**		10		3/13/2014	DC
Manganese, Dissolved	EPA200.7	ug/L	**Not Detected**		100	50	3/13/2014	DC
Manganese, Total	EPA200.7	ug/L	**Not Detected**		100	50	3/13/2014	DC
MBAS (Surfactants)	SM5540C	mg/L	**Not Detected**		0.05	0.50	3/10/2014	DC
Nitrate as NO3	EPA300.0	mg/L	**Not Detected**		2	45	3/9/2014	DH
Nitrate+Nitrite as N	EPA300.0	mg/L	**Not Detected**		0.2		3/9/2014	DH

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See Report attachments T = Temperature Exceedance

Appendix G

Lab Number: **AB12621**

Collection Date/Time:	3/8/2014	14:00	Sample Collector:	SOBOLEW J	
Submittal Date/Time:	3/9/2014	11:06	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B2WQ Zone #1 (215-225 ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Nitrite as NO2-N, Dissolved	EPA300.0	mg/L	**0.4**		0.2		3/9/2014	DH
Odor Threshold at 60 C	SM2150B	TON	**1**		1	3	3/9/2014	DH
o-Phosphate-P, Dissolved	Hach 8190	mg/L	**Not Detected**		0.2		3/14/2014	HC
pH (Field Test)	SM4500-H+B	pH	**6.71**				3/9/2014	JS
pH (Laboratory)	SM4500-H+B	pH (H)	**7.0**				3/9/2014	FS
Phenoxy Acid Herbicides (515.3)	EPA515.3	ug/L	**Not Detected**	E			3/14/2014	BSK
Phosphorus, Dissolved	HACH 8190	mg/L	**Not Detected**		0.03		3/14/2014	HC
Potassium	EPA200.7	mg/L	**54**		5		3/13/2014	DC
Potassium, Dissolved	EPA200.7	mg/L	**55**		1		3/13/2014	DC
QC Ratio TDS/SEC	Calculation		**0.72**				3/14/2014	DH
Reg. Org. Compounds (EPA 525)	EPA525	ug/L	**Not Detected**	E			3/16/2014	BSK
Silica as SiO2, Dissolved	EPA200.7	mg/L	**34**		5		3/13/2014	DC
Sodium	EPA200.7	mg/L	**5273**		5		3/13/2014	DC
Sodium, Dissolved	EPA200.7	mg/L	**5135**		5		3/13/2014	DC
Specific Conductance (E.C)	SM2510B	umhos/cm	**36680**		1	900	3/9/2014	FS
Specific Conductance (E.C) (Field)	SM2510B	umhos/cm	**35189**		1		3/9/2014	JS
Strontium, Dissolved	EPA200.8	ug/L	**13328**		100		3/17/2014	SM
Sulfate	EPA300.0	mg/L	**1674**		100	250	3/9/2014	DH
Temperature (Field)	SM2550	° C	**18.8**				3/9/2014	JS
Total Cations		Meq/L	**406.1**				3/17/2014	DH
Total Diss. Solids	SM2540C	mg/L	**26500**		10	500	3/13/2014	HM
Turbidity	EPA180.1	NTU	**0.40**		0.05	5.0	3/9/2014	DH
Turbidity (Field)	EPA180.1	NTU	**0.91**		0.05		3/9/2014	JS
Volatile Org. Compounds (524)	EPA524	ug/L	**Not Detected**	E			3/12/2014	BSK
Zinc, Total	EPA200.8	ug/L	**218**		200	5000	3/17/2014	SM

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level

H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See Report attachments T = Temperature Exceedance

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12621 Dissolved B2WQ Zone 1**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	5135	0.04350	223.37
Potassium	55	0.02558	1.41
Calcium	1948	0.04990	97.21
Magnesium	936	0.08229	77.02
NH3-N	0	0.07143	0.00
		SUM	399.01

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	147	0.02000	2.94
Sulfate	1674	0.02082	34.85
Chloride	13026	0.02821	367.46
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0	0.07138	0.00
Phosphate-P	0.0	0.01031	0.00
Fluoride	0.0	0.05264	0.00
Bromide	38.0	0.01252	0.48
		SUM	405.73

ANION-CATION BALANCE: **-1** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	36680	
Cation Sum X 100	39901	**109%**
Anion Sum X 100	40573	**111%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**23.9**
Ca+Mg+Na	397.60
HCO3/Ca	0.03
dS/m	36.68
Value Table II	1.5
SAR adj	**35.6**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12621 Total Ion B2WQ Zone 1**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	5273	0.04350	229.38
Potassium	54	0.02558	1.38
Calcium	1961	0.04990	97.85
Magnesium	942	0.08229	77.52
NH3-N	0	0.07143	0.00
		SUM	406.13

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	147	0.02000	2.94
Sulfate	1674	0.02082	34.85
Chloride	13026	0.02821	367.46
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0	0.07138	0.00
Phosphate-P	0.0	0.01031	0.00
Fluoride	0.0	0.05264	0.00
Bromide	38.0	0.01252	0.48
		SUM	405.73

ANION-CATION BALANCE: **0** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	36680	
Cation Sum X 100	40613	**111%**
Anion Sum X 100	40573	**111%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**24.5**
Ca+Mg+Na	404.75
HCO3/Ca	0.03
dS/m	36.68
Value Table II	1.5
SAR adj	**36.5**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A4C0828 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 3/11/2014. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Monterey Bay Analytical	**Invoice To:**	Monterey Bay Analytical
Report To:	David Holland	**Invoice Attn:**	David Holland
Project #:	12621	**Project PO#:**	-
Received:	3/11/2014 - 10:45		
Report Due:	3/18/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 2.2

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.

Report Distribution

Recipient(s)	Report Format
David Holland	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C0828-01
Sampled By: Josh Soboleu
Sample Description: CX-B2WQ Zone #1 (215-225 ft bgs) // 12621

Sample Date - Time: 03/08/14 - 16:00
Matrix: Water
Sample Type: Grab

Field Data: Cond.=35194 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A403016	03/12/14	03/13/14	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A403016	03/12/14	03/13/14	
Surrogate: 1-Br-2-Nitrobenzene	EPA 504.1	105 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A403008	03/13/14	03/14/14	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A403008	03/13/14	03/14/14	
2,4-D	EPA 515.3	ND	10	ug/L	1	A403008	03/13/14	03/14/14	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A403008	03/13/14	03/14/14	
Dalapon	EPA 515.3	ND	10	ug/L	1	A403008	03/13/14	03/14/14	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A403008	03/13/14	03/14/14	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A403008	03/13/14	03/14/14	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A403008	03/13/14	03/14/14	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A403008	03/13/14	03/14/14	
Surrogate: DCPAA	EPA 515.3	77 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A402993	03/12/14	03/12/14	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A402993	03/12/14	03/12/14	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A402993	03/12/14	03/12/14	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A402993	03/12/14	03/12/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C0828-01
Sampled By: Josh Soboleu
Sample Description: CX-B2WQ Zone #1 (215-225 ft bgs) // 12621

Sample Date - Time: 03/08/14 - 16:00
Matrix: Water
Sample Type: Grab

Field Data: Cond.=35194 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Acetone	EPA 524.2	ND	10	ug/L	1	A402993	03/12/14	03/12/14	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A402993	03/12/14	03/12/14	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	BS1.0, CV0.0
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A402993	03/12/14	03/12/14	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A402993	03/12/14	03/12/14	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C0828-01
Sampled By: Josh Soboleu
Sample Description: CX-B2WQ Zone #1 (215-225 ft bgs) // 12621

Sample Date - Time: 03/08/14 - 16:00
Matrix: Water
Sample Type: Grab

Field Data: Cond.=35194 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A402993	03/12/14	03/12/14	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	100 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	103 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Prometryn	EPA 525.2	ND	2.0	ug/L	1	A403148	03/14/14	03/16/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	106 %	*Acceptable range: 70-130 %*						
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A403148	03/14/14	03/16/14	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A403148	03/14/14	03/16/14	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A403148	03/14/14	03/16/14	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A403148	03/14/14	03/16/14	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A403148	03/14/14	03/16/14	BS1.0
Bromacil	EPA 525.2	ND	10	ug/L	1	A403148	03/14/14	03/16/14	
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A403148	03/14/14	03/16/14	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A403148	03/14/14	03/16/14	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A403148	03/14/14	03/16/14	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A403148	03/14/14	03/16/14	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A403148	03/14/14	03/16/14	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A403148	03/14/14	03/16/14	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A403148	03/14/14	03/16/14	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A403148	03/14/14	03/16/14	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A403148	03/14/14	03/16/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	106 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A403040	03/12/14	03/13/14	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A403040	03/12/14	03/13/14	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A403040	03/12/14	03/13/14	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A403040	03/12/14	03/13/14	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A403040	03/12/14	03/13/14	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A403040	03/12/14	03/13/14	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A403040	03/12/14	03/13/14	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A403040	03/12/14	03/13/14	
Carbamates by HPLC									
Methiocarb	EPA 531.1	ND	2.0	ug/L	1	A403040	03/12/14	03/13/14	
Propoxur	EPA 531.1	ND	2.0	ug/L	1	A403040	03/12/14	03/13/14	

Certificate of Analysis

Sample ID: A4C0828-01
Sampled By: Josh Soboleu
Sample Description: CX-B2WQ Zone #1 (215-225 ft bgs) // 12621

Sample Date - Time: 03/08/14 - 16:00
Matrix: Water
Sample Type: Grab

Field Data: Cond.=35194 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A403000	03/12/14	03/12/14	
Surrogate: AMPA	EPA 547	114 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A403056	03/12/14	03/13/14	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A403100	03/13/14	03/14/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A403016										Prepared: 03/12/2014	
Prep Method: EPA 504.1										Analyst: PYA	
Blank (A403016-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							03/13/14	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							03/13/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.3*			*2.3*		*102*	*70-130*			03/13/14	
Blank Spike (A403016-BS1)											
Dibromochloropropane (DBCP)	0.13	0.010	ug/L	0.12		103	70-130			03/13/14	
Ethylene Dibromide (EDB)	0.11	0.020	ug/L	0.12		85	70-130			03/13/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.3*			*2.3*		*102*	*70-130*			03/13/14	
Blank Spike Dup (A403016-BSD1)											
Dibromochloropropane (DBCP)	0.13	0.010	ug/L	0.12		103	70-130	0	20	03/13/14	
Ethylene Dibromide (EDB)	0.11	0.020	ug/L	0.12		91	70-130	6	20	03/13/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.3*			*2.3*		*99*	*70-130*			03/13/14	
Matrix Spike (A403016-MS1), Source: A4C0705-09											
Dibromochloropropane (DBCP)	0.28	0.010	ug/L	0.13	0.16	99	65-135			03/13/14	
Ethylene Dibromide (EDB)	0.11	0.020	ug/L	0.13	ND	84	65-135			03/13/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.3*			*2.3*		*100*	*70-130*			03/13/14	
EPA 515.3 - Quality Control											
Batch: A403008										Prepared: 03/13/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A403008-BLK1)											
2,4,5-T	ND	1.0	ug/L							03/13/14	
2,4,5-TP (Silvex)	ND	1.0	ug/L							03/13/14	
2,4-D	ND	10	ug/L							03/13/14	
Bentazon	ND	2.0	ug/L							03/13/14	
Dalapon	ND	10	ug/L							03/13/14	
Dicamba	ND	1.5	ug/L							03/13/14	
Dinoseb	ND	2.0	ug/L							03/13/14	
Pentachlorophenol	ND	0.20	ug/L							03/13/14	
Picloram	ND	1.0	ug/L							03/13/14	
Surrogate: DCPAA	*57*			*58*		*99*	*70-130*			03/13/14	
Blank Spike (A403008-BS1)											
2,4,5-T	3.6	1.0	ug/L	4.0		89	70-130			03/13/14	
2,4,5-TP (Silvex)	0.77	1.0	ug/L	0.80		96	70-130			03/13/14	
2,4-D	0.38	10	ug/L	0.40		94	70-130			03/13/14	
Bentazon	7.6	2.0	ug/L	8.0		95	70-130			03/13/14	
Dalapon	4.2	10	ug/L	4.0		104	70-130			03/13/14	
Dicamba	5.8	1.5	ug/L	6.0		97	70-130			03/13/14	
Dinoseb	0.73	2.0	ug/L	0.80		92	70-130			03/13/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16		93	70-130			03/13/14	
Picloram	0.36	1.0	ug/L	0.40		91	70-130			03/13/14	
Surrogate: DCPAA	*58*			*58*		*99*	*70-130*			03/13/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A403008										Prepared: 03/13/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A403008-BSD1)											
2,4,5-T	3.5	1.0	ug/L	4.0		89	70-130	1	20	03/14/14	
2,4,5-TP (Silvex)	0.76	1.0	ug/L	0.80		95	70-130	1	20	03/14/14	
2,4-D	0.38	10	ug/L	0.40		94	70-130	0	20	03/14/14	
Bentazon	7.6	2.0	ug/L	8.0		95	70-130	1	20	03/14/14	
Dalapon	4.8	10	ug/L	4.0		121	70-130	15	20	03/14/14	
Dicamba	5.8	1.5	ug/L	6.0		97	70-130	0	20	03/14/14	
Dinoseb	0.77	2.0	ug/L	0.80		97	70-130	5	20	03/14/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16		95	70-130	2	20	03/14/14	
Picloram	0.36	1.0	ug/L	0.40		90	70-130	1	20	03/14/14	
Surrogate: DCPAA	*57*			*58*		*99*	*70-130*			03/14/14	
Matrix Spike (A403008-MS1), Source: A4C0587-01											
2,4,5-T	5.0	1.0	ug/L	4.0	ND	118	70-130			03/13/14	
2,4,5-TP (Silvex)	0.83	1.0	ug/L	0.80	ND	104	70-130			03/13/14	
2,4-D	0.47	10	ug/L	0.40	ND	119	70-130			03/13/14	
Bentazon	8.4	2.0	ug/L	8.0	ND	105	70-130			03/13/14	
Dalapon	7.8	10	ug/L	4.0	ND	107	70-130			03/13/14	
Dicamba	6.4	1.5	ug/L	6.0	ND	106	70-130			03/13/14	
Dinoseb	0.86	2.0	ug/L	0.80	ND	107	70-130			03/13/14	
Pentachlorophenol	0.16	0.20	ug/L	0.16	ND	97	70-130			03/13/14	
Picloram	0.41	1.0	ug/L	0.40	ND	104	70-130			03/13/14	
Surrogate: DCPAA	*55*			*58*		*94*	*70-130*			03/13/14	
Matrix Spike Dup (A403008-MSD1), Source: A4C0587-01											
2,4,5-T	5.0	1.0	ug/L	4.0	ND	118	70-130	0	20	03/14/14	
2,4,5-TP (Silvex)	0.83	1.0	ug/L	0.80	ND	104	70-130	0	20	03/14/14	
2,4-D	0.47	10	ug/L	0.40	ND	117	70-130	2	20	03/14/14	
Bentazon	8.4	2.0	ug/L	8.0	ND	105	70-130	0	20	03/14/14	
Dalapon	7.9	10	ug/L	4.0	ND	110	70-130	2	20	03/14/14	
Dicamba	6.4	1.5	ug/L	6.0	ND	106	70-130	0	20	03/14/14	
Dinoseb	0.86	2.0	ug/L	0.80	ND	107	70-130	0	20	03/14/14	
Pentachlorophenol	0.16	0.20	ug/L	0.16	ND	97	70-130	0	20	03/14/14	
Picloram	0.42	1.0	ug/L	0.40	ND	105	70-130	2	20	03/14/14	
Surrogate: DCPAA	*55*			*58*		*95*	*70-130*			03/14/14	
EPA 524.2 - Quality Control											
Batch: A402993										Prepared: 03/12/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A402993-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							03/12/14	
1,1,1-Trichloroethane	ND	0.50	ug/L							03/12/14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							03/12/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							03/12/14	
1,1,2-Trichloroethane	ND	0.50	ug/L							03/12/14	
1,1-Dichloroethane	ND	0.50	ug/L							03/12/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A402993										Prepared: 03/12/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A402993-BLK1)											
1,1-Dichloroethene	ND	0.50	ug/L							03/12/14	
1,1-Dichloropropene	ND	0.50	ug/L							03/12/14	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							03/12/14	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							03/12/14	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							03/12/14	
1,2-Dichlorobenzene	ND	0.50	ug/L							03/12/14	
1,2-Dichloroethane	ND	0.50	ug/L							03/12/14	
1,2-Dichloropropane	ND	0.50	ug/L							03/12/14	
1,3,5-Trimethylbenzene	ND	0.50	ug/L							03/12/14	
1,3-Dichlorobenzene	ND	0.50	ug/L							03/12/14	
1,3-Dichloropropane	ND	0.50	ug/L							03/12/14	
1,4-Dichlorobenzene	ND	0.50	ug/L							03/12/14	
2,2-Dichloropropane	ND	0.50	ug/L							03/12/14	
2-Butanone	ND	5.0	ug/L							03/12/14	
2-Chlorotoluene	ND	0.50	ug/L							03/12/14	
2-Hexanone	ND	10	ug/L							03/12/14	
4-Chlorotoluene	ND	0.50	ug/L							03/12/14	
4-Methyl-2-pentanone	ND	5.0	ug/L							03/12/14	
Acetone	ND	10	ug/L							03/12/14	
Benzene	ND	0.50	ug/L							03/12/14	
Bromobenzene	ND	0.50	ug/L							03/12/14	
Bromochloromethane	ND	0.50	ug/L							03/12/14	
Bromodichloromethane	ND	0.50	ug/L							03/12/14	
Bromoform	ND	0.50	ug/L							03/12/14	
Bromomethane	ND	0.50	ug/L							03/12/14	
Carbon Tetrachloride	ND	0.50	ug/L							03/12/14	
Chlorobenzene	ND	0.50	ug/L							03/12/14	
Chloroethane	ND	0.50	ug/L							03/12/14	
Chloroform	ND	0.50	ug/L							03/12/14	
Chloromethane	ND	0.50	ug/L							03/12/14	
cis-1,2-Dichloroethene	ND	0.50	ug/L							03/12/14	
cis-1,3-Dichloropropene	ND	0.50	ug/L							03/12/14	
Dibromochloromethane	ND	0.50	ug/L							03/12/14	
Dibromomethane	ND	0.50	ug/L							03/12/14	
Dichlorodifluoromethane	ND	0.50	ug/L							03/12/14	
Dichloromethane	ND	0.50	ug/L							03/12/14	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							03/12/14	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							03/12/14	
Ethylbenzene	ND	0.50	ug/L							03/12/14	
Hexachlorobutadiene	ND	0.50	ug/L							03/12/14	
Isopropylbenzene	ND	0.50	ug/L							03/12/14	
m,p-Xylenes	ND	0.50	ug/L							03/12/14	
Methyl-t-butyl ether	ND	0.50	ug/L							03/12/14	
Naphthalene	ND	0.50	ug/L							03/12/14	
n-Butylbenzene	ND	0.50	ug/L							03/12/14	
n-Propylbenzene	ND	0.50	ug/L							03/12/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402993 Prepared: 03/12/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A402993-BLK1)											
o-Xylene	ND	0.50	ug/L							03/12/14	
p-Isopropyltoluene	ND	0.50	ug/L							03/12/14	
sec-Butylbenzene	ND	0.50	ug/L							03/12/14	
Styrene	ND	0.50	ug/L							03/12/14	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							03/12/14	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							03/12/14	
tert-Butylbenzene	ND	0.50	ug/L							03/12/14	
Tetrachloroethene (PCE)	ND	0.50	ug/L							03/12/14	
Toluene	ND	0.50	ug/L							03/12/14	
trans-1,2-Dichloroethene	ND	0.50	ug/L							03/12/14	
trans-1,3-Dichloropropene	ND	0.50	ug/L							03/12/14	
Trichloroethene (TCE)	ND	0.50	ug/L							03/12/14	
Trichlorofluoromethane	ND	5.0	ug/L							03/12/14	
Vinyl Chloride	ND	0.50	ug/L							03/12/14	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*97*	*70-130*			03/12/14	
Surrogate: Bromofluorobenzene	*51*			*50*		*101*	*70-130*			03/12/14	
Blank Spike (A402993-BS1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		101	70-130			03/12/14	
1,1,1-Trichloroethane	10	0.50	ug/L	10		102	70-130			03/12/14	
1,1,2,2-Tetrachloroethane	10	0.50	ug/L	10		102	70-130			03/12/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	10	10	ug/L	10		104	70-130			03/12/14	
1,1,2-Trichloroethane	10	0.50	ug/L	10		100	70-130			03/12/14	
1,1-Dichloroethane	10	0.50	ug/L	10		102	70-130			03/12/14	
1,1-Dichloroethene	10	0.50	ug/L	10		103	70-130			03/12/14	
1,1-Dichloropropene	10	0.50	ug/L	10		102	70-130			03/12/14	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		100	70-130			03/12/14	
1,2,4-Trichlorobenzene	9.9	0.50	ug/L	10		99	70-130			03/12/14	
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		101	70-130			03/12/14	
1,2-Dichlorobenzene	10	0.50	ug/L	10		100	70-130			03/12/14	
1,2-Dichloroethane	10	0.50	ug/L	10		101	70-130			03/12/14	
1,2-Dichloropropane	10	0.50	ug/L	10		101	70-130			03/12/14	
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		111	70-130			03/12/14	
1,3-Dichlorobenzene	10	0.50	ug/L	10		101	70-130			03/12/14	
1,3-Dichloropropane	10	0.50	ug/L	10		100	70-130			03/12/14	
1,4-Dichlorobenzene	10	0.50	ug/L	10		101	70-130			03/12/14	
2,2-Dichloropropane	10	0.50	ug/L	10		102	70-130			03/12/14	
2-Butanone	11	5.0	ug/L	10		114	70-130			03/12/14	
2-Chlorotoluene	10	0.50	ug/L	10		101	70-130			03/12/14	
2-Hexanone	10	10	ug/L	10		103	70-130			03/12/14	
4-Chlorotoluene	10	0.50	ug/L	10		102	70-130			03/12/14	
4-Methyl-2-pentanone	10	5.0	ug/L	10		102	70-130			03/12/14	
Acetone	11	10	ug/L	10		109	70-130			03/12/14	
Benzene	10	0.50	ug/L	10		101	70-130			03/12/14	
Bromobenzene	9.9	0.50	ug/L	10		99	70-130			03/12/14	
Bromochloromethane	9.9	0.50	ug/L	10		99	70-130			03/12/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402993 Prepared: 03/12/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A402993-BS1)												
Bromodichloromethane	10	0.50	ug/L	10		102	70-130			03/12/14		
Bromoform	9.6	0.50	ug/L	10		96	70-130			03/12/14		
Bromomethane	8.0	0.50	ug/L	10		80	70-130			03/12/14		
Carbon Tetrachloride	10	0.50	ug/L	10		104	70-130			03/12/14		
Chlorobenzene	10	0.50	ug/L	10		101	70-130			03/12/14		
Chloroethane	10	0.50	ug/L	10		102	70-130			03/12/14		
Chloroform	10	0.50	ug/L	10		102	70-130			03/12/14		
Chloromethane	9.9	0.50	ug/L	10		99	70-130			03/12/14		
cis-1,2-Dichloroethene	10	0.50	ug/L	10		101	70-130			03/12/14		
cis-1,3-Dichloropropene	9.7	0.50	ug/L	10		97	70-130			03/12/14		
Dibromochloromethane	10	0.50	ug/L	10		100	70-130			03/12/14		
Dibromomethane	9.9	0.50	ug/L	10		99	70-130			03/12/14		
Dichlorodifluoromethane	10	0.50	ug/L	10		103	70-130			03/12/14		
Dichloromethane	10	0.50	ug/L	10		102	70-130			03/12/14		
Di-isopropyl ether (DIPE)	10	3.0	ug/L	10		101	70-130			03/12/14		
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		100	70-130			03/12/14		
Ethylbenzene	10	0.50	ug/L	10		101	70-130			03/12/14		
Hexachlorobutadiene	10	0.50	ug/L	10		101	70-130			03/12/14		
Isopropylbenzene	10	0.50	ug/L	10		101	70-130			03/12/14		
m,p-Xylenes	20	0.50	ug/L	20		102	70-130			03/12/14		
Methyl-t-butyl ether	20	0.50	ug/L	20		100	70-130			03/12/14		
Naphthalene	10	0.50	ug/L	10		100	70-130			03/12/14		
n-Butylbenzene	10	0.50	ug/L	10		100	70-130			03/12/14		
n-Propylbenzene	10	0.50	ug/L	10		102	70-130			03/12/14		
o-Xylene	10	0.50	ug/L	10		101	70-130			03/12/14		
p-Isopropyltoluene	10	0.50	ug/L	10		101	70-130			03/12/14		
sec-Butylbenzene	10	0.50	ug/L	10		101	70-130			03/12/14		
Styrene	15	0.50	ug/L	10		147	70-130			03/12/14	BS	***High***
tert-Amyl Methyl Ether (TAME)	10	3.0	ug/L	10		103	70-130			03/12/14		
tert-Butyl alcohol (TBA)	10	2.0	ug/L	10		104	70-130			03/12/14		
tert-Butylbenzene	10	0.50	ug/L	10		101	70-130			03/12/14		
Tetrachloroethene (PCE)	10	0.50	ug/L	10		102	70-130			03/12/14		
Toluene	10	0.50	ug/L	10		101	70-130			03/12/14		
trans-1,2-Dichloroethene	10	0.50	ug/L	10		102	70-130			03/12/14		
trans-1,3-Dichloropropene	9.7	0.50	ug/L	10		97	70-130			03/12/14		
Trichloroethene (TCE)	10	0.50	ug/L	10		101	70-130			03/12/14		
Trichlorofluoromethane	10	5.0	ug/L	10		105	70-130			03/12/14		
Vinyl Chloride	10	0.50	ug/L	10		102	70-130			03/12/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.1*			*5.0*		*103*	*70-130*			03/12/14		
Surrogate: Bromofluorobenzene	*51*			*50*		*102*	*70-130*			03/12/14		
Blank Spike Dup (A402993-BSD1)												
1,1,1,2-Tetrachloroethane	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14		
1,1,1-Trichloroethane	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
1,1,2,2-Tetrachloroethane	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
1,1,2-Trichloro-1,2,2-trifluoroethane	10	10	ug/L	10		100	70-130	3	30	03/12/14		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402993 Prepared: 03/12/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike Dup (A402993-BSD1)											
1,1,2-Trichloroethane	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
1,1-Dichloroethane	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
1,1-Dichloroethene	9.8	0.50	ug/L	10		98	70-130	5	30	03/12/14	
1,1-Dichloropropene	9.8	0.50	ug/L	10		98	70-130	5	30	03/12/14	
1,2,3-Trichlorobenzene	9.7	0.50	ug/L	10		97	70-130	2	30	03/12/14	
1,2,4-Trichlorobenzene	9.6	0.50	ug/L	10		96	70-130	3	30	03/12/14	
1,2,4-Trimethylbenzene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
1,2-Dichlorobenzene	9.8	0.50	ug/L	10		98	70-130	2	30	03/12/14	
1,2-Dichloroethane	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
1,2-Dichloropropane	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		107	70-130	4	30	03/12/14	
1,3-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130	3	30	03/12/14	
1,3-Dichloropropane	9.8	0.50	ug/L	10		98	70-130	2	30	03/12/14	
1,4-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130	3	30	03/12/14	
2,2-Dichloropropane	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14	
2-Butanone	10	5.0	ug/L	10		101	70-130	12	30	03/12/14	
2-Chlorotoluene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
2-Hexanone	9.4	10	ug/L	10		94	70-130	9	30	03/12/14	
4-Chlorotoluene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
4-Methyl-2-pentanone	9.4	5.0	ug/L	10		94	70-130	9	30	03/12/14	
Acetone	9.5	10	ug/L	10		95	70-130	14	30	03/12/14	
Benzene	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14	
Bromobenzene	9.6	0.50	ug/L	10		96	70-130	3	30	03/12/14	
Bromochloromethane	9.8	0.50	ug/L	10		98	70-130	1	30	03/12/14	
Bromodichloromethane	9.9	0.50	ug/L	10		99	70-130	2	30	03/12/14	
Bromoform	9.4	0.50	ug/L	10		94	70-130	3	30	03/12/14	
Bromomethane	8.7	0.50	ug/L	10		87	70-130	9	30	03/12/14	
Carbon Tetrachloride	10	0.50	ug/L	10		100	70-130	4	30	03/12/14	
Chlorobenzene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
Chloroethane	9.8	0.50	ug/L	10		98	70-130	5	30	03/12/14	
Chloroform	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14	
Chloromethane	9.0	0.50	ug/L	10		90	70-130	9	30	03/12/14	
cis-1,2-Dichloroethene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
cis-1,3-Dichloropropene	9.5	0.50	ug/L	10		95	70-130	2	30	03/12/14	
Dibromochloromethane	9.8	0.50	ug/L	10		98	70-130	2	30	03/12/14	
Dibromomethane	9.8	0.50	ug/L	10		98	70-130	2	30	03/12/14	
Dichlorodifluoromethane	9.8	0.50	ug/L	10		98	70-130	5	30	03/12/14	
Dichloromethane	9.9	0.50	ug/L	10		99	70-130	3	30	03/12/14	
Di-isopropyl ether (DIPE)	9.7	3.0	ug/L	10		97	70-130	3	30	03/12/14	
Ethyl tert-Butyl Ether (ETBE)	9.7	0.50	ug/L	10		97	70-130	3	30	03/12/14	
Ethylbenzene	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14	
Hexachlorobutadiene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
Isopropylbenzene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
m,p-Xylenes	20	0.50	ug/L	20		98	70-130	4	30	03/12/14	
Methyl-t-butyl ether	20	0.50	ug/L	20		98	70-130	2	30	03/12/14	
Naphthalene	9.6	0.50	ug/L	10		96	70-130	4	30	03/12/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 524.2 - Quality Control												
Batch: A402993										Prepared: 03/12/2014		
Prep Method: EPA 524.2										Analyst: JGB		
Blank Spike Dup (A402993-BSD1)												
n-Butylbenzene	9.6	0.50	ug/L	10		96	70-130	4	30	03/12/14		
n-Propylbenzene	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
o-Xylene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14		
p-Isopropyltoluene	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14		
sec-Butylbenzene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14		
Styrene	14	0.50	ug/L	10		144	70-130	2	30	03/12/14	BS	***High***
tert-Amyl Methyl Ether (TAME)	10	3.0	ug/L	10		100	70-130	3	30	03/12/14		
tert-Butyl alcohol (TBA)	9.2	2.0	ug/L	10		92	70-130	13	30	03/12/14		
tert-Butylbenzene	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14		
Tetrachloroethene (PCE)	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
Toluene	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14		
trans-1,2-Dichloroethene	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
trans-1,3-Dichloropropene	9.5	0.50	ug/L	10		95	70-130	2	30	03/12/14		
Trichloroethene (TCE)	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14		
Trichlorofluoromethane	10	5.0	ug/L	10		101	70-130	4	30	03/12/14		
Vinyl Chloride	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.1*			*5.0*		*103*	*70-130*			03/12/14		
Surrogate: Bromofluorobenzene	*51*			*50*		*102*	*70-130*			03/12/14		
EPA 525.2 - Quality Control												
Batch: A403148										Prepared: 03/14/2014		
Prep Method: EPA 525.2										Analyst: GAK		
Blank (A403148-BLK1)												
Alachlor	ND	1.0	ug/L							03/16/14		
Atrazine	ND	0.50	ug/L							03/16/14		
Benzo(a)pyrene	ND	0.10	ug/L							03/16/14		
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							03/16/14		
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							03/16/14		
Bromacil	ND	10	ug/L							03/16/14		
Butachlor	ND	0.38	ug/L							03/16/14		
Diazinon	ND	0.25	ug/L							03/16/14		
Dimethoate	ND	10	ug/L							03/16/14		
Metolachlor	ND	0.50	ug/L							03/16/14		
Metribuzin	ND	0.50	ug/L							03/16/14		
Molinate	ND	2.0	ug/L							03/16/14		
Prometryn	ND	2.0	ug/L							03/16/14		
Propachlor	ND	0.50	ug/L							03/16/14		
Simazine	ND	1.0	ug/L							03/16/14		
Thiobencarb	ND	1.0	ug/L							03/16/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.8*			*5.0*		*117*	*70-130*			03/16/14		
Blank Spike (A403148-BS1)												
Alachlor	0.51	1.0	ug/L	0.51		100	70-130			03/16/14		
Atrazine	0.53	0.50	ug/L	0.51		103	70-130			03/16/14		
Benzo(a)pyrene	0.093	0.10	ug/L	0.10		90	70-130			03/16/14		

Organics Quality Control Report

EPA 525.2 - Quality Control

Batch: A403148 Prepared: 03/14/2014

Prep Method: EPA 525.2 Analyst: GAK

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A403148-BS1)												
Bis(2-ethylhexyl) adipate	3.3	3.0	ug/L	3.1		106	70-130			03/16/14		
Bis(2-ethylhexyl) phthalate	4.2	3.0	ug/L	3.1		138	70-130			03/16/14	BS	***High***
Bromacil	2.6	10	ug/L	2.1		126	70-130			03/16/14		
Butachlor	1.4	0.38	ug/L	1.3		106	70-130			03/16/14		
Diazinon	0.047	0.25	ug/L	0.051		92	70-130			03/16/14		
Dimethoate	0.57	10	ug/L	0.51		111	70-130			03/16/14		
Metolachlor	2.8	0.50	ug/L	2.6		107	70-130			03/16/14		
Metribuzin	2.9	0.50	ug/L	2.6		114	70-130			03/16/14		
Molinate	2.9	2.0	ug/L	2.6		112	70-130			03/16/14		
Prometryn	0.63	0.50	ug/L	0.51		123	70-130			03/16/14		
Propachlor	3.0	0.50	ug/L	2.6		116	70-130			03/16/14		
Simazine	0.39	1.0	ug/L	0.36		109	70-130			03/16/14		
Thiobencarb	0.59	1.0	ug/L	0.51		114	70-130			03/16/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.5*			*5.1*		*107*	*70-130*			03/16/14		
Blank Spike Dup (A403148-BSD1)												
Alachlor	0.54	1.0	ug/L	0.54		100	70-130	5	30	03/16/14		
Atrazine	0.58	0.50	ug/L	0.54		108	70-130	9	30	03/16/14		
Benzo(a)pyrene	0.11	0.10	ug/L	0.11		100	70-130	15	30	03/16/14		
Bis(2-ethylhexyl) adipate	3.5	3.0	ug/L	3.2		109	70-130	7	30	03/16/14		
Bis(2-ethylhexyl) phthalate	4.8	3.0	ug/L	3.2		148	70-130	12	30	03/16/14	BS	***High***
Bromacil	2.7	10	ug/L	2.1		124	70-130	3	30	03/16/14		
Butachlor	1.4	0.38	ug/L	1.3		108	70-130	6	30	03/16/14		
Diazinon	0.057	0.25	ug/L	0.054		106	70-130	18	30	03/16/14		
Dimethoate	0.56	10	ug/L	0.54		104	70-130	3	30	03/16/14		
Metolachlor	2.8	0.50	ug/L	2.7		104	70-130	1	30	03/16/14		
Metribuzin	3.1	0.50	ug/L	2.7		114	70-130	4	30	03/16/14		
Molinate	3.2	2.0	ug/L	2.7		118	70-130	9	30	03/16/14		
Prometryn	0.65	0.50	ug/L	0.54		121	70-130	3	30	03/16/14		
Propachlor	3.2	0.50	ug/L	2.7		119	70-130	7	30	03/16/14		
Simazine	0.41	1.0	ug/L	0.38		110	70-130	5	30	03/16/14		
Thiobencarb	0.63	1.0	ug/L	0.54		117	70-130	7	30	03/16/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.7*			*5.4*		*107*	*70-130*			03/16/14		
Matrix Spike (A403148-MS1), Source: A4C0755-02												
Alachlor	0.52	1.0	ug/L	0.52	ND	99	70-130			03/16/14		
Atrazine	0.52	0.50	ug/L	0.52	ND	99	70-130			03/16/14		
Benzo(a)pyrene	0.13	0.10	ug/L	0.10	ND	95	70-130			03/16/14		
Bis(2-ethylhexyl) adipate	3.4	3.0	ug/L	3.1	ND	109	70-130			03/16/14		
Bis(2-ethylhexyl) phthalate	4.1	3.0	ug/L	3.1	ND	110	70-130			03/16/14		
Bromacil	2.5	10	ug/L	2.1	ND	122	70-130			03/16/14		
Butachlor	1.4	0.38	ug/L	1.3	ND	105	70-130			03/16/14		
Diazinon	0.055	0.25	ug/L	0.052	ND	106	70-130			03/16/14		
Dimethoate	0.59	10	ug/L	0.52	ND	113	70-130			03/16/14		
Metolachlor	2.7	0.50	ug/L	2.6	ND	103	70-130			03/16/14		
Metribuzin	2.7	0.50	ug/L	2.6	ND	103	70-130			03/16/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A403148										Prepared: 03/14/2014	
Prep Method: EPA 525.2										Analyst: GAK	
Matrix Spike (A403148-MS1), Source: A4C0755-02											
Molinate	2.9	2.0	ug/L	2.6	ND	110	70-130			03/16/14	
Prometryn	0.53	0.50	ug/L	0.52	ND	101	70-130			03/16/14	
Propachlor	2.9	0.50	ug/L	2.6	ND	111	70-130			03/16/14	
Simazine	0.34	1.0	ug/L	0.36	ND	93	70-130			03/16/14	
Thiobencarb	0.55	1.0	ug/L	0.52	ND	105	70-130			03/16/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.6*			*5.2*		*108*	*70-130*			03/16/14	
EPA 531.1 - Quality Control											
Batch: A403040										Prepared: 03/12/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A403040-BLK1)											
3-Hydroxycarbofuran	ND	3.0	ug/L							03/12/14	
Aldicarb	ND	3.0	ug/L							03/12/14	
Aldicarb Sulfone	ND	2.0	ug/L							03/12/14	
Aldicarb Sulfoxide	ND	3.0	ug/L							03/12/14	
Carbaryl	ND	5.0	ug/L							03/12/14	
Carbofuran	ND	5.0	ug/L							03/12/14	
Methiocarb	ND	2.0	ug/L							03/12/14	
Methomyl	ND	2.0	ug/L							03/12/14	
Oxamyl	ND	20	ug/L							03/12/14	
Propoxur	ND	2.0	ug/L							03/12/14	
Blank Spike (A403040-BS1)											
3-Hydroxycarbofuran	4.2	3.0	ug/L	4.0		106	80-120			03/12/14	
Aldicarb	4.1	3.0	ug/L	4.0		103	80-120			03/12/14	
Aldicarb Sulfone	4.3	2.0	ug/L	4.0		107	80-120			03/12/14	
Aldicarb Sulfoxide	4.3	3.0	ug/L	4.0		106	80-120			03/12/14	
Carbaryl	4.2	5.0	ug/L	4.0		104	80-120			03/12/14	
Carbofuran	4.2	5.0	ug/L	4.0		105	80-120			03/12/14	
Methiocarb	4.5	2.0	ug/L	4.0		112	80-120			03/12/14	
Methomyl	4.4	2.0	ug/L	4.0		109	80-120			03/12/14	
Oxamyl	4.2	20	ug/L	4.0		106	80-120			03/12/14	
Propoxur	4.3	2.0	ug/L	4.0		107	80-120			03/12/14	
Blank Spike Dup (A403040-BSD1)											
3-Hydroxycarbofuran	4.3	3.0	ug/L	4.0		108	80-120	2	20	03/12/14	
Aldicarb	4.1	3.0	ug/L	4.0		103	80-120	0	20	03/12/14	
Aldicarb Sulfone	4.3	2.0	ug/L	4.0		107	80-120	1	20	03/12/14	
Aldicarb Sulfoxide	4.3	3.0	ug/L	4.0		107	80-120	0	20	03/12/14	
Carbaryl	4.2	5.0	ug/L	4.0		106	80-120	1	20	03/12/14	
Carbofuran	4.2	5.0	ug/L	4.0		105	80-120	0	20	03/12/14	
Methiocarb	4.2	2.0	ug/L	4.0		104	80-120	7	20	03/12/14	
Methomyl	4.3	2.0	ug/L	4.0		107	80-120	2	20	03/12/14	
Oxamyl	4.2	20	ug/L	4.0		106	80-120	0	20	03/12/14	
Propoxur	4.1	2.0	ug/L	4.0		102	80-120	6	20	03/12/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A403040										Prepared: 03/12/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Matrix Spike (A403040-MS1), Source: A4C0825-01											
3-Hydroxycarbofuran	4.1	3.0	ug/L	4.0	ND	103	65-135			03/13/14	
Aldicarb	3.9	3.0	ug/L	4.0	ND	99	65-135			03/13/14	
Aldicarb Sulfone	4.1	2.0	ug/L	4.0	ND	102	65-135			03/13/14	
Aldicarb Sulfoxide	4.1	3.0	ug/L	4.0	ND	103	65-135			03/13/14	
Carbaryl	4.1	5.0	ug/L	4.0	ND	103	65-135			03/13/14	
Carbofuran	4.1	5.0	ug/L	4.0	ND	101	65-135			03/13/14	
Methiocarb	4.1	2.0	ug/L	4.0	ND	96	65-135			03/13/14	
Methomyl	4.2	2.0	ug/L	4.0	ND	105	65-135			03/13/14	
Oxamyl	4.1	20	ug/L	4.0	ND	102	65-135			03/13/14	
Propoxur	4.0	2.0	ug/L	4.0	ND	101	65-135			03/13/14	
EPA 547 - Quality Control											
Batch: A403000										Prepared: 03/12/2014	
Prep Method: EPA 547										Analyst: RJB	
Blank (A403000-BLK1)											
Glyphosate	ND	25	ug/L							03/12/14	
Surrogate: AMPA	*110*			*100*		*113*	*70-130*			03/12/14	
Blank Spike (A403000-BS1)											
Glyphosate	100	25	ug/L	100		105	70-130			03/12/14	
Surrogate: AMPA	*110*			*100*		*107*	*70-130*			03/12/14	
Blank Spike Dup (A403000-BSD1)											
Glyphosate	120	25	ug/L	100		118	70-130	12	30	03/12/14	
Surrogate: AMPA	*120*			*100*		*119*	*70-130*			03/12/14	
Matrix Spike (A403000-MS1), Source: A4C0880-01											
Glyphosate	120	25	ug/L	100	ND	115	70-130			03/12/14	
Surrogate: AMPA	*130*			*100*		*125*	*70-130*			03/12/14	
Matrix Spike Dup (A403000-MSD1), Source: A4C0880-01											
Glyphosate	110	25	ug/L	100	ND	109	70-130	5	30	03/12/14	
Surrogate: AMPA	*120*			*100*		*117*	*70-130*			03/12/14	
EPA 548.1 - Quality Control											
Batch: A403056										Prepared: 03/12/2014	
Prep Method: EPA 548.1										Analyst: GAK	
Blank (A403056-BLK1)											
Endothall	ND	45	ug/L							03/13/14	
Blank Spike (A403056-BS1)											
Endothall	17	45	ug/L	20		85	60-111			03/13/14	
Blank Spike Dup (A403056-BSD1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 548.1 - Quality Control											
Batch: A403056										Prepared: 03/12/2014	
Prep Method: EPA 548.1										Analyst: GAK	
Blank Spike Dup (A403056-BSD1)											
Endothall	14	45	ug/L	20		71	60-111	18	46	03/13/14	
Matrix Spike (A403056-MS1), Source: A4C0610-01											
Endothall	ND	45	ug/L	20	ND	0	10-122			03/13/14	MS1.0 ***Low***
EPA 549.2 - Quality Control											
Batch: A403100										Prepared: 03/13/2014	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A403100-BLK1)											
Diquat	ND	4.0	ug/L							03/14/14	
Blank Spike (A403100-BS1)											
Diquat	3.3	4.0	ug/L	4.0		83	70-130			03/14/14	
Blank Spike Dup (A403100-BSD1)											
Diquat	3.2	4.0	ug/L	4.0		79	70-130	5	30	03/14/14	
Matrix Spike (A403100-MS1), Source: A4C0537-01											
Diquat	3.0	4.0	ug/L	4.0	ND	75	70-130			03/14/14	
Matrix Spike (A403100-MS2), Source: A4C0537-02											
Diquat	3.4	4.0	ug/L	4.0	ND	85	70-130			03/14/14	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of Oregon - NELAP	4021	State of Washington	C997
State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA

BSK is not accredited under the NELAC program for the following parameters:

A4C0828

Monterey Bay Analytical

Monte6227

03112014

Turnaround: Standard

Due Date: 3/18/2014

Printed: 3/11/2014 5:51:21PM

Page 1 of 1

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street, Fresno, CA 93706-1623
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

A4C0828 03/11/2014
Monte6227 5

* Required Fields

TEMP: 2.2

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Monterey Bay Analytical	David Holland	(831)-357-6227	(831)-641-0734
		E-mail: 4MBAS@Sbcglobal.net	

Address *: 4 Justin Ct. City *: Monterey State *: CA Zip *: 93940

Project Information: Cal Am

PO # / Quote #: 464

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: Josh Soboleu

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☑ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☑ System No. *

ANALYSIS REQUESTED

Matrix Types: RSW = Raw Surface Water, CFW = Clorinated Finished Water, CWW = Chorinated Waste Water, BW = Bottled Water, RGW = Raw Ground Water, FW = Finished Water, WW = Waste Water, SW = Storm Water, DW = Drinking Water, SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 504	EPA 515	EPA 524 inc MTBE	EPA 525	EPA 531	EPA 547	EPA 548	EPA 549	
		3/8/14	16:00	CX-B2WQ Zone #1 (215-225 ft bgs)	RGW	12621	✓	✓	✓	✓	✓	✓	✓	✓	
				5 day TAT please											
				Conductivity 35194 uS/cm											

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
David Holland	MBAS	3/10/14 ~~3/9/14~~	1200		
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Received for Lab by: (Signature and Printed Name)		Date 3/11/14	Time 1000	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/re-billing charges and interest calculated at 1 1/2 % per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorneys' fees incurred prior to or in litigation whether concluded by judgement, settlement, compromise or otherwise. The person signing for the client/Company expressley acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis requested, either type or quantities, will be noted and agreed upon this Chain of Custody. The turn around time for any samples received after 3:00 pm will begin the next business day.

SR-FL-0012-00 (Analytical)

BSK Associates SR-FL-0002-09

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received — "–" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—						
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—						
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—						
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1 L					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2L, 2A					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	1V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: SRA @ 1711 Labels checked by: [illegible] @ 17:23 RUSH Paged by:

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

March 15, 2014 Ceres ID: 10286

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on March 11, 2014. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613. **Rush** 5 day turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # 12621.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (888)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
10286-001	CX-B2WQ Zone #1 (215-225ft bags)	3/11/2014	3/8/2014	16:00

Section II: Data Summary

Sample ID:	**Method Blank**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-MB001 — Date Received: NA
Project:	12621	Sample Size: 1.000 L	QC Batch #: 1165 — Date Extracted: 13-Mar-14
Date Collected:	NA		ZB-5 MS Analysis Date: 14-Mar-14
Time Collected:	NA		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	3.25		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	104	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	104	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Sample ID:	**Ongoing Precision and Recovery**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-OPR001 — Date Received: NA
Project:	12621	Sample Size: 1.000 L	QC Batch #: 1165 — Date Extracted: 13-Mar-14
Date Collected:	NA		ZB-5 MS Analysis Date: 14-Mar-14
Time Collected:	NA		

Analyte	Conc. (ng/ml)	Limits [a]	Qualifiers
2,3,7,8-TCDD	9.24	7.3-14.6	

	Labeled Standards	Conc.	Limits [a]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	104	25-141	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	9.88	3.7-15.8	

a. Method acceptance criteria .

Analyst: JMH

Reviewed by: BS

Sample ID:	CX-B2WQ Zone #1 (215-225 ft bags)		
Client Data	**Sample Data**	**Laboratory Data**	
Name: Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 10286-001	Date Received: 11-Mar-14
Project: 12621	Sample Size: 1.046 L	QC Batch #: 1165	Date Extracted: 13-Mar-14
Date Collected: 8-Mar-14		ZB-5 MS Analysis Date: 14-Mar-14	
Time Collected: 16:00			

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	1.96		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	93.6	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	93.1	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Ceres Project ID:_____
Temperature: _____ °C

Reports and invoices will be delivered by email in .pdf format

Client Information	Invoice Information (if different from Client Info)	Project Information
Company Name:_____ Monterey Bay Analytical	Company Name:_____ Same	Ceres Quote #:_____
Contact Name:_____ David Holland	Contact Name:_____	P.O. # _____
Address: 4 Justin Court Ste D Monterey CA 93940	Address:_____	Project ID: _____
Ph:_ 831-375-6227	Ph:_____ Fx:_____	**TAT** (business days)_____
Email: montereybayanalytical@usa.net	Email:	Std 15 days; Rush TAT available please call

Matrix abreviations:

A: Aqueous	S: Soil	AS: Ash	DW: Drinking Water
E: Effluent	SD: Sediment	C: Clay	SO: Solid
I: Influent	SL: Sludge	CS: Clay Slurry	O: Other (please comment)

TEF: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Sample Collection Date	Time	Matrix	# of containers	EPA 1613	EPA 8290	NCASI 551	EPA 8280	EPA 613	Other	Comments
1	CX-B2WQ Zone #1 (215-225 ft bags)	3/8/2014	16:00	Aq	2	X						12621
2												(2,3,7,8 TCDD only)
3												5 day Rush Please
4												
5												
6												
7												
8												
9												
10												
11												
12												

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

Relinquished by: *(Signature and Printed Name)*	Date	Time	Received by: *(signature and Printed Name)*	Date	Time
David Holland	3/10/2014	12:00	Deborah A Neeb Debbie Hedin	3/11/14	10:17

Client understands that all terms desribed in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.

Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

Ceres ID: 10286	Date/Time: 3/11/14 1021
Client Project ID: 12621	Received Temperature: 0.2 Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present?	Y / N / NA
List COC discrepancies:	
List Damaged Samples:	

Ceres Analytical Laboratory

Process Request

Ceres ID: 10286 PB: 1165 Sample #s: 1 Due Date: 3/16/14

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash

Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (check one):

- ☐ 1613 2,3,7,8-TCDD
- ☐ 1613 2,3,7,8-TCDD/F
- ☐ 1613 Cl_4-Cl_8
- ☐ 8280 2,3,7,8-TCDD
- ☐ 8280 2,3,7,8-TCDD/F
- ☐ 8280 Appendix IX
- ☐ 8280 Cl_4-Cl_8
- ☐ 8290 2,3,7,8-TCDD
- ☐ 8290 2,3,7,8-TCDD/F
- ☐ 8290 Cl_4-Cl_8
- ☐ NCASI 551

Instructions:

Sample Volume Calculation

Instructions:
1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$Sample\ Volume = (Sample + Bottle\ Wt) - Empty\ Bottle\ Wt.$$

Ceres ID	Sample +Bottle Wt.	Empty Bottle Wt.	Sample Volume
10286-1	1558.38	512.60	1.046 L

Chemist: [signature] Date: 3/13/14

Method: 1613
SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Appendix G

Ceres ID	Client ID	Ver.	wt/vol	ISS/PAR chem/date/witness	CSS chem/date/witness	AP	AB/AC	FC	RSS chem/date/witness
0-1165-MB001	Method Blank		1.000 L	3/13/14	3/14/14	NA	3/14/14	NA	3/14/14
0-1165-OPR001	OPR		1.000 L	(A)					
10286-1165-001	CX-B2WQ Zone#1 (215-225 ft)	✓	1.046 L						

Comments : (A) Spiked w/ RSS

Soxhlet Start: 15:00 3/13/14

Soxhlet Stop: 07:15 3/14/14

Samples Logged out by: 11:00 3/13/14

Samples Returned by: NA

Note samples Depleted: 1 A

Sample Extracts Storage Location: Box 8

Extracts to Intrument: 10:20 3/14/14

Extracts returned to Storage Location: 09:00 3/15/14

Form M1.0 rev4

Chemist: G-414

Effective Date: 7/12/13

Method: 1613
SOP #: 301.1

Ceres Analytical Laboratory
Sample Prep Bench Sheet

Standard	Standard ID	Vol.	Expiration Date
ISS	S031212A	10 ml	3/12/17
NSS	S031212B	10 ml	3/12/17
CSS	S031212C	10 ml	3/12/17
RSS	S031212D	20 ml	3/12/17

Solvents/Solutions/Packing Materials

Name	Amount	Lot #	Exp. Date
Toluene	450ml	PB005770TOL	8/17/14
Hexane	30,30,100,200	53263	8/11/14
Sigel	4g	P020514A	8/5/14
Basicgel	4g	P012014A	7/20/14
Acid gel	8g	P031114A	9/11/14
Acid Al	6g	P031114B	9/11/14
Na_2SO_4	1.5g	P120413A	6/4/14
20% DCM Hex	30ml	L031214A	9/12/14

Chemist : G-415

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

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CERTIFICATE OF ANALYSIS

Client:	Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940	**Report Date:**	03/17/14 13:53
		Received Date:	03/11/14 09:20
		Turn Around:	5 workdays
Attention:	David Holland	**Client Project:**	Cal Am
Phone:	(831) 375-6227		
Fax:	(831) 641-0734		
Work Order(s):	4C11005		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

Enclosed are the results of analyses for samples received 03/11/14 09:20 with the Chain of Custody document. The samples were received in good condition, at 4.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CX-B2WQ Zone #1 (215-225 ft bgs)	Josh Soboleu	12621	4C11005-01	Water	03/08/14 16:00

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Chlorinated Pesticides and/or PCBs

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Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:53

4C11005-01 **CX-B2WQ Zone #1 (215-225 ft bgs)**

Sampled: 03/08/14 16:00 **Sampled By:** Josh Soboleu **Matrix:** Water

Sample Note: 12621

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 9056A Batch: W4C0833 Prepared: 03/15/14 10:30 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Iodide	ND	250	ug/l	25	03/15/14 15:05	M-02

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4C0665 Prepared: 03/12/14 14:41 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND		0.010	ug/l	1	03/14/14 01:44	
4,4´-DDE	ND		0.010	ug/l	1	03/14/14 01:44	
4,4´-DDT	ND		0.010	ug/l	1	03/14/14 01:44	
Aldrin	ND		0.010	ug/l	1	03/14/14 01:44	
alpha-BHC	ND		0.010	ug/l	1	03/14/14 01:44	
Aroclor 1016	ND		0.10	ug/l	1	03/14/14 01:44	
Aroclor 1221	ND		0.10	ug/l	1	03/14/14 01:44	
Aroclor 1232	ND		0.10	ug/l	1	03/14/14 01:44	
Aroclor 1242	ND		0.10	ug/l	1	03/14/14 01:44	
Aroclor 1248	ND		0.10	ug/l	1	03/14/14 01:44	
Aroclor 1254	ND		0.10	ug/l	1	03/14/14 01:44	
Aroclor 1260	ND		0.10	ug/l	1	03/14/14 01:44	
beta-BHC	ND		0.010	ug/l	1	03/14/14 01:44	
Chlordane (tech)	ND		0.10	ug/l	1	03/14/14 01:44	
Chlorothalonil	ND		0.050	ug/l	1	03/14/14 01:44	
delta-BHC	ND		0.010	ug/l	1	03/14/14 01:44	
Dieldrin	ND		0.010	ug/l	1	03/14/14 01:44	
Endosulfan I	ND		0.010	ug/l	1	03/14/14 01:44	
Endosulfan II	ND		0.010	ug/l	1	03/14/14 01:44	
Endosulfan sulfate	ND		0.010	ug/l	1	03/14/14 01:44	
Endrin	ND		0.010	ug/l	1	03/14/14 01:44	
Endrin aldehyde	ND		0.010	ug/l	1	03/14/14 01:44	
gamma-BHC (Lindane)	ND		0.010	ug/l	1	03/14/14 01:44	
Heptachlor	ND		0.010	ug/l	1	03/14/14 01:44	
Heptachlor epoxide	ND		0.010	ug/l	1	03/14/14 01:44	
Hexachlorobenzene	ND		0.010	ug/l	1	03/14/14 01:44	
Hexachlorocyclopentadiene	ND		0.050	ug/l	1	03/14/14 01:44	
Methoxychlor	ND		0.010	ug/l	1	03/14/14 01:44	
PCBs, Total	ND		0.50	ug/l	1	03/14/14 01:44	
Propachlor	ND		0.050	ug/l	1	03/14/14 01:44	
Toxaphene	ND		1.0	ug/l	1	03/14/14 01:44	
Trifluralin	ND		0.010	ug/l	1	03/14/14 01:44	
Surr: Decachlorobiphenyl	*29 %*	Conc:*0.0277*	*70-130*	%			*S-GC*
Surr: Tetrachloro-meta-xylene	*117 %*	Conc:*0.112*	*70-130*	%			

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Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:53

4C11005-01 **CX-B2WQ Zone #1 (215-225 ft bgs)**

Sampled: 03/08/14 16:00 **Sampled By:** Josh Soboleu **Matrix:** Water

Sample Note: 12621

Chlorinated Pesticides and/or PCBs

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QUALITY CONTROL SECTION

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Date Reported: 03/17/14 13:53

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4C0833 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0833-BLK1)				Analyzed: 03/15/14 15:05						
Iodide	ND	10	ug/l							
LCS (W4C0833-BS1)				Analyzed: 03/15/14 15:05						
Iodide	40.2	10	ug/l	40.0		101	85-115			
Matrix Spike (W4C0833-MS1)	**Source: 4C11006-01**			Analyzed: 03/15/14 15:05						
Iodide	1090	250	ug/l	1000	ND	109	80-120			
Matrix Spike Dup (W4C0833-MSD1)	**Source: 4C11006-01**			Analyzed: 03/15/14 15:05						
Iodide	931	250	ug/l	1000	ND	93	80-120	15	20	

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0665 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0665-BLK1)				Analyzed: 03/14/14 00:12						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							

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Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0665 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0665-BLK1)				Analyzed: 03/14/14 00:12						
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							
Surr: Decachlorobiphenyl	*0.108*		*ug/l*	*0.100*		*108*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.106*		*ug/l*	*0.100*		*106*	*70-130*			
LCS (W4C0665-BS1)				Analyzed: 03/14/14 00:43						
4,4´-DDD	0.0745	0.010	ug/l	0.100		75	55-142			
4,4´-DDE	0.0830	0.010	ug/l	0.100		83	49-129			
4,4´-DDT	0.0919	0.010	ug/l	0.100		92	54-160			
Aldrin	0.0782	0.010	ug/l	0.100		78	29-115			
alpha-BHC	0.0801	0.010	ug/l	0.100		80	59-131			
beta-BHC	0.0723	0.010	ug/l	0.100		72	63-136			
delta-BHC	0.0874	0.010	ug/l	0.100		87	59-137			
Dieldrin	0.0773	0.010	ug/l	0.100		77	59-135			
Endosulfan I	0.0659	0.010	ug/l	0.100		66	28-138			
Endosulfan II	0.0673	0.010	ug/l	0.100		67	53-133			
Endosulfan sulfate	0.0716	0.010	ug/l	0.100		72	58-155			
Endrin	0.0725	0.010	ug/l	0.100		72	57-148			
Endrin aldehyde	0.0706	0.010	ug/l	0.100		71	45-139			
gamma-BHC (Lindane)	0.0595	0.010	ug/l	0.100		60	59-129			
Heptachlor	0.0879	0.010	ug/l	0.100		88	42-136			
Heptachlor epoxide	0.0757	0.010	ug/l	0.100		76	59-134			
Methoxychlor	0.0727	0.010	ug/l	0.100		73	56-167			
Surr: Decachlorobiphenyl	*0.0947*		*ug/l*	*0.100*		*95*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0986*		*ug/l*	*0.100*		*99*	*70-130*			
LCS Dup (W4C0665-BSD1)				Analyzed: 03/14/14 01:13						
4,4´-DDD	0.0865	0.010	ug/l	0.100		87	55-142	15	25	
4,4´-DDE	0.0904	0.010	ug/l	0.100		90	49-129	9	25	
4,4´-DDT	0.102	0.010	ug/l	0.100		102	54-160	10	25	
Aldrin	0.0841	0.010	ug/l	0.100		84	29-115	7	25	
alpha-BHC	0.0886	0.010	ug/l	0.100		89	59-131	10	25	
beta-BHC	0.0835	0.010	ug/l	0.100		84	63-136	14	25	
delta-BHC	0.0960	0.010	ug/l	0.100		96	59-137	9	25	
Dieldrin	0.0883	0.010	ug/l	0.100		88	59-135	13	25	
Endosulfan I	0.0704	0.010	ug/l	0.100		70	28-138	7	25	
Endosulfan II	0.0754	0.010	ug/l	0.100		75	53-133	11	25	
Endosulfan sulfate	0.0870	0.010	ug/l	0.100		87	58-155	19	25	
Endrin	0.0802	0.010	ug/l	0.100		80	57-148	10	25	
Endrin aldehyde	0.0736	0.010	ug/l	0.100		74	45-139	4	25	
gamma-BHC (Lindane)	0.0873	0.010	ug/l	0.100		87	59-129	38	25	Q-12
Heptachlor	0.0945	0.010	ug/l	0.100		95	42-136	7	25	
Heptachlor epoxide	0.0844	0.010	ug/l	0.100		84	59-134	11	25	
Methoxychlor	0.0923	0.010	ug/l	0.100		92	56-167	24	25	
Surr: Decachlorobiphenyl	*0.105*		*ug/l*	*0.100*		*105*	*70-130*			

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Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:53

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0665 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W4C0665-BSD1)				Analyzed: 03/14/14 01:13						
Surr: Tetrachloro-meta-xylene	*0.107*		*ug/l*	*0.100*		*107*	*70-130*			

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Notes and Definitions

S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Turbidity QC Summary (EPA 180.1)

Date Analyzed: 3/9/2014

	Value (NTU)	Result (NTU)	% Rec	Acceptance Criteria %Rec
IPC	1.00	0.97	97.0	95-105

Sample ID	Sample (NTU)	Sample Dup (NTU)	% RPD	Acceptance Criteria % RPD
AB12621	0.400	0.402	0.00	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 3/9/2014

	Value (umhos/cm)	Result (umhos/cm)	% Rec	Acceptance Criteria %Rec
IPC	1412	1413	100.1%	95-105

Sample ID	Sample (umhos/cm)	Sample Dup (umhos/cm)	% RPD	Acceptance Criteria % RPD
AB12621	36590	36770	0.5%	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

pH QC Summary (SM 4500 H+)

Date Analyzed: 3/9/2014

	Value (pH Units)	Result (pH Units)	% Rec	Acceptance Criteria %Rec
IPC	6.86	6.88	100.3	95-105

Sample ID	Sample (pH Units)	Sample Dup (pH Units)	% RPD	Acceptance Criteria % RPD
AB12621	7	7.1	1.4	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Color QC Summary (SM 2120B)

Date Analyzed: 3/10/2014

	Value (Color Units)	Result (Color Units)	% Rec	Acceptance Criteria %Rec
IPC	5	5	100.0	95-105

Sample ID	Sample (Color Units)	Sample Dup (Color Units)	% RPD	Acceptance Criteria % RPD
AB12658	1	1	0.0	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 3/11/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC (Low)	0.050	0.046	92	90-110
IPC (High)	0.500	0.494	98.8	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12237	0.014	0.500	0.486	0.499	94.46	97.06	2.6	85-120	10
AB12621	0.014	0.500	0.360	0.362	69.26	69.66	0.6	85-124	10

Note: The MS and MSD for the sample ID AB12621, does not meet the the acceptance criteria for the rec %. Data is accepted due IPC (Low) and IPC (High) rec %.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check
RPD = Relative Percent Difference; Rec = Recovery

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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Alkalinity QC Summary (SM 2320B)

Date Analyzed: 3/13/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	40	41.1	102.75	95-105
IPC	40	38.5	96.25	95-105

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12682	253.1	256.7	1.4	10
AB12692	230.1	231.5	0.6	10
AB12765	292.9	292.3	0.2	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

EPA 200.7 QC

Batch # 20140313

Analyte/		IC	Prep	LCS	%Rec	LCSD	%Rec	%Diff	IC Verification			QCS (95-105%)		
WL	Range	Blank	Blank	Value	85-115%	Value	85-115%		Value	Result	%Rec	Value	Result	%Rec
B 249.678	0.05-5ppm	0.01	0.00	1.00	100.4%	1.03	103.1%	2.7%	1	1.02	101.5%	1	0.98	97.8%
B 249.772	0.05-5ppm	0.01	0.01	1.01	100.7%	1.03	103.0%	2.3%	1	1.02	102.0%	1	0.99	98.6%
Ca 317.933	50-300ppm	-5.25	-5.24	49.3	98.5%	50.3	100.7%	2.2%	50	49.5	99.0%	50	48.7	97.4%
Ca 396.847	0.5-50ppm	-0.15	-0.14	49.8	99.7%	50.3	100.6%	0.9%	50	50.2	100.4%	50	48.8	97.6%
Cu 324.754	10ppb-100ppm	-8.02	-6.70	995	99.5%	1024	102.4%	2.8%	1000	1010	101.0%	1000	1000	100.0%
Cu 327.395	10ppb-100ppm	-3.00	-4.11	990	99.0%	1017	101.7%	2.7%	1000	1006	100.6%	1000	995	99.5%
Fe 238.204	10ppb-100ppm	-0.64	0.19	998	99.8%	1014	101.4%	1.6%	1000	1003	100.3%	1000	992	99.2%
Fe 259.940	10ppb-100ppm	0.30	-0.50	995	99.5%	1013	101.3%	1.8%	1000	1001	100.1%	1000	993	99.3%
K 766.491	0.5-750ppm	0.20	0.13	9.9	98.6%	10.0	100.4%	1.8%	10	10.0	100.5%	10	9.8	98.0%
Mg 202.582	50-1000ppm	-1.81	-1.83	50.2	100.4%	51.3	102.5%	2.2%	50	50.8	101.6%	50	49.7	99.4%
Mg 279.078	0.5-50ppm	0.04	0.02	48.9	97.8%	50.2	100.4%	2.6%	50	49.8	99.7%	50	49.0	97.9%
Mn 257.610	10ppb-11ppm	-4.82	-5.60	995	99.5%	1016	101.6%	2.1%	1000	1001	100.1%	1000	979	97.9%
Mn 260.568	10ppb-11ppm	-5.16	-5.50	993	99.3%	1012	101.2%	1.9%	1000	999	99.9%	1000	978	97.8%
Na 568.821	50-1000ppm	4.56	4.98	48.4	96.9%	48.9	97.8%	0.9%	50	48.0	95.9%	50	47.3	94.5%
Na 589.592	0.5-50ppm	0.25	0.17	49.6	99.1%	50.2	100.4%	1.3%	50	50.0	100.0%	50	48.6	97.3%
Si 251.611	0.5-200ppm	0.09	0.05	50.0	100.0%	50.9	101.8%	1.7%	50	50.6	101.3%	107	105.5	98.6%
Si 252.411	0.5-200ppm	0.08	0.02	49.7	99.3%	50.7	101.4%	2.1%	50	50.5	100.9%	107	105.3	98.4%

Matrix Spikes

Sample ID AB12549

Analyte/	Sample	MS	%Rec	MSD	%Rec	%Diff	CCV (90-110%)			%Diff	CC
WL	Value	Value	70-130%	Value	70-130%		Value	Result	%Rec	10%	Blank
B 249.678	0.06	1.03	96.3%	1.04	97.3%	1.0%	1	0.98	97.6%	3.9%	0.00
B 249.772	0.06	1.04	97.8%	1.04	97.7%	0.1%	1	0.99	98.8%	3.2%	0.00
Ca 317.933	57.4	109.5	104.1%	108.7	102.5%	0.7%	50	48.5	97.0%	2.1%	-5.27
Ca 396.847	*55.3*	*91.0*	*71.3%*	*91.0*	*71.5%*	*0.1%*	50	48.3	96.6%	3.8%	-0.17
Cu 324.754	341	1295	95.5%	1299	95.8%	0.3%	1000	980	98.0%	3.1%	-8.97
Cu 327.395	336	1289	95.4%	1291	95.5%	0.1%	1000	972	97.2%	3.4%	-2.96
Fe 238.204	22	999	97.7%	993	97.1%	0.6%	1000	975	97.5%	2.8%	-0.52
Fe 259.940	19	987	96.8%	987	96.7%	0.1%	1000	977	97.7%	2.5%	-1.73
K 766.491	3.5	13.2	96.5%	13.3	97.6%	0.9%	10	9.66	96.6%	3.9%	0.08

Mg 202.582	15.7	65.9	100.3%	66.0	100.5%	0.2%	50	49.5	99.0%	2.6%	-1.79
Mg 279.078	16.6	64.0	94.8%	63.8	94.4%	0.3%	50	48.3	96.7%	3.1%	0.01
Mn 257.610	-1	973	97.3%	968	96.9%	0.5%	1000	976	97.6%	2.5%	-5.26
Mn 260.568	0	974	97.4%	968	96.9%	0.5%	1000	975	97.5%	2.4%	-4.73
Na 568.821	58.9	103.5	89.2%	103.4	89.1%	0.0%	50	47.5	94.9%	1.1%	6.03
Na 589.592	*57.8*	*104.7*	*93.6%*	*105.9*	*96.0%*	*1.1%*	50	48.3	96.7%	3.4%	0.17
Si 251.611	27.3	75.5	96.4%	75.0	95.4%	0.7%	50	49.3	98.6%	2.7%	-0.04
Si 252.411	27.0	74.9	95.8%	74.3	94.8%	0.7%	50	48.8	97.5%	3.5%	-0.03

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample
ID AB12896 D

Date Analyzed
Monday, March 17, 2014 13:56:41

	Sample	Spiked	MS	MSD	MS-MSD	LFB	LFB	LFB-LFBD	Acceptance Criteria %			
	ug/L	ug/L	%Rec.	% Rec.	% RPD	% Rec	% Rec	% RPD	MS/MSD	RPD	LFB/LFBD	RPD
Lithium	149.9	50	98.6	95.0	3.71	99.39	105.79	6.24	70-130	20	85-115	20
Beryllium	0.1	50	94.0	93.0	1.09	100.99	104.29	3.21	70-130	20	85-115	20
Aluminum	151.1	50	96.8	98.1	1.38	104.19	103.71	0.46	70-130	20	85-115	20
Vanadium	1.0	50	111.9	110.1	1.57	101.78	96.36	5.47	70-130	20	85-115	20
Chromium	12.7	50	105.9	105.5	0.31	101.51	97.60	3.94	70-130	20	85-115	20
Iron 54	12.8	100	99.7	102.4	2.62	100.42	71.80	33.24	70-130	20	85-115	20
Manganese	67.1	50	100.3	101.3	0.98	99.43	95.41	4.13	70-130	20	85-115	20
Cobalt	1.9	50	97.9	98.7	0.79	102.10	96.35	5.79	70-130	20	85-115	20
Nickel	32.0	50	91.6	92.1	0.56	99.33	96.10	3.30	70-130	20	85-115	20
Copper	168.0	50	97.7	101.8	4.14	99.24	107.13	7.64	70-130	20	85-115	20
Zinc	383.0	50	118.1	105.7	11.02	98.68	119.20	18.84	70-130	20	85-115	20
Arsenic	60.4	50	102.0	107.2	4.91	100.54	108.37	7.49	70-130	20	85-115	20
Selenium	244.6	250	101.6	104.6	2.94	101.59	108.93	6.97	70-130	20	85-115	20
Strontium	9965.8	50	55.0	76.8	33.10	99.57	103.45	3.83	70-130	20	85-115	20
Molybdenum	4.9	50	108.7	110.4	1.56	99.16	95.38	3.90	70-130	20	85-115	20
Silver	0.1	50	86.6	90.7	4.63	100.66	101.33	0.67	70-130	20	85-115	20
Cadmium	-1.7	50	97.1	97.1	0.06	99.84	102.54	2.66	70-130	20	85-115	20
Antimony	0.2	50	100.6	102.4	1.74	100.15	96.78	3.42	70-130	20	85-115	20
Barium	90.2	50	91.2	93.7	2.68	100.03	91.30	9.13	70-130	20	85-115	20
Mercury	0.6	2.5	96.0	96.9	0.99	113.92	120.52	5.63	70-130	20	85-115	20
Thallium	0.1	50	94.6	97.6	3.14	102.41	105.48	2.95	70-130	20	85-115	20
Lead	-0.2	50	93.4	95.4	2.16	99.59	104.99	5.27	70-130	20	85-115	20
Uranium	5.9	50	103.7	105.3	1.57	100.26	107.96	7.39	70-130	20	85-115	20

MS = Matrix Spike MSD = Matrix Spike Duplicate; LFB = Laboratory Fortified Blank; LFBD = Laboratory Fortified Blank Duplicate RPD = Relative Percent Difference

MONTEREY BAY ANALYTICAL SERVICES
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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 3/17/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	5.0	5.200	104	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12627	2.400	5.000	7.200	7.300	96	98	1.4	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

300.0 QC Summary

All units expressed in mg/L

		F	Cl	NO2-N	SO4	Br	NO3-N
		2	20	2	20	2	2
IPC		1.98	19.41	2.05	18.45	2.00	1.90
Recovery	90-110%	99.00	97.06	102.67	92.25	99.84	94.99
CCV1		2.00	19.52	2.05	18.49	1.98	1.90
Recovery	90-110%	99.80	97.60	102.37	92.45	99.21	95.21
RPD	10%	0.80	0.55	0.30	0.21	0.64	0.23
		F	**Cl**	**NO2-N**	**SO4**	**Br**	**NO3-N**
		2	20	2	20	2	2
AB12621D		0.13	130.27	0.01	16.75	0.38	0.01
AB12621+LFM		2.01	147.93	1.95	34.94	2.23	1.85
AB12621+LFMD		2.01	148.32	1.93	34.95	2.22	1.84
Average		2.01	148.13	1.94	34.94	2.23	1.85
Recovery	80-120%	94.00	89.32	96.52	90.99	92.41	91.87
RPD	10%	0.11	0.26	0.83	0.02	0.33	0.22

MONTEREY BAY ANALYTICAL SERVICES
PRECISION ● ACCURACY ● DEPENDABILITY
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ELAP Certification Number: 2385

Cal Am Water Company
Travis Peterson
511 Pacific Lodge Road, Suite 100
Pacific Grove, CA 93950

Tuesday, March 18, 2014

Lab Number: **AB12631**

Collection Date/Time:	3/10/2014	10:00	Sample Collector:	SOBOLEU, J	
Submittal Date/Time:	3/10/2014	12:30	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B2WQ Zone#2

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Alkalinity, Total (as CaCO3)	SM2320B	mg/L	**129**		2		3/13/2014	LRH
Aluminum, Total	EPA200.8	ug/L	**74**	J	200	1000	3/17/2014	SM
Ammonia-N, Dissolved	SM4500NH3 D	mg/L	**Not Detected**		0.05		3/11/2014	LRH
Arsenic, Total	EPA200.8	ug/L	**28**		20	10	3/17/2014	SM
Barium, Dissolved	EPA200.8	ug/L	**346**		200		3/17/2014	SM
Bicarbonate (as HCO3-)	SM2320B	mg/L	**157**		10		3/14/2014	DH
Boron, Dissolved	EPA200.7	mg/L	**0.86**		0.5		3/13/2014	DC
Bromide, Dissolved	EPA300.0	mg/L	**23**		10		3/11/2014	DC
Calcium	EPA200.7	mg/L	**1181**		5		3/13/2014	DC
Calcium, Dissolved	EPA200.7	mg/L	**1141**		5		3/13/2014	DC
Carbamates by HPLC (EPA 531)	EPA531	ug/L	**Not Detected**	E			3/13/2014	BSK
Carbonate as CaCO3	SM2320B	mg/L	**Not Detected**		10		3/14/2014	DH
Chloride, Dissolved	EPA300.0	mg/L	**7408**		100		3/11/2014	DC
Chlorinated Pesticides and PCB (EP	EPA508	ug/L	**Not Detected**	E			3/14/2014	WECK
Color, Apparent (Unfiltered)	SM2120B	Color Units	**7**		3	15	3/10/2014	LRH
Copper, Total	EPA200.8	ug/L	**Not Detected**		80	1300	3/17/2014	SM
DBCP & EDB	EPA504.1	ug/L	**Not Detected**	E			3/13/2014	BSK
Dioxin	EPA-5 1613B	pg/L	**Not Detected**	E			3/14/2014	CERES
Diquat (EPA 549)	EPA549	ug/L	**Not Detected**	E			3/14/2014	BSK
Dissolved Anions		Meq/L	**226.8**				3/18/2014	DH
Dissolved Cations		Meq/L	**215.5**				3/18/2014	DH
Endothall	EPA548.1	ug/L	**Not Detected**	E			3/13/2014	BSK
Fluoride, Dissolved	EPA300.0	mg/L	**0.2**		0.1		3/11/2014	DC
Glyphosate	EPA547	ug/L	**Not Detected**	E			3/12/2014	BSK
Hardness (as CaCO3)	SM2340B	mg/L	**5486**		10		3/17/2014	DH
Hydroxide	SM2320B	mg/L	**Not Detected**		5		3/14/2014	DH
Iodide	EPA9056M	ug/L	**Not Detected**	E	10		3/15/2014	WECK
Iron	EPA200.7	ug/L	**238**		100	300	3/13/2014	DC
Iron, Dissolved	EPA200.7	ug/L	**148**		100	300	3/13/2014	DC
Kjehldahl Nitrogen, Dissolved	SM4500-NH3 B,	mg/L	**Not Detected**		0.5		3/17/2014	HM
Lithium	EPA200.8	ug/L	**75**		20		3/17/2014	SM
Magnesium	EPA200.7	mg/L	**616**		5		3/13/2014	DC
Magnesium, Dissolved	EPA200.7	mg/L	**605**		5		3/13/2014	DC
Manganese, Dissolved	EPA200.7	ug/L	**Not Detected**		100	50	3/13/2014	DC
Manganese, Total	EPA200.7	ug/L	**Not Detected**		100	50	3/13/2014	DC
MBAS (Surfactants)	SM5540C	mg/L	**Not Detected**		0.05	0.50	3/10/2014	DC
Nitrate as NO3	EPA300.0	mg/L	**2**		1	45	3/11/2014	DC
Nitrate+Nitrite as N	EPA300.0	mg/L	**0.6**		0.1		3/11/2014	DC

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See Report attachments T = Temperature Exceedance

Appendix G

Lab Number: **AB12631**

Collection Date/Time:	3/10/2014	10:00	Sample Collector:	SOBOLEU, J	
Submittal Date/Time:	3/10/2014	12:30	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B2WQ Zone#2

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Nitrite as NO2-N, Dissolved	EPA300.0	mg/L	**0.2**		0.1		3/11/2014	DC
Odor Threshold at 60 C	SM2150B	TON	**2**		1	3	3/10/2014	AS
o-Phosphate-P, Dissolved	Hach 8190	mg/L	**Not Detected**		0.1		3/14/2014	HC
pH (Field Test)	SM4500-H+B	pH	**6.69**				3/10/2014	JS
pH (Laboratory)	SM4500-H+B	pH (H)	**7.4**				3/10/2014	HM
Phenoxy Acid Herbicides (515.3)	EPA515.3	ug/L	**Not Detected**	E			3/14/2014	BSK
Phosphorus, Dissolved	HACH 8190	mg/L	**Not Detected**		0.03		3/14/2014	HC
Potassium	EPA200.7	mg/L	**75**		5		3/13/2014	DC
Potassium, Dissolved	EPA200.7	mg/L	**73**		5		3/13/2014	DC
QC Ratio TDS/SEC	Calculation		**0.73**				3/14/2014	DH
Reg. Org. Compounds (EPA 525)	EPA525	ug/L	**Not Detected**	E			3/16/2014	BSK
Silica as SiO2, Dissolved	EPA200.7	mg/L	**30**		5		3/13/2014	DC
Sodium	EPA200.7	mg/L	**2539**		5		3/13/2014	DC
Sodium, Dissolved	EPA200.7	mg/L	**2437**		5		3/13/2014	DC
Specific Conductance (E.C)	SM2510B	umhos/cm	**22060**		1	900	3/11/2014	HM
Specific Conductance (E.C) (Field)	SM2510B	umhos/cm	**21681**		1		3/10/2014	JS
Strontium, Dissolved	EPA200.8	ug/L	**8621**		100		3/17/2014	SM
Sulfate	EPA300.0	mg/L	**713**		1	250	3/11/2014	DC
Temperature (Field)	SM2550	° C	**18.3**				3/10/2014	JS
Total Cations		Meq/L	**222.0**				3/18/2014	DH
Total Diss. Solids	SM2540C	mg/L	**16200**		10	500	3/13/2014	HM
Turbidity	EPA180.1	NTU	**0.65**		0.05	5.0	3/10/2014	LRH
Turbidity (Field)	EPA180.1	NTU	**0.49**		0.05		3/10/2014	JS
Volatile Org. Compounds (524)	EPA524	ug/L	**Not Detected**	E			3/12/2014	BSK
Zinc, Total	EPA200.8	ug/L	**217**		200	5000	3/17/2014	SM

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level

H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See Report attachments T = Temperature Exceedance

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12631 Dissolved B2WQ Zone 2**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	2437	0.04350	106.01
Potassium	73	0.02558	1.87
Calcium	1141	0.04990	56.94
Magnesium	616	0.08229	50.69
NH3-N	0	0.07143	0.00
		SUM	215.50

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	129	0.02000	2.58
Sulfate	713	0.02082	14.84
Chloride	7408	0.02821	208.98
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0.6	0.07138	0.04
Phosphate-P	0.0	0.01031	0.00
Fluoride	0.2	0.05264	0.01
Bromide	23.0	0.01252	0.29
		SUM	226.75

ANION-CATION BALANCE: **-3** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	22060	
Cation Sum X 100	21550	**98%**
Anion Sum X 100	22675	**103%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**14.5**
Ca+Mg+Na	213.64
HCO3/Ca	0.05
dS/m	22.06
Value Table II	1.5
SAR adj	**20.8**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12631 Total B2WQ Zone 2**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	2539	0.04350	110.45
Potassium	75	0.02558	1.92
Calcium	1181	0.04990	58.93
Magnesium	616	0.08229	50.69
NH3-N	0	0.07143	0.00
		SUM	221.99

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	129	0.02000	2.58
Sulfate	713	0.02082	14.84
Chloride	7408	0.02821	208.98
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0.6	0.07138	0.04
Phosphate-P	0.0	0.01031	0.00
Fluoride	0.2	0.05264	0.01
Bromide	23.0	0.01252	0.29
		SUM	226.75

ANION-CATION BALANCE: **-1** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	22060	
Cation Sum X 100	22199	**101%**
Anion Sum X 100	22675	**103%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**14.9**
Ca+Mg+Na	220.07
HCO3/Ca	0.04
dS/m	22.06
Value Table II	1.5
SAR adj	**21.6**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A4C0833 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 3/11/2014. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Monterey Bay Analytical	**Invoice To:**	Monterey Bay Analytical
Report To:	David Holland	**Invoice Attn:**	David Holland
Project #:	12631	**Project PO#:**	-
Received:	3/11/2014 - 10:45		
Report Due:	3/18/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 2.2

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.

Report Distribution

Recipient(s)	Report Format
David Holland	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C0833-01
Sampled By: Josh Soboleu
Sample Description: CX-B2WQ Zone # 2 // 12631

Sample Date - Time: 03/10/14 - 10:00
Matrix: Water
Sample Type: Grab

Field Data: Cond.=21681 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A403016	03/12/14	03/13/14	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A403016	03/12/14	03/13/14	
Surrogate: 1-Br-2-Nitrobenzene	EPA 504.1	101 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A403008	03/13/14	03/14/14	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A403008	03/13/14	03/14/14	
2,4-D	EPA 515.3	ND	10	ug/L	1	A403008	03/13/14	03/14/14	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A403008	03/13/14	03/14/14	
Dalapon	EPA 515.3	ND	10	ug/L	1	A403008	03/13/14	03/14/14	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A403008	03/13/14	03/14/14	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A403008	03/13/14	03/14/14	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A403008	03/13/14	03/14/14	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A403008	03/13/14	03/14/14	
Surrogate: DCPAA	EPA 515.3	97 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A402993	03/12/14	03/12/14	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A402993	03/12/14	03/12/14	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A402993	03/12/14	03/12/14	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A402993	03/12/14	03/12/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C0833-01
Sampled By: Josh Soboleu
Sample Description: CX-B2WQ Zone # 2 // 12631

Sample Date - Time: 03/10/14 - 10:00
Matrix: Water
Sample Type: Grab

Field Data: Cond.=21681 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Acetone	EPA 524.2	ND	10	ug/L	1	A402993	03/12/14	03/12/14	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A402993	03/12/14	03/12/14	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	BS1.0, CV0.0
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A402993	03/12/14	03/12/14	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A402993	03/12/14	03/12/14	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C0833-01
Sampled By: Josh Soboleu
Sample Description: CX-B2WQ Zone # 2 // 12631

Sample Date - Time: 03/10/14 - 10:00
Matrix: Water
Sample Type: Grab

Field Data: Cond.=21681 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A402993	03/12/14	03/12/14	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A402993	03/12/14	03/12/14	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	98 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	102 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Prometryn	EPA 525.2	ND	2.0	ug/L	1	A403148	03/14/14	03/16/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	102 %	*Acceptable range: 70-130 %*						
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A403148	03/14/14	03/16/14	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A403148	03/14/14	03/16/14	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A403148	03/14/14	03/16/14	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A403148	03/14/14	03/16/14	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A403148	03/14/14	03/16/14	BS1.0
Bromacil	EPA 525.2	ND	10	ug/L	1	A403148	03/14/14	03/16/14	
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A403148	03/14/14	03/16/14	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A403148	03/14/14	03/16/14	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A403148	03/14/14	03/16/14	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A403148	03/14/14	03/16/14	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A403148	03/14/14	03/16/14	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A403148	03/14/14	03/16/14	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A403148	03/14/14	03/16/14	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A403148	03/14/14	03/16/14	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A403148	03/14/14	03/16/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	102 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A403040	03/12/14	03/13/14	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A403040	03/12/14	03/13/14	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A403040	03/12/14	03/13/14	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A403040	03/12/14	03/13/14	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A403040	03/12/14	03/13/14	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A403040	03/12/14	03/13/14	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A403040	03/12/14	03/13/14	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A403040	03/12/14	03/13/14	
Carbamates by HPLC									
Methiocarb	EPA 531.1	ND	2.0	ug/L	1	A403040	03/12/14	03/13/14	
Propoxur	EPA 531.1	ND	2.0	ug/L	1	A403040	03/12/14	03/13/14	

Certificate of Analysis

Sample ID: A4C0833-01
Sampled By: Josh Soboleu
Sample Description: CX-B2WQ Zone # 2 // 12631

Sample Date - Time: 03/10/14 - 10:00
Matrix: Water
Sample Type: Grab

Field Data: Cond.=21681 umho

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A403000	03/12/14	03/12/14	
Surrogate: AMPA	EPA 547	97 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A403056	03/12/14	03/13/14	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A403100	03/13/14	03/14/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A403016										Prepared: 03/12/2014	
Prep Method: EPA 504.1										Analyst: PYA	
Blank (A403016-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							03/13/14	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							03/13/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.3*			*2.3*		*102*	*70-130*			03/13/14	
Blank Spike (A403016-BS1)											
Dibromochloropropane (DBCP)	0.13	0.010	ug/L	0.12		103	70-130			03/13/14	
Ethylene Dibromide (EDB)	0.11	0.020	ug/L	0.12		85	70-130			03/13/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.3*			*2.3*		*102*	*70-130*			03/13/14	
Blank Spike Dup (A403016-BSD1)											
Dibromochloropropane (DBCP)	0.13	0.010	ug/L	0.12		103	70-130	0	20	03/13/14	
Ethylene Dibromide (EDB)	0.11	0.020	ug/L	0.12		91	70-130	6	20	03/13/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.3*			*2.3*		*99*	*70-130*			03/13/14	
Matrix Spike (A403016-MS1), Source: A4C0705-09											
Dibromochloropropane (DBCP)	0.28	0.010	ug/L	0.13	0.16	99	65-135			03/13/14	
Ethylene Dibromide (EDB)	0.11	0.020	ug/L	0.13	ND	84	65-135			03/13/14	
Surrogate: 1-Br-2-Nitrobenzene	*2.3*			*2.3*		*100*	*70-130*			03/13/14	
EPA 515.3 - Quality Control											
Batch: A403008										Prepared: 03/13/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A403008-BLK1)											
2,4,5-T	ND	1.0	ug/L							03/13/14	
2,4,5-TP (Silvex)	ND	1.0	ug/L							03/13/14	
2,4-D	ND	10	ug/L							03/13/14	
Bentazon	ND	2.0	ug/L							03/13/14	
Dalapon	ND	10	ug/L							03/13/14	
Dicamba	ND	1.5	ug/L							03/13/14	
Dinoseb	ND	2.0	ug/L							03/13/14	
Pentachlorophenol	ND	0.20	ug/L							03/13/14	
Picloram	ND	1.0	ug/L							03/13/14	
Surrogate: DCPAA	*57*			*58*		*99*	*70-130*			03/13/14	
Blank Spike (A403008-BS1)											
2,4,5-T	3.6	1.0	ug/L	4.0		89	70-130			03/13/14	
2,4,5-TP (Silvex)	0.77	1.0	ug/L	0.80		96	70-130			03/13/14	
2,4-D	0.38	10	ug/L	0.40		94	70-130			03/13/14	
Bentazon	7.6	2.0	ug/L	8.0		95	70-130			03/13/14	
Dalapon	4.2	10	ug/L	4.0		104	70-130			03/13/14	
Dicamba	5.8	1.5	ug/L	6.0		97	70-130			03/13/14	
Dinoseb	0.73	2.0	ug/L	0.80		92	70-130			03/13/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16		93	70-130			03/13/14	
Picloram	0.36	1.0	ug/L	0.40		91	70-130			03/13/14	
Surrogate: DCPAA	*58*			*58*		*99*	*70-130*			03/13/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A403008										Prepared: 03/13/2014	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A403008-BSD1)											
2,4,5-T	3.5	1.0	ug/L	4.0		89	70-130	1	20	03/14/14	
2,4,5-TP (Silvex)	0.76	1.0	ug/L	0.80		95	70-130	1	20	03/14/14	
2,4-D	0.38	10	ug/L	0.40		94	70-130	0	20	03/14/14	
Bentazon	7.6	2.0	ug/L	8.0		95	70-130	1	20	03/14/14	
Dalapon	4.8	10	ug/L	4.0		121	70-130	15	20	03/14/14	
Dicamba	5.8	1.5	ug/L	6.0		97	70-130	0	20	03/14/14	
Dinoseb	0.77	2.0	ug/L	0.80		97	70-130	5	20	03/14/14	
Pentachlorophenol	0.15	0.20	ug/L	0.16		95	70-130	2	20	03/14/14	
Picloram	0.36	1.0	ug/L	0.40		90	70-130	1	20	03/14/14	
Surrogate: DCPAA	*57*			*58*		*99*	*70-130*			03/14/14	
Matrix Spike (A403008-MS1), Source: A4C0587-01											
2,4,5-T	5.0	1.0	ug/L	4.0	ND	118	70-130			03/13/14	
2,4,5-TP (Silvex)	0.83	1.0	ug/L	0.80	ND	104	70-130			03/13/14	
2,4-D	0.47	10	ug/L	0.40	ND	119	70-130			03/13/14	
Bentazon	8.4	2.0	ug/L	8.0	ND	105	70-130			03/13/14	
Dalapon	7.8	10	ug/L	4.0	ND	107	70-130			03/13/14	
Dicamba	6.4	1.5	ug/L	6.0	ND	106	70-130			03/13/14	
Dinoseb	0.86	2.0	ug/L	0.80	ND	107	70-130			03/13/14	
Pentachlorophenol	0.16	0.20	ug/L	0.16	ND	97	70-130			03/13/14	
Picloram	0.41	1.0	ug/L	0.40	ND	104	70-130			03/13/14	
Surrogate: DCPAA	*55*			*58*		*94*	*70-130*			03/13/14	
Matrix Spike Dup (A403008-MSD1), Source: A4C0587-01											
2,4,5-T	5.0	1.0	ug/L	4.0	ND	118	70-130	0	20	03/14/14	
2,4,5-TP (Silvex)	0.83	1.0	ug/L	0.80	ND	104	70-130	0	20	03/14/14	
2,4-D	0.47	10	ug/L	0.40	ND	117	70-130	2	20	03/14/14	
Bentazon	8.4	2.0	ug/L	8.0	ND	105	70-130	0	20	03/14/14	
Dalapon	7.9	10	ug/L	4.0	ND	110	70-130	2	20	03/14/14	
Dicamba	6.4	1.5	ug/L	6.0	ND	106	70-130	0	20	03/14/14	
Dinoseb	0.86	2.0	ug/L	0.80	ND	107	70-130	0	20	03/14/14	
Pentachlorophenol	0.16	0.20	ug/L	0.16	ND	97	70-130	0	20	03/14/14	
Picloram	0.42	1.0	ug/L	0.40	ND	105	70-130	2	20	03/14/14	
Surrogate: DCPAA	*55*			*58*		*95*	*70-130*			03/14/14	
EPA 524.2 - Quality Control											
Batch: A402993										Prepared: 03/12/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A402993-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							03/12/14	
1,1,1-Trichloroethane	ND	0.50	ug/L							03/12/14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							03/12/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							03/12/14	
1,1,2-Trichloroethane	ND	0.50	ug/L							03/12/14	
1,1-Dichloroethane	ND	0.50	ug/L							03/12/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual

EPA 524.2 - Quality Control

Batch: A402993 Prepared: 03/12/2014

Prep Method: EPA 524.2 Analyst: JGB

Blank (A402993-BLK1)											
1,1-Dichloroethene	ND	0.50	ug/L							03/12/14	
1,1-Dichloropropene	ND	0.50	ug/L							03/12/14	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							03/12/14	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							03/12/14	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							03/12/14	
1,2-Dichlorobenzene	ND	0.50	ug/L							03/12/14	
1,2-Dichloroethane	ND	0.50	ug/L							03/12/14	
1,2-Dichloropropane	ND	0.50	ug/L							03/12/14	
1,3,5-Trimethylbenzene	ND	0.50	ug/L							03/12/14	
1,3-Dichlorobenzene	ND	0.50	ug/L							03/12/14	
1,3-Dichloropropane	ND	0.50	ug/L							03/12/14	
1,4-Dichlorobenzene	ND	0.50	ug/L							03/12/14	
2,2-Dichloropropane	ND	0.50	ug/L							03/12/14	
2-Butanone	ND	5.0	ug/L							03/12/14	
2-Chlorotoluene	ND	0.50	ug/L							03/12/14	
2-Hexanone	ND	10	ug/L							03/12/14	
4-Chlorotoluene	ND	0.50	ug/L							03/12/14	
4-Methyl-2-pentanone	ND	5.0	ug/L							03/12/14	
Acetone	ND	10	ug/L							03/12/14	
Benzene	ND	0.50	ug/L							03/12/14	
Bromobenzene	ND	0.50	ug/L							03/12/14	
Bromochloromethane	ND	0.50	ug/L							03/12/14	
Bromodichloromethane	ND	0.50	ug/L							03/12/14	
Bromoform	ND	0.50	ug/L							03/12/14	
Bromomethane	ND	0.50	ug/L							03/12/14	
Carbon Tetrachloride	ND	0.50	ug/L							03/12/14	
Chlorobenzene	ND	0.50	ug/L							03/12/14	
Chloroethane	ND	0.50	ug/L							03/12/14	
Chloroform	ND	0.50	ug/L							03/12/14	
Chloromethane	ND	0.50	ug/L							03/12/14	
cis-1,2-Dichloroethene	ND	0.50	ug/L							03/12/14	
cis-1,3-Dichloropropene	ND	0.50	ug/L							03/12/14	
Dibromochloromethane	ND	0.50	ug/L							03/12/14	
Dibromomethane	ND	0.50	ug/L							03/12/14	
Dichlorodifluoromethane	ND	0.50	ug/L							03/12/14	
Dichloromethane	ND	0.50	ug/L							03/12/14	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							03/12/14	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							03/12/14	
Ethylbenzene	ND	0.50	ug/L							03/12/14	
Hexachlorobutadiene	ND	0.50	ug/L							03/12/14	
Isopropylbenzene	ND	0.50	ug/L							03/12/14	
m,p-Xylenes	ND	0.50	ug/L							03/12/14	
Methyl-t-butyl ether	ND	0.50	ug/L							03/12/14	
Naphthalene	ND	0.50	ug/L							03/12/14	
n-Butylbenzene	ND	0.50	ug/L							03/12/14	
n-Propylbenzene	ND	0.50	ug/L							03/12/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A402993										Prepared: 03/12/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A402993-BLK1)											
o-Xylene	ND	0.50	ug/L							03/12/14	
p-Isopropyltoluene	ND	0.50	ug/L							03/12/14	
sec-Butylbenzene	ND	0.50	ug/L							03/12/14	
Styrene	ND	0.50	ug/L							03/12/14	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							03/12/14	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							03/12/14	
tert-Butylbenzene	ND	0.50	ug/L							03/12/14	
Tetrachloroethene (PCE)	ND	0.50	ug/L							03/12/14	
Toluene	ND	0.50	ug/L							03/12/14	
trans-1,2-Dichloroethene	ND	0.50	ug/L							03/12/14	
trans-1,3-Dichloropropene	ND	0.50	ug/L							03/12/14	
Trichloroethene (TCE)	ND	0.50	ug/L							03/12/14	
Trichlorofluoromethane	ND	5.0	ug/L							03/12/14	
Vinyl Chloride	ND	0.50	ug/L							03/12/14	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*97*	*70-130*			03/12/14	
Surrogate: Bromofluorobenzene	*51*			*50*		*101*	*70-130*			03/12/14	
Blank Spike (A402993-BS1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		101	70-130			03/12/14	
1,1,1-Trichloroethane	10	0.50	ug/L	10		102	70-130			03/12/14	
1,1,2,2-Tetrachloroethane	10	0.50	ug/L	10		102	70-130			03/12/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	10	10	ug/L	10		104	70-130			03/12/14	
1,1,2-Trichloroethane	10	0.50	ug/L	10		100	70-130			03/12/14	
1,1-Dichloroethane	10	0.50	ug/L	10		102	70-130			03/12/14	
1,1-Dichloroethene	10	0.50	ug/L	10		103	70-130			03/12/14	
1,1-Dichloropropene	10	0.50	ug/L	10		102	70-130			03/12/14	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		100	70-130			03/12/14	
1,2,4-Trichlorobenzene	9.9	0.50	ug/L	10		99	70-130			03/12/14	
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		101	70-130			03/12/14	
1,2-Dichlorobenzene	10	0.50	ug/L	10		100	70-130			03/12/14	
1,2-Dichloroethane	10	0.50	ug/L	10		101	70-130			03/12/14	
1,2-Dichloropropane	10	0.50	ug/L	10		101	70-130			03/12/14	
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		111	70-130			03/12/14	
1,3-Dichlorobenzene	10	0.50	ug/L	10		101	70-130			03/12/14	
1,3-Dichloropropane	10	0.50	ug/L	10		100	70-130			03/12/14	
1,4-Dichlorobenzene	10	0.50	ug/L	10		101	70-130			03/12/14	
2,2-Dichloropropane	10	0.50	ug/L	10		102	70-130			03/12/14	
2-Butanone	11	5.0	ug/L	10		114	70-130			03/12/14	
2-Chlorotoluene	10	0.50	ug/L	10		101	70-130			03/12/14	
2-Hexanone	10	10	ug/L	10		103	70-130			03/12/14	
4-Chlorotoluene	10	0.50	ug/L	10		102	70-130			03/12/14	
4-Methyl-2-pentanone	10	5.0	ug/L	10		102	70-130			03/12/14	
Acetone	11	10	ug/L	10		109	70-130			03/12/14	
Benzene	10	0.50	ug/L	10		101	70-130			03/12/14	
Bromobenzene	9.9	0.50	ug/L	10		99	70-130			03/12/14	
Bromochloromethane	9.9	0.50	ug/L	10		99	70-130			03/12/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402993 Prepared: 03/12/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A402993-BS1)												
Bromodichloromethane	10	0.50	ug/L	10		102	70-130			03/12/14		
Bromoform	9.6	0.50	ug/L	10		96	70-130			03/12/14		
Bromomethane	8.0	0.50	ug/L	10		80	70-130			03/12/14		
Carbon Tetrachloride	10	0.50	ug/L	10		104	70-130			03/12/14		
Chlorobenzene	10	0.50	ug/L	10		101	70-130			03/12/14		
Chloroethane	10	0.50	ug/L	10		102	70-130			03/12/14		
Chloroform	10	0.50	ug/L	10		102	70-130			03/12/14		
Chloromethane	9.9	0.50	ug/L	10		99	70-130			03/12/14		
cis-1,2-Dichloroethene	10	0.50	ug/L	10		101	70-130			03/12/14		
cis-1,3-Dichloropropene	9.7	0.50	ug/L	10		97	70-130			03/12/14		
Dibromochloromethane	10	0.50	ug/L	10		100	70-130			03/12/14		
Dibromomethane	9.9	0.50	ug/L	10		99	70-130			03/12/14		
Dichlorodifluoromethane	10	0.50	ug/L	10		103	70-130			03/12/14		
Dichloromethane	10	0.50	ug/L	10		102	70-130			03/12/14		
Di-isopropyl ether (DIPE)	10	3.0	ug/L	10		101	70-130			03/12/14		
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		100	70-130			03/12/14		
Ethylbenzene	10	0.50	ug/L	10		101	70-130			03/12/14		
Hexachlorobutadiene	10	0.50	ug/L	10		101	70-130			03/12/14		
Isopropylbenzene	10	0.50	ug/L	10		101	70-130			03/12/14		
m,p-Xylenes	20	0.50	ug/L	20		102	70-130			03/12/14		
Methyl-t-butyl ether	20	0.50	ug/L	20		100	70-130			03/12/14		
Naphthalene	10	0.50	ug/L	10		100	70-130			03/12/14		
n-Butylbenzene	10	0.50	ug/L	10		100	70-130			03/12/14		
n-Propylbenzene	10	0.50	ug/L	10		102	70-130			03/12/14		
o-Xylene	10	0.50	ug/L	10		101	70-130			03/12/14		
p-Isopropyltoluene	10	0.50	ug/L	10		101	70-130			03/12/14		
sec-Butylbenzene	10	0.50	ug/L	10		101	70-130			03/12/14		
Styrene	15	0.50	ug/L	10		147	70-130			03/12/14	BS	***High***
tert-Amyl Methyl Ether (TAME)	10	3.0	ug/L	10		103	70-130			03/12/14		
tert-Butyl alcohol (TBA)	10	2.0	ug/L	10		104	70-130			03/12/14		
tert-Butylbenzene	10	0.50	ug/L	10		101	70-130			03/12/14		
Tetrachloroethene (PCE)	10	0.50	ug/L	10		102	70-130			03/12/14		
Toluene	10	0.50	ug/L	10		101	70-130			03/12/14		
trans-1,2-Dichloroethene	10	0.50	ug/L	10		102	70-130			03/12/14		
trans-1,3-Dichloropropene	9.7	0.50	ug/L	10		97	70-130			03/12/14		
Trichloroethene (TCE)	10	0.50	ug/L	10		101	70-130			03/12/14		
Trichlorofluoromethane	10	5.0	ug/L	10		105	70-130			03/12/14		
Vinyl Chloride	10	0.50	ug/L	10		102	70-130			03/12/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.1*			*5.0*		*103*	*70-130*			03/12/14		
Surrogate: Bromofluorobenzene	*51*			*50*		*102*	*70-130*			03/12/14		
Blank Spike Dup (A402993-BSD1)												
1,1,1,2-Tetrachloroethane	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14		
1,1,1-Trichloroethane	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
1,1,2,2-Tetrachloroethane	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
1,1,2-Trichloro-1,2,2-trifluoroethane	10	10	ug/L	10		100	70-130	3	30	03/12/14		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A402993 Prepared: 03/12/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike Dup (A402993-BSD1)											
1,1,2-Trichloroethane	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
1,1-Dichloroethane	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
1,1-Dichloroethene	9.8	0.50	ug/L	10		98	70-130	5	30	03/12/14	
1,1-Dichloropropene	9.8	0.50	ug/L	10		98	70-130	5	30	03/12/14	
1,2,3-Trichlorobenzene	9.7	0.50	ug/L	10		97	70-130	2	30	03/12/14	
1,2,4-Trichlorobenzene	9.6	0.50	ug/L	10		96	70-130	3	30	03/12/14	
1,2,4-Trimethylbenzene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
1,2-Dichlorobenzene	9.8	0.50	ug/L	10		98	70-130	2	30	03/12/14	
1,2-Dichloroethane	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
1,2-Dichloropropane	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		107	70-130	4	30	03/12/14	
1,3-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130	3	30	03/12/14	
1,3-Dichloropropane	9.8	0.50	ug/L	10		98	70-130	2	30	03/12/14	
1,4-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130	3	30	03/12/14	
2,2-Dichloropropane	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14	
2-Butanone	10	5.0	ug/L	10		101	70-130	12	30	03/12/14	
2-Chlorotoluene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
2-Hexanone	9.4	10	ug/L	10		94	70-130	9	30	03/12/14	
4-Chlorotoluene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
4-Methyl-2-pentanone	9.4	5.0	ug/L	10		94	70-130	9	30	03/12/14	
Acetone	9.5	10	ug/L	10		95	70-130	14	30	03/12/14	
Benzene	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14	
Bromobenzene	9.6	0.50	ug/L	10		96	70-130	3	30	03/12/14	
Bromochloromethane	9.8	0.50	ug/L	10		98	70-130	1	30	03/12/14	
Bromodichloromethane	9.9	0.50	ug/L	10		99	70-130	2	30	03/12/14	
Bromoform	9.4	0.50	ug/L	10		94	70-130	3	30	03/12/14	
Bromomethane	8.7	0.50	ug/L	10		87	70-130	9	30	03/12/14	
Carbon Tetrachloride	10	0.50	ug/L	10		100	70-130	4	30	03/12/14	
Chlorobenzene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
Chloroethane	9.8	0.50	ug/L	10		98	70-130	5	30	03/12/14	
Chloroform	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14	
Chloromethane	9.0	0.50	ug/L	10		90	70-130	9	30	03/12/14	
cis-1,2-Dichloroethene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
cis-1,3-Dichloropropene	9.5	0.50	ug/L	10		95	70-130	2	30	03/12/14	
Dibromochloromethane	9.8	0.50	ug/L	10		98	70-130	2	30	03/12/14	
Dibromomethane	9.8	0.50	ug/L	10		98	70-130	2	30	03/12/14	
Dichlorodifluoromethane	9.8	0.50	ug/L	10		98	70-130	5	30	03/12/14	
Dichloromethane	9.9	0.50	ug/L	10		99	70-130	3	30	03/12/14	
Di-isopropyl ether (DIPE)	9.7	3.0	ug/L	10		97	70-130	3	30	03/12/14	
Ethyl tert-Butyl Ether (ETBE)	9.7	0.50	ug/L	10		97	70-130	3	30	03/12/14	
Ethylbenzene	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14	
Hexachlorobutadiene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
Isopropylbenzene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14	
m,p-Xylenes	20	0.50	ug/L	20		98	70-130	4	30	03/12/14	
Methyl-t-butyl ether	20	0.50	ug/L	20		98	70-130	2	30	03/12/14	
Naphthalene	9.6	0.50	ug/L	10		96	70-130	4	30	03/12/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 524.2 - Quality Control												
Batch: A402993										Prepared: 03/12/2014		
Prep Method: EPA 524.2										Analyst: JGB		
Blank Spike Dup (A402993-BSD1)												
n-Butylbenzene	9.6	0.50	ug/L	10		96	70-130	4	30	03/12/14		
n-Propylbenzene	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
o-Xylene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14		
p-Isopropyltoluene	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14		
sec-Butylbenzene	9.8	0.50	ug/L	10		98	70-130	3	30	03/12/14		
Styrene	14	0.50	ug/L	10		144	70-130	2	30	03/12/14	BS	***High***
tert-Amyl Methyl Ether (TAME)	10	3.0	ug/L	10		100	70-130	3	30	03/12/14		
tert-Butyl alcohol (TBA)	9.2	2.0	ug/L	10		92	70-130	13	30	03/12/14		
tert-Butylbenzene	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14		
Tetrachloroethene (PCE)	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
Toluene	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14		
trans-1,2-Dichloroethene	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
trans-1,3-Dichloropropene	9.5	0.50	ug/L	10		95	70-130	2	30	03/12/14		
Trichloroethene (TCE)	9.7	0.50	ug/L	10		97	70-130	4	30	03/12/14		
Trichlorofluoromethane	10	5.0	ug/L	10		101	70-130	4	30	03/12/14		
Vinyl Chloride	9.8	0.50	ug/L	10		98	70-130	4	30	03/12/14		
Surrogate: 1,2-Dichlorobenzene-d4	*5.1*			*5.0*		*103*	*70-130*			03/12/14		
Surrogate: Bromofluorobenzene	*51*			*50*		*102*	*70-130*			03/12/14		
EPA 525.2 - Quality Control												
Batch: A403148										Prepared: 03/14/2014		
Prep Method: EPA 525.2										Analyst: GAK		
Blank (A403148-BLK1)												
Alachlor	ND	1.0	ug/L							03/16/14		
Atrazine	ND	0.50	ug/L							03/16/14		
Benzo(a)pyrene	ND	0.10	ug/L							03/16/14		
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							03/16/14		
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							03/16/14		
Bromacil	ND	10	ug/L							03/16/14		
Butachlor	ND	0.38	ug/L							03/16/14		
Diazinon	ND	0.25	ug/L							03/16/14		
Dimethoate	ND	10	ug/L							03/16/14		
Metolachlor	ND	0.50	ug/L							03/16/14		
Metribuzin	ND	0.50	ug/L							03/16/14		
Molinate	ND	2.0	ug/L							03/16/14		
Prometryn	ND	2.0	ug/L							03/16/14		
Propachlor	ND	0.50	ug/L							03/16/14		
Simazine	ND	1.0	ug/L							03/16/14		
Thiobencarb	ND	1.0	ug/L							03/16/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.8*			*5.0*		*117*	*70-130*			03/16/14		
Blank Spike (A403148-BS1)												
Alachlor	0.51	1.0	ug/L	0.51		100	70-130			03/16/14		
Atrazine	0.53	0.50	ug/L	0.51		103	70-130			03/16/14		
Benzo(a)pyrene	0.093	0.10	ug/L	0.10		90	70-130			03/16/14		

Organics Quality Control Report

EPA 525.2 - Quality Control

Batch: A403148 Prepared: 03/14/2014

Prep Method: EPA 525.2 Analyst: GAK

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A403148-BS1)												
Bis(2-ethylhexyl) adipate	3.3	3.0	ug/L	3.1		106	70-130			03/16/14		
Bis(2-ethylhexyl) phthalate	4.2	3.0	ug/L	3.1		138	70-130			03/16/14	BS	***High***
Bromacil	2.6	10	ug/L	2.1		126	70-130			03/16/14		
Butachlor	1.4	0.38	ug/L	1.3		106	70-130			03/16/14		
Diazinon	0.047	0.25	ug/L	0.051		92	70-130			03/16/14		
Dimethoate	0.57	10	ug/L	0.51		111	70-130			03/16/14		
Metolachlor	2.8	0.50	ug/L	2.6		107	70-130			03/16/14		
Metribuzin	2.9	0.50	ug/L	2.6		114	70-130			03/16/14		
Molinate	2.9	2.0	ug/L	2.6		112	70-130			03/16/14		
Prometryn	0.63	0.50	ug/L	0.51		123	70-130			03/16/14		
Propachlor	3.0	0.50	ug/L	2.6		116	70-130			03/16/14		
Simazine	0.39	1.0	ug/L	0.36		109	70-130			03/16/14		
Thiobencarb	0.59	1.0	ug/L	0.51		114	70-130			03/16/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.5*			*5.1*		*107*	*70-130*			03/16/14		
Blank Spike Dup (A403148-BSD1)												
Alachlor	0.54	1.0	ug/L	0.54		100	70-130	5	30	03/16/14		
Atrazine	0.58	0.50	ug/L	0.54		108	70-130	9	30	03/16/14		
Benzo(a)pyrene	0.11	0.10	ug/L	0.11		100	70-130	15	30	03/16/14		
Bis(2-ethylhexyl) adipate	3.5	3.0	ug/L	3.2		109	70-130	7	30	03/16/14		
Bis(2-ethylhexyl) phthalate	4.8	3.0	ug/L	3.2		148	70-130	12	30	03/16/14	BS	***High***
Bromacil	2.7	10	ug/L	2.1		124	70-130	3	30	03/16/14		
Butachlor	1.4	0.38	ug/L	1.3		108	70-130	6	30	03/16/14		
Diazinon	0.057	0.25	ug/L	0.054		106	70-130	18	30	03/16/14		
Dimethoate	0.56	10	ug/L	0.54		104	70-130	3	30	03/16/14		
Metolachlor	2.8	0.50	ug/L	2.7		104	70-130	1	30	03/16/14		
Metribuzin	3.1	0.50	ug/L	2.7		114	70-130	4	30	03/16/14		
Molinate	3.2	2.0	ug/L	2.7		118	70-130	9	30	03/16/14		
Prometryn	0.65	0.50	ug/L	0.54		121	70-130	3	30	03/16/14		
Propachlor	3.2	0.50	ug/L	2.7		119	70-130	7	30	03/16/14		
Simazine	0.41	1.0	ug/L	0.38		110	70-130	5	30	03/16/14		
Thiobencarb	0.63	1.0	ug/L	0.54		117	70-130	7	30	03/16/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.7*			*5.4*		*107*	*70-130*			03/16/14		
Matrix Spike (A403148-MS1), Source: A4C0755-02												
Alachlor	0.52	1.0	ug/L	0.52	ND	99	70-130			03/16/14		
Atrazine	0.52	0.50	ug/L	0.52	ND	99	70-130			03/16/14		
Benzo(a)pyrene	0.13	0.10	ug/L	0.10	ND	95	70-130			03/16/14		
Bis(2-ethylhexyl) adipate	3.4	3.0	ug/L	3.1	ND	109	70-130			03/16/14		
Bis(2-ethylhexyl) phthalate	4.1	3.0	ug/L	3.1	ND	110	70-130			03/16/14		
Bromacil	2.5	10	ug/L	2.1	ND	122	70-130			03/16/14		
Butachlor	1.4	0.38	ug/L	1.3	ND	105	70-130			03/16/14		
Diazinon	0.055	0.25	ug/L	0.052	ND	106	70-130			03/16/14		
Dimethoate	0.59	10	ug/L	0.52	ND	113	70-130			03/16/14		
Metolachlor	2.7	0.50	ug/L	2.6	ND	103	70-130			03/16/14		
Metribuzin	2.7	0.50	ug/L	2.6	ND	103	70-130			03/16/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A403148										Prepared: 03/14/2014	
Prep Method: EPA 525.2										Analyst: GAK	
Matrix Spike (A403148-MS1), Source: A4C0755-02											
Molinate	2.9	2.0	ug/L	2.6	ND	110	70-130			03/16/14	
Prometryn	0.53	0.50	ug/L	0.52	ND	101	70-130			03/16/14	
Propachlor	2.9	0.50	ug/L	2.6	ND	111	70-130			03/16/14	
Simazine	0.34	1.0	ug/L	0.36	ND	93	70-130			03/16/14	
Thiobencarb	0.55	1.0	ug/L	0.52	ND	105	70-130			03/16/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.6*			*5.2*		*108*	*70-130*			03/16/14	
EPA 531.1 - Quality Control											
Batch: A403040										Prepared: 03/12/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A403040-BLK1)											
3-Hydroxycarbofuran	ND	3.0	ug/L							03/12/14	
Aldicarb	ND	3.0	ug/L							03/12/14	
Aldicarb Sulfone	ND	2.0	ug/L							03/12/14	
Aldicarb Sulfoxide	ND	3.0	ug/L							03/12/14	
Carbaryl	ND	5.0	ug/L							03/12/14	
Carbofuran	ND	5.0	ug/L							03/12/14	
Methiocarb	ND	2.0	ug/L							03/12/14	
Methomyl	ND	2.0	ug/L							03/12/14	
Oxamyl	ND	20	ug/L							03/12/14	
Propoxur	ND	2.0	ug/L							03/12/14	
Blank Spike (A403040-BS1)											
3-Hydroxycarbofuran	4.2	3.0	ug/L	4.0		106	80-120			03/12/14	
Aldicarb	4.1	3.0	ug/L	4.0		103	80-120			03/12/14	
Aldicarb Sulfone	4.3	2.0	ug/L	4.0		107	80-120			03/12/14	
Aldicarb Sulfoxide	4.3	3.0	ug/L	4.0		106	80-120			03/12/14	
Carbaryl	4.2	5.0	ug/L	4.0		104	80-120			03/12/14	
Carbofuran	4.2	5.0	ug/L	4.0		105	80-120			03/12/14	
Methiocarb	4.5	2.0	ug/L	4.0		112	80-120			03/12/14	
Methomyl	4.4	2.0	ug/L	4.0		109	80-120			03/12/14	
Oxamyl	4.2	20	ug/L	4.0		106	80-120			03/12/14	
Propoxur	4.3	2.0	ug/L	4.0		107	80-120			03/12/14	
Blank Spike Dup (A403040-BSD1)											
3-Hydroxycarbofuran	4.3	3.0	ug/L	4.0		108	80-120	2	20	03/12/14	
Aldicarb	4.1	3.0	ug/L	4.0		103	80-120	0	20	03/12/14	
Aldicarb Sulfone	4.3	2.0	ug/L	4.0		107	80-120	1	20	03/12/14	
Aldicarb Sulfoxide	4.3	3.0	ug/L	4.0		107	80-120	0	20	03/12/14	
Carbaryl	4.2	5.0	ug/L	4.0		106	80-120	1	20	03/12/14	
Carbofuran	4.2	5.0	ug/L	4.0		105	80-120	0	20	03/12/14	
Methiocarb	4.2	2.0	ug/L	4.0		104	80-120	7	20	03/12/14	
Methomyl	4.3	2.0	ug/L	4.0		107	80-120	2	20	03/12/14	
Oxamyl	4.2	20	ug/L	4.0		106	80-120	0	20	03/12/14	
Propoxur	4.1	2.0	ug/L	4.0		102	80-120	6	20	03/12/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A403040										Prepared: 03/12/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Matrix Spike (A403040-MS1), Source: A4C0825-01											
3-Hydroxycarbofuran	4.1	3.0	ug/L	4.0	ND	103	65-135			03/13/14	
Aldicarb	3.9	3.0	ug/L	4.0	ND	99	65-135			03/13/14	
Aldicarb Sulfone	4.1	2.0	ug/L	4.0	ND	102	65-135			03/13/14	
Aldicarb Sulfoxide	4.1	3.0	ug/L	4.0	ND	103	65-135			03/13/14	
Carbaryl	4.1	5.0	ug/L	4.0	ND	103	65-135			03/13/14	
Carbofuran	4.1	5.0	ug/L	4.0	ND	101	65-135			03/13/14	
Methiocarb	4.1	2.0	ug/L	4.0	ND	96	65-135			03/13/14	
Methomyl	4.2	2.0	ug/L	4.0	ND	105	65-135			03/13/14	
Oxamyl	4.1	20	ug/L	4.0	ND	102	65-135			03/13/14	
Propoxur	4.0	2.0	ug/L	4.0	ND	101	65-135			03/13/14	
EPA 547 - Quality Control											
Batch: A403000										Prepared: 03/12/2014	
Prep Method: EPA 547										Analyst: RJB	
Blank (A403000-BLK1)											
Glyphosate	ND	25	ug/L							03/12/14	
Surrogate: AMPA	*110*			*100*		*113*	*70-130*			03/12/14	
Blank Spike (A403000-BS1)											
Glyphosate	100	25	ug/L	100		105	70-130			03/12/14	
Surrogate: AMPA	*110*			*100*		*107*	*70-130*			03/12/14	
Blank Spike Dup (A403000-BSD1)											
Glyphosate	120	25	ug/L	100		118	70-130	12	30	03/12/14	
Surrogate: AMPA	*120*			*100*		*119*	*70-130*			03/12/14	
Matrix Spike (A403000-MS1), Source: A4C0880-01											
Glyphosate	120	25	ug/L	100	ND	115	70-130			03/12/14	
Surrogate: AMPA	*130*			*100*		*125*	*70-130*			03/12/14	
Matrix Spike Dup (A403000-MSD1), Source: A4C0880-01											
Glyphosate	110	25	ug/L	100	ND	109	70-130	5	30	03/12/14	
Surrogate: AMPA	*120*			*100*		*117*	*70-130*			03/12/14	
EPA 548.1 - Quality Control											
Batch: A403056										Prepared: 03/12/2014	
Prep Method: EPA 548.1										Analyst: GAK	
Blank (A403056-BLK1)											
Endothall	ND	45	ug/L							03/13/14	
Blank Spike (A403056-BS1)											
Endothall	17	45	ug/L	20		85	60-111			03/13/14	
Blank Spike Dup (A403056-BSD1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 548.1 - Quality Control											
Batch: A403056										Prepared: 03/12/2014	
Prep Method: EPA 548.1										Analyst: GAK	
Blank Spike Dup (A403056-BSD1)											
Endothall	14	45	ug/L	20		71	60-111	18	46	03/13/14	
Matrix Spike (A403056-MS1), Source: A4C0610-01											
Endothall	ND	45	ug/L	20	ND	0	10-122			03/13/14	MS1.0 ***Low***
EPA 549.2 - Quality Control											
Batch: A403100										Prepared: 03/13/2014	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A403100-BLK1)											
Diquat	ND	4.0	ug/L							03/14/14	
Blank Spike (A403100-BS1)											
Diquat	3.3	4.0	ug/L	4.0		83	70-130			03/14/14	
Blank Spike Dup (A403100-BSD1)											
Diquat	3.2	4.0	ug/L	4.0		79	70-130	5	30	03/14/14	
Matrix Spike (A403100-MS1), Source: A4C0537-01											
Diquat	3.0	4.0	ug/L	4.0	ND	75	70-130			03/14/14	
Matrix Spike (A403100-MS2), Source: A4C0537-02											
Diquat	3.4	4.0	ug/L	4.0	ND	85	70-130			03/14/14	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of Oregon - NELAP	4021	State of Washington	C997
State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA

BSK is not accredited under the NELAC program for the following parameters:

A4C0833

Monterey Bay Analytical

Monte6227

03112014

Turnaround: Standard

Due Date: 3/18/2014

Printed: 3/11/2014 5:51:12PM

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street, Fresno, CA 93706-1623
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

A4C0833
Monte6227
03/11/2014
5

2.2

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #: (831)-357-6227 FAX * #: (831)-641-0734
Monterey Bay Analytical	David Holland	E-mail: 4MBAS@Sbcglobal.net

Address *	City *	State *	Zip *
4 Justin Ct.	Monterey	CA	93940

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: Cal Am

PO # / Quote # 464

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance
Electronic Data Transfer: Y ☐ N ☑
System No. *

Sampler Name Printed / Signature: Josh Soboleu

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☑ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water, CFW = Clorinated Finished Water, CWW = Chorinated Waste Water, BW = Bottled Water, RGW = Raw Ground Water, FW = Finished Water, WW = Waste Water, SW = Storm Water, DW = Drinking Water, SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 504	EPA 515	EPA 524 inc MTBE	EPA 525	EPA 531	EPA 547	EPA 548	EPA 549
1		3/10/14	10:00	CX-B2WQ Zone #2	RGW	12631	✓	✓	✓	✓	✓	✓	✓	✓
				5 day TAT please										
				Conductivity ~~35194 uS/cm~~ 21,681 uS										

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
David Holland	MBAS	3/10/14	1200		
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Received for Lab by: (Signature and Printed Name)		Date 3/10/14	Time 1040	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/re-billing charges and interest calculated at 1 1/2 % per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorneys' fees incurred prior to or in litigation whether concluded by judgement, settlement, compromise or otherwise. The person signing for the client/Company expressley acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis requested, either type or quantities, will be noted and agreed upon this Chain of Custody. The turn around time for any samples received after 3:00 pm will begin the next business day.

SR-FL-0012-00 (4/08/2014)

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received — "—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—						
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—						
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321 8151, 8270	—	—						
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1U					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2U,2A					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	4V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1U					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

HD 3/11/14

Split		Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
	S P				S P			
	S P				S P			

Comments

Labeled by: SRD @ 1709 Labels checked by: HD @ 17:23 RUSH Paged by:

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

March 15, 2014 Ceres ID: 10287

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on March 11, 2014. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613. **Rush** 5 day turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # 12631.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (888)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
10287-001	CX-B2WQ Zone #2	3/11/2014	3/10/2014	10:00

Section II: Data Summary

Sample ID:	**Method Blank**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-MB001 — Date Received: NA
Project:	12631	Sample Size: 1.000 L	QC Batch #: 1165 — Date Extracted: 13-Mar-14
Date Collected:	NA		ZB-5 MS Analysis Date: 14-Mar-14
Time Collected:	NA		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	3.25		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	104	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	104	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Sample ID:	**Ongoing Precision and Recovery**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-OPR001 — Date Received: NA
Project:	12631	Sample Size: 1.000 L	QC Batch #: 1165 — Date Extracted: 13-Mar-14
Date Collected:	NA		ZB-5 MS Analysis Date: 14-Mar-14
Time Collected:	NA		

Analyte	Conc. (ng/ml)	Limits [a]	Qualifiers
2,3,7,8-TCDD	9.24	7.3-14.6	

	Labeled Standards	Conc.	Limits [a]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	104	25-141	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	9.88	3.7-15.8	

a. Method acceptance criteria .

Analyst: JMH Reviewed by: BS

Sample ID:	CX-B2WQ Zone #2		
Client Data		**Sample Data**	
Name:	Monterey Bay Analytical	Matrix:	Aqueous
Project:	12631	Sample Size:	1.042 L
Date Collected:	10-Mar-14		
Time Collected:	10:00		

Laboratory Data

Lab Sample ID:	10287-001	Date Received:	11-Mar-14
QC Batch #:	1165	Date Extracted:	13-Mar-14
ZB-5 MS Analysis Date:	14-Mar-14		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	1.59		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	102	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	93.9	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Section VI: Sample Tracking

Ceres Analytical Laboratory, Inc.

Chain of Custody

10287

Ceres Use Only

Pg. ~~Appendix G~~ of

4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Tel: (916)932-5011

Please Print in Pen

Ceres Project ID:_____
Temperature: _____ °C

Reports and invoices will be delivered by email in .pdf format

Client Information	Invoice Information (if different from Client Info)	Project Information
Company Name: Monterey Bay Analytical	Company Name: Same	Ceres Quote #:
Contact Name: David Holland	Contact Name:	P.O. #
Address: 4 Justin Court Ste D Monterey CA 93940	Address:	Project ID:
Ph: 831-375-6227	Ph: Fx:	**TAT** (business days)
Email: montereybayanalytical@usa.net	Email:	Std 15 days; Rush TAT available please call

Matrix abreviations:

A: Aqueous	S: Soil	AS: Ash	DW: Drinking Water
E: Effluent	SD: Sediment	C: Clay	SO: Solid
I: Influent	SL: Sludge	CS: Clay Slurry	O: Other (please comment)

TEF: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Sample Collection Date	Time	Matrix	# of containers	EPA 1613	EPA 8290	NCASI 551	EPA 8280	EPA 613	Other	Comments
1	CX-B2WQ Zone #2	3/10/2014	10:00	Aq	2	X						12631
2												(2,3,7,8 TCDD only)
3												5 day Rush Please
4												Conductivity 21,681 uS
5												
6												
7												
8												
9												
10												
11												
12												

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

Relinquished by: *(Signature and Printed Name)*	Date	Time	Received by: *(signature and Printed Name)*	Date	Time
David Holland	3/10/2014	12:00	Debbie Hedin	3/11/14	10:15

Client understands that all terms desribed in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.

Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

Ceres ID: 10287	Date/Time: 3/11/14 10:15am
Client Project ID: 12631	Received Temperature: 0.2 Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present?	Y / N / NA
List COC discrepancies:	
List Damaged Samples:	

JCN 3/11/14

JCN 3/11/14

Ceres Analytical Laboratory

Process Request

Ceres ID: 10287 PB: 1165 Sample #s: 1 Due Date: 2/16/14

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash

Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (check one):

- ☐ 1613 2,3,7,8-TCDD
- ☐ 1613 2,3,7,8-TCDD/F
- ☐ 1613 Cl_4-Cl_8
- ☐ 8280 2,3,7,8-TCDD
- ☐ 8280 2,3,7,8-TCDD/F
- ☐ 8280 Appendix IX
- ☐ 8280 Cl_4-Cl_8
- ☐ 8290 2,3,7,8-TCDD
- ☐ 8290 2,3,7,8-TCDD/F
- ☐ 8290 Cl_4-Cl_8
- ☐ NCASI 551

Instructions:

Sample Volume Calculation

Instructions:
1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$Sample\ Volume = (Sample + Bottle\ Wt) - Empty\ Bottle\ Wt.$$

Ceres ID	Sample +Bottle Wt.	Empty Bottle Wt.	Sample Volume
10287-1	1555.34	513.00	1.042 L

Chemist: [signature] Date: 3/13/14

Method: 1653
SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Appendix G

Ceres ID	Client ID	Ver.	wt/vol	ISS/PAR chem/date/witness	CSS chem/date/witness	AP	AB/AC	FC	RSS chem/date/witness
0-1165-MB001	Method Blank		1.000L	3/13/14	3/14/14	NA	3/14/14	NA	3/14/14
0-1165-OPR001	OPR		1.000L	(A)					
10287-1165-001	CX-B2WQ Zone #2	✓	1.042L						

Comments: (A) Spiked w/ ASS

Soxhlet Start: 15:00 3/13/14

Soxhlet Stop: 07:15 3/14/14

Samples Logged out by: 11:00 3/13/14

Samples Returned by: NA

Note samples Depleted: 1A

Sample Extracts Storage Location: Box 8

Extracts to Intrument: 10:30 3/14/14

Extracts returned to Storage Location: 09:00 3/15/14

Form M1.0 rev4

Chemist: G473

Effective Date: 7/12/13

Method: 1613
SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Standard	Standard ID	Vol.	Expiration Date
ISS	S031212A	10 l	3/12/17
NSS	S031212B	10 l	3/12/17
CSS	S031212C	10 l	3/12/17
RSS	S031212D	20 l	3/12/17

Solvents/Solutions/Packing Materials

Name	Amount	Lot #	Exp. Date
Toluene	450ml	PB005770TOL	8/17/14
Hexane	30,30,100,200	53263	8/11/14
Sigel	4g	P020514A	8/5/14
Basicgel	4g	P012014A	7/20/14
Acid gel	8g	P031114A	9/11/14
Acid Al	6g	P031114B	9/11/14
Na_2SO_4	1.5g	P120413A	6/4/14
20% DCM Hex	30ml	L031214A	9/12/14

Form M1.0 rev4

Chemist : C-474

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

CERTIFICATE OF ANALYSIS

Client:	Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940	**Report Date:**	03/17/14 13:56
		Received Date:	03/11/14 09:20
		Turn Around:	5 workdays
Attention:	David Holland	**Client Project:**	Cal Am
Phone:	(831) 375-6227		
Fax:	(831) 641-0734		
Work Order(s):	4C11006		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

Enclosed are the results of analyses for samples received 03/11/14 09:20 with the Chain of Custody document. The samples were received in good condition, at 4.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CX-B2WQ Zone #2	Josh Soboleu	12631	4C11006-01	Water	03/10/14 10:00

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Chlorinated Pesticides and/or PCBs

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:56

4C11006-01 CX-B2WQ Zone #2

Sampled: 03/10/14 10:00 **Sampled By:** Josh Soboleu **Matrix:** Water

Sample Note: 12631

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 9056A Batch: W4C0833 Prepared: 03/15/14 10:30 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Iodide	ND	120	ug/l	12.5	03/15/14 15:05	M-02

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4C0665 Prepared: 03/12/14 14:41 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND		0.010	ug/l	1	03/14/14 02:15	
4,4´-DDE	ND		0.010	ug/l	1	03/14/14 02:15	
4,4´-DDT	ND		0.010	ug/l	1	03/14/14 02:15	
Aldrin	ND		0.010	ug/l	1	03/14/14 02:15	
alpha-BHC	ND		0.010	ug/l	1	03/14/14 02:15	
Aroclor 1016	ND		0.10	ug/l	1	03/14/14 02:15	
Aroclor 1221	ND		0.10	ug/l	1	03/14/14 02:15	
Aroclor 1232	ND		0.10	ug/l	1	03/14/14 02:15	
Aroclor 1242	ND		0.10	ug/l	1	03/14/14 02:15	
Aroclor 1248	ND		0.10	ug/l	1	03/14/14 02:15	
Aroclor 1254	ND		0.10	ug/l	1	03/14/14 02:15	
Aroclor 1260	ND		0.10	ug/l	1	03/14/14 02:15	
beta-BHC	ND		0.010	ug/l	1	03/14/14 02:15	
Chlordane (tech)	ND		0.10	ug/l	1	03/14/14 02:15	
Chlorothalonil	ND		0.050	ug/l	1	03/14/14 02:15	
delta-BHC	ND		0.010	ug/l	1	03/14/14 02:15	
Dieldrin	ND		0.010	ug/l	1	03/14/14 02:15	
Endosulfan I	ND		0.010	ug/l	1	03/14/14 02:15	
Endosulfan II	ND		0.010	ug/l	1	03/14/14 02:15	
Endosulfan sulfate	ND		0.010	ug/l	1	03/14/14 02:15	
Endrin	ND		0.010	ug/l	1	03/14/14 02:15	
Endrin aldehyde	ND		0.010	ug/l	1	03/14/14 02:15	
gamma-BHC (Lindane)	ND		0.010	ug/l	1	03/14/14 02:15	
Heptachlor	ND		0.010	ug/l	1	03/14/14 02:15	
Heptachlor epoxide	ND		0.010	ug/l	1	03/14/14 02:15	
Hexachlorobenzene	ND		0.010	ug/l	1	03/14/14 02:15	
Hexachlorocyclopentadiene	ND		0.050	ug/l	1	03/14/14 02:15	
Methoxychlor	ND		0.010	ug/l	1	03/14/14 02:15	
PCBs, Total	ND		0.50	ug/l	1	03/14/14 02:15	
Propachlor	ND		0.050	ug/l	1	03/14/14 02:15	
Toxaphene	ND		1.0	ug/l	1	03/14/14 02:15	
Trifluralin	ND		0.010	ug/l	1	03/14/14 02:15	
Surr: Decachlorobiphenyl	*32 %*	Conc:*0.0308*	*70-130*	%			*S-GC*
Surr: Tetrachloro-meta-xylene	*116 %*	Conc:*0.111*	*70-130*	%			

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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:56

4C11006-01 **CX-B2WQ Zone #2**

Sampled: 03/10/14 10:00 **Sampled By:** Josh Soboleu **Matrix:** Water

Sample Note: 12631

Chlorinated Pesticides and/or PCBs

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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:56

QUALITY CONTROL SECTION

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:56

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4C0833 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0833-BLK1)				Analyzed: 03/15/14 15:05						
Iodide	ND	10	ug/l							
LCS (W4C0833-BS1)				Analyzed: 03/15/14 15:05						
Iodide	40.2	10	ug/l	40.0		101	85-115			
Matrix Spike (W4C0833-MS1)	**Source: 4C11006-01**			Analyzed: 03/15/14 15:05						
Iodide	1090	250	ug/l	1000	ND	109	80-120			
Matrix Spike Dup (W4C0833-MSD1)	**Source: 4C11006-01**			Analyzed: 03/15/14 15:05						
Iodide	931	250	ug/l	1000	ND	93	80-120	15	20	

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0665 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0665-BLK1)				Analyzed: 03/14/14 00:12						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:56

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0665 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0665-BLK1)				Analyzed: 03/14/14 00:12						
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							
Surr: Decachlorobiphenyl	*0.108*		*ug/l*	*0.100*		*108*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.106*		*ug/l*	*0.100*		*106*	*70-130*			
LCS (W4C0665-BS1)				Analyzed: 03/14/14 00:43						
4,4´-DDD	0.0745	0.010	ug/l	0.100		75	55-142			
4,4´-DDE	0.0830	0.010	ug/l	0.100		83	49-129			
4,4´-DDT	0.0919	0.010	ug/l	0.100		92	54-160			
Aldrin	0.0782	0.010	ug/l	0.100		78	29-115			
alpha-BHC	0.0801	0.010	ug/l	0.100		80	59-131			
beta-BHC	0.0723	0.010	ug/l	0.100		72	63-136			
delta-BHC	0.0874	0.010	ug/l	0.100		87	59-137			
Dieldrin	0.0773	0.010	ug/l	0.100		77	59-135			
Endosulfan I	0.0659	0.010	ug/l	0.100		66	28-138			
Endosulfan II	0.0673	0.010	ug/l	0.100		67	53-133			
Endosulfan sulfate	0.0716	0.010	ug/l	0.100		72	58-155			
Endrin	0.0725	0.010	ug/l	0.100		72	57-148			
Endrin aldehyde	0.0706	0.010	ug/l	0.100		71	45-139			
gamma-BHC (Lindane)	0.0595	0.010	ug/l	0.100		60	59-129			
Heptachlor	0.0879	0.010	ug/l	0.100		88	42-136			
Heptachlor epoxide	0.0757	0.010	ug/l	0.100		76	59-134			
Methoxychlor	0.0727	0.010	ug/l	0.100		73	56-167			
Surr: Decachlorobiphenyl	*0.0947*		*ug/l*	*0.100*		*95*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0986*		*ug/l*	*0.100*		*99*	*70-130*			
LCS Dup (W4C0665-BSD1)				Analyzed: 03/14/14 01:13						
4,4´-DDD	0.0865	0.010	ug/l	0.100		87	55-142	15	25	
4,4´-DDE	0.0904	0.010	ug/l	0.100		90	49-129	9	25	
4,4´-DDT	0.102	0.010	ug/l	0.100		102	54-160	10	25	
Aldrin	0.0841	0.010	ug/l	0.100		84	29-115	7	25	
alpha-BHC	0.0886	0.010	ug/l	0.100		89	59-131	10	25	
beta-BHC	0.0835	0.010	ug/l	0.100		84	63-136	14	25	
delta-BHC	0.0960	0.010	ug/l	0.100		96	59-137	9	25	
Dieldrin	0.0883	0.010	ug/l	0.100		88	59-135	13	25	
Endosulfan I	0.0704	0.010	ug/l	0.100		70	28-138	7	25	
Endosulfan II	0.0754	0.010	ug/l	0.100		75	53-133	11	25	
Endosulfan sulfate	0.0870	0.010	ug/l	0.100		87	58-155	19	25	
Endrin	0.0802	0.010	ug/l	0.100		80	57-148	10	25	
Endrin aldehyde	0.0736	0.010	ug/l	0.100		74	45-139	4	25	
gamma-BHC (Lindane)	0.0873	0.010	ug/l	0.100		87	59-129	38	25	Q-12
Heptachlor	0.0945	0.010	ug/l	0.100		95	42-136	7	25	
Heptachlor epoxide	0.0844	0.010	ug/l	0.100		84	59-134	11	25	
Methoxychlor	0.0923	0.010	ug/l	0.100		92	56-167	24	25	
Surr: Decachlorobiphenyl	*0.105*		*ug/l*	*0.100*		*105*	*70-130*			

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:56

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0665 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W4C0665-BSD1)				Analyzed: 03/14/14 01:13						
Surr: Tetrachloro-meta-xylene	*0.107*		*ug/l*	*0.100*		*107*	*70-130*			

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

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Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/11/14 09:20
Date Reported: 03/17/14 13:56

Notes and Definitions

S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Color QC Summary (SM 2120B)

Date Analyzed: 3/10/2014

	Value (Color Units)	Result (Color Units)	% Rec	Acceptance Criteria %Rec
IPC	5	5	100.0	95-105

Sample ID	Sample (Color Units)	Sample Dup (Color Units)	% RPD	Acceptance Criteria % RPD
AB12658	1	1	0.0	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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http://www.MBASinc.com

MBAS QC Summary (SM 5540C)

Date Analyzed: 3/10/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	0.050	0.053	106	80-120

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

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pH QC Summary (SM 4500 H+)

Date Analyzed: 3/10/2014

	Value (pH Units)	Result (pH Units)	% Rec	Acceptance Criteria %Rec
IPC	6.86	6.88	100.3	95-105

Sample ID	Sample (pH Units)	Sample Dup (pH Units)	% RPD	Acceptance Criteria % RPD
AB12673	7.3	7.3	0.0	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 3/10/2014

	Value (NTU)	Result (NTU)	% Rec	Acceptance Criteria %Rec
IPC	1.00	1.00	100.0	95-105

Sample ID	Sample (NTU)	Sample Dup (NTU)	% RPD	Acceptance Criteria % RPD
AB12631	0.665	0.673	-0.01	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 3/11/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC (Low)	0.050	0.046	92	90-110
IPC (High)	0.500	0.494	98.8	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12237	0.014	0.500	0.486	0.499	94.46	97.06	2.6	85-120	10
AB12621	0.014	0.500	0.360	0.362	69.26	69.66	0.6	85-124	10

Note: The MS and MSD for the sample ID AB12621, does not meet the the acceptance criteria for the rec %. Data is accepted due IPC (Low) and IPC (High) rec %.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check
RPD = Relative Percent Difference; Rec = Recovery

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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 3/11/2014

	Value (umhos/cm)	Result (umhos/cm)	% Rec	Acceptance Criteria %Rec
IPC	1412	1412	100.0%	95-105

Sample ID	Sample (umhos/cm)	Sample Dup (umhos/cm)	% RPD	Acceptance Criteria % RPD
AB12689	798	799	0.1%	10
AB12740	394	390	1.0%	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

All units expressed in mg/L

		F	Cl	NO2-N	SO4	Br	NO3-N	PO4-P
		2	20	2	20	2	2	2
IPC		2.09	19.67	2.11	19.26	2.12	1.97	2.01
Recovery	90-110%	104.45	98.35	105.73	96.31	105.80	98.37	100.75
CCV1		2.08	19.71	2.12	19.33	2.12	1.98	2.01
Recovery	90-110%	104.00	98.57	106.17	96.64	106.04	99.03	100.40
RPD	10%	0.43	0.23	0.42	0.35	0.23	0.67	0.35
CCV2		2.09	19.84	2.13	19.36	2.13	1.99	2.01
Recovery	90-110%	104.29	99.20	106.42	96.78	106.45	99.68	100.74
RPD	10%	0.16	0.86	0.65	0.49	0.61	1.32	0.01
CCV3		2.09	19.84	2.14	19.42	2.13	1.99	2.02
Recovery	90-110%	104.44	99.21	106.76	97.08	106.61	99.41	100.79
RPD	10%	0.01	0.87	0.96	0.80	0.76	1.05	0.04
		F	**Cl**	**NO2-N**	**SO4**	**Br**	**NO3-N**	**PO4-P**
		2	20	2	20	2	2	2
AB12686		0.37	35.27	0.23	164.17	0.02	4.25	0.00
AB12686+LFM		2.51	53.15	2.20	184.33	1.66	6.30	1.75
AB12686+LFMD		2.52	53.37	2.20	184.18	1.66	6.28	1.69
Average		2.51	53.26	2.20	184.25	1.66	6.29	1.72
Recovery	80-120%	107.20	89.96	98.34	100.40	81.94	101.91	85.83
RPD	10%	0.14	0.42	0.24	0.08	0.24	0.39	3.50
AB12697		0.19	58.83	0.13	134.78	0.00	6.73	0.00
AB12697+LFM		2.37	79.50	2.12	153.79	1.57	8.82	1.68
AB12697+LFMD		2.36	78.55	2.11	152.31	1.57	8.75	1.69
Average		2.37	79.02	2.12	153.05	1.57	8.79	1.68
Recovery	80-120%	108.52	100.96	99.13	91.35	78.49	103.09	84.24
RPD	10%	0.71	1.20	0.24	0.97	0.16	0.85	0.96

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Alkalinity QC Summary (SM 2320B)

Date Analyzed: 3/13/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	40	41.1	102.75	95-105
IPC	40	38.5	96.25	95-105

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12682	253.1	256.7	1.4	10
AB12692	230.1	231.5	0.6	10
AB12765	292.9	292.3	0.2	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

EPA 200.7 QC

Batch # 20140313

Analyte/		IC	Prep	LCS	%Rec	LCSD	%Rec	%Diff	IC Verification			QCS (95-105%)		
WL	Range	Blank	Blank	Value	85-115%	Value	85-115%		Value	Result	%Rec	Value	Result	%Rec
B 249.678	0.05-5ppm	0.01	0.00	1.00	100.4%	1.03	103.1%	2.7%	1	1.02	101.5%	1	0.98	97.8%
B 249.772	0.05-5ppm	0.01	0.01	1.01	100.7%	1.03	103.0%	2.3%	1	1.02	102.0%	1	0.99	98.6%
Ca 317.933	50-300ppm	-5.25	-5.24	49.3	98.5%	50.3	100.7%	2.2%	50	49.5	99.0%	50	48.7	97.4%
Ca 396.847	0.5-50ppm	-0.15	-0.14	49.8	99.7%	50.3	100.6%	0.9%	50	50.2	100.4%	50	48.8	97.6%
Cu 324.754	10ppb-100ppm	-8.02	-6.70	995	99.5%	1024	102.4%	2.8%	1000	1010	101.0%	1000	1000	100.0%
Cu 327.395	10ppb-100ppm	-3.00	-4.11	990	99.0%	1017	101.7%	2.7%	1000	1006	100.6%	1000	995	99.5%
Fe 238.204	10ppb-100ppm	-0.64	0.19	998	99.8%	1014	101.4%	1.6%	1000	1003	100.3%	1000	992	99.2%
Fe 259.940	10ppb-100ppm	0.30	-0.50	995	99.5%	1013	101.3%	1.8%	1000	1001	100.1%	1000	993	99.3%
K 766.491	0.5-750ppm	0.20	0.13	9.9	98.6%	10.0	100.4%	1.8%	10	10.0	100.5%	10	9.8	98.0%
Mg 202.582	50-1000ppm	-1.81	-1.83	50.2	100.4%	51.3	102.5%	2.2%	50	50.8	101.6%	50	49.7	99.4%
Mg 279.078	0.5-50ppm	0.04	0.02	48.9	97.8%	50.2	100.4%	2.6%	50	49.8	99.7%	50	49.0	97.9%
Mn 257.610	10ppb-11ppm	-4.82	-5.60	995	99.5%	1016	101.6%	2.1%	1000	1001	100.1%	1000	979	97.9%
Mn 260.568	10ppb-11ppm	-5.16	-5.50	993	99.3%	1012	101.2%	1.9%	1000	999	99.9%	1000	978	97.8%
Na 568.821	50-1000ppm	4.56	4.98	48.4	96.9%	48.9	97.8%	0.9%	50	48.0	95.9%	50	47.3	94.5%
Na 589.592	0.5-50ppm	0.25	0.17	49.6	99.1%	50.2	100.4%	1.3%	50	50.0	100.0%	50	48.6	97.3%
Si 251.611	0.5-200ppm	0.09	0.05	50.0	100.0%	50.9	101.8%	1.7%	50	50.6	101.3%	107	105.5	98.6%
Si 252.411	0.5-200ppm	0.08	0.02	49.7	99.3%	50.7	101.4%	2.1%	50	50.5	100.9%	107	105.3	98.4%

Matrix Spikes

Sample ID AB12549

Analyte/	Sample	MS	%Rec	MSD	%Rec	%Diff	CCV (90-110%)			%Diff	CC
WL	Value	Value	70-130%	Value	70-130%		Value	Result	%Rec	10%	Blank
B 249.678	0.06	1.03	96.3%	1.04	97.3%	1.0%	1	0.98	97.6%	3.9%	0.00
B 249.772	0.06	1.04	97.8%	1.04	97.7%	0.1%	1	0.99	98.8%	3.2%	0.00
Ca 317.933	57.4	109.5	104.1%	108.7	102.5%	0.7%	50	48.5	97.0%	2.1%	-5.27
Ca 396.847	*55.3*	*91.0*	*71.3%*	*91.0*	*71.5%*	*0.1%*	50	48.3	96.6%	3.8%	-0.17
Cu 324.754	341	1295	95.5%	1299	95.8%	0.3%	1000	980	98.0%	3.1%	-8.97
Cu 327.395	336	1289	95.4%	1291	95.5%	0.1%	1000	972	97.2%	3.4%	-2.96
Fe 238.204	22	999	97.7%	993	97.1%	0.6%	1000	975	97.5%	2.8%	-0.52
Fe 259.940	19	987	96.8%	987	96.7%	0.1%	1000	977	97.7%	2.5%	-1.73
K 766.491	3.5	13.2	96.5%	13.3	97.6%	0.9%	10	9.66	96.6%	3.9%	0.08

Mg 202.582	15.7	65.9	100.3%	66.0	100.5%	0.2%	50	49.5	99.0%	2.6%	-1.79
Mg 279.078	16.6	64.0	94.8%	63.8	94.4%	0.3%	50	48.3	96.7%	3.1%	0.01
Mn 257.610	-1	973	97.3%	968	96.9%	0.5%	1000	976	97.6%	2.5%	-5.26
Mn 260.568	0	974	97.4%	968	96.9%	0.5%	1000	975	97.5%	2.4%	-4.73
Na 568.821	58.9	103.5	89.2%	103.4	89.1%	0.0%	50	47.5	94.9%	1.1%	6.03
Na 589.592	*57.8*	*104.7*	*93.6%*	*105.9*	*96.0%*	*1.1%*	50	48.3	96.7%	3.4%	0.17
Si 251.611	27.3	75.5	96.4%	75.0	95.4%	0.7%	50	49.3	98.6%	2.7%	-0.04
Si 252.411	27.0	74.9	95.8%	74.3	94.8%	0.7%	50	48.8	97.5%	3.5%	-0.03

Monterey Bay Analytical Services

QC Summary for 200.8

Spiked Sample
ID AB12896 D

Date Analyzed
Monday, March 17, 2014 13:56:41

	Sample	Spiked	MS	MSD	MS-MSD	LFB	LFB	LFB-LFBD	Acceptance Criteria %			
	ug/L	ug/L	%Rec.	% Rec.	% RPD	% Rec	% Rec	% RPD	MS/MSD	RPD	LFB/LFBD	RPD
Lithium	149.9	50	98.6	95.0	3.71	99.39	105.79	6.24	70-130	20	85-115	20
Beryllium	0.1	50	94.0	93.0	1.09	100.99	104.29	3.21	70-130	20	85-115	20
Aluminum	151.1	50	96.8	98.1	1.38	104.19	103.71	0.46	70-130	20	85-115	20
Vanadium	1.0	50	111.9	110.1	1.57	101.78	96.36	5.47	70-130	20	85-115	20
Chromium	12.7	50	105.9	105.5	0.31	101.51	97.60	3.94	70-130	20	85-115	20
Iron 54	12.8	100	99.7	102.4	2.62	100.42	71.80	33.24	70-130	20	85-115	20
Manganese	67.1	50	100.3	101.3	0.98	99.43	95.41	4.13	70-130	20	85-115	20
Cobalt	1.9	50	97.9	98.7	0.79	102.10	96.35	5.79	70-130	20	85-115	20
Nickel	32.0	50	91.6	92.1	0.56	99.33	96.10	3.30	70-130	20	85-115	20
Copper	168.0	50	97.7	101.8	4.14	99.24	107.13	7.64	70-130	20	85-115	20
Zinc	383.0	50	118.1	105.7	11.02	98.68	119.20	18.84	70-130	20	85-115	20
Arsenic	60.4	50	102.0	107.2	4.91	100.54	108.37	7.49	70-130	20	85-115	20
Selenium	244.6	250	101.6	104.6	2.94	101.59	108.93	6.97	70-130	20	85-115	20
Strontium	9965.8	50	55.0	76.8	33.10	99.57	103.45	3.83	70-130	20	85-115	20
Molybdenum	4.9	50	108.7	110.4	1.56	99.16	95.38	3.90	70-130	20	85-115	20
Silver	0.1	50	86.6	90.7	4.63	100.66	101.33	0.67	70-130	20	85-115	20
Cadmium	-1.7	50	97.1	97.1	0.06	99.84	102.54	2.66	70-130	20	85-115	20
Antimony	0.2	50	100.6	102.4	1.74	100.15	96.78	3.42	70-130	20	85-115	20
Barium	90.2	50	91.2	93.7	2.68	100.03	91.30	9.13	70-130	20	85-115	20
Mercury	0.6	2.5	96.0	96.9	0.99	113.92	120.52	5.63	70-130	20	85-115	20
Thallium	0.1	50	94.6	97.6	3.14	102.41	105.48	2.95	70-130	20	85-115	20
Lead	-0.2	50	93.4	95.4	2.16	99.59	104.99	5.27	70-130	20	85-115	20
Uranium	5.9	50	103.7	105.3	1.57	100.26	107.96	7.39	70-130	20	85-115	20

MS = Matrix Spike MSD = Matrix Spike Duplicate; LFB = Laboratory Fortified Blank; LFBD = Laboratory Fortified Blank Duplicate RPD = Relative Percent Difference

MONTEREY BAY ANALYTICAL SERVICES
PRECISION • ACCURACY • DEPENDABILITY
4 Justin Court Ste D, Monterey, CA 93940
831.375.MBAS (6227), 831.641.0734 (Fax)
MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 3/17/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	5.0	5.200	104	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12627	2.400	5.000	7.200	7.300	96	98	1.4	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

MONTEREY BAY ANALYTICAL SERVICES
PRECISION ● ACCURACY ● DEPENDABILITY
4 Justin Court Suite D, Monterey, CA 93940
831.375.MBAS
montereybayanalytical@usa.net

ELAP Certification Number: 2385

Cal Am Water Company
Travis Peterson
511 Pacific Lodge Road, Suite 100
Pacific Grove, CA 93950

Friday, March 21, 2014

Lab Number: **AB12792**

Collection Date/Time:	3/11/2014	15:45	Sample Collector:	SOBOLEW, J	
Submittal Date/Time:	3/12/2014	8:30	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B2WQ Zone 3 (104-114 Ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Alkalinity, Total (as CaCO3)	SM2320B	mg/L	**102**		2		3/19/2014	LRH
Aluminum, Total	EPA200.8	ug/L	**156**	J	200	1000	3/17/2014	SM
Ammonia-N, Dissolved	SM4500NH3 D	mg/L	**Not Detected**		0.05		3/21/2014	LRH
Arsenic, Total	EPA200.8	ug/L	**59**		20	10	3/17/2014	SM
Barium, Dissolved	EPA200.8	ug/L	**85**	J	200		3/17/2014	SM
Bicarbonate (as HCO3-)	SM2320B	mg/L	**124**		10		3/20/2014	SM
Boron, Dissolved	EPA200.7	mg/L	**2.58**		0.5		3/13/2014	DC
Bromide, Dissolved	EPA300.0	mg/L	**45**		10		3/13/2014	DC
Calcium	EPA200.7	mg/L	**712**		5		3/13/2014	DC
Calcium, Dissolved	EPA200.7	mg/L	**732**		5		3/13/2014	DC
Carbamates by HPLC (EPA 531)	EPA531	ug/L	**Attached (ND)**	E			3/14/2014	BSK
Carbonate as CaCO3	SM2320B	mg/L	**Not Detected**		10		3/20/2014	SM
Chloride, Dissolved	EPA300.0	mg/L	**14099**		100		3/13/2014	DC
Chlorinated Pesticides and PCB (EP	EPA508	ug/L	**Attached (ND)**	E			3/19/2014	WECK
Color, Apparent (Unfiltered)	SM2120B	Color Units	**Not Detected**		3	15	3/12/2014	LRH
Copper, Total	EPA200.8	ug/L	**150**		80	1300	3/17/2014	SM
DBCP & EDB	EPA504.1	ug/L	**Attached (ND)**	E			3/19/2014	BSK
Dioxin	EPA-5 1613B	pg/L	**Not Detected**	E			3/14/2014	CERES
Diquat (EPA 549)	EPA549	ug/L	**Attached (ND)**	E			3/19/2014	BSK
Dissolved Anions	Calculation	Meq/L	**439**				3/20/2014	DH
Dissolved Cations	Calculation	Meq/L	**418**				3/20/2014	DH
Endothall	EPA548.1	ug/L	**Attached (ND)**	E			3/18/2014	BSK
Fluoride, Dissolved	EPA300.0	mg/L	**0.5**		0.2		3/13/2014	DC
Glyphosate	EPA547	ug/L	**Attached (ND)**	E			3/17/2014	BSK
Hardness (as CaCO3)	SM2340B/Calc	mg/L	**5995**		10		3/14/2014	DH
Hydroxide	SM2320B	mg/L	**Not Detected**		5		3/20/2014	SM
Iodide	EPA9056M	ug/L	**Attached (ND)**	E	10		3/15/2014	WECK
Iron	EPA200.7	ug/L	**138**		100	300	3/13/2014	DC
Iron, Dissolved	EPA200.7	ug/L	**Not Detected**		100	300	3/13/2014	DC
Kjehldahl Nitrogen, Dissolved	SM4500-NH3 B,	mg/L	**Not Detected**		0.5		3/17/2014	HM
Lithium	EPA200.8	ug/L	**173**		20		3/17/2014	SM
Magnesium	EPA200.7	mg/L	**1024**		5		3/13/2014	DC
Magnesium, Dissolved	EPA200.7	mg/L	**1056**		100		3/13/2014	DC
Manganese, Dissolved	EPA200.7	ug/L	**Not Detected**		100	50	3/13/2014	DC
Manganese, Total	EPA200.7	ug/L	**Not Detected**		100	50	3/13/2014	DC

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See Report attachments. T = Temperature Exceedance

Lab Number: **AB12792**

Collection Date/Time:	3/11/2014	15:45	Sample Collector:	SOBOLEW, J	
Submittal Date/Time:	3/12/2014	8:30	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B2WQ Zone 3 (104-114 Ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
MBAS (Surfactants)	SM5540C	mg/L	**Not Detected**		0.05	0.50	3/13/2014	DH
Nitrate as NO3	EPA300.0	mg/L	**2**		2	45	3/13/2014	DC
Nitrate+Nitrite as N	EPA300.0	mg/L	**0.5**		0.2		3/13/2014	DC
Nitrite as NO2-N, Dissolved	EPA300.0	mg/L	**Not Detected**		0.2		3/13/2014	DC
Odor Threshold at 60 C	SM2150B	TON	**1**		1	3	3/12/2014	MW
o-Phosphate-P, Dissolved	Hach 8190	mg/L	**Not Detected**		0.1		3/14/2014	HC
pH (Field Test)	SM4500-H+B	pH	**6.96**				3/11/2014	JS
pH (Laboratory)	SM4500-H+B	pH (H)	**7.2**				3/12/2014	FS
Phenoxy Acid Herbicides (515.3)	EPA515.3	ug/L	**Attached (ND)**	E			3/15/2014	BSK
Phosphorus, Dissolved	HACH 8190	mg/L	**Not Detected**		0.03		3/14/2014	HC
Potassium	EPA200.7	mg/L	**193**		5		3/13/2014	DC
Potassium, Dissolved	EPA200.7	mg/L	**201**		1		3/13/2014	DC
QC Ratio TDS/SEC	Calculation		**0.66**				3/14/2014	DH
Reg. Org. Compounds (EPA 525)	EPA525	ug/L	**Attached (ND)**	E			3/19/2014	BSK
Silica as SiO2, Dissolved	EPA200.7	mg/L	**20**		5		3/13/2014	DC
Sodium	EPA200.7	mg/L	**6485**		5		3/13/2014	DC
Sodium, Dissolved	EPA200.7	mg/L	**6643**		5		3/13/2014	DC
Specific Conductance (E.C)	SM2510B	umhos/cm	**40720**		1	900	3/14/2014	HM
Specific Conductance (E.C) (Field)	SM2510B	umhos/cm	**40173**		1		3/11/2014	JS
Strontium, Dissolved	EPA200.8	ug/L	**9020**		100		3/17/2014	SM
Sulfate	EPA300.0	mg/L	**1855**		100	250	3/13/2014	DC
Temperature (Field)	SM2550	° C	**17.6**				3/11/2014	JS
Total Cations	Calculations	Meq/L	**407**				3/20/2014	DH
Total Diss. Solids	SM2540C	mg/L	**26800**		10	500	3/13/2014	HM
Turbidity	EPA180.1	NTU	**0.65**		0.05	5.0	3/13/2014	LRH
Turbidity (Field)	EPA180.1	NTU	**0.57**		0.05		3/11/2014	JS
Volatile Org. Compounds (524)	EPA524	ug/L	**Attached (ND)**	E			3/19/2014	BSK
Zinc, Total	EPA200.8	ug/L	**384**		200	5000	3/17/2014	SM

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level

H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See Report attachments. T = Temperature Exceedance

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12792 CX-B2WQ Zone 3 Dissolved**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	6643	0.04350	288.97
Potassium	201	0.02558	5.14
Calcium	732	0.04990	36.53
Magnesium	1056	0.08229	86.90
NH3-N	0	0.07143	0.00
		SUM	417.54

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	102	0.02000	2.04
Sulfate	1855	0.02082	38.62
Chloride	14099	0.02821	397.73
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0.5	0.07138	0.04
Phosphate-P	0.0	0.01031	0.00
Fluoride	0.5	0.05264	0.03
Bromide	45.0	0.01252	0.56
		SUM	439.02

ANION-CATION BALANCE: **-3** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	40720	
Cation Sum X 100	41754	**103%**
Anion Sum X 100	43902	**108%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**36.8**
Ca+Mg+Na	412.40
HCO3/Ca	0.06
dS/m	40.72
Value Table II	1.5
SAR adj	**43.5**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **AB12792 CX-B2WQ Zone 3 Total**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	6485	0.04350	282.10
Potassium	193	0.02558	4.94
Calcium	712	0.04990	35.53
Magnesium	1024	0.08229	84.26
NH3-N	0	0.07143	0.00
		SUM	406.83

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	102	0.02000	2.04
Sulfate	1855	0.02082	38.62
Chloride	14099	0.02821	397.73
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0.5	0.07138	0.04
Phosphate-P	0.0	0.01031	0.00
Fluoride	0.5	0.05264	0.03
Bromide	45.0	0.01252	0.56
		SUM	439.02

ANION-CATION BALANCE: **-4** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	40720	
Cation Sum X 100	40683	**100%**
Anion Sum X 100	43902	**108%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**36.4**
Ca+Mg+Na	401.89
HCO3/Ca	0.06
dS/m	40.72
Value Table II	1.5
SAR adj	**43.1**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A4C1132 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 3/14/2014. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Monterey Bay Analytical	**Invoice To:**	Monterey Bay Analytical
Report To:	David Holland	**Invoice Attn:**	David Holland
Project #:	-	**Project PO#:**	-
Received:	3/14/2014 - 09:30		
Report Due:	3/21/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 4.9

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Packing Material - Foam
Packing Material - Paper
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
BS1.1	Blank spike recovery for this analyte was biased high. Associated result may be biased high; reanalysis not feasible.
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
MS1.1	Matrix spike recovery exceeds upper control limit. Reported results for parent matrix may be biased high due to matrix interferences.

Report Distribution

Recipient(s)	Report Format	CC:
David Holland	Final.rpt	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C1132-01
Sampled By: Josh Sobolew
Sample Description: CX-B2WQ Zone #3 (104-114 ft bgs) // 12792

Sample Date - Time: 03/11/14 - 15:45
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A403269	03/18/14	03/19/14	CV0.0
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A403269	03/18/14	03/19/14	BS1.1, CV0.0
Surrogate: 1-Br-2-Nitrobenzene	EPA 504.1	91 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A403154	03/14/14	03/15/14	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A403154	03/14/14	03/15/14	
2,4-D	EPA 515.3	ND	10	ug/L	1	A403154	03/14/14	03/15/14	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A403154	03/14/14	03/15/14	
Dalapon	EPA 515.3	ND	10	ug/L	1	A403154	03/14/14	03/15/14	BS1.0, CV0.0
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A403154	03/14/14	03/15/14	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A403154	03/14/14	03/15/14	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A403154	03/14/14	03/15/14	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A403154	03/14/14	03/15/14	
Surrogate: DCPAA	EPA 515.3	80 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A403247	03/18/14	03/19/14	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A403247	03/18/14	03/19/14	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A403247	03/18/14	03/19/14	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A403247	03/18/14	03/19/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C1132-01
Sampled By: Josh Sobolew
Sample Description: CX-B2WQ Zone #3 (104-114 ft bgs) // 12792

Sample Date - Time: 03/11/14 - 15:45
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Acetone	EPA 524.2	ND	10	ug/L	1	A403247	03/18/14	03/19/14	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A403247	03/18/14	03/19/14	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A403247	03/18/14	03/19/14	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A403247	03/18/14	03/19/14	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A403247	03/18/14	03/19/14	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C1132-01
Sampled By: Josh Sobolew
Sample Description: CX-B2WQ Zone #3 (104-114 ft bgs) // 12792

Sample Date - Time: 03/11/14 - 15:45
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	96 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	101 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A403279	03/18/14	03/19/14	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A403279	03/18/14	03/19/14	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A403279	03/18/14	03/19/14	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A403279	03/18/14	03/19/14	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A403279	03/18/14	03/19/14	BS1.0
Bromacil	EPA 525.2	ND	10	ug/L	1	A403279	03/18/14	03/19/14	
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A403279	03/18/14	03/19/14	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A403279	03/18/14	03/19/14	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A403279	03/18/14	03/19/14	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A403279	03/18/14	03/19/14	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A403279	03/18/14	03/19/14	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A403279	03/18/14	03/19/14	
Prometryn	EPA 525.2	ND	2.0	ug/L	1	A403279	03/18/14	03/19/14	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A403279	03/18/14	03/19/14	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A403279	03/18/14	03/19/14	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A403279	03/18/14	03/19/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	107 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A403175	03/14/14	03/14/14	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A403175	03/14/14	03/14/14	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A403175	03/14/14	03/14/14	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A403175	03/14/14	03/14/14	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A403175	03/14/14	03/14/14	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A403175	03/14/14	03/14/14	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A403175	03/14/14	03/14/14	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A403175	03/14/14	03/14/14	
Carbamates by HPLC									
Methiocarb	EPA 531.1	ND	2.0	ug/L	1	A403175	03/14/14	03/14/14	
Propoxur	EPA 531.1	ND	2.0	ug/L	1	A403175	03/14/14	03/14/14	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A403209	03/17/14	03/17/14	
Surrogate: AMPA	EPA 547	101 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A403241	03/17/14	03/18/14	

Certificate of Analysis

Sample ID: A4C1132-01
Sampled By: Josh Sobolew
Sample Description: CX-B2WQ Zone #3 (104-114 ft bgs) // 12792

Sample Date - Time: 03/11/14 - 15:45
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A403185	03/15/14	03/19/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 504.1 - Quality Control												
Batch: A403269										Prepared: 03/18/2014		
Prep Method: EPA 505										Analyst: GAK		
Blank (A403269-BLK1)												
Dibromochloropropane (DBCP)	ND	0.010	ug/L							03/19/14		
Ethylene Dibromide (EDB)	ND	0.020	ug/L							03/19/14		
Surrogate: 1-Br-2-Nitrobenzene	*0.63*			*0.69*		*92*	*70-130*			03/19/14		
Blank Spike (A403269-BS1)												
Dibromochloropropane (DBCP)	0.24	0.010	ug/L	0.20		119	70-130			03/19/14		
Ethylene Dibromide (EDB)	0.28	0.020	ug/L	0.20		140	70-130			03/19/14	BS	***High***
Surrogate: 1-Br-2-Nitrobenzene	*0.66*			*0.69*		*97*	*70-130*			03/19/14		
Blank Spike Dup (A403269-BSD1)												
Dibromochloropropane (DBCP)	0.24	0.010	ug/L	0.20		118	70-130	1	20	03/19/14		
Ethylene Dibromide (EDB)	0.28	0.020	ug/L	0.20		139	70-130	1	20	03/19/14	BS	***High***
Surrogate: 1-Br-2-Nitrobenzene	*0.62*			*0.69*		*91*	*70-130*			03/19/14		
Matrix Spike (A403269-MS1), Source: A4C1245-01												
Dibromochloropropane (DBCP)	0.24	0.010	ug/L	0.20	ND	116	65-135			03/19/14		
Ethylene Dibromide (EDB)	0.28	0.020	ug/L	0.20	ND	137	65-135			03/19/14	MS1.1	***High***
Surrogate: 1-Br-2-Nitrobenzene	*0.65*			*0.70*		*93*	*70-130*			03/19/14		
Matrix Spike Dup (A403269-MSD1), Source: A4C1245-01												
Dibromochloropropane (DBCP)	0.25	0.010	ug/L	0.21	ND	120	65-135	4	20	03/19/14		
Ethylene Dibromide (EDB)	0.28	0.020	ug/L	0.21	ND	138	65-135	2	20	03/19/14	MS1.1	***High***
Surrogate: 1-Br-2-Nitrobenzene	*0.65*			*0.70*		*93*	*70-130*			03/19/14		
EPA 515.3 - Quality Control												
Batch: A403154										Prepared: 03/14/2014		
Prep Method: EPA 515.3										Analyst: GAK		
Blank (A403154-BLK1)												
2,4,5-T	ND	1.0	ug/L							03/14/14		
2,4,5-TP (Silvex)	ND	1.0	ug/L							03/14/14		
2,4-D	ND	10	ug/L							03/14/14		
Bentazon	ND	2.0	ug/L							03/14/14		
Dalapon	ND	10	ug/L							03/14/14		
Dicamba	ND	1.5	ug/L							03/14/14		
Dinoseb	ND	2.0	ug/L							03/14/14		
Pentachlorophenol	ND	0.20	ug/L							03/14/14		
Picloram	ND	1.0	ug/L							03/14/14		
Surrogate: DCPAA	*53*			*58*		*92*	*70-130*			03/14/14		
Blank Spike (A403154-BS1)												
2,4,5-T	4.0	1.0	ug/L	4.0		100	70-130			03/14/14		
2,4,5-TP (Silvex)	0.73	1.0	ug/L	0.80		91	70-130			03/14/14		
2,4-D	0.39	10	ug/L	0.40		98	70-130			03/14/14		
Bentazon	8.2	2.0	ug/L	8.0		102	70-130			03/14/14		
Dalapon	7.0	10	ug/L	4.0		174	70-130			03/14/14	BS	***High***

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 515.3 - Quality Control												
Batch: A403154										Prepared: 03/14/2014		
Prep Method: EPA 515.3										Analyst: GAK		
Blank Spike (A403154-BS1)												
Dicamba	5.7	1.5	ug/L	6.0		94	70-130			03/14/14		
Dinoseb	0.80	2.0	ug/L	0.80		100	70-130			03/14/14		
Pentachlorophenol	0.14	0.20	ug/L	0.16		91	70-130			03/14/14		
Picloram	0.36	1.0	ug/L	0.40		89	70-130			03/14/14		
Surrogate: DCPAA	*54*			*58*		*93*	*70-130*			03/14/14		
Blank Spike Dup (A403154-BSD1)												
2,4,5-T	4.0	1.0	ug/L	4.0		100	70-130	0	20	03/15/14		
2,4,5-TP (Silvex)	0.72	1.0	ug/L	0.80		90	70-130	1	20	03/15/14		
2,4-D	0.39	10	ug/L	0.40		97	70-130	1	20	03/15/14		
Bentazon	8.0	2.0	ug/L	8.0		100	70-130	2	20	03/15/14		
Dalapon	7.7	10	ug/L	4.0		193	70-130	10	20	03/15/14	BS	***High***
Dicamba	5.7	1.5	ug/L	6.0		94	70-130	0	20	03/15/14		
Dinoseb	0.82	2.0	ug/L	0.80		102	70-130	2	20	03/15/14		
Pentachlorophenol	0.14	0.20	ug/L	0.16		89	70-130	2	20	03/15/14		
Picloram	0.34	1.0	ug/L	0.40		84	70-130	5	20	03/15/14		
Surrogate: DCPAA	*53*			*58*		*92*	*70-130*			03/15/14		
Matrix Spike (A403154-MS1), Source: A4C0842-03												
2,4,5-T	4.4	1.0	ug/L	4.0	ND	103	70-130			03/14/14		
2,4,5-TP (Silvex)	0.73	1.0	ug/L	0.80	ND	92	70-130			03/14/14		
2,4-D	0.40	10	ug/L	0.40	ND	101	70-130			03/14/14		
Bentazon	8.6	2.0	ug/L	8.0	ND	107	70-130			03/14/14		
Dalapon	7.9	10	ug/L	4.0	ND	96	70-130			03/14/14		
Dicamba	5.7	1.5	ug/L	6.0	ND	95	70-130			03/14/14		
Dinoseb	0.82	2.0	ug/L	0.80	ND	102	70-130			03/14/14		
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	92	70-130			03/14/14		
Picloram	0.48	1.0	ug/L	0.40	ND	119	70-130			03/14/14		
Surrogate: DCPAA	*52*			*58*		*90*	*70-130*			03/14/14		
Matrix Spike Dup (A403154-MSD1), Source: A4C0842-03												
2,4,5-T	4.4	1.0	ug/L	4.0	ND	104	70-130	0	20	03/14/14		
2,4,5-TP (Silvex)	0.74	1.0	ug/L	0.80	ND	92	70-130	0	20	03/14/14		
2,4-D	0.40	10	ug/L	0.40	ND	100	70-130	0	20	03/14/14		
Bentazon	8.4	2.0	ug/L	8.0	ND	106	70-130	1	20	03/14/14		
Dalapon	8.1	10	ug/L	4.0	ND	102	70-130	3	20	03/14/14		
Dicamba	5.7	1.5	ug/L	6.0	ND	95	70-130	0	20	03/14/14		
Dinoseb	0.82	2.0	ug/L	0.80	ND	103	70-130	1	20	03/14/14		
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	92	70-130	0	20	03/14/14		
Picloram	0.43	1.0	ug/L	0.40	ND	106	70-130	11	20	03/14/14		
Surrogate: DCPAA	*53*			*58*		*91*	*70-130*			03/14/14		
EPA 524.2 - Quality Control												
Batch: A403247										Prepared: 03/18/2014		
Prep Method: EPA 524.2										Analyst: JGB		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A403247										Prepared: 03/18/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A403247-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							03/19/14	
1,1,1-Trichloroethane	ND	0.50	ug/L							03/19/14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							03/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							03/19/14	
1,1,2-Trichloroethane	ND	0.50	ug/L							03/19/14	
1,1-Dichloroethane	ND	0.50	ug/L							03/19/14	
1,1-Dichloroethene	ND	0.50	ug/L							03/19/14	
1,1-Dichloropropene	ND	0.50	ug/L							03/19/14	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							03/19/14	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							03/19/14	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							03/19/14	
1,2-Dichlorobenzene	ND	0.50	ug/L							03/19/14	
1,2-Dichloroethane	ND	0.50	ug/L							03/19/14	
1,2-Dichloropropane	ND	0.50	ug/L							03/19/14	
1,3,5-Trimethylbenzene	ND	0.50	ug/L							03/19/14	
1,3-Dichlorobenzene	ND	0.50	ug/L							03/19/14	
1,3-Dichloropropane	ND	0.50	ug/L							03/19/14	
1,4-Dichlorobenzene	ND	0.50	ug/L							03/19/14	
2,2-Dichloropropane	ND	0.50	ug/L							03/19/14	
2-Butanone	ND	5.0	ug/L							03/19/14	
2-Chlorotoluene	ND	0.50	ug/L							03/19/14	
2-Hexanone	ND	10	ug/L							03/19/14	
4-Chlorotoluene	ND	0.50	ug/L							03/19/14	
4-Methyl-2-pentanone	ND	5.0	ug/L							03/19/14	
Acetone	ND	10	ug/L							03/19/14	
Benzene	ND	0.50	ug/L							03/19/14	
Bromobenzene	ND	0.50	ug/L							03/19/14	
Bromochloromethane	ND	0.50	ug/L							03/19/14	
Bromodichloromethane	ND	0.50	ug/L							03/19/14	
Bromoform	ND	0.50	ug/L							03/19/14	
Bromomethane	ND	0.50	ug/L							03/19/14	
Carbon Tetrachloride	ND	0.50	ug/L							03/19/14	
Chlorobenzene	ND	0.50	ug/L							03/19/14	
Chloroethane	ND	0.50	ug/L							03/19/14	
Chloroform	ND	0.50	ug/L							03/19/14	
Chloromethane	ND	0.50	ug/L							03/19/14	
cis-1,2-Dichloroethene	ND	0.50	ug/L							03/19/14	
cis-1,3-Dichloropropene	ND	0.50	ug/L							03/19/14	
Dibromochloromethane	ND	0.50	ug/L							03/19/14	
Dibromomethane	ND	0.50	ug/L							03/19/14	
Dichlorodifluoromethane	ND	0.50	ug/L							03/19/14	
Dichloromethane	ND	0.50	ug/L							03/19/14	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							03/19/14	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							03/19/14	
Ethylbenzene	ND	0.50	ug/L							03/19/14	
Hexachlorobutadiene	ND	0.50	ug/L							03/19/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A403247 Prepared: 03/18/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A403247-BLK1)											
Isopropylbenzene	ND	0.50	ug/L							03/19/14	
m,p-Xylenes	ND	0.50	ug/L							03/19/14	
Methyl-t-butyl ether	ND	0.50	ug/L							03/19/14	
Naphthalene	ND	0.50	ug/L							03/19/14	
n-Butylbenzene	ND	0.50	ug/L							03/19/14	
n-Propylbenzene	ND	0.50	ug/L							03/19/14	
o-Xylene	ND	0.50	ug/L							03/19/14	
p-Isopropyltoluene	ND	0.50	ug/L							03/19/14	
sec-Butylbenzene	ND	0.50	ug/L							03/19/14	
Styrene	ND	0.50	ug/L							03/19/14	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							03/19/14	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							03/19/14	
tert-Butylbenzene	ND	0.50	ug/L							03/19/14	
Tetrachloroethene (PCE)	ND	0.50	ug/L							03/19/14	
Toluene	ND	0.50	ug/L							03/19/14	
trans-1,2-Dichloroethene	ND	0.50	ug/L							03/19/14	
trans-1,3-Dichloropropene	ND	0.50	ug/L							03/19/14	
Trichloroethene (TCE)	ND	0.50	ug/L							03/19/14	
Trichlorofluoromethane	ND	5.0	ug/L							03/19/14	
Vinyl Chloride	ND	0.50	ug/L							03/19/14	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*95*	*70-130*			03/19/14	
Surrogate: Bromofluorobenzene	*49*			*50*		*99*	*70-130*			03/19/14	
Blank Spike (A403247-BS1)											
1,1,1,2-Tetrachloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,1,1-Trichloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,1,2,2-Tetrachloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.7	10	ug/L	10		97	70-130			03/19/14	
1,1,2-Trichloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,1-Dichloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,1-Dichloroethene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
1,1-Dichloropropene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,2,3-Trichlorobenzene	9.5	0.50	ug/L	10		95	70-130			03/19/14	
1,2,4-Trichlorobenzene	9.5	0.50	ug/L	10		95	70-130			03/19/14	
1,2,4-Trimethylbenzene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
1,2-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
1,2-Dichloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,2-Dichloropropane	9.9	0.50	ug/L	10		99	70-130			03/19/14	
1,3,5-Trimethylbenzene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,3-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
1,3-Dichloropropane	9.9	0.50	ug/L	10		99	70-130			03/19/14	
1,4-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
2,2-Dichloropropane	8.9	0.50	ug/L	10		89	70-130			03/19/14	
2-Butanone	11	5.0	ug/L	10		106	70-130			03/19/14	
2-Chlorotoluene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
2-Hexanone	10	10	ug/L	10		101	70-130			03/19/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A403247 Prepared: 03/18/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A403247-BS1)											
4-Chlorotoluene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
4-Methyl-2-pentanone	10	5.0	ug/L	10		101	70-130			03/19/14	
Acetone	11	10	ug/L	10		110	70-130			03/19/14	
Benzene	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Bromobenzene	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Bromochloromethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
Bromodichloromethane	10	0.50	ug/L	10		101	70-130			03/19/14	
Bromoform	11	0.50	ug/L	10		108	70-130			03/19/14	
Bromomethane	11	0.50	ug/L	10		107	70-130			03/19/14	
Carbon Tetrachloride	9.7	0.50	ug/L	10		97	70-130			03/19/14	
Chlorobenzene	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Chloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
Chloroform	9.8	0.50	ug/L	10		98	70-130			03/19/14	
Chloromethane	9.7	0.50	ug/L	10		97	70-130			03/19/14	
cis-1,2-Dichloroethene	10	0.50	ug/L	10		100	70-130			03/19/14	
cis-1,3-Dichloropropene	10	0.50	ug/L	10		100	70-130			03/19/14	
Dibromochloromethane	10	0.50	ug/L	10		103	70-130			03/19/14	
Dibromomethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
Dichlorodifluoromethane	9.2	0.50	ug/L	10		92	70-130			03/19/14	
Dichloromethane	10	0.50	ug/L	10		100	70-130			03/19/14	
Di-isopropyl ether (DIPE)	9.9	3.0	ug/L	10		99	70-130			03/19/14	
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		100	70-130			03/19/14	
Ethylbenzene	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Hexachlorobutadiene	9.3	0.50	ug/L	10		93	70-130			03/19/14	
Isopropylbenzene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
m,p-Xylenes	20	0.50	ug/L	20		98	70-130			03/19/14	
Methyl-t-butyl ether	20	0.50	ug/L	20		100	70-130			03/19/14	
Naphthalene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
n-Butylbenzene	9.4	0.50	ug/L	10		94	70-130			03/19/14	
n-Propylbenzene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
o-Xylene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
p-Isopropyltoluene	9.6	0.50	ug/L	10		96	70-130			03/19/14	
sec-Butylbenzene	9.6	0.50	ug/L	10		96	70-130			03/19/14	
Styrene	9.4	0.50	ug/L	10		94	70-130			03/19/14	
tert-Amyl Methyl Ether (TAME)	9.6	3.0	ug/L	10		96	70-130			03/19/14	
tert-Butyl alcohol (TBA)	10	2.0	ug/L	10		104	70-130			03/19/14	
tert-Butylbenzene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
Tetrachloroethene (PCE)	9.7	0.50	ug/L	10		97	70-130			03/19/14	
Toluene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
trans-1,2-Dichloroethene	10	0.50	ug/L	10		100	70-130			03/19/14	
trans-1,3-Dichloropropene	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Trichloroethene (TCE)	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Trichlorofluoromethane	9.5	5.0	ug/L	10		95	70-130			03/19/14	
Vinyl Chloride	9.6	0.50	ug/L	10		96	70-130			03/19/14	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*96*	*70-130*			03/19/14	
Surrogate: Bromofluorobenzene	*48*			*50*		*96*	*70-130*			03/19/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A403247 Prepared: 03/18/2014

Prep Method: EPA 524.2 Analyst: JGB

Blank Spike Dup (A403247-BSD1)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
1,1,1,2-Tetrachloroethane	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
1,1,1-Trichloroethane	9.6	0.50	ug/L	10		96	70-130	3	30	03/19/14	
1,1,2,2-Tetrachloroethane	9.6	0.50	ug/L	10		96	70-130	3	30	03/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.4	10	ug/L	10		94	70-130	3	30	03/19/14	
1,1,2-Trichloroethane	9.7	0.50	ug/L	10		97	70-130	2	30	03/19/14	
1,1-Dichloroethane	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
1,1-Dichloroethene	9.5	0.50	ug/L	10		95	70-130	2	30	03/19/14	
1,1-Dichloropropene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
1,2,3-Trichlorobenzene	9.4	0.50	ug/L	10		94	70-130	1	30	03/19/14	
1,2,4-Trichlorobenzene	9.4	0.50	ug/L	10		94	70-130	1	30	03/19/14	
1,2,4-Trimethylbenzene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
1,2-Dichlorobenzene	9.6	0.50	ug/L	10		96	70-130	1	30	03/19/14	
1,2-Dichloroethane	9.6	0.50	ug/L	10		96	70-130	1	30	03/19/14	
1,2-Dichloropropane	9.7	0.50	ug/L	10		97	70-130	1	30	03/19/14	
1,3,5-Trimethylbenzene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
1,3-Dichlorobenzene	9.6	0.50	ug/L	10		96	70-130	1	30	03/19/14	
1,3-Dichloropropane	9.7	0.50	ug/L	10		97	70-130	2	30	03/19/14	
1,4-Dichlorobenzene	9.6	0.50	ug/L	10		96	70-130	1	30	03/19/14	
2,2-Dichloropropane	8.5	0.50	ug/L	10		85	70-130	4	30	03/19/14	
2-Butanone	9.6	5.0	ug/L	10		96	70-130	11	30	03/19/14	
2-Chlorotoluene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
2-Hexanone	9.3	10	ug/L	10		93	70-130	8	30	03/19/14	
4-Chlorotoluene	9.6	0.50	ug/L	10		96	70-130	1	30	03/19/14	
4-Methyl-2-pentanone	9.4	5.0	ug/L	10		94	70-130	8	30	03/19/14	
Acetone	9.5	10	ug/L	10		95	70-130	14	30	03/19/14	
Benzene	9.6	0.50	ug/L	10		96	70-130	3	30	03/19/14	
Bromobenzene	9.6	0.50	ug/L	10		96	70-130	3	30	03/19/14	
Bromochloromethane	9.9	0.50	ug/L	10		99	70-130	1	30	03/19/14	
Bromodichloromethane	9.8	0.50	ug/L	10		98	70-130	2	30	03/19/14	
Bromoform	10	0.50	ug/L	10		104	70-130	4	30	03/19/14	
Bromomethane	11	0.50	ug/L	10		106	70-130	0	30	03/19/14	
Carbon Tetrachloride	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
Chlorobenzene	9.8	0.50	ug/L	10		98	70-130	2	30	03/19/14	
Chloroethane	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
Chloroform	9.7	0.50	ug/L	10		97	70-130	1	30	03/19/14	
Chloromethane	9.3	0.50	ug/L	10		93	70-130	5	30	03/19/14	
cis-1,2-Dichloroethene	9.8	0.50	ug/L	10		98	70-130	3	30	03/19/14	
cis-1,3-Dichloropropene	9.7	0.50	ug/L	10		97	70-130	2	30	03/19/14	
Dibromochloromethane	10	0.50	ug/L	10		101	70-130	2	30	03/19/14	
Dibromomethane	9.7	0.50	ug/L	10		97	70-130	1	30	03/19/14	
Dichlorodifluoromethane	9.5	0.50	ug/L	10		95	70-130	4	30	03/19/14	
Dichloromethane	9.8	0.50	ug/L	10		98	70-130	1	30	03/19/14	
Di-isopropyl ether (DIPE)	9.6	3.0	ug/L	10		96	70-130	2	30	03/19/14	
Ethyl tert-Butyl Ether (ETBE)	9.8	0.50	ug/L	10		98	70-130	2	30	03/19/14	
Ethylbenzene	9.6	0.50	ug/L	10		96	70-130	3	30	03/19/14	
Hexachlorobutadiene	9.1	0.50	ug/L	10		91	70-130	2	30	03/19/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A403247										Prepared: 03/18/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike Dup (A403247-BSD1)											
Isopropylbenzene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
m,p-Xylenes	19	0.50	ug/L	20		96	70-130	2	30	03/19/14	
Methyl-t-butyl ether	20	0.50	ug/L	20		98	70-130	2	30	03/19/14	
Naphthalene	9.5	0.50	ug/L	10		95	70-130	2	30	03/19/14	
n-Butylbenzene	9.2	0.50	ug/L	10		92	70-130	1	30	03/19/14	
n-Propylbenzene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
o-Xylene	9.7	0.50	ug/L	10		97	70-130	1	30	03/19/14	
p-Isopropyltoluene	9.5	0.50	ug/L	10		95	70-130	1	30	03/19/14	
sec-Butylbenzene	9.5	0.50	ug/L	10		95	70-130	1	30	03/19/14	
Styrene	8.6	0.50	ug/L	10		86	70-130	8	30	03/19/14	
tert-Amyl Methyl Ether (TAME)	9.4	3.0	ug/L	10		94	70-130	2	30	03/19/14	
tert-Butyl alcohol (TBA)	9.4	2.0	ug/L	10		94	70-130	10	30	03/19/14	
tert-Butylbenzene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
Tetrachloroethene (PCE)	9.5	0.50	ug/L	10		95	70-130	1	30	03/19/14	
Toluene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
trans-1,2-Dichloroethene	9.7	0.50	ug/L	10		97	70-130	3	30	03/19/14	
trans-1,3-Dichloropropene	9.7	0.50	ug/L	10		97	70-130	3	30	03/19/14	
Trichloroethene (TCE)	9.7	0.50	ug/L	10		97	70-130	2	30	03/19/14	
Trichlorofluoromethane	9.3	5.0	ug/L	10		93	70-130	2	30	03/19/14	
Vinyl Chloride	9.8	0.50	ug/L	10		98	70-130	2	30	03/19/14	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*96*	*70-130*			03/19/14	
Surrogate: Bromofluorobenzene	*48*			*50*		*97*	*70-130*			03/19/14	
EPA 525.2 - Quality Control											
Batch: A403279										Prepared: 03/18/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Blank (A403279-BLK1)											
Alachlor	ND	1.0	ug/L							03/19/14	
Atrazine	ND	0.50	ug/L							03/19/14	
Benzo(a)pyrene	ND	0.10	ug/L							03/19/14	
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							03/19/14	
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							03/19/14	
Bromacil	ND	10	ug/L							03/19/14	
Butachlor	ND	0.38	ug/L							03/19/14	
Diazinon	ND	0.25	ug/L							03/19/14	
Dimethoate	ND	10	ug/L							03/19/14	
Metolachlor	ND	0.50	ug/L							03/19/14	
Metribuzin	ND	0.50	ug/L							03/19/14	
Molinate	ND	2.0	ug/L							03/19/14	
Prometryn	ND	2.0	ug/L							03/19/14	
Propachlor	ND	0.50	ug/L							03/19/14	
Simazine	ND	1.0	ug/L							03/19/14	
Thiobencarb	ND	1.0	ug/L							03/19/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.3*			*5.1*		*106*	*70-130*			03/19/14	

Organics Quality Control Report

EPA 525.2 - Quality Control

Batch: A403279 Prepared: 03/18/2014

Prep Method: EPA 525.2 Analyst: KHH

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A403279-BS1)												
Alachlor	0.53	1.0	ug/L	0.50		105	70-130			03/19/14		
Atrazine	0.53	0.50	ug/L	0.50		106	70-130			03/19/14		
Benzo(a)pyrene	0.099	0.10	ug/L	0.10		98	70-130			03/19/14		
Bis(2-ethylhexyl) adipate	3.3	3.0	ug/L	3.0		110	70-130			03/19/14		
Bis(2-ethylhexyl) phthalate	4.1	3.0	ug/L	3.0		134	70-130			03/19/14	BS	***High***
Bromacil	2.2	10	ug/L	2.0		111	70-130			03/19/14		
Butachlor	1.3	0.38	ug/L	1.3		104	70-130			03/19/14		
Diazinon	0.043	0.25	ug/L	0.050		86	70-130			03/19/14		
Dimethoate	0.47	10	ug/L	0.50		94	70-130			03/19/14		
Metolachlor	2.7	0.50	ug/L	2.5		105	70-130			03/19/14		
Metribuzin	3.1	0.50	ug/L	2.5		121	70-130			03/19/14		
Molinate	2.9	2.0	ug/L	2.5		116	70-130			03/19/14		
Prometryn	0.62	2.0	ug/L	0.50		122	70-130			03/19/14		
Propachlor	2.9	0.50	ug/L	2.5		115	70-130			03/19/14		
Simazine	0.38	1.0	ug/L	0.35		107	70-130			03/19/14		
Thiobencarb	0.56	1.0	ug/L	0.50		110	70-130			03/19/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.6*			*5.0*		*112*	*70-130*			03/19/14		
Blank Spike Dup (A403279-BSD1)												
Alachlor	0.54	1.0	ug/L	0.50		109	70-130	3	30	03/19/14		
Atrazine	0.55	0.50	ug/L	0.50		109	70-130	3	30	03/19/14		
Benzo(a)pyrene	0.097	0.10	ug/L	0.10		97	70-130	2	30	03/19/14		
Bis(2-ethylhexyl) adipate	3.3	3.0	ug/L	3.0		111	70-130	0	30	03/19/14		
Bis(2-ethylhexyl) phthalate	4.0	3.0	ug/L	3.0		132	70-130	2	30	03/19/14	BS	***High***
Bromacil	2.4	10	ug/L	2.0		122	70-130	8	30	03/19/14		
Butachlor	1.3	0.38	ug/L	1.2		105	70-130	0	30	03/19/14		
Diazinon	0.049	0.25	ug/L	0.050		98	70-130	12	30	03/19/14		
Dimethoate	0.53	10	ug/L	0.50		105	70-130	11	30	03/19/14		
Metolachlor	2.7	0.50	ug/L	2.5		108	70-130	2	30	03/19/14		
Metribuzin	3.1	0.50	ug/L	2.5		122	70-130	0	30	03/19/14		
Molinate	2.8	2.0	ug/L	2.5		110	70-130	6	30	03/19/14		
Prometryn	0.61	2.0	ug/L	0.50		122	70-130	1	30	03/19/14		
Propachlor	2.8	0.50	ug/L	2.5		113	70-130	2	30	03/19/14		
Simazine	0.40	1.0	ug/L	0.35		115	70-130	6	30	03/19/14		
Thiobencarb	0.56	1.0	ug/L	0.50		113	70-130	1	30	03/19/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.5*			*5.0*		*109*	*70-130*			03/19/14		
Matrix Spike (A403279-MS1), Source: A4C1103-01												
Alachlor	0.52	1.0	ug/L	0.49	ND	106	70-130			03/19/14		
Atrazine	0.52	0.50	ug/L	0.49	ND	106	70-130			03/19/14		
Benzo(a)pyrene	0.097	0.10	ug/L	0.098	ND	99	70-130			03/19/14		
Bis(2-ethylhexyl) adipate	3.5	3.0	ug/L	3.0	ND	118	70-130			03/19/14		
Bis(2-ethylhexyl) phthalate	4.1	3.0	ug/L	3.0	ND	114	70-130			03/19/14		
Bromacil	2.6	10	ug/L	2.0	ND	122	70-130			03/19/14		
Butachlor	1.4	0.38	ug/L	1.2	ND	111	70-130			03/19/14		
Diazinon	0.049	0.25	ug/L	0.049	ND	100	70-130			03/19/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A403279										Prepared: 03/18/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Matrix Spike (A403279-MS1), Source: A4C1103-01											
Dimethoate	0.54	10	ug/L	0.49	ND	111	70-130			03/19/14	
Metolachlor	2.6	0.50	ug/L	2.5	ND	107	70-130			03/19/14	
Metribuzin	3.0	0.50	ug/L	2.5	ND	122	70-130			03/19/14	
Molinate	2.6	2.0	ug/L	2.5	ND	105	70-130			03/19/14	
Prometryn	0.59	2.0	ug/L	0.49	ND	120	70-130			03/19/14	
Propachlor	2.7	0.50	ug/L	2.5	ND	110	70-130			03/19/14	
Simazine	0.40	1.0	ug/L	0.34	ND	115	70-130			03/19/14	
Thiobencarb	0.56	1.0	ug/L	0.49	ND	113	70-130			03/19/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.9*			*4.9*		*100*	*70-130*			03/19/14	
EPA 531.1 - Quality Control											
Batch: A403175										Prepared: 03/14/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A403175-BLK1)											
3-Hydroxycarbofuran	ND	3.0	ug/L							03/14/14	
Aldicarb	ND	3.0	ug/L							03/14/14	
Aldicarb Sulfone	ND	2.0	ug/L							03/14/14	
Aldicarb Sulfoxide	ND	3.0	ug/L							03/14/14	
Carbaryl	ND	5.0	ug/L							03/14/14	
Carbofuran	ND	5.0	ug/L							03/14/14	
Methiocarb	ND	2.0	ug/L							03/14/14	
Methomyl	ND	2.0	ug/L							03/14/14	
Oxamyl	ND	20	ug/L							03/14/14	
Propoxur	ND	2.0	ug/L							03/14/14	
Blank Spike (A403175-BS1)											
3-Hydroxycarbofuran	4.4	3.0	ug/L	4.0		109	80-120			03/14/14	
Aldicarb	4.0	3.0	ug/L	4.0		101	80-120			03/14/14	
Aldicarb Sulfone	4.3	2.0	ug/L	4.0		106	80-120			03/14/14	
Aldicarb Sulfoxide	4.2	3.0	ug/L	4.0		104	80-120			03/14/14	
Carbaryl	4.3	5.0	ug/L	4.0		107	80-120			03/14/14	
Carbofuran	4.3	5.0	ug/L	4.0		108	80-120			03/14/14	
Methiocarb	4.3	2.0	ug/L	4.0		107	80-120			03/14/14	
Methomyl	4.2	2.0	ug/L	4.0		104	80-120			03/14/14	
Oxamyl	4.2	20	ug/L	4.0		105	80-120			03/14/14	
Propoxur	4.2	2.0	ug/L	4.0		106	80-120			03/14/14	
Blank Spike Dup (A403175-BSD1)											
3-Hydroxycarbofuran	3.8	3.0	ug/L	4.0		95	80-120	14	20	03/14/14	
Aldicarb	3.5	3.0	ug/L	4.0		87	80-120	15	20	03/14/14	
Aldicarb Sulfone	3.8	2.0	ug/L	4.0		94	80-120	12	20	03/14/14	
Aldicarb Sulfoxide	3.8	3.0	ug/L	4.0		94	80-120	10	20	03/14/14	
Carbaryl	3.9	5.0	ug/L	4.0		97	80-120	10	20	03/14/14	
Carbofuran	3.8	5.0	ug/L	4.0		95	80-120	13	20	03/14/14	
Methiocarb	3.7	2.0	ug/L	4.0		93	80-120	14	20	03/14/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A403175										Prepared: 03/14/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank Spike Dup (A403175-BSD1)											
Methomyl	3.7	2.0	ug/L	4.0		93	80-120	11	20	03/14/14	
Oxamyl	3.7	20	ug/L	4.0		93	80-120	12	20	03/14/14	
Propoxur	3.7	2.0	ug/L	4.0		93	80-120	13	20	03/14/14	
Matrix Spike (A403175-MS1), Source: A4C1026-01											
3-Hydroxycarbofuran	4.1	3.0	ug/L	4.0	ND	102	65-135			03/14/14	
Aldicarb	4.0	3.0	ug/L	4.0	ND	99	65-135			03/14/14	
Aldicarb Sulfone	4.0	2.0	ug/L	4.0	ND	100	65-135			03/14/14	
Aldicarb Sulfoxide	3.9	3.0	ug/L	4.0	ND	97	65-135			03/14/14	
Carbaryl	4.0	5.0	ug/L	4.0	ND	99	65-135			03/14/14	
Carbofuran	3.8	5.0	ug/L	4.0	ND	96	65-135			03/14/14	
Methiocarb	3.9	2.0	ug/L	4.0	ND	98	65-135			03/14/14	
Methomyl	4.1	2.0	ug/L	4.0	ND	102	65-135			03/14/14	
Oxamyl	4.0	20	ug/L	4.0	ND	101	65-135			03/14/14	
Propoxur	4.0	2.0	ug/L	4.0	ND	95	65-135			03/14/14	
EPA 547 - Quality Control											
Batch: A403209										Prepared: 03/17/2014	
Prep Method: EPA 547										Analyst: RJB	
Blank (A403209-BLK1)											
Glyphosate	ND	25	ug/L							03/17/14	
Surrogate: AMPA	*100*			*100*		*103*	*70-130*			03/17/14	
Blank Spike (A403209-BS1)											
Glyphosate	110	25	ug/L	100		111	70-130			03/17/14	
Surrogate: AMPA	*100*			*100*		*105*	*70-130*			03/17/14	
Blank Spike Dup (A403209-BSD1)											
Glyphosate	120	25	ug/L	100		116	70-130	4	30	03/17/14	
Surrogate: AMPA	*110*			*100*		*110*	*70-130*			03/17/14	
Matrix Spike (A403209-MS1), Source: A4C0842-02											
Glyphosate	110	25	ug/L	100	ND	112	70-130			03/17/14	
Surrogate: AMPA	*110*			*100*		*103*	*70-130*			03/17/14	
Matrix Spike Dup (A403209-MSD1), Source: A4C0842-02											
Glyphosate	110	25	ug/L	100	ND	108	70-130	4	30	03/17/14	
Surrogate: AMPA	*100*			*100*		*100*	*70-130*			03/17/14	
EPA 548.1 - Quality Control											
Batch: A403241										Prepared: 03/17/2014	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A403241-BLK1)											
Endothall	ND	45	ug/L							03/18/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 548.1 - Quality Control											
Batch: A403241										Prepared: 03/17/2014	
Prep Method: EPA 548.1										Analyst: KHH	
Blank Spike (A403241-BS1)											
Endothall	14	45	ug/L	20		72	60-111			03/18/14	
Blank Spike Dup (A403241-BSD1)											
Endothall	15	45	ug/L	20		75	60-111	5	46	03/18/14	
Matrix Spike (A403241-MS1), Source: A4C1103-01											
Endothall	ND	45	ug/L	20	ND	0	10-122			03/18/14	MS1.0 ***Low***
EPA 549.2 - Quality Control											
Batch: A403185										Prepared: 03/15/2014	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A403185-BLK1)											
Diquat	ND	4.0	ug/L							03/19/14	
Blank Spike (A403185-BS1)											
Diquat	3.3	4.0	ug/L	4.0		83	70-130			03/19/14	
Blank Spike Dup (A403185-BSD1)											
Diquat	3.4	4.0	ug/L	4.0		85	70-130	3	30	03/19/14	
Matrix Spike (A403185-MS1), Source: A4C1015-03											
Diquat	3.3	4.0	ug/L	4.0	ND	82	70-130			03/19/14	
Matrix Spike (A403185-MS2), Source: A4C1015-04											
Diquat	3.3	4.0	ug/L	4.0	ND	81	70-130			03/19/14	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of Oregon - NELAP	4021	State of Washington	C997
State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA

BSK is not accredited under the NELAC program for the following parameters: **NA**

A4C1132

Monterey Bay Analytical

Monte6227

03142014

Turnaround: Standard

Due Date: 3/21/2014

Printed: 3/14/2014 4:50:30PM

A4C1132
Monte6227

03/14/2014
5

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street, Fresno, CA 93706-1623
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

* Required Fields

TEMP: 4.9

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Monterey Bay Analytical	David Holland	(831)-357-6227	(831)-641-0734

E-mail: 4MBAS@Sbcglobal.net

Address *	City *	State *	Zip *
4 Justin Ct.	Monterey	CA	93940

Project Information: Cal Am

PO #

Quote # 464

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: Josh Sobolew

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☑ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☑ System No. *

ANALYSIS REQUESTED

Matrix Types: RSW = Raw Surface Water, CFW = Clorinated Finished Water, CWW = Chorinated Waste Water, BW = Bottled Water, RGW = Raw Ground Water, FW = Finished Water, WW = Waste Water, SW = Storm Water, DW = Drinking Water, SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 504	EPA 515	EPA 524 inc MTBE	EPA 525	EPA 531	EPA 547	EPA 548	EPA 549
1	13	3/11/14	15:45	CX-B2WQ Zone #3 (104-114 ft bgs)	RGW	12792	✓	✓	✓	✓	✓	✓	✓	✓
				5 day TAT please										
				Conductivity 40173 uS/cm										

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
David Holland	MBAS	3/13/14	1200		

Received for Lab by: (Signature and Printed Name)	Date	Time	Payment Received at Delivery:
Sandy Bar	3/14/14	0930	Date: Amount: Check/Cash/Card PIA # Init.

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material: BW / Paper / Foam

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/re-billing charges and interest calculated at 1 1/2 % per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorneys' fees incurred prior to or in litigation whether concluded by judgement, settlement, compromise or otherwise. The person signing for the client/Company expressley acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis requested, either type or quantities, will be noted and agreed upon this Chain of Custody. The turn around time for any samples received after 3:00 pm will begin the next business day.

SR-FL-0012-00 (Analytical)

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received — "—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—	1					
None (P) White Cap	—	—						
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—						
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—		SRB				
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—	2A,2C					
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2A,2C					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	4V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

2 vows have small air bubbles SRB 3/14/14

Labeled by: JHD @ 1221 Labels checked by: G-521 NA @ 1248 RUSH Paged by:

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

CERTIFICATE OF ANALYSIS

Client:	Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940	**Report Date:**	03/21/14 16:22
		Received Date:	03/14/14 09:20
		Turn Around:	5 workdays
Attention:	David Holland	**Client Project:**	Cal Am
Phone:	(831) 375-6227		
Fax:	(831) 641-0734		
Work Order(s):	4C14027		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

Enclosed are the results of analyses for samples received 03/14/14 09:20 with the Chain of Custody document. The samples were received in good condition, at 3.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/14/14 09:20
Date Reported: 03/21/14 16:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CX-B2WQ Zone #3 (104-114 Ft bgs)	Josh Soboleu	12792	4C14027-01	Water	03/11/14 15:45

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Chlorinated Pesticides and/or PCBs

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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/14/14 09:20
Date Reported: 03/21/14 16:22

4C14027-01 **CX-B2WQ Zone #3 (104-114 Ft bgs)**

Sampled: 03/11/14 15:45 **Sampled By:** Josh Soboleu **Matrix:** Water

Sample Note: 12792

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 9056A Batch: W4C0833 Prepared: 03/15/14 10:30 Analyst: Alice T. Lee

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Iodide	ND	250	ug/l	25	03/15/14 15:05	M-02

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4C0838 Prepared: 03/15/14 12:16 Analyst: Maxwell Wang

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND	0.010	ug/l	1	03/19/14 11:34	
4,4´-DDE	ND	0.010	ug/l	1	03/19/14 11:34	
4,4´-DDT	ND	0.010	ug/l	1	03/19/14 11:34	
Aldrin	ND	0.010	ug/l	1	03/19/14 11:34	
alpha-BHC	ND	0.010	ug/l	1	03/19/14 11:34	
Aroclor 1016	ND	0.10	ug/l	1	03/19/14 02:06	
Aroclor 1221	ND	0.10	ug/l	1	03/19/14 02:06	
Aroclor 1232	ND	0.10	ug/l	1	03/19/14 02:06	
Aroclor 1242	ND	0.10	ug/l	1	03/19/14 02:06	
Aroclor 1248	ND	0.10	ug/l	1	03/19/14 02:06	
Aroclor 1254	ND	0.10	ug/l	1	03/19/14 02:06	
Aroclor 1260	ND	0.10	ug/l	1	03/19/14 02:06	
beta-BHC	ND	0.010	ug/l	1	03/19/14 11:34	
Chlordane (tech)	ND	0.10	ug/l	1	03/19/14 02:06	
Chlorothalonil	ND	0.050	ug/l	1	03/19/14 02:06	
delta-BHC	ND	0.010	ug/l	1	03/19/14 11:34	
Dieldrin	ND	0.010	ug/l	1	03/19/14 11:34	
Endosulfan I	ND	0.010	ug/l	1	03/19/14 11:34	
Endosulfan II	ND	0.010	ug/l	1	03/19/14 11:34	
Endosulfan sulfate	ND	0.010	ug/l	1	03/19/14 11:34	
Endrin	ND	0.010	ug/l	1	03/19/14 11:34	
Endrin aldehyde	ND	0.010	ug/l	1	03/19/14 11:34	
gamma-BHC (Lindane)	ND	0.010	ug/l	1	03/19/14 11:34	
Heptachlor	ND	0.010	ug/l	1	03/19/14 11:34	
Heptachlor epoxide	ND	0.010	ug/l	1	03/19/14 11:34	
Hexachlorobenzene	ND	0.010	ug/l	1	03/19/14 02:06	
Hexachlorocyclopentadiene	ND	0.050	ug/l	1	03/19/14 02:06	
Methoxychlor	ND	0.010	ug/l	1	03/19/14 11:34	
PCBs, Total	ND	0.50	ug/l	1	03/19/14 02:06	
Propachlor	ND	0.050	ug/l	1	03/19/14 02:06	
Toxaphene	ND	1.0	ug/l	1	03/19/14 02:06	
Trifluralin	ND	0.010	ug/l	1	03/19/14 02:06	
Surr: Decachlorobiphenyl	*76 %*	Conc:*0.0727* *70-130*	%			
Surr: Tetrachloro-meta-xylene	*118 %*	Conc:*0.112* *70-130*	%			

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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/14/14 09:20
Date Reported: 03/21/14 16:22

4C14027-01 **CX-B2WQ Zone #3 (104-114 Ft bgs)**

Sampled: 03/11/14 15:45 **Sampled By:** Josh Soboleu **Matrix:** Water

Sample Note: 12792

Chlorinated Pesticides and/or PCBs

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/14/14 09:20
Date Reported: 03/21/14 16:22

QUALITY CONTROL SECTION

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Date Received: 03/14/14 09:20
Date Reported: 03/21/14 16:22

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4C0833 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0833-BLK1)				Analyzed: 03/15/14 15:05						
Iodide	ND	10	ug/l							
LCS (W4C0833-BS1)				Analyzed: 03/15/14 15:05						
Iodide	40.2	10	ug/l	40.0		101	85-115			
Matrix Spike (W4C0833-MS1)	**Source: 4C11006-01**			Analyzed: 03/15/14 15:05						
Iodide	1090	250	ug/l	1000	ND	109	80-120			
Matrix Spike Dup (W4C0833-MSD1)	**Source: 4C11006-01**			Analyzed: 03/15/14 15:05						
Iodide	931	250	ug/l	1000	ND	93	80-120	15	20	

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0838 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0838-BLK1)				Analyzed: 03/18/14 22:01						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							

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Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0838 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0838-BLK1)				Analyzed: 03/18/14 22:01						
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							
Surr: Decachlorobiphenyl	*0.0894*		*ug/l*	*0.100*		*89*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0785*		*ug/l*	*0.100*		*78*	*70-130*			
LCS (W4C0838-BS1)				Analyzed: 03/19/14 09:01						
4,4´-DDD	0.0875	0.010	ug/l	0.100		88	55-142			
4,4´-DDE	0.0976	0.010	ug/l	0.100		98	49-129			
4,4´-DDT	0.103	0.010	ug/l	0.100		103	54-160			
Aldrin	0.0787	0.010	ug/l	0.100		79	29-115			
alpha-BHC	0.0900	0.010	ug/l	0.100		90	59-131			
beta-BHC	0.0881	0.010	ug/l	0.100		88	63-136			
delta-BHC	0.105	0.010	ug/l	0.100		105	59-137			
Dieldrin	0.0934	0.010	ug/l	0.100		93	59-135			
Endosulfan I	0.0787	0.010	ug/l	0.100		79	28-138			
Endosulfan II	0.0792	0.010	ug/l	0.100		79	53-133			
Endosulfan sulfate	0.0837	0.010	ug/l	0.100		84	58-155			
Endrin	0.0857	0.010	ug/l	0.100		86	57-148			
Endrin aldehyde	0.0801	0.010	ug/l	0.100		80	45-139			
gamma-BHC (Lindane)	0.0846	0.010	ug/l	0.100		85	59-129			
Heptachlor	0.0893	0.010	ug/l	0.100		89	42-136			
Heptachlor epoxide	0.0884	0.010	ug/l	0.100		88	59-134			
Methoxychlor	0.0725	0.010	ug/l	0.100		72	56-167			
Surr: Decachlorobiphenyl	*0.0927*		*ug/l*	*0.100*		*93*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0749*		*ug/l*	*0.100*		*75*	*70-130*			
LCS Dup (W4C0838-BSD1)				Analyzed: 03/18/14 23:02						
4,4´-DDD	0.0880	0.010	ug/l	0.100		88	55-142	0.5	25	
4,4´-DDE	0.0902	0.010	ug/l	0.100		90	49-129	8	25	
4,4´-DDT	0.103	0.010	ug/l	0.100		103	54-160	0.4	25	
Aldrin	0.0739	0.010	ug/l	0.100		74	29-115	6	25	
alpha-BHC	0.0857	0.010	ug/l	0.100		86	59-131	5	25	
beta-BHC	0.0829	0.010	ug/l	0.100		83	63-136	6	25	
delta-BHC	0.0995	0.010	ug/l	0.100		100	59-137	6	25	
Dieldrin	0.0892	0.010	ug/l	0.100		89	59-135	5	25	
Endosulfan I	0.0723	0.010	ug/l	0.100		72	28-138	8	25	
Endosulfan II	0.0775	0.010	ug/l	0.100		78	53-133	2	25	
Endosulfan sulfate	0.0866	0.010	ug/l	0.100		87	58-155	3	25	
Endrin	0.0725	0.010	ug/l	0.100		72	57-148	17	25	
Endrin aldehyde	0.0658	0.010	ug/l	0.100		66	45-139	20	25	
gamma-BHC (Lindane)	0.0858	0.010	ug/l	0.100		86	59-129	1	25	
Heptachlor	0.0845	0.010	ug/l	0.100		85	42-136	6	25	
Heptachlor epoxide	0.0847	0.010	ug/l	0.100		85	59-134	4	25	
Methoxychlor	0.0822	0.010	ug/l	0.100		82	56-167	13	25	
Surr: Decachlorobiphenyl	*0.0893*		*ug/l*	*0.100*		*89*	*70-130*			

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Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0838 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W4C0838-BSD1)				Analyzed: 03/18/14 23:02						
Surr: Tetrachloro-meta-xylene	*0.0761*		*ug/l*	*0.100*		*76*	*70-130*			

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Notes and Definitions

M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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http://www.MBASinc.com

pH QC Summary (SM 4500 H+)

Date Analyzed: 3/12/2014

	Value (pH Units)	Result (pH Units)	% Rec	Acceptance Criteria %Rec
IPC	6.86	6.91	100.7	95-105

Sample ID	Sample (pH Units)	Sample Dup (pH Units)	% RPD	Acceptance Criteria % RPD
AB12869	7.1	7.1	0.0	10
AB12875	7.4	7.4	0.0	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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TDS/TSS QC Summary (SM 2540C/D)

Date Analyzed: 3/13/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC 100	100	111	111	80-120
IPC 500	500	503	100.6	90-110

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12695	ND	ND	0.0	10
AB12775	437	434	0.7	10
AB12817	131	137	4.5	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Differer

ıce; Rec = Recovery

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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 3/13/2014

	Value (NTU)	Result (NTU)	% Rec	Acceptance Criteria %Rec
IPC	1.00	1.04	104.0	95-105
IPC	1.00	0.97	97.1	95-105

Sample ID	Sample (NTU)	Sample Dup (NTU)	% RPD	Acceptance Criteria % RPD
AB12871	0.770	0.776	-0.01	10
AB12896	1.490	1.630	-0.09	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

EPA 200.7 QC

Batch # 20140313

Analyte/		IC	Prep	LCS	%Rec	LCSD	%Rec	%Diff	IC Verification			QCS (95-105%)		
WL	Range	Blank	Blank	Value	85-115%	Value	85-115%		Value	Result	%Rec	Value	Result	%Rec
B 249.678	0.05-5ppm	0.01	0.00	1.00	100.4%	1.03	103.1%	2.7%	1	1.02	101.5%	1	0.98	97.8%
B 249.772	0.05-5ppm	0.01	0.01	1.01	100.7%	1.03	103.0%	2.3%	1	1.02	102.0%	1	0.99	98.6%
Ca 317.933	50-300ppm	-5.25	-5.24	49.3	98.5%	50.3	100.7%	2.2%	50	49.5	99.0%	50	48.7	97.4%
Ca 396.847	0.5-50ppm	-0.15	-0.14	49.8	99.7%	50.3	100.6%	0.9%	50	50.2	100.4%	50	48.8	97.6%
Fe 238.204	10ppb-100ppm	-0.64	0.19	998	99.8%	1014	101.4%	1.6%	1000	1003	100.3%	1000	992	99.2%
Fe 259.940	10ppb-100ppm	0.30	-0.50	995	99.5%	1013	101.3%	1.8%	1000	1001	100.1%	1000	993	99.3%
K 766.491	0.5-750ppm	0.20	0.13	9.9	98.6%	10.0	100.4%	1.8%	10	10.0	100.5%	10	9.8	98.0%
Mg 202.582	50-1000ppm	-1.81	-1.83	50.2	100.4%	51.3	102.5%	2.2%	50	50.8	101.6%	50	49.7	99.4%
Mg 279.078	0.5-50ppm	0.04	0.02	48.9	97.8%	50.2	100.4%	2.6%	50	49.8	99.7%	50	49.0	97.9%
Mn 257.610	10ppb-11ppm	-4.82	-5.60	995	99.5%	1016	101.6%	2.1%	1000	1001	100.1%	1000	979	97.9%
Mn 260.568	10ppb-11ppm	-5.16	-5.50	993	99.3%	1012	101.2%	1.9%	1000	999	99.9%	1000	978	97.8%
Na 568.821	50-1000ppm	4.56	4.98	48.4	96.9%	48.9	97.8%	0.9%	50	48.0	95.9%	50	47.3	94.5%
Na 589.592	0.5-50ppm	0.25	0.17	49.6	99.1%	50.2	100.4%	1.3%	50	50.0	100.0%	50	48.6	97.3%
Si 251.611	0.5-200ppm	0.09	0.05	50.0	100.0%	50.9	101.8%	1.7%	50	50.6	101.3%	107	105.5	98.6%
Si 252.411	0.5-200ppm	0.08	0.02	49.7	99.3%	50.7	101.4%	2.1%	50	50.5	100.9%	107	105.3	98.4%

Sample ID AB12759

Analyte/	Sample	MS	%Rec	MSD	%Rec	%Diff	CCV (90-110%)			%Diff	CC
WL	Value	Value	70-130%	Value	70-130%		Value	Result	%Rec	10%	Blank
B 249.678	0.00	0.97	96.6%	0.98	97.6%	1.1%	1	0.97	96.7%	4.8%	-0.01
B 249.772	0.01	0.97	96.7%	0.98	97.5%	0.8%	1	0.96	96.5%	5.6%	0.00
Ca 317.933	30.0	81.6	103.3%	81.1	102.3%	0.6%	50	47.9	95.8%	3.4%	-5.26
Ca 396.847	31.6	73.7	84.2%	73.2	83.1%	0.7%	50	46.4	92.9%	7.8%	-0.17
Fe 238.204	3	994	99.1%	976	97.3%	1.8%	1000	969	96.9%	3.5%	-1.27
Fe 259.940	4	986	98.2%	967	96.4%	1.9%	1000	953	95.3%	5.0%	-1.91
K 766.491	2.9	12.0	91.8%	11.9	90.7%	0.9%	10	9.3	92.7%	8.1%	0.07
Mg 202.582	8.4	57.7	98.6%	57.9	99.0%	0.3%	50	47.8	95.5%	6.1%	-1.85
Mg 279.078	9.7	57.0	94.5%	57.2	95.0%	0.4%	50	47.7	95.3%	4.5%	0.02
Mn 257.610	-5	954	95.9%	960	96.5%	0.6%	1000	953	95.3%	5.0%	-5.16
Mn 260.568	-4	964	96.8%	962	96.6%	0.2%	1000	957	95.7%	4.3%	-5.22
Na 568.821	39.1	80.5	82.8%	83.1	88.0%	3.2%	50	45.3	90.6%	5.7%	4.82

Na 589.592	41.5	86.4	89.8%	85.5	88.0%	1.0%	50	46.4	92.7%	7.5%	0.17
Si 251.611	40.8	86.8	91.8%	87.4	93.1%	0.7%	50	48.2	96.5%	4.9%	-0.04
Si 252.411	40.6	86.7	92.2%	87.1	93.1%	0.5%	50	48.1	96.3%	4.7%	-0.04

300.0 QC Summary

All units expressed in mg/L

		F	Cl	NO2-N	SO4	Br	NO3-N
		2	20	2	20	2	2
IPC		2.25	19.68	2.07	18.86	2.11	1.99
Recovery	90-110%	112.49	98.38	103.63	94.31	105.41	99.33
CCV1		2.44	20.04	2.09	19.13	2.11	2.00
Recovery	90-110%	122.11	100.20	104.34	95.67	105.54	99.88
RPD	10%	8.20	1.83	0.69	1.43	0.12	0.56
CCV2		2.16	19.62	2.09	19.00	2.10	1.98
Recovery	90-110%	108.15	98.10	104.59	94.98	105.07	99.22
RPD	10%	3.93	0.29	0.92	0.71	0.32	0.11
AB12880		0.28	143.60	0.12	289.58	0.18	23.93
AB12880+LFM		2.45	164.85	1.93	311.15	1.83	26.17
AB12880+LFMD		2.48	164.58	1.93	311.26	1.85	26.15
Average		2.47	164.71	1.93	311.21	1.84	26.16
Recovery	80-120%	109.39	105.58	90.57	108.12	83.36	111.70
RPD	10%	1.21	0.08	0.05	0.02	0.50	0.03
AB12890		0.22	23.67	0.45	125.80	0.00	25.36
AB12890+LFM		2.42	43.76	2.24	144.83	1.66	27.62
AB12890+LFMD		2.42	43.92	2.25	144.95	1.66	27.42
Average		2.42	43.84	2.25	144.89	1.66	27.52
Recovery	80-120%	109.99	100.86	90.08	95.42	82.99	107.99
RPD	10%	0.20	0.19	0.26	0.04	0.20	0.37

PO4-P
2
1.93
96.65
1.96
98.06
1.45
1.96
97.78
1.17
0.00
1.35
1.34
1.35
67.27
0.12
0.00
1.53
1.53
1.53
76.48
0.15

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Phosphorus QC Summary (Hach 8190)

Date: 3/14/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
LCS	0.200	0.209	104.5	90-110
QCS	0.200	0.211	105.5	90-110
CCV	0.200	0.218	109	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12792	0.000	0.200	0.161	0.154	80.5	77	4.4	85-120	10

Note: possible matrix interference observed. Data accepted based on LCS, QCS, and CCV recoveries.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 3/14/2014

	Value (umhos/cm)	Result (umhos/cm)	% Rec	Acceptance Criteria %Rec
IPC	1412	1412	100.0%	95-105

Sample ID	Sample (umhos/cm)	Sample Dup (umhos/cm)	% RPD	Acceptance Criteria % RPD
AB12816	37640	37400	0.6%	10
AB12872	993	987	0.6%	10
AB12882	1064	1072	0.7%	10
AB12892	878	881	0.3%	10
AB12910	578	570	1.4%	10
AB12920	1338	1319	1.4%	10
AB12923	1765	1760	0.3%	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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TDS/TSS QC Summary (SM 2540C/D)

Date Analyzed: 3/14/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC 100	100	100	100	80-120
IPC 500	500	494	98.8	90-110

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12905	546	540	1.1	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

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MontereyBayAnalytical@usa.net
http://www.MBASinc.com

Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 3/17/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	5.0	5.200	104	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12627	2.400	5.000	7.200	7.300	96	98	1.4	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

QC Summary for 200.8

Spiked Sample

ID AB12763

Date Analyzed

Monday, March 17, 2014

	IPC Blank	QCS 50	Prep Blank	LCS	LCSD	LCS/LCSD	Sample	Spiked	MS	MSD	MS-MSD	LFB	LFB	LFB-LFBD	IPC Blank
	ug/L	%Rec.	ug/L	% Rec	%Rec	%RPD	ug/L	ug/L	%Rec.	% Rec.	% RPD	% Rec	% Rec	% RPD	ug/L
		85-115%		70-130%	70-130%	20%			70-130%	70-130%	20%	85-115%	85-115%	20%	
Lithium	0.01	101.6	0.07	112.3	117.0	4.09	1.0	50	120.2	111.9	7.15	99.4	111.2	11.21	0.03
Aluminum	-0.17	105.0	1.81	102.7	103.0	0.32	9.8	50	114.9	104.6	9.43	104.2	103.8	0.42	-0.11
Nickel	-0.01	98.5	0.05	98.1	100.4	2.36	-0.1	50	96.2	90.7	5.96	99.3	93.6	5.92	-0.02
Copper	-0.01	99.0	1.35	103.8	106.9	2.96	1.0	50	101.0	94.5	6.64	99.2	98.6	0.70	0.12
Zinc	-0.14	115.3	10.44	117.9	116.5	1.15	25.9	50	107.8	139.1	25.38	98.7	105.4	6.56	1.20
Arsenic	-0.02	97.7	-0.44	105.4	106.1	0.66	0.4	50	113.3	112.2	0.96	100.5	105.4	4.74	-0.09
Selenium	0.08	103.4	-0.04	105.3	108.1	2.61	2.4	250	121.1	117.9	2.73	101.6	106.9	5.06	0.03
Strontium	0.00	104.6	0.13	105.9	107.0	1.10	1.4	50	107.3	102.4	4.73	99.6	102.9	3.25	0.00
Molybdenum	0.01	97.5	0.02	98.8	98.6	0.21	0.1	50	95.2	90.9	4.68	99.2	90.0	9.70	0.01
Barium	0.00	99.1	0.07	98.2	98.6	0.45	0.7	50	97.8	93.4	4.66	100.0	94.5	5.73	-0.01

MS = Matrix Spike MSD = Matrix Spike Duplicate; LFB = Laboratory Fortified Blank; LFBD = Laboratory Fortified Blank Duplicate RPD = Relative Percent Difference

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Alkalinity QC Summary (SM 2320B)

Date Analyzed: 3/192014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	40	40.1	100.25	95-105
IPC	40	40.5	101.25	95-105
IPC	40	40.5	101.25	95-105
IPC	40	40.5	101.25	95-105
IPC	40	40.7	101.75	95-105

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12790	247.7	248.3	0.24	10
AB12870	241.1	241.5	0.17	10
AB12880	272.5	271.9	0.22	10
AB12890	191.1	191.7	0.31	10
AB12908	1.1	1.1	0.00	10
AB12918	306.1	304.3	0.59	10
AB12965	232.5	231.3	0.52	10
AB12975	203.3	204.1	0.39	10
AB13078	370.5	360.5	2.74	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 3/21/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC (Low)	0.050	0.0451	90.2	90-110
IPC (High)	0.500	0.461	92.2	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB13151	0.009	0.500	0.406	0.439	79.4	86.0	7.8	85-120	10

Note: The MS and MSD does not meet the acceptance criteria for the recovery percent. The data is accepted because the recovery percent for the IPC (Low) and IPC (High) meet the acceptance criteria.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check
RPD = Relative Percent Difference; Rec = Recovery

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Phosphorus QC Summary (Hach 8190)

Date: 3/21/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
LCS	0.200	0.214	107	90-110
QCS	0.200	0.185	92.5	90-110
CCV	0.200	0.216	108	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12896	0.050	0.200	0.267	0.268	108.5	109	0.4	85-120	10

Note: possible matrix interference observed. Data accepted based on LCS, QCS, and CCV recoveries.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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MBAS QC Summary (SM 5540C)

Date Analyzed: 3/13/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	0.050	0.042	84	80-120
IPC	0.500	0.491	98.2	80-120
IPC	0.050	0.059	118	80-120

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

March 15, 2014 Ceres ID: 10292

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on March 13, 2014. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613. **Rush** 5 day turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # 12792.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (888)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
10292-001	CX-B2WQ Zone #3	3/13/2014	3/11/2014	15:45

Section II: Data Summary

Sample ID:	**Method Blank**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-MB001 — Date Received: NA
Project:	12792	Sample Size: 1.000 L	QC Batch #: 1165 — Date Extracted: 13-Mar-14
Date Collected:	NA		ZB-5 MS Analysis Date: 14-Mar-14
Time Collected:	NA		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	3.25		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	104	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	104	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Sample ID:	**Ongoing Precision and Recovery**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-OPR001 — Date Received: NA
Project:	12792	Sample Size: 1.000 L	QC Batch #: 1165 — Date Extracted: 13-Mar-14
Date Collected:	NA		ZB-5 MS Analysis Date: 14-Mar-14
Time Collected:	NA		

Analyte	Conc. (ng/ml)	Limits [a]	Qualifiers
2,3,7,8-TCDD	9.24	7.3-14.6	

	Labeled Standards	Conc.	Limits [a]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	104	25-141	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	9.88	3.7-15.8	

a. Method acceptance criteria .

Analyst: JMH

Reviewed by: BS

Sample ID:	CX-B2WQ Zone #3		
Client Data		**Sample Data**	
Name:	Monterey Bay Analytical	Matrix:	Aqueous
Project:	12792	Sample Size:	1.055 L
Date Collected:	11-Mar-14		
Time Collected:	15:45		

Laboratory Data			
Lab Sample ID:	10292-001	Date Received:	13-Mar-14
QC Batch #:	1165	Date Extracted:	13-Mar-14
ZB-5 MS Analysis Date:	14-Mar-14		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	2.94		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	99.0	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	94.2	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Section VI: Sample Tracking

10292

Ceres Analytical Laboratory, Inc.

4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Tel: (916)932-5011

Chain of Custody

Please Print in Pen

Ceres Use Only

Ceres Project ID: 10292
Temperature: 2.8 °C

Pg. Appendix G of

Reports and invoices will be delivered by email in .pdf format

Client Information	Invoice Information (if different from Client Info)	Project Information
Company Name: Monterey Bay Analytical	Company Name: Same	Ceres Quote #:
Contact Name: David Holland	Contact Name:	P.O. #
Address: 4 Justin Court Ste D Monterey CA 93940	Address:	Project ID:
Ph: 831-375-6227	Ph: Fx:	**TAT** (business days)
Email: montereybayanalytical@usa.net	Email:	Std 15 days; Rush TAT available please call

Matrix abreviations:

A: Aqueous	S: Soil	AS: Ash	DW: Drinking Water
E: Effluent	SD: Sediment	C: Clay	SO: Solid
I: Influent	SL: Sludge	CS: Clay Slurry	O: Other (please comment)

TEF: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Sample Collection Date	Sample Collection Time	Matrix	# of containers	EPA 1613	EPA 8290	NCASI 551	EPA 8280	EPA 613	Other	Comments
1	CX-B2WQ Zone #3	3/11/2014	15:45	Aq	1	X						12792
2												(2,3,7,8 TCDD only)
3												5 day Rush Please
4												
5												
6												
7												
8												
9												
10												
11												
12												

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

Relinquished by: *(Signature and Printed Name)*	Date	Time	Received by: *(signature and Printed Name)*	Date	Time
David Holland	3/12/2014	12:00	J M Hedin	3/13/14	09:38

Client understands that all terms desribed in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.

Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

Ceres ID: 10292	Date/Time: 3/13/14 0938
Client Project ID: 12792	Received Temperature: 2.8 °C Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present?	Y / N / NA
List COC discrepancies: 3/13/14	
List Damaged Samples: 3/13/14	

Ceres Analytical Laboratory

Process Request

Ceres ID: 10292 PB: 1165 Sample #s: 1 Due Date: 3/18/14

Matrix (circle one): Drinking Water (Aqueous) Effluent Influent Ash

Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (check one):

- ☐ 1613 2,3,7,8-TCDD
- ☐ 1613 2,3,7,8-TCDD/F
- ☐ 1613 Cl_4-Cl_8
- ☐ 8280 2,3,7,8-TCDD
- ☐ 8280 2,3,7,8-TCDD/F
- ☐ 8280 Appendix IX
- ☐ 8280 Cl_4-Cl_8
- ☐ 8290 2,3,7,8-TCDD
- ☐ 8290 2,3,7,8-TCDD/F
- ☐ 8290 Cl_4-Cl_8
- ☐ NCASI 551

Instructions:

Sample Volume Calculation

Instructions:
1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$Sample\ Volume = (Sample + Bottle\ Wt) - Empty\ Bottle\ Wt.$$

Ceres ID	Sample +Bottle Wt.	Empty Bottle Wt.	Sample Volume
10292-1	1567.62	512.98	1.055 L

Chemist: _____ Date: 3/13/14

Method: ~~301.1~~ 1613 3/13/14
SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Appendix G

Ceres ID	Client ID	Ver.	wt/vol	ISS/PAR chem/date/witness	CSS chem/date/witness	AP	AB/AC	FC	RSS chem/date/witness
0-1165-MB001	Method Blank		1.000 L	3/13/14	3/14/14	NA	3/14/14	NA	3/14/14
0-1165-OPR001	OPR		1.000 L	(A)					
10292-1165-001	CX-B2WQ Zone #3	✓	1.055 L						

Comments: (A) spiked w/ISS

Soxhlet Start: 15:00 3/13/14

Soxhlet Stop: 07:15 3/14/14

Samples Logged out by: 11:00 3/13/14

Samples Returned by: NA

Note samples Depleted: 1

Sample Extracts Storage Location: Box 8

Extracts to Intrument: 10:30 3/14/14

Extracts returned to Storage Location: 09:00 3/15/14

Form M1.0 rev4

Chemist: G560

Effective Date: 7/12/13

Method: 1613
SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Standard	Standard ID	Vol.	Expiration Date
ISS	S031212A	10 µl	3/12/17
NSS	S031212B	10 µl	3/12/17
CSS	S031212C	10 µl	3/12/17
RSS	S031212D	20 µl	3/12/17

Solvents/Solutions/Packing Materials

Name	Amount	Lot #	Exp. Date
Toluene	450ml	PB005770TOL	8/17/14
Hexane	30,30,100,200	53263	8/11/14
Sigel	4g	P020514A	8/5/14
Basicgel	4g	P012014A	7/20/14
Acid gel	8g	P031114A	9/11/14
Acid Al	6g	P031114B	9/11/14
Na_2SO_4	1.5g	P120413A	6/4/14
20% DCM Hex	30ml	L031214A	9/12/14

Form M1.0 rev4

Chemist : [illegible]-561

Effective Date: 7/12/13

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

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montereybayanalytical@usa.net

ELAP Certification Number: 2385

Cal Am Water Company
Travis Peterson
511 Pacific Lodge Road, Suite 100
Pacific Grove, CA 93950

Friday, March 21, 2014

Lab Number: **AB12896**

Collection Date/Time:	3/12/2014	17:15	Sample Collector:	SOBOLEW, J	
Submittal Date/Time:	3/12/2014	18:15	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B2WQ Zone 4 (55-65 Ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
Alkalinity, Total (as CaCO3)	SM2320B	mg/L	**104**		2		3/19/2014	LRH
Aluminum, Total	EPA200.8	ug/L	**204**		200	1000	3/17/2014	SM
Ammonia-N, Dissolved	SM4500NH3 D	mg/L	**0.1**		0.05		3/21/2014	LRH
Arsenic, Total	EPA200.8	ug/L	**55**		20	10	3/17/2014	SM
Barium, Dissolved	EPA200.8	ug/L	**90**	J	200		3/17/2014	SM
Bicarbonate (as HCO3-)	SM2320B	mg/L	**127**		10		3/20/2014	DH
Boron, Dissolved	EPA200.7	mg/L	**2.36**		0.5		3/13/2014	DC
Bromide, Dissolved	EPA300.0	mg/L	**44**		10		3/13/2014	DC
Calcium	EPA200.7	mg/L	**896**		5		3/13/2014	DC
Calcium, Dissolved	EPA200.7	mg/L	**886**		5		3/13/2014	DC
Carbamates by HPLC (EPA 531)	EPA531	ug/L	**Attached (ND)**	E			3/14/2014	BSK
Carbonate as CaCO3	SM2320B	mg/L	**Not Detected**		10		3/20/2014	DH
Chloride, Dissolved	EPA300.0	mg/L	**14464**		100		3/13/2014	DC
Chlorinated Pesticides and PCB (EP	EPA508	ug/L	**Attached (ND)**	E			3/19/2014	WECK
Color, Apparent (Unfiltered)	SM2120B	Color Units	**23**		3	15	3/13/2014	LRH
Copper, Total	EPA200.8	ug/L	**136**		80	1300	3/17/2014	SM
DBCP & EDB	EPA504.1	ug/L	**Attached (ND)**	E			3/19/2014	BSK
Dioxin	EPA-5 1613B	pg/L	**Not Detected**	E			3/19/2014	CERES
Diquat (EPA 549)	EPA549	ug/L	**Attached (ND)**	E			3/19/2014	BSK
Dissolved Anions	Calculation	Meq/L	**449**				3/20/2014	DH
Dissolved Cations	Calculation	Meq/L	**418**				3/20/2014	DH
Endothall	EPA548.1	ug/L	**Attached (ND)**	E			3/18/2014	BSK
Fluoride, Dissolved	EPA300.0	mg/L	**0.5**		0.2		3/13/2014	DC
Glyphosate	EPA547	ug/L	**Attached (ND)**	E			3/17/2014	BSK
Hardness (as CaCO3)	SM2340B/Calc	mg/L	**6405**		10		3/14/2014	DH
Hydroxide	SM2320B	mg/L	**Not Detected**		5		3/20/2014	DH
Iodide	EPA9056M	ug/L	**Attached (ND)**	E	10		3/15/2014	WECK
Iron	EPA200.7	ug/L	**164**		100	300	3/13/2014	DC
Iron, Dissolved	EPA200.7	ug/L	**121**		100	300	3/13/2014	DC
Kjehldahl Nitrogen, Dissolved	SM4500-NH3 B,	mg/L	**Not Detected**		0.5		3/17/2014	HM
Lithium	EPA200.8	ug/L	**164**		20		3/17/2014	SM
Magnesium	EPA200.7	mg/L	**1012**		5		3/13/2014	DC
Magnesium, Dissolved	EPA200.7	mg/L	**1015**		100		3/13/2014	DC
Manganese, Dissolved	EPA200.7	ug/L	**Not Detected**		100	50	3/13/2014	DC
Manganese, Total	EPA200.7	ug/L	**Not Detected**		100	50	3/13/2014	DC

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See Report attachments. T = Temperature Exceedance

Lab Number: **AB12896**

Collection Date/Time:	3/12/2014	17:15	Sample Collector:	SOBOLEW, J	
Submittal Date/Time:	3/12/2014	18:15	Sample ID	GEOSCIENCE	Coliform Designation:

Sample Description: CX-B2WQ Zone 4 (55-65 Ft bgs)

Analyte	Method	Unit	**Result**	Qual	PQL	MCL	Date Analyzed	Analyst:
MBAS (Surfactants)	SM5540C	mg/L	**Not Detected**		0.05	0.50	3/13/2014	DH
Nitrate as NO3	EPA300.0	mg/L	**Not Detected**		2	45	3/13/2014	DC
Nitrate+Nitrite as N	EPA300.0	mg/L	**Not Detected**		0.2		3/13/2014	DC
Nitrite as NO2-N, Dissolved	EPA300.0	mg/L	**Not Detected**		0.2		3/13/2014	DC
Odor Threshold at 60 C	SM2150B	TON	**1**		1	3	3/13/2014	LRH
o-Phosphate-P, Dissolved	Hach 8190	mg/L	**0.05**		0.1		3/21/2014	HC
pH (Field Test)	SM4500-H+B	pH	**7.12**				3/12/2014	JS
pH (Laboratory)	SM4500-H+B	pH (H)	**7.2**				3/12/2014	DH
Phenoxy Acid Herbicides (515.3)	EPA515.3	ug/L	**Attached (ND)**	E			3/15/2014	BSK
Phosphorus, Dissolved	HACH 8190	mg/L	**0.05**		0.03		3/21/2014	HC
Potassium	EPA200.7	mg/L	**227**		5		3/13/2014	DC
Potassium, Dissolved	EPA200.7	mg/L	**226**		1		3/13/2014	DC
QC Ratio TDS/SEC	Calculation		**0.66**				3/17/2014	DH
Reg. Org. Compounds (EPA 525)	EPA525	ug/L	**Attached (ND)**	E			3/19/2014	BSK
Silica as SiO2, Dissolved	EPA200.7	mg/L	**19**		5		3/13/2014	DC
Sodium	EPA200.7	mg/L	**6471**		5		3/13/2014	DC
Sodium, Dissolved	EPA200.7	mg/L	**6536**		5		3/13/2014	DC
Specific Conductance (E.C)	SM2510B	umhos/cm	**40270**		1	900	3/14/2014	HM
Specific Conductance (E.C) (Field)	SM2510B	umhos/cm	**39657**		1		3/12/2014	JS
Strontium, Dissolved	EPA200.8	ug/L	**9966**		100		3/17/2014	SM
Sulfate	EPA300.0	mg/L	**1822**		100	250	3/13/2014	DC
Temperature (Field)	SM2550	° C	**17.8**				3/12/2014	JS
Total Cations	Calculations	Meq/L	**415**				3/20/2014	DH
Total Diss. Solids	SM2540C	mg/L	**26700**		10	500	3/14/2014	HM
Turbidity	EPA180.1	NTU	**1.5**		0.05	5.0	3/13/2014	LRH
Turbidity (Field)	EPA180.1	NTU	**0.63**		0.05		3/12/2014	JS
Volatile Org. Compounds (524)	EPA524	ug/L	**Attached (ND)**	E			3/19/2014	BSK
Zinc, Total	EPA200.8	ug/L	**356**		200	5000	3/17/2014	SM

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level

H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See Report attachments. T = Temperature Exceedance

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **12896 CXB2WQ Zone 4 Total**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	6471	0.04350	281.49
Potassium	227	0.02558	5.81
Calcium	896	0.04990	44.71
Magnesium	1012	0.08229	83.28
NH3-N	0	0.07143	0.00
		SUM	415.28

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	104	0.02000	2.08
Sulfate	1822	0.02082	37.93
Chloride	14464	0.02821	408.03
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0	0.07138	0.00
Phosphate-P	0.0	0.01031	0.00
Fluoride	0.5	0.05264	0.03
Bromide	44.0	0.01252	0.55
		SUM	448.62

ANION-CATION BALANCE: **-4** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	40270	
Cation Sum X 100	41528	**103%**
Anion Sum X 100	44862	**111%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**35.2**
Ca+Mg+Na	409.48
HCO3/Ca	0.05
dS/m	40.27
Value Table II	1.5
SAR adj	**43.2**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Monterey Bay Analytical Services
4 Justin Court Ste D
Monterey CA, 93940

SAMPLE ID **12896 CXB2WQ Zone 4 Diss**

CORRECTNESS OF ANALYSIS

CATION	MG/L	FACTOR	MEQ/L
Sodium	6536	0.04350	284.32
Potassium	226	0.02558	5.78
Calcium	886	0.04990	44.21
Magnesium	1015	0.08229	83.52
NH3-N	0	0.07143	0.00
		SUM	417.83

ANION	MG/L	FACTOR	MEQ/L
Total Alkalinity	104	0.02000	2.08
Sulfate	1822	0.02082	37.93
Chloride	14464	0.02821	408.03
Nitrate	0	0.01613	0.00
Nitrate-Nitrogen	0	0.07138	0.00
Phosphate-P	0.0	0.01031	0.00
Fluoride	0.5	0.05264	0.03
Bromide	44.0	0.01252	0.55
		SUM	448.62

ANION-CATION BALANCE: **-4** (% DIFFERENCE)

Note: Anion-cation sums must balance because all potable waters are electrically neutral. For anion sums below 10.0 meq/L, a 2% difference is acceptable. For anion sums between 10.0 - 800 meq/L, a 5% difference is acceptable. If the difference exceeds the above criteria, the sample should be reanalyzed.

ION SUM AND MEASURED CONDUCTIVITY:

Conductivity	40270	
Cation Sum X 100	41783	**104%**
Anion Sum X 100	44862	**111%**

Note: Ion sum (cation or anion) X 100 should be within 10% of the measured conductivity. If either sum is out of range, recheck analysis.

SODIUM OR PERMEABILITY HAZARDS

Sodium Adsorption Ratio (SAR)	**35.6**
Ca+Mg+Na	412.05
HCO3/Ca	0.05
dS/m	40.27
Value Table II	1.5
SAR adj	**43.6**

Note: If the SAR adj is less than 6, there should be no problems with sodium or permeability. In the range of 6 to 9 there are increasing problems; above 9, severe problems can be expected.

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

David Holland
Monterey Bay Analytical
4 Justin Court Suite D
Monterey, CA 93940

RE: Report for A4C1134 Cal Am

Dear David Holland,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 3/14/2014. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

John Montierth, Project Manager

If additional clarification of any information is required, please contact your Project Manager, John Montierth , at (800) 877-8310 or (559) 497-2888 x201.

Accredited in Accordance with NELAP
ORELAP #4021

Case Narrative

Project and Report Details		Invoice Details	
Client:	Monterey Bay Analytical	**Invoice To:**	Monterey Bay Analytical
Report To:	David Holland	**Invoice Attn:**	David Holland
Project #:	-	**Project PO#:**	-
Received:	3/14/2014 - 09:30		
Report Due:	3/21/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 4.9

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Packing Material - Foam
Packing Material - Paper
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
BS1.1	Blank spike recovery for this analyte was biased high. Associated result may be biased high; reanalysis not feasible.
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
MS1.1	Matrix spike recovery exceeds upper control limit. Reported results for parent matrix may be biased high due to matrix interferences.

Report Distribution

Recipient(s)	Report Format	CC:
David Holland	Final.rpt	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C1134-01
Sampled By: Josh Sobolew
Sample Description: CX-B2WQ Zone #4 (55-65 ft bgs) // 12896

Sample Date - Time: 03/12/14 - 17:15
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A403269	03/18/14	03/19/14	CV0.0
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A403269	03/18/14	03/19/14	BS1.1, CV0.0
Surrogate: 1-Br-2-Nitrobenzene	EPA 504.1	95 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A403154	03/14/14	03/15/14	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A403154	03/14/14	03/15/14	
2,4-D	EPA 515.3	ND	10	ug/L	1	A403154	03/14/14	03/15/14	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A403154	03/14/14	03/15/14	
Dalapon	EPA 515.3	ND	10	ug/L	1	A403154	03/14/14	03/15/14	BS1.0, CV0.0
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A403154	03/14/14	03/15/14	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A403154	03/14/14	03/15/14	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A403154	03/14/14	03/15/14	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A403154	03/14/14	03/15/14	
Surrogate: DCPAA	EPA 515.3	80 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A403247	03/18/14	03/19/14	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A403247	03/18/14	03/19/14	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A403247	03/18/14	03/19/14	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A403247	03/18/14	03/19/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C1134-01
Sampled By: Josh Sobolew
Sample Description: CX-B2WQ Zone #4 (55-65 ft bgs) // 12896

Sample Date - Time: 03/12/14 - 17:15
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Acetone	EPA 524.2	ND	10	ug/L	1	A403247	03/18/14	03/19/14	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A403247	03/18/14	03/19/14	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A403247	03/18/14	03/19/14	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A403247	03/18/14	03/19/14	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A403247	03/18/14	03/19/14	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A403247	03/18/14	03/19/14	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A4C1134-01
Sampled By: Josh Sobolew
Sample Description: CX-B2WQ Zone #4 (55-65 ft bgs) // 12896

Sample Date - Time: 03/12/14 - 17:15
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	93 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	97 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A403279	03/18/14	03/19/14	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A403279	03/18/14	03/19/14	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A403279	03/18/14	03/19/14	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A403279	03/18/14	03/19/14	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A403279	03/18/14	03/19/14	BS1.0
Bromacil	EPA 525.2	ND	10	ug/L	1	A403279	03/18/14	03/19/14	
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A403279	03/18/14	03/19/14	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A403279	03/18/14	03/19/14	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A403279	03/18/14	03/19/14	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A403279	03/18/14	03/19/14	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A403279	03/18/14	03/19/14	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A403279	03/18/14	03/19/14	
Prometryn	EPA 525.2	ND	2.0	ug/L	1	A403279	03/18/14	03/19/14	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A403279	03/18/14	03/19/14	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A403279	03/18/14	03/19/14	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A403279	03/18/14	03/19/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	103 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A403175	03/14/14	03/14/14	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A403175	03/14/14	03/14/14	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A403175	03/14/14	03/14/14	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A403175	03/14/14	03/14/14	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A403175	03/14/14	03/14/14	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A403175	03/14/14	03/14/14	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A403175	03/14/14	03/14/14	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A403175	03/14/14	03/14/14	
Carbamates by HPLC									
Methiocarb	EPA 531.1	ND	2.0	ug/L	1	A403175	03/14/14	03/14/14	
Propoxur	EPA 531.1	ND	2.0	ug/L	1	A403175	03/14/14	03/14/14	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A403209	03/17/14	03/17/14	
Surrogate: AMPA	EPA 547	75 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A403241	03/17/14	03/18/14	

Certificate of Analysis

Sample ID: A4C1134-01
Sampled By: Josh Sobolew
Sample Description: CX-B2WQ Zone #4 (55-65 ft bgs) // 12896

Sample Date - Time: 03/12/14 - 17:15
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A403185	03/15/14	03/19/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 504.1 - Quality Control												
Batch: A403269										Prepared: 03/18/2014		
Prep Method: EPA 505										Analyst: GAK		
Blank (A403269-BLK1)												
Dibromochloropropane (DBCP)	ND	0.010	ug/L							03/19/14		
Ethylene Dibromide (EDB)	ND	0.020	ug/L							03/19/14		
Surrogate: 1-Br-2-Nitrobenzene	*0.63*			*0.69*		*92*	*70-130*			03/19/14		
Blank Spike (A403269-BS1)												
Dibromochloropropane (DBCP)	0.24	0.010	ug/L	0.20		119	70-130			03/19/14		
Ethylene Dibromide (EDB)	0.28	0.020	ug/L	0.20		140	70-130			03/19/14	BS	***High***
Surrogate: 1-Br-2-Nitrobenzene	*0.66*			*0.69*		*97*	*70-130*			03/19/14		
Blank Spike Dup (A403269-BSD1)												
Dibromochloropropane (DBCP)	0.24	0.010	ug/L	0.20		118	70-130	1	20	03/19/14		
Ethylene Dibromide (EDB)	0.28	0.020	ug/L	0.20		139	70-130	1	20	03/19/14	BS	***High***
Surrogate: 1-Br-2-Nitrobenzene	*0.62*			*0.69*		*91*	*70-130*			03/19/14		
Matrix Spike (A403269-MS1), Source: A4C1245-01												
Dibromochloropropane (DBCP)	0.24	0.010	ug/L	0.20	ND	116	65-135			03/19/14		
Ethylene Dibromide (EDB)	0.28	0.020	ug/L	0.20	ND	137	65-135			03/19/14	MS1.1	***High***
Surrogate: 1-Br-2-Nitrobenzene	*0.65*			*0.70*		*93*	*70-130*			03/19/14		
Matrix Spike Dup (A403269-MSD1), Source: A4C1245-01												
Dibromochloropropane (DBCP)	0.25	0.010	ug/L	0.21	ND	120	65-135	4	20	03/19/14		
Ethylene Dibromide (EDB)	0.28	0.020	ug/L	0.21	ND	138	65-135	2	20	03/19/14	MS1.1	***High***
Surrogate: 1-Br-2-Nitrobenzene	*0.65*			*0.70*		*93*	*70-130*			03/19/14		
EPA 515.3 - Quality Control												
Batch: A403154										Prepared: 03/14/2014		
Prep Method: EPA 515.3										Analyst: GAK		
Blank (A403154-BLK1)												
2,4,5-T	ND	1.0	ug/L							03/14/14		
2,4,5-TP (Silvex)	ND	1.0	ug/L							03/14/14		
2,4-D	ND	10	ug/L							03/14/14		
Bentazon	ND	2.0	ug/L							03/14/14		
Dalapon	ND	10	ug/L							03/14/14		
Dicamba	ND	1.5	ug/L							03/14/14		
Dinoseb	ND	2.0	ug/L							03/14/14		
Pentachlorophenol	ND	0.20	ug/L							03/14/14		
Picloram	ND	1.0	ug/L							03/14/14		
Surrogate: DCPAA	*53*			*58*		*92*	*70-130*			03/14/14		
Blank Spike (A403154-BS1)												
2,4,5-T	4.0	1.0	ug/L	4.0		100	70-130			03/14/14		
2,4,5-TP (Silvex)	0.73	1.0	ug/L	0.80		91	70-130			03/14/14		
2,4-D	0.39	10	ug/L	0.40		98	70-130			03/14/14		
Bentazon	8.2	2.0	ug/L	8.0		102	70-130			03/14/14		
Dalapon	7.0	10	ug/L	4.0		174	70-130			03/14/14	BS	***High***

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 515.3 - Quality Control												
Batch: A403154										Prepared: 03/14/2014		
Prep Method: EPA 515.3										Analyst: GAK		
Blank Spike (A403154-BS1)												
Dicamba	5.7	1.5	ug/L	6.0		94	70-130			03/14/14		
Dinoseb	0.80	2.0	ug/L	0.80		100	70-130			03/14/14		
Pentachlorophenol	0.14	0.20	ug/L	0.16		91	70-130			03/14/14		
Picloram	0.36	1.0	ug/L	0.40		89	70-130			03/14/14		
Surrogate: DCPAA	*54*			*58*		*93*	*70-130*			03/14/14		
Blank Spike Dup (A403154-BSD1)												
2,4,5-T	4.0	1.0	ug/L	4.0		100	70-130	0	20	03/15/14		
2,4,5-TP (Silvex)	0.72	1.0	ug/L	0.80		90	70-130	1	20	03/15/14		
2,4-D	0.39	10	ug/L	0.40		97	70-130	1	20	03/15/14		
Bentazon	8.0	2.0	ug/L	8.0		100	70-130	2	20	03/15/14		
Dalapon	7.7	10	ug/L	4.0		193	70-130	10	20	03/15/14	BS	***High***
Dicamba	5.7	1.5	ug/L	6.0		94	70-130	0	20	03/15/14		
Dinoseb	0.82	2.0	ug/L	0.80		102	70-130	2	20	03/15/14		
Pentachlorophenol	0.14	0.20	ug/L	0.16		89	70-130	2	20	03/15/14		
Picloram	0.34	1.0	ug/L	0.40		84	70-130	5	20	03/15/14		
Surrogate: DCPAA	*53*			*58*		*92*	*70-130*			03/15/14		
Matrix Spike (A403154-MS1), Source: A4C0842-03												
2,4,5-T	4.4	1.0	ug/L	4.0	ND	103	70-130			03/14/14		
2,4,5-TP (Silvex)	0.73	1.0	ug/L	0.80	ND	92	70-130			03/14/14		
2,4-D	0.40	10	ug/L	0.40	ND	101	70-130			03/14/14		
Bentazon	8.6	2.0	ug/L	8.0	ND	107	70-130			03/14/14		
Dalapon	7.9	10	ug/L	4.0	ND	96	70-130			03/14/14		
Dicamba	5.7	1.5	ug/L	6.0	ND	95	70-130			03/14/14		
Dinoseb	0.82	2.0	ug/L	0.80	ND	102	70-130			03/14/14		
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	92	70-130			03/14/14		
Picloram	0.48	1.0	ug/L	0.40	ND	119	70-130			03/14/14		
Surrogate: DCPAA	*52*			*58*		*90*	*70-130*			03/14/14		
Matrix Spike Dup (A403154-MSD1), Source: A4C0842-03												
2,4,5-T	4.4	1.0	ug/L	4.0	ND	104	70-130	0	20	03/14/14		
2,4,5-TP (Silvex)	0.74	1.0	ug/L	0.80	ND	92	70-130	0	20	03/14/14		
2,4-D	0.40	10	ug/L	0.40	ND	100	70-130	0	20	03/14/14		
Bentazon	8.4	2.0	ug/L	8.0	ND	106	70-130	1	20	03/14/14		
Dalapon	8.1	10	ug/L	4.0	ND	102	70-130	3	20	03/14/14		
Dicamba	5.7	1.5	ug/L	6.0	ND	95	70-130	0	20	03/14/14		
Dinoseb	0.82	2.0	ug/L	0.80	ND	103	70-130	1	20	03/14/14		
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	92	70-130	0	20	03/14/14		
Picloram	0.43	1.0	ug/L	0.40	ND	106	70-130	11	20	03/14/14		
Surrogate: DCPAA	*53*			*58*		*91*	*70-130*			03/14/14		
EPA 524.2 - Quality Control												
Batch: A403247										Prepared: 03/18/2014		
Prep Method: EPA 524.2										Analyst: JGB		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A403247 Prepared: 03/18/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A403247-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							03/19/14	
1,1,1-Trichloroethane	ND	0.50	ug/L							03/19/14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							03/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							03/19/14	
1,1,2-Trichloroethane	ND	0.50	ug/L							03/19/14	
1,1-Dichloroethane	ND	0.50	ug/L							03/19/14	
1,1-Dichloroethene	ND	0.50	ug/L							03/19/14	
1,1-Dichloropropene	ND	0.50	ug/L							03/19/14	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							03/19/14	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							03/19/14	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							03/19/14	
1,2-Dichlorobenzene	ND	0.50	ug/L							03/19/14	
1,2-Dichloroethane	ND	0.50	ug/L							03/19/14	
1,2-Dichloropropane	ND	0.50	ug/L							03/19/14	
1,3,5-Trimethylbenzene	ND	0.50	ug/L							03/19/14	
1,3-Dichlorobenzene	ND	0.50	ug/L							03/19/14	
1,3-Dichloropropane	ND	0.50	ug/L							03/19/14	
1,4-Dichlorobenzene	ND	0.50	ug/L							03/19/14	
2,2-Dichloropropane	ND	0.50	ug/L							03/19/14	
2-Butanone	ND	5.0	ug/L							03/19/14	
2-Chlorotoluene	ND	0.50	ug/L							03/19/14	
2-Hexanone	ND	10	ug/L							03/19/14	
4-Chlorotoluene	ND	0.50	ug/L							03/19/14	
4-Methyl-2-pentanone	ND	5.0	ug/L							03/19/14	
Acetone	ND	10	ug/L							03/19/14	
Benzene	ND	0.50	ug/L							03/19/14	
Bromobenzene	ND	0.50	ug/L							03/19/14	
Bromochloromethane	ND	0.50	ug/L							03/19/14	
Bromodichloromethane	ND	0.50	ug/L							03/19/14	
Bromoform	ND	0.50	ug/L							03/19/14	
Bromomethane	ND	0.50	ug/L							03/19/14	
Carbon Tetrachloride	ND	0.50	ug/L							03/19/14	
Chlorobenzene	ND	0.50	ug/L							03/19/14	
Chloroethane	ND	0.50	ug/L							03/19/14	
Chloroform	ND	0.50	ug/L							03/19/14	
Chloromethane	ND	0.50	ug/L							03/19/14	
cis-1,2-Dichloroethene	ND	0.50	ug/L							03/19/14	
cis-1,3-Dichloropropene	ND	0.50	ug/L							03/19/14	
Dibromochloromethane	ND	0.50	ug/L							03/19/14	
Dibromomethane	ND	0.50	ug/L							03/19/14	
Dichlorodifluoromethane	ND	0.50	ug/L							03/19/14	
Dichloromethane	ND	0.50	ug/L							03/19/14	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							03/19/14	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							03/19/14	
Ethylbenzene	ND	0.50	ug/L							03/19/14	
Hexachlorobutadiene	ND	0.50	ug/L							03/19/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A403247 Prepared: 03/18/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A403247-BLK1)											
Isopropylbenzene	ND	0.50	ug/L							03/19/14	
m,p-Xylenes	ND	0.50	ug/L							03/19/14	
Methyl-t-butyl ether	ND	0.50	ug/L							03/19/14	
Naphthalene	ND	0.50	ug/L							03/19/14	
n-Butylbenzene	ND	0.50	ug/L							03/19/14	
n-Propylbenzene	ND	0.50	ug/L							03/19/14	
o-Xylene	ND	0.50	ug/L							03/19/14	
p-Isopropyltoluene	ND	0.50	ug/L							03/19/14	
sec-Butylbenzene	ND	0.50	ug/L							03/19/14	
Styrene	ND	0.50	ug/L							03/19/14	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							03/19/14	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							03/19/14	
tert-Butylbenzene	ND	0.50	ug/L							03/19/14	
Tetrachloroethene (PCE)	ND	0.50	ug/L							03/19/14	
Toluene	ND	0.50	ug/L							03/19/14	
trans-1,2-Dichloroethene	ND	0.50	ug/L							03/19/14	
trans-1,3-Dichloropropene	ND	0.50	ug/L							03/19/14	
Trichloroethene (TCE)	ND	0.50	ug/L							03/19/14	
Trichlorofluoromethane	ND	5.0	ug/L							03/19/14	
Vinyl Chloride	ND	0.50	ug/L							03/19/14	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*95*	*70-130*			03/19/14	
Surrogate: Bromofluorobenzene	*49*			*50*		*99*	*70-130*			03/19/14	
Blank Spike (A403247-BS1)											
1,1,1,2-Tetrachloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,1,1-Trichloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,1,2,2-Tetrachloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.7	10	ug/L	10		97	70-130			03/19/14	
1,1,2-Trichloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,1-Dichloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,1-Dichloroethene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
1,1-Dichloropropene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,2,3-Trichlorobenzene	9.5	0.50	ug/L	10		95	70-130			03/19/14	
1,2,4-Trichlorobenzene	9.5	0.50	ug/L	10		95	70-130			03/19/14	
1,2,4-Trimethylbenzene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
1,2-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
1,2-Dichloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,2-Dichloropropane	9.9	0.50	ug/L	10		99	70-130			03/19/14	
1,3,5-Trimethylbenzene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
1,3-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
1,3-Dichloropropane	9.9	0.50	ug/L	10		99	70-130			03/19/14	
1,4-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
2,2-Dichloropropane	8.9	0.50	ug/L	10		89	70-130			03/19/14	
2-Butanone	11	5.0	ug/L	10		106	70-130			03/19/14	
2-Chlorotoluene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
2-Hexanone	10	10	ug/L	10		101	70-130			03/19/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A403247 Prepared: 03/18/2014

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A403247-BS1)											
4-Chlorotoluene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
4-Methyl-2-pentanone	10	5.0	ug/L	10		101	70-130			03/19/14	
Acetone	11	10	ug/L	10		110	70-130			03/19/14	
Benzene	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Bromobenzene	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Bromochloromethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
Bromodichloromethane	10	0.50	ug/L	10		101	70-130			03/19/14	
Bromoform	11	0.50	ug/L	10		108	70-130			03/19/14	
Bromomethane	11	0.50	ug/L	10		107	70-130			03/19/14	
Carbon Tetrachloride	9.7	0.50	ug/L	10		97	70-130			03/19/14	
Chlorobenzene	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Chloroethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
Chloroform	9.8	0.50	ug/L	10		98	70-130			03/19/14	
Chloromethane	9.7	0.50	ug/L	10		97	70-130			03/19/14	
cis-1,2-Dichloroethene	10	0.50	ug/L	10		100	70-130			03/19/14	
cis-1,3-Dichloropropene	10	0.50	ug/L	10		100	70-130			03/19/14	
Dibromochloromethane	10	0.50	ug/L	10		103	70-130			03/19/14	
Dibromomethane	9.8	0.50	ug/L	10		98	70-130			03/19/14	
Dichlorodifluoromethane	9.2	0.50	ug/L	10		92	70-130			03/19/14	
Dichloromethane	10	0.50	ug/L	10		100	70-130			03/19/14	
Di-isopropyl ether (DIPE)	9.9	3.0	ug/L	10		99	70-130			03/19/14	
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		100	70-130			03/19/14	
Ethylbenzene	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Hexachlorobutadiene	9.3	0.50	ug/L	10		93	70-130			03/19/14	
Isopropylbenzene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
m,p-Xylenes	20	0.50	ug/L	20		98	70-130			03/19/14	
Methyl-t-butyl ether	20	0.50	ug/L	20		100	70-130			03/19/14	
Naphthalene	9.7	0.50	ug/L	10		97	70-130			03/19/14	
n-Butylbenzene	9.4	0.50	ug/L	10		94	70-130			03/19/14	
n-Propylbenzene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
o-Xylene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
p-Isopropyltoluene	9.6	0.50	ug/L	10		96	70-130			03/19/14	
sec-Butylbenzene	9.6	0.50	ug/L	10		96	70-130			03/19/14	
Styrene	9.4	0.50	ug/L	10		94	70-130			03/19/14	
tert-Amyl Methyl Ether (TAME)	9.6	3.0	ug/L	10		96	70-130			03/19/14	
tert-Butyl alcohol (TBA)	10	2.0	ug/L	10		104	70-130			03/19/14	
tert-Butylbenzene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
Tetrachloroethene (PCE)	9.7	0.50	ug/L	10		97	70-130			03/19/14	
Toluene	9.8	0.50	ug/L	10		98	70-130			03/19/14	
trans-1,2-Dichloroethene	10	0.50	ug/L	10		100	70-130			03/19/14	
trans-1,3-Dichloropropene	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Trichloroethene (TCE)	9.9	0.50	ug/L	10		99	70-130			03/19/14	
Trichlorofluoromethane	9.5	5.0	ug/L	10		95	70-130			03/19/14	
Vinyl Chloride	9.6	0.50	ug/L	10		96	70-130			03/19/14	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*96*	*70-130*			03/19/14	
Surrogate: Bromofluorobenzene	*48*			*50*		*96*	*70-130*			03/19/14	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A403247 Prepared: 03/18/2014

Prep Method: EPA 524.2 Analyst: JGB

Blank Spike Dup (A403247-BSD1)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
1,1,1,2-Tetrachloroethane	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
1,1,1-Trichloroethane	9.6	0.50	ug/L	10		96	70-130	3	30	03/19/14	
1,1,2,2-Tetrachloroethane	9.6	0.50	ug/L	10		96	70-130	3	30	03/19/14	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.4	10	ug/L	10		94	70-130	3	30	03/19/14	
1,1,2-Trichloroethane	9.7	0.50	ug/L	10		97	70-130	2	30	03/19/14	
1,1-Dichloroethane	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
1,1-Dichloroethene	9.5	0.50	ug/L	10		95	70-130	2	30	03/19/14	
1,1-Dichloropropene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
1,2,3-Trichlorobenzene	9.4	0.50	ug/L	10		94	70-130	1	30	03/19/14	
1,2,4-Trichlorobenzene	9.4	0.50	ug/L	10		94	70-130	1	30	03/19/14	
1,2,4-Trimethylbenzene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
1,2-Dichlorobenzene	9.6	0.50	ug/L	10		96	70-130	1	30	03/19/14	
1,2-Dichloroethane	9.6	0.50	ug/L	10		96	70-130	1	30	03/19/14	
1,2-Dichloropropane	9.7	0.50	ug/L	10		97	70-130	1	30	03/19/14	
1,3,5-Trimethylbenzene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
1,3-Dichlorobenzene	9.6	0.50	ug/L	10		96	70-130	1	30	03/19/14	
1,3-Dichloropropane	9.7	0.50	ug/L	10		97	70-130	2	30	03/19/14	
1,4-Dichlorobenzene	9.6	0.50	ug/L	10		96	70-130	1	30	03/19/14	
2,2-Dichloropropane	8.5	0.50	ug/L	10		85	70-130	4	30	03/19/14	
2-Butanone	9.6	5.0	ug/L	10		96	70-130	11	30	03/19/14	
2-Chlorotoluene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
2-Hexanone	9.3	10	ug/L	10		93	70-130	8	30	03/19/14	
4-Chlorotoluene	9.6	0.50	ug/L	10		96	70-130	1	30	03/19/14	
4-Methyl-2-pentanone	9.4	5.0	ug/L	10		94	70-130	8	30	03/19/14	
Acetone	9.5	10	ug/L	10		95	70-130	14	30	03/19/14	
Benzene	9.6	0.50	ug/L	10		96	70-130	3	30	03/19/14	
Bromobenzene	9.6	0.50	ug/L	10		96	70-130	3	30	03/19/14	
Bromochloromethane	9.9	0.50	ug/L	10		99	70-130	1	30	03/19/14	
Bromodichloromethane	9.8	0.50	ug/L	10		98	70-130	2	30	03/19/14	
Bromoform	10	0.50	ug/L	10		104	70-130	4	30	03/19/14	
Bromomethane	11	0.50	ug/L	10		106	70-130	0	30	03/19/14	
Carbon Tetrachloride	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
Chlorobenzene	9.8	0.50	ug/L	10		98	70-130	2	30	03/19/14	
Chloroethane	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
Chloroform	9.7	0.50	ug/L	10		97	70-130	1	30	03/19/14	
Chloromethane	9.3	0.50	ug/L	10		93	70-130	5	30	03/19/14	
cis-1,2-Dichloroethene	9.8	0.50	ug/L	10		98	70-130	3	30	03/19/14	
cis-1,3-Dichloropropene	9.7	0.50	ug/L	10		97	70-130	2	30	03/19/14	
Dibromochloromethane	10	0.50	ug/L	10		101	70-130	2	30	03/19/14	
Dibromomethane	9.7	0.50	ug/L	10		97	70-130	1	30	03/19/14	
Dichlorodifluoromethane	9.5	0.50	ug/L	10		95	70-130	4	30	03/19/14	
Dichloromethane	9.8	0.50	ug/L	10		98	70-130	1	30	03/19/14	
Di-isopropyl ether (DIPE)	9.6	3.0	ug/L	10		96	70-130	2	30	03/19/14	
Ethyl tert-Butyl Ether (ETBE)	9.8	0.50	ug/L	10		98	70-130	2	30	03/19/14	
Ethylbenzene	9.6	0.50	ug/L	10		96	70-130	3	30	03/19/14	
Hexachlorobutadiene	9.1	0.50	ug/L	10		91	70-130	2	30	03/19/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A403247										Prepared: 03/18/2014	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike Dup (A403247-BSD1)											
Isopropylbenzene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
m,p-Xylenes	19	0.50	ug/L	20		96	70-130	2	30	03/19/14	
Methyl-t-butyl ether	20	0.50	ug/L	20		98	70-130	2	30	03/19/14	
Naphthalene	9.5	0.50	ug/L	10		95	70-130	2	30	03/19/14	
n-Butylbenzene	9.2	0.50	ug/L	10		92	70-130	1	30	03/19/14	
n-Propylbenzene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
o-Xylene	9.7	0.50	ug/L	10		97	70-130	1	30	03/19/14	
p-Isopropyltoluene	9.5	0.50	ug/L	10		95	70-130	1	30	03/19/14	
sec-Butylbenzene	9.5	0.50	ug/L	10		95	70-130	1	30	03/19/14	
Styrene	8.6	0.50	ug/L	10		86	70-130	8	30	03/19/14	
tert-Amyl Methyl Ether (TAME)	9.4	3.0	ug/L	10		94	70-130	2	30	03/19/14	
tert-Butyl alcohol (TBA)	9.4	2.0	ug/L	10		94	70-130	10	30	03/19/14	
tert-Butylbenzene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
Tetrachloroethene (PCE)	9.5	0.50	ug/L	10		95	70-130	1	30	03/19/14	
Toluene	9.6	0.50	ug/L	10		96	70-130	2	30	03/19/14	
trans-1,2-Dichloroethene	9.7	0.50	ug/L	10		97	70-130	3	30	03/19/14	
trans-1,3-Dichloropropene	9.7	0.50	ug/L	10		97	70-130	3	30	03/19/14	
Trichloroethene (TCE)	9.7	0.50	ug/L	10		97	70-130	2	30	03/19/14	
Trichlorofluoromethane	9.3	5.0	ug/L	10		93	70-130	2	30	03/19/14	
Vinyl Chloride	9.8	0.50	ug/L	10		98	70-130	2	30	03/19/14	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*96*	*70-130*			03/19/14	
Surrogate: Bromofluorobenzene	*48*			*50*		*97*	*70-130*			03/19/14	
EPA 525.2 - Quality Control											
Batch: A403279										Prepared: 03/18/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Blank (A403279-BLK1)											
Alachlor	ND	1.0	ug/L							03/19/14	
Atrazine	ND	0.50	ug/L							03/19/14	
Benzo(a)pyrene	ND	0.10	ug/L							03/19/14	
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							03/19/14	
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							03/19/14	
Bromacil	ND	10	ug/L							03/19/14	
Butachlor	ND	0.38	ug/L							03/19/14	
Diazinon	ND	0.25	ug/L							03/19/14	
Dimethoate	ND	10	ug/L							03/19/14	
Metolachlor	ND	0.50	ug/L							03/19/14	
Metribuzin	ND	0.50	ug/L							03/19/14	
Molinate	ND	2.0	ug/L							03/19/14	
Prometryn	ND	2.0	ug/L							03/19/14	
Propachlor	ND	0.50	ug/L							03/19/14	
Simazine	ND	1.0	ug/L							03/19/14	
Thiobencarb	ND	1.0	ug/L							03/19/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.3*			*5.1*		*106*	*70-130*			03/19/14	

Organics Quality Control Report

EPA 525.2 - Quality Control

Batch: A403279 Prepared: 03/18/2014

Prep Method: EPA 525.2 Analyst: KHH

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A403279-BS1)												
Alachlor	0.53	1.0	ug/L	0.50		105	70-130			03/19/14		
Atrazine	0.53	0.50	ug/L	0.50		106	70-130			03/19/14		
Benzo(a)pyrene	0.099	0.10	ug/L	0.10		98	70-130			03/19/14		
Bis(2-ethylhexyl) adipate	3.3	3.0	ug/L	3.0		110	70-130			03/19/14		
Bis(2-ethylhexyl) phthalate	4.1	3.0	ug/L	3.0		134	70-130			03/19/14	BS	***High***
Bromacil	2.2	10	ug/L	2.0		111	70-130			03/19/14		
Butachlor	1.3	0.38	ug/L	1.3		104	70-130			03/19/14		
Diazinon	0.043	0.25	ug/L	0.050		86	70-130			03/19/14		
Dimethoate	0.47	10	ug/L	0.50		94	70-130			03/19/14		
Metolachlor	2.7	0.50	ug/L	2.5		105	70-130			03/19/14		
Metribuzin	3.1	0.50	ug/L	2.5		121	70-130			03/19/14		
Molinate	2.9	2.0	ug/L	2.5		116	70-130			03/19/14		
Prometryn	0.62	2.0	ug/L	0.50		122	70-130			03/19/14		
Propachlor	2.9	0.50	ug/L	2.5		115	70-130			03/19/14		
Simazine	0.38	1.0	ug/L	0.35		107	70-130			03/19/14		
Thiobencarb	0.56	1.0	ug/L	0.50		110	70-130			03/19/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.6*			*5.0*		*112*	*70-130*			03/19/14		
Blank Spike Dup (A403279-BSD1)												
Alachlor	0.54	1.0	ug/L	0.50		109	70-130	3	30	03/19/14		
Atrazine	0.55	0.50	ug/L	0.50		109	70-130	3	30	03/19/14		
Benzo(a)pyrene	0.097	0.10	ug/L	0.10		97	70-130	2	30	03/19/14		
Bis(2-ethylhexyl) adipate	3.3	3.0	ug/L	3.0		111	70-130	0	30	03/19/14		
Bis(2-ethylhexyl) phthalate	4.0	3.0	ug/L	3.0		132	70-130	2	30	03/19/14	BS	***High***
Bromacil	2.4	10	ug/L	2.0		122	70-130	8	30	03/19/14		
Butachlor	1.3	0.38	ug/L	1.2		105	70-130	0	30	03/19/14		
Diazinon	0.049	0.25	ug/L	0.050		98	70-130	12	30	03/19/14		
Dimethoate	0.53	10	ug/L	0.50		105	70-130	11	30	03/19/14		
Metolachlor	2.7	0.50	ug/L	2.5		108	70-130	2	30	03/19/14		
Metribuzin	3.1	0.50	ug/L	2.5		122	70-130	0	30	03/19/14		
Molinate	2.8	2.0	ug/L	2.5		110	70-130	6	30	03/19/14		
Prometryn	0.61	2.0	ug/L	0.50		122	70-130	1	30	03/19/14		
Propachlor	2.8	0.50	ug/L	2.5		113	70-130	2	30	03/19/14		
Simazine	0.40	1.0	ug/L	0.35		115	70-130	6	30	03/19/14		
Thiobencarb	0.56	1.0	ug/L	0.50		113	70-130	1	30	03/19/14		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.5*			*5.0*		*109*	*70-130*			03/19/14		
Matrix Spike (A403279-MS1), Source: A4C1103-01												
Alachlor	0.52	1.0	ug/L	0.49	ND	106	70-130			03/19/14		
Atrazine	0.52	0.50	ug/L	0.49	ND	106	70-130			03/19/14		
Benzo(a)pyrene	0.097	0.10	ug/L	0.098	ND	99	70-130			03/19/14		
Bis(2-ethylhexyl) adipate	3.5	3.0	ug/L	3.0	ND	118	70-130			03/19/14		
Bis(2-ethylhexyl) phthalate	4.1	3.0	ug/L	3.0	ND	114	70-130			03/19/14		
Bromacil	2.6	10	ug/L	2.0	ND	122	70-130			03/19/14		
Butachlor	1.4	0.38	ug/L	1.2	ND	111	70-130			03/19/14		
Diazinon	0.049	0.25	ug/L	0.049	ND	100	70-130			03/19/14		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A403279										Prepared: 03/18/2014	
Prep Method: EPA 525.2										Analyst: KHH	
Matrix Spike (A403279-MS1), Source: A4C1103-01											
Dimethoate	0.54	10	ug/L	0.49	ND	111	70-130			03/19/14	
Metolachlor	2.6	0.50	ug/L	2.5	ND	107	70-130			03/19/14	
Metribuzin	3.0	0.50	ug/L	2.5	ND	122	70-130			03/19/14	
Molinate	2.6	2.0	ug/L	2.5	ND	105	70-130			03/19/14	
Prometryn	0.59	2.0	ug/L	0.49	ND	120	70-130			03/19/14	
Propachlor	2.7	0.50	ug/L	2.5	ND	110	70-130			03/19/14	
Simazine	0.40	1.0	ug/L	0.34	ND	115	70-130			03/19/14	
Thiobencarb	0.56	1.0	ug/L	0.49	ND	113	70-130			03/19/14	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.9*			*4.9*		*100*	*70-130*			03/19/14	
EPA 531.1 - Quality Control											
Batch: A403175										Prepared: 03/14/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A403175-BLK1)											
3-Hydroxycarbofuran	ND	3.0	ug/L							03/14/14	
Aldicarb	ND	3.0	ug/L							03/14/14	
Aldicarb Sulfone	ND	2.0	ug/L							03/14/14	
Aldicarb Sulfoxide	ND	3.0	ug/L							03/14/14	
Carbaryl	ND	5.0	ug/L							03/14/14	
Carbofuran	ND	5.0	ug/L							03/14/14	
Methiocarb	ND	2.0	ug/L							03/14/14	
Methomyl	ND	2.0	ug/L							03/14/14	
Oxamyl	ND	20	ug/L							03/14/14	
Propoxur	ND	2.0	ug/L							03/14/14	
Blank Spike (A403175-BS1)											
3-Hydroxycarbofuran	4.4	3.0	ug/L	4.0		109	80-120			03/14/14	
Aldicarb	4.0	3.0	ug/L	4.0		101	80-120			03/14/14	
Aldicarb Sulfone	4.3	2.0	ug/L	4.0		106	80-120			03/14/14	
Aldicarb Sulfoxide	4.2	3.0	ug/L	4.0		104	80-120			03/14/14	
Carbaryl	4.3	5.0	ug/L	4.0		107	80-120			03/14/14	
Carbofuran	4.3	5.0	ug/L	4.0		108	80-120			03/14/14	
Methiocarb	4.3	2.0	ug/L	4.0		107	80-120			03/14/14	
Methomyl	4.2	2.0	ug/L	4.0		104	80-120			03/14/14	
Oxamyl	4.2	20	ug/L	4.0		105	80-120			03/14/14	
Propoxur	4.2	2.0	ug/L	4.0		106	80-120			03/14/14	
Blank Spike Dup (A403175-BSD1)											
3-Hydroxycarbofuran	3.8	3.0	ug/L	4.0		95	80-120	14	20	03/14/14	
Aldicarb	3.5	3.0	ug/L	4.0		87	80-120	15	20	03/14/14	
Aldicarb Sulfone	3.8	2.0	ug/L	4.0		94	80-120	12	20	03/14/14	
Aldicarb Sulfoxide	3.8	3.0	ug/L	4.0		94	80-120	10	20	03/14/14	
Carbaryl	3.9	5.0	ug/L	4.0		97	80-120	10	20	03/14/14	
Carbofuran	3.8	5.0	ug/L	4.0		95	80-120	13	20	03/14/14	
Methiocarb	3.7	2.0	ug/L	4.0		93	80-120	14	20	03/14/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A403175										Prepared: 03/14/2014	
Prep Method: EPA 531.1										Analyst: AAR	
Blank Spike Dup (A403175-BSD1)											
Methomyl	3.7	2.0	ug/L	4.0		93	80-120	11	20	03/14/14	
Oxamyl	3.7	20	ug/L	4.0		93	80-120	12	20	03/14/14	
Propoxur	3.7	2.0	ug/L	4.0		93	80-120	13	20	03/14/14	
Matrix Spike (A403175-MS1), Source: A4C1026-01											
3-Hydroxycarbofuran	4.1	3.0	ug/L	4.0	ND	102	65-135			03/14/14	
Aldicarb	4.0	3.0	ug/L	4.0	ND	99	65-135			03/14/14	
Aldicarb Sulfone	4.0	2.0	ug/L	4.0	ND	100	65-135			03/14/14	
Aldicarb Sulfoxide	3.9	3.0	ug/L	4.0	ND	97	65-135			03/14/14	
Carbaryl	4.0	5.0	ug/L	4.0	ND	99	65-135			03/14/14	
Carbofuran	3.8	5.0	ug/L	4.0	ND	96	65-135			03/14/14	
Methiocarb	3.9	2.0	ug/L	4.0	ND	98	65-135			03/14/14	
Methomyl	4.1	2.0	ug/L	4.0	ND	102	65-135			03/14/14	
Oxamyl	4.0	20	ug/L	4.0	ND	101	65-135			03/14/14	
Propoxur	4.0	2.0	ug/L	4.0	ND	95	65-135			03/14/14	
EPA 547 - Quality Control											
Batch: A403209										Prepared: 03/17/2014	
Prep Method: EPA 547										Analyst: RJB	
Blank (A403209-BLK1)											
Glyphosate	ND	25	ug/L							03/17/14	
Surrogate: AMPA	*100*			*100*		*103*	*70-130*			03/17/14	
Blank Spike (A403209-BS1)											
Glyphosate	110	25	ug/L	100		111	70-130			03/17/14	
Surrogate: AMPA	*100*			*100*		*105*	*70-130*			03/17/14	
Blank Spike Dup (A403209-BSD1)											
Glyphosate	120	25	ug/L	100		116	70-130	4	30	03/17/14	
Surrogate: AMPA	*110*			*100*		*110*	*70-130*			03/17/14	
Matrix Spike (A403209-MS1), Source: A4C0842-02											
Glyphosate	110	25	ug/L	100	ND	112	70-130			03/17/14	
Surrogate: AMPA	*110*			*100*		*103*	*70-130*			03/17/14	
Matrix Spike Dup (A403209-MSD1), Source: A4C0842-02											
Glyphosate	110	25	ug/L	100	ND	108	70-130	4	30	03/17/14	
Surrogate: AMPA	*100*			*100*		*100*	*70-130*			03/17/14	
EPA 548.1 - Quality Control											
Batch: A403241										Prepared: 03/17/2014	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A403241-BLK1)											
Endothall	ND	45	ug/L							03/18/14	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 548.1 - Quality Control											
Batch: A403241										Prepared: 03/17/2014	
Prep Method: EPA 548.1										Analyst: KHH	
Blank Spike (A403241-BS1)											
Endothall	14	45	ug/L	20		72	60-111			03/18/14	
Blank Spike Dup (A403241-BSD1)											
Endothall	15	45	ug/L	20		75	60-111	5	46	03/18/14	
Matrix Spike (A403241-MS1), Source: A4C1103-01											
Endothall	ND	45	ug/L	20	ND	0	10-122			03/18/14	MS1.0 ***Low***
EPA 549.2 - Quality Control											
Batch: A403185										Prepared: 03/15/2014	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A403185-BLK1)											
Diquat	ND	4.0	ug/L							03/19/14	
Blank Spike (A403185-BS1)											
Diquat	3.3	4.0	ug/L	4.0		83	70-130			03/19/14	
Blank Spike Dup (A403185-BSD1)											
Diquat	3.4	4.0	ug/L	4.0		85	70-130	3	30	03/19/14	
Matrix Spike (A403185-MS1), Source: A4C1015-03											
Diquat	3.3	4.0	ug/L	4.0	ND	82	70-130			03/19/14	
Matrix Spike (A403185-MS2), Source: A4C1015-04											
Diquat	3.3	4.0	ug/L	4.0	ND	81	70-130			03/19/14	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of Oregon - NELAP	4021	State of Washington	C997
State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA

BSK is not accredited under the NELAC program for the following parameters: **NA**

A4C1134

Monterey Bay Analytical

Monte6227

03142014

Turnaround: Standard

Due Date: 3/21/2014

Printed: 3/14/2014 4:50:24PM

Page 1 of 1

A4C1134 03/14/2014
Monte6227 5

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street, Fresno, CA 93706-1623
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

* Required Fields

TEMP: 4.9

Client/Company Name *:	Report Attention *:	Phone * #: (831)-357-6227 FAX * #(831)-641-0734
Monterey Bay Analytical	David Holland	E-mail: 4MBAS@Sbcglobal.net

Address * 4 Justin Ct. City * Monterey State * CA Zip * 93940

Project Information: Cal Am

PO # Quote # 464

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: Josh Sobolew

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☑ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☑ System No. *

ANALYSIS REQUESTED

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 504	EPA 515	EPA 524 inc MTBE	EPA 525	EPA 531	EPA 547	EPA 548	EPA 549	
1	13	3/12/14	17:15	CX-B2WQ Zone #4 (55-65 ft bgs)	RGW	12896	✓	✓	✓	✓	✓	✓	✓	✓	
				5 day TAT please											
				Conductivity 39657 uS/cm											

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
David Holland	MBAS	3/13/14	1200		
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery:	
Sandy Baum		3/14/14	0930	Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material: Bub / Paper / Foam

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/re-billing charges and interest calculated at 1 1/2 % per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorneys' fees incurred prior to or in litigation whether concluded by judgement, settlement, compromise or otherwise. The person signing for the client/Company expressley acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis requested, either type or quantities, will be noted and agreed upon this Chain of Custody. The turn around time for any samples received after 3:00 pm will begin the next business day.

SR-FL-0012-00(Analytical)

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received — "|" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—						
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—						
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—	1C					
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2A 2C					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—					Spec copy 3/14/14	
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	4V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: HD @ 12:19 Labels checked by: [illegible] @ [illegible] RUSH Paged by:

WECK LABORATORIES, INC.
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CERTIFICATE OF ANALYSIS

Client:	Monterey Bay Analytical Services 4 Justin Court, Suite D Monterey CA, 93940	**Report Date:**	03/21/14 16:22
		Received Date:	03/14/14 09:20
		Turn Around:	5 workdays
Attention:	David Holland	**Client Project:**	Cal Am
Phone:	(831) 375-6227		
Fax:	(831) 641-0734		
Work Order(s):	4C14029		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear David Holland :

Enclosed are the results of analyses for samples received 03/14/14 09:20 with the Chain of Custody document. The samples were received in good condition, at 3.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Brandon Gee
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/14/14 09:20
Date Reported: 03/21/14 16:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CX-B2WQ Zone #4 (55-56 Ft bgs)	Josh Soboleu	12792	4C14029-01	Water	03/12/14 17:15

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Chlorinated Pesticides and/or PCBs

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4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/14/14 09:20
Date Reported: 03/21/14 16:22

4C14029-01 **CX-B2WQ Zone #4 (55-56 Ft bgs)**

Sampled: 03/12/14 17:15 **Sampled By:** Josh Soboleu **Matrix:** Water

Sample Note: 12792

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 9056A Batch: W4C0833 Prepared: 03/15/14 10:30 Analyst: Alice T. Lee

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Iodide	ND	250	ug/l	25	03/15/14 15:05	M-02

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4C0838 Prepared: 03/15/14 12:16 Analyst: Maxwell Wang

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND	0.010	ug/l	1	03/19/14 10:33	
4,4´-DDE	ND	0.010	ug/l	1	03/19/14 10:33	
4,4´-DDT	ND	0.010	ug/l	1	03/19/14 10:33	
Aldrin	ND	0.010	ug/l	1	03/19/14 10:33	
alpha-BHC	ND	0.010	ug/l	1	03/19/14 10:33	
Aroclor 1016	ND	0.10	ug/l	1	03/19/14 02:37	
Aroclor 1221	ND	0.10	ug/l	1	03/19/14 02:37	
Aroclor 1232	ND	0.10	ug/l	1	03/19/14 02:37	
Aroclor 1242	ND	0.10	ug/l	1	03/19/14 02:37	
Aroclor 1248	ND	0.10	ug/l	1	03/19/14 02:37	
Aroclor 1254	ND	0.10	ug/l	1	03/19/14 02:37	
Aroclor 1260	ND	0.10	ug/l	1	03/19/14 02:37	
beta-BHC	ND	0.010	ug/l	1	03/19/14 10:33	
Chlordane (tech)	ND	0.10	ug/l	1	03/19/14 02:37	
Chlorothalonil	ND	0.050	ug/l	1	03/19/14 02:37	
delta-BHC	ND	0.010	ug/l	1	03/19/14 10:33	
Dieldrin	ND	0.010	ug/l	1	03/19/14 10:33	
Endosulfan I	ND	0.010	ug/l	1	03/19/14 10:33	
Endosulfan II	ND	0.010	ug/l	1	03/19/14 10:33	
Endosulfan sulfate	ND	0.010	ug/l	1	03/19/14 10:33	
Endrin	ND	0.010	ug/l	1	03/19/14 10:33	
Endrin aldehyde	ND	0.010	ug/l	1	03/19/14 10:33	
gamma-BHC (Lindane)	ND	0.010	ug/l	1	03/19/14 10:33	
Heptachlor	ND	0.010	ug/l	1	03/19/14 10:33	
Heptachlor epoxide	ND	0.010	ug/l	1	03/19/14 10:33	
Hexachlorobenzene	ND	0.010	ug/l	1	03/19/14 02:37	
Hexachlorocyclopentadiene	ND	0.050	ug/l	1	03/19/14 02:37	
Methoxychlor	ND	0.010	ug/l	1	03/19/14 10:33	
PCBs, Total	ND	0.50	ug/l	1	03/19/14 02:37	
Propachlor	ND	0.050	ug/l	1	03/19/14 02:37	
Toxaphene	ND	1.0	ug/l	1	03/19/14 02:37	
Trifluralin	ND	0.010	ug/l	1	03/19/14 02:37	
Surr: Decachlorobiphenyl	*71 %*	Conc:*0.0680* *70-130*	%			
Surr: Tetrachloro-meta-xylene	*81 %*	Conc:*0.0770* *70-130*	%			

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Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/14/14 09:20
Date Reported: 03/21/14 16:22

4C14029-01 **CX-B2WQ Zone #4 (55-56 Ft bgs)**

Sampled: 03/12/14 17:15 **Sampled By:** Josh Soboleu **Matrix:** Water

Sample Note: 12792

Chlorinated Pesticides and/or PCBs

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Date Received: 03/14/14 09:20
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QUALITY CONTROL SECTION

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Date Received: 03/14/14 09:20
Date Reported: 03/21/14 16:22

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4C0833 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0833-BLK1)				Analyzed: 03/15/14 15:05						
Iodide	ND	10	ug/l							
LCS (W4C0833-BS1)				Analyzed: 03/15/14 15:05						
Iodide	40.2	10	ug/l	40.0		101	85-115			
Matrix Spike (W4C0833-MS1)	**Source: 4C11006-01**			Analyzed: 03/15/14 15:05						
Iodide	1090	250	ug/l	1000	ND	109	80-120			
Matrix Spike Dup (W4C0833-MSD1)	**Source: 4C11006-01**			Analyzed: 03/15/14 15:05						
Iodide	931	250	ug/l	1000	ND	93	80-120	15	20	

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0838 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0838-BLK1)				Analyzed: 03/18/14 22:01						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							

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Date Received: 03/14/14 09:20
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Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0838 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4C0838-BLK1)				Analyzed: 03/18/14 22:01						
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							
Surr: Decachlorobiphenyl	*0.0894*		*ug/l*	*0.100*		*89*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0785*		*ug/l*	*0.100*		*78*	*70-130*			
LCS (W4C0838-BS1)				Analyzed: 03/19/14 09:01						
4,4´-DDD	0.0875	0.010	ug/l	0.100		88	55-142			
4,4´-DDE	0.0976	0.010	ug/l	0.100		98	49-129			
4,4´-DDT	0.103	0.010	ug/l	0.100		103	54-160			
Aldrin	0.0787	0.010	ug/l	0.100		79	29-115			
alpha-BHC	0.0900	0.010	ug/l	0.100		90	59-131			
beta-BHC	0.0881	0.010	ug/l	0.100		88	63-136			
delta-BHC	0.105	0.010	ug/l	0.100		105	59-137			
Dieldrin	0.0934	0.010	ug/l	0.100		93	59-135			
Endosulfan I	0.0787	0.010	ug/l	0.100		79	28-138			
Endosulfan II	0.0792	0.010	ug/l	0.100		79	53-133			
Endosulfan sulfate	0.0837	0.010	ug/l	0.100		84	58-155			
Endrin	0.0857	0.010	ug/l	0.100		86	57-148			
Endrin aldehyde	0.0801	0.010	ug/l	0.100		80	45-139			
gamma-BHC (Lindane)	0.0846	0.010	ug/l	0.100		85	59-129			
Heptachlor	0.0893	0.010	ug/l	0.100		89	42-136			
Heptachlor epoxide	0.0884	0.010	ug/l	0.100		88	59-134			
Methoxychlor	0.0725	0.010	ug/l	0.100		72	56-167			
Surr: Decachlorobiphenyl	*0.0927*		*ug/l*	*0.100*		*93*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0749*		*ug/l*	*0.100*		*75*	*70-130*			
LCS Dup (W4C0838-BSD1)				Analyzed: 03/18/14 23:02						
4,4´-DDD	0.0880	0.010	ug/l	0.100		88	55-142	0.5	25	
4,4´-DDE	0.0902	0.010	ug/l	0.100		90	49-129	8	25	
4,4´-DDT	0.103	0.010	ug/l	0.100		103	54-160	0.4	25	
Aldrin	0.0739	0.010	ug/l	0.100		74	29-115	6	25	
alpha-BHC	0.0857	0.010	ug/l	0.100		86	59-131	5	25	
beta-BHC	0.0829	0.010	ug/l	0.100		83	63-136	6	25	
delta-BHC	0.0995	0.010	ug/l	0.100		100	59-137	6	25	
Dieldrin	0.0892	0.010	ug/l	0.100		89	59-135	5	25	
Endosulfan I	0.0723	0.010	ug/l	0.100		72	28-138	8	25	
Endosulfan II	0.0775	0.010	ug/l	0.100		78	53-133	2	25	
Endosulfan sulfate	0.0866	0.010	ug/l	0.100		87	58-155	3	25	
Endrin	0.0725	0.010	ug/l	0.100		72	57-148	17	25	
Endrin aldehyde	0.0658	0.010	ug/l	0.100		66	45-139	20	25	
gamma-BHC (Lindane)	0.0858	0.010	ug/l	0.100		86	59-129	1	25	
Heptachlor	0.0845	0.010	ug/l	0.100		85	42-136	6	25	
Heptachlor epoxide	0.0847	0.010	ug/l	0.100		85	59-134	4	25	
Methoxychlor	0.0822	0.010	ug/l	0.100		82	56-167	13	25	
Surr: Decachlorobiphenyl	*0.0893*		*ug/l*	*0.100*		*89*	*70-130*			

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Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/14/14 09:20
Date Reported: 03/21/14 16:22

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4C0838 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W4C0838-BSD1)				Analyzed: 03/18/14 23:02						
Surr: Tetrachloro-meta-xylene	*0.0761*		*ug/l*	*0.100*		*76*	*70-130*			

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

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Analytical Laboratory Service - Since 1964

Monterey Bay Analytical Services
4 Justin Court, Suite D
Monterey CA, 93940

Date Received: 03/14/14 09:20
Date Reported: 03/21/14 16:22

Notes and Definitions

M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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pH QC Summary (SM 4500 H+)

Date Analyzed: 3/12/2014

	Value (pH Units)	Result (pH Units)	% Rec	Acceptance Criteria %Rec
IPC	6.86	6.91	100.7	95-105

Sample ID	Sample (pH Units)	Sample Dup (pH Units)	% RPD	Acceptance Criteria % RPD
AB12869	7.1	7.1	0.0	10
AB12875	7.4	7.4	0.0	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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TDS/TSS QC Summary (SM 2540C/D)

Date Analyzed: 3/13/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC 100	100	111	111	80-120
IPC 500	500	503	100.6	90-110

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12695	ND	ND	0.0	10
AB12775	437	434	0.7	10
AB12817	131	137	4.5	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Differer

ıce; Rec = Recovery

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Turbidity QC Summary (EPA 180.1)

Date Analyzed: 3/13/2014

	Value (NTU)	Result (NTU)	% Rec	Acceptance Criteria %Rec
IPC	1.00	1.04	104.0	95-105
IPC	1.00	0.97	97.1	95-105

Sample ID	Sample (NTU)	Sample Dup (NTU)	% RPD	Acceptance Criteria % RPD
AB12871	0.770	0.776	-0.01	10
AB12896	1.490	1.630	-0.09	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

EPA 200.7 QC

Batch # 20140313

Analyte/		IC	Prep	LCS	%Rec	LCSD	%Rec	%Diff	IC Verification			QCS (95-105%)		
WL	Range	Blank	Blank	Value	85-115%	Value	85-115%		Value	Result	%Rec	Value	Result	%Rec
B 249.678	0.05-5ppm	0.01	0.00	1.00	100.4%	1.03	103.1%	2.7%	1	1.02	101.5%	1	0.98	97.8%
B 249.772	0.05-5ppm	0.01	0.01	1.01	100.7%	1.03	103.0%	2.3%	1	1.02	102.0%	1	0.99	98.6%
Ca 317.933	50-300ppm	-5.25	-5.24	49.3	98.5%	50.3	100.7%	2.2%	50	49.5	99.0%	50	48.7	97.4%
Ca 396.847	0.5-50ppm	-0.15	-0.14	49.8	99.7%	50.3	100.6%	0.9%	50	50.2	100.4%	50	48.8	97.6%
Fe 238.204	10ppb-100ppm	-0.64	0.19	998	99.8%	1014	101.4%	1.6%	1000	1003	100.3%	1000	992	99.2%
Fe 259.940	10ppb-100ppm	0.30	-0.50	995	99.5%	1013	101.3%	1.8%	1000	1001	100.1%	1000	993	99.3%
K 766.491	0.5-750ppm	0.20	0.13	9.9	98.6%	10.0	100.4%	1.8%	10	10.0	100.5%	10	9.8	98.0%
Mg 202.582	50-1000ppm	-1.81	-1.83	50.2	100.4%	51.3	102.5%	2.2%	50	50.8	101.6%	50	49.7	99.4%
Mg 279.078	0.5-50ppm	0.04	0.02	48.9	97.8%	50.2	100.4%	2.6%	50	49.8	99.7%	50	49.0	97.9%
Mn 257.610	10ppb-11ppm	-4.82	-5.60	995	99.5%	1016	101.6%	2.1%	1000	1001	100.1%	1000	979	97.9%
Mn 260.568	10ppb-11ppm	-5.16	-5.50	993	99.3%	1012	101.2%	1.9%	1000	999	99.9%	1000	978	97.8%
Na 568.821	50-1000ppm	4.56	4.98	48.4	96.9%	48.9	97.8%	0.9%	50	48.0	95.9%	50	47.3	94.5%
Na 589.592	0.5-50ppm	0.25	0.17	49.6	99.1%	50.2	100.4%	1.3%	50	50.0	100.0%	50	48.6	97.3%
Si 251.611	0.5-200ppm	0.09	0.05	50.0	100.0%	50.9	101.8%	1.7%	50	50.6	101.3%	107	105.5	98.6%
Si 252.411	0.5-200ppm	0.08	0.02	49.7	99.3%	50.7	101.4%	2.1%	50	50.5	100.9%	107	105.3	98.4%

Sample ID AB12759

Analyte/	Sample	MS	%Rec	MSD	%Rec	%Diff	CCV (90-110%)			%Diff	CC
WL	Value	Value	70-130%	Value	70-130%		Value	Result	%Rec	10%	Blank
B 249.678	0.00	0.97	96.6%	0.98	97.6%	1.1%	1	0.97	96.7%	4.8%	-0.01
B 249.772	0.01	0.97	96.7%	0.98	97.5%	0.8%	1	0.96	96.5%	5.6%	0.00
Ca 317.933	30.0	81.6	103.3%	81.1	102.3%	0.6%	50	47.9	95.8%	3.4%	-5.26
Ca 396.847	31.6	73.7	84.2%	73.2	83.1%	0.7%	50	46.4	92.9%	7.8%	-0.17
Fe 238.204	3	994	99.1%	976	97.3%	1.8%	1000	969	96.9%	3.5%	-1.27
Fe 259.940	4	986	98.2%	967	96.4%	1.9%	1000	953	95.3%	5.0%	-1.91
K 766.491	2.9	12.0	91.8%	11.9	90.7%	0.9%	10	9.3	92.7%	8.1%	0.07
Mg 202.582	8.4	57.7	98.6%	57.9	99.0%	0.3%	50	47.8	95.5%	6.1%	-1.85
Mg 279.078	9.7	57.0	94.5%	57.2	95.0%	0.4%	50	47.7	95.3%	4.5%	0.02
Mn 257.610	-5	954	95.9%	960	96.5%	0.6%	1000	953	95.3%	5.0%	-5.16
Mn 260.568	-4	964	96.8%	962	96.6%	0.2%	1000	957	95.7%	4.3%	-5.22
Na 568.821	39.1	80.5	82.8%	83.1	88.0%	3.2%	50	45.3	90.6%	5.7%	4.82

Na 589.592	41.5	86.4	89.8%	85.5	88.0%	1.0%	50	46.4	92.7%	7.5%	0.17
Si 251.611	40.8	86.8	91.8%	87.4	93.1%	0.7%	50	48.2	96.5%	4.9%	-0.04
Si 252.411	40.6	86.7	92.2%	87.1	93.1%	0.5%	50	48.1	96.3%	4.7%	-0.04

300.0 QC Summary

All units expressed in mg/L

		F	Cl	NO2-N	SO4	Br	NO3-N
		2	20	2	20	2	2
IPC		2.25	19.68	2.07	18.86	2.11	1.99
Recovery	90-110%	112.49	98.38	103.63	94.31	105.41	99.33
CCV1		2.44	20.04	2.09	19.13	2.11	2.00
Recovery	90-110%	122.11	100.20	104.34	95.67	105.54	99.88
RPD	10%	8.20	1.83	0.69	1.43	0.12	0.56
CCV2		2.16	19.62	2.09	19.00	2.10	1.98
Recovery	90-110%	108.15	98.10	104.59	94.98	105.07	99.22
RPD	10%	3.93	0.29	0.92	0.71	0.32	0.11
AB12880		0.28	143.60	0.12	289.58	0.18	23.93
AB12880+LFM		2.45	164.85	1.93	311.15	1.83	26.17
AB12880+LFMD		2.48	164.58	1.93	311.26	1.85	26.15
Average		2.47	164.71	1.93	311.21	1.84	26.16
Recovery	80-120%	109.39	105.58	90.57	108.12	83.36	111.70
RPD	10%	1.21	0.08	0.05	0.02	0.50	0.03
AB12890		0.22	23.67	0.45	125.80	0.00	25.36
AB12890+LFM		2.42	43.76	2.24	144.83	1.66	27.62
AB12890+LFMD		2.42	43.92	2.25	144.95	1.66	27.42
Average		2.42	43.84	2.25	144.89	1.66	27.52
Recovery	80-120%	109.99	100.86	90.08	95.42	82.99	107.99
RPD	10%	0.20	0.19	0.26	0.04	0.20	0.37

PO4-P
2
1.93
96.65
1.96
98.06
1.45
1.96
97.78
1.17
0.00
1.35
1.34
1.35
67.27
0.12
0.00
1.53
1.53
1.53
76.48
0.15

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Phosphorus QC Summary (Hach 8190)

Date: 3/14/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
LCS	0.200	0.209	104.5	90-110
QCS	0.200	0.211	105.5	90-110
CCV	0.200	0.218	109	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12792	0.000	0.200	0.161	0.154	80.5	77	4.4	85-120	10

Note: possible matrix interference observed. Data accepted based on LCS, QCS, and CCV recoveries.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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Specific Conductance QC Summary (SM 2510B)

Date Analyzed: 3/14/2014

	Value (umhos/cm)	Result (umhos/cm)	% Rec	Acceptance Criteria %Rec
IPC	1412	1412	100.0%	95-105

Sample ID	Sample (umhos/cm)	Sample Dup (umhos/cm)	% RPD	Acceptance Criteria % RPD
AB12816	37640	37400	0.6%	10
AB12872	993	987	0.6%	10
AB12882	1064	1072	0.7%	10
AB12892	878	881	0.3%	10
AB12910	578	570	1.4%	10
AB12920	1338	1319	1.4%	10
AB12923	1765	1760	0.3%	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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TDS/TSS QC Summary (SM 2540C/D)

Date Analyzed: 3/14/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC 100	100	100	100	80-120
IPC 500	500	494	98.8	90-110

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12905	546	540	1.1	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

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Kjehldahl Nitrogen QC Summary (SM 4500-NH3)

Date: 3/17/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	5.0	5.200	104	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12627	2.400	5.000	7.200	7.300	96	98	1.4	85-120	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

QC Summary for 200.8

Spiked Sample

ID AB12763

Date Analyzed

Monday, March 17, 2014

	IPC Blank	QCS 50	Prep Blank	LCS	LCSD	LCS/LCSD	Sample	Spiked	MS	MSD	MS-MSD	LFB	LFB	LFB-LFBD	IPC Blank
	ug/L	%Rec.	ug/L	% Rec	%Rec	%RPD	ug/L	ug/L	%Rec.	% Rec.	% RPD	% Rec	% Rec	% RPD	ug/L
		85-115%		70-130%	70-130%	20%			70-130%	70-130%	20%	85-115%	85-115%	20%	
Lithium	0.01	101.6	0.07	112.3	117.0	4.09	1.0	50	120.2	111.9	7.15	99.4	111.2	11.21	0.03
Aluminum	-0.17	105.0	1.81	102.7	103.0	0.32	9.8	50	114.9	104.6	9.43	104.2	103.8	0.42	-0.11
Nickel	-0.01	98.5	0.05	98.1	100.4	2.36	-0.1	50	96.2	90.7	5.96	99.3	93.6	5.92	-0.02
Copper	-0.01	99.0	1.35	103.8	106.9	2.96	1.0	50	101.0	94.5	6.64	99.2	98.6	0.70	0.12
Zinc	-0.14	115.3	10.44	117.9	116.5	1.15	25.9	50	107.8	139.1	25.38	98.7	105.4	6.56	1.20
Arsenic	-0.02	97.7	-0.44	105.4	106.1	0.66	0.4	50	113.3	112.2	0.96	100.5	105.4	4.74	-0.09
Selenium	0.08	103.4	-0.04	105.3	108.1	2.61	2.4	250	121.1	117.9	2.73	101.6	106.9	5.06	0.03
Strontium	0.00	104.6	0.13	105.9	107.0	1.10	1.4	50	107.3	102.4	4.73	99.6	102.9	3.25	0.00
Molybdenum	0.01	97.5	0.02	98.8	98.6	0.21	0.1	50	95.2	90.9	4.68	99.2	90.0	9.70	0.01
Barium	0.00	99.1	0.07	98.2	98.6	0.45	0.7	50	97.8	93.4	4.66	100.0	94.5	5.73	-0.01

MS = Matrix Spike MSD = Matrix Spike Duplicate; LFB = Laboratory Fortified Blank; LFBD = Laboratory Fortified Blank Duplicate RPD = Relative Percent Difference

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Alkalinity QC Summary (SM 2320B)

Date Analyzed: 3/192014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	40	40.1	100.25	95-105
IPC	40	40.5	101.25	95-105
IPC	40	40.5	101.25	95-105
IPC	40	40.5	101.25	95-105
IPC	40	40.7	101.75	95-105

Sample ID	Sample (mg/L)	Sample Dup (mg/L)	% RPD	Acceptance Criteria % RPD
AB12790	247.7	248.3	0.24	10
AB12870	241.1	241.5	0.17	10
AB12880	272.5	271.9	0.22	10
AB12890	191.1	191.7	0.31	10
AB12908	1.1	1.1	0.00	10
AB12918	306.1	304.3	0.59	10
AB12965	232.5	231.3	0.52	10
AB12975	203.3	204.1	0.39	10
AB13078	370.5	360.5	2.74	10

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

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Ammonia by Electrode QC Summary (SM 4500-NH3)

Date: 3/21/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC (Low)	0.050	0.0451	90.2	90-110
IPC (High)	0.500	0.461	92.2	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB13151	0.009	0.500	0.406	0.439	79.4	86.0	7.8	85-120	10

Note: The MS and MSD does not meet the acceptance criteria for the recovery percent. The data is accepted because the recovery percent for the IPC (Low) and IPC (High) meet the acceptance criteria.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; IPC = Instrument Performance Check
RPD = Relative Percent Difference; Rec = Recovery

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Phosphorus QC Summary (Hach 8190)

Date: 3/21/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
LCS	0.200	0.214	107	90-110
QCS	0.200	0.185	92.5	90-110
CCV	0.200	0.216	108	90-110

Spiked Sample ID	Sample (mg/L)	Spiked (mg/L)	MS (mg/L)	MSD (mg/L)	MS % Rec	MSD % Rec	MS-MSD % RPD	Acceptance Criteria %	
								MS/MSD	RPD
AB12896	0.050	0.200	0.267	0.268	108.5	109	0.4	85-120	10

Note: possible matrix interference observed. Data accepted based on LCS, QCS, and CCV recoveries.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source;
RPD = Relative Percent Difference; Rec = Recovery

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MBAS QC Summary (SM 5540C)

Date Analyzed: 3/13/2014

	Value (mg/L)	Result (mg/L)	% Rec	Acceptance Criteria %
IPC	0.050	0.042	84	80-120
IPC	0.500	0.491	98.2	80-120
IPC	0.050	0.059	118	80-120

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; SS = Second Source; RPD = Relative Percent Difference; Rec = Recovery

Ceres Analytical Laboratory, Inc.
4919 Windplay Dr., Suite 1
El Dorado Hills, CA 95762

March 19, 2014 Ceres ID: 10296

Monterey Bay Analytical
Mr. David Holland
4 Justin Court, Ste. D
Monterey, CA 93940

Mr. Holland,

Enclosed please find the results for one aqueous sample received on March 14, 2014. This sample was analyzed for 2,3,7,8-TCDD by EPA 1613. **Rush** 5 day turn-around time was provided for this work.

This work was authorized under M.B.A.'s Project # 12896.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

The Sample Tracking Section includes all external and internal chain of custodies, laboratory bench sheets, and any special instructions received.

If you have any questions regarding this report, please feel free to contact me at (888)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
10296-001	CX-B2WQ Zone #4 (55-65 ft bags)	3/14/2014	3/12/2014	17:15

Section II: Data Summary

Sample ID:	**Method Blank**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-MB001 — Date Received: NA
Project:	12896	Sample Size: 1.000 L	QC Batch #: 1168 — Date Extracted: 18-Mar-14
Date Collected:	NA		ZB-5 MS Analysis Date: 19-Mar-14
Time Collected:	NA		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	3.64		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	107	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	105	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Sample ID:	**Ongoing Precision and Recovery**		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 0-OPR001
Project:	12896	Sample Size: 1.000 L	QC Batch #: 1168
Date Collected:	NA		ZB-5 MS Analysis Date: 19-Mar-14
Time Collected:	NA		

Date Received:	NA
Date Extracted:	18-Mar-14

Analyte	Conc. (ng/ml)	Limits [a]	Qualifiers
2,3,7,8-TCDD	9.89	7.3-14.6	

	Labeled Standards	Conc.	Limits [a]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	103	25-141	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	10.3	3.7-15.8	

a. Method acceptance criteria .

Analyst: JMH

Reviewed by: BS

Sample ID:	CX-B2WQ Zone #4		
Client Data		**Sample Data**	**Laboratory Data**
Name:	Monterey Bay Analytical	Matrix: Aqueous	Lab Sample ID: 10296-001 — Date Received: 14-Mar-14
Project:	12896	Sample Size: 1.047 L	QC Batch #: 1168 — Date Extracted: 18-Mar-14
Date Collected:	12-Mar-14		ZB-5 MS Analysis Date: 19-Mar-14
Time Collected:	17:15		

Analyte	Conc. (pg/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	4.67		

	Labeled Standards	% R	LCL-UCL [c]	Qualifiers
IS	^{13}C-2,3,7,8-TCDD	102	31 - 137	
CRS	$^{37}Cl_4$-2,3,7,8-TCDD	101	42 - 164	

a. Sample specific estimated detection limit.
b. Estimated maximum possible concentration.
c. Lower control limit - upper control limit.

Analyst: JMH

Reviewed by: BS

Section VI: Sample Tracking

10298

Ceres Analytical Laboratory, Inc.

Chain of Custody

Ceres Use Only

Pg Appendix G of

4919 Windplay Dr. Suite 1
El Dorado Hills, CA 95762
Tel: (916)932-5011

Please Print in Pen

Ceres Project ID: 10296
Temperature: 2.8 °C

Reports and invoices will be delivered by email in .pdf format

Client Information	Invoice Information(if different from Client Info)	Project Information
Company Name: Monterey Bay Analytical	Company Name: Same	Ceres Quote #:
Contact Name: David Holland	Contact Name:	P.O. #
Address: 4 Justin Court Ste D Monterey CA 93940	Address:	Project ID:
Ph: 831-375-6227	Ph: Fx:	**TAT** (business days)
Email: montereybayanalytical@usa.net	Email:	Std 15 days; Rush TAT available please call

Matrix abreviations:

A: Aqueous	S: Soil	AS: Ash	DW: Drinking Water
E: Effluent	SD: Sediment	C: Clay	SO: Solid
I: Influent	SL: Sludge	CS: Clay Slurry	O: Other (please comment)

TEF: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Sample Collection Date	Sample Collection Time	Matrix	# of containers	EPA 1613	EPA 8290	NCASI 551	EPA 8280	EPA 613	Other	Comments
1	CX-B1WQ Zone #4 (55-65 ft bags)	3/12/2014	17:15	Aq	2	X						12896
2	↑ changed ITD 2 per S. McGinnis 3/14/14											(2,3,7,8 TCDD only)
3												5 day Rush Please
4												
5												
6												
7												
8												
9												
10												
11												
12												

Samples will be disposed of 45 days after submission of report, unless other provisions have been made and agreed upon in writing.

Relinquished by: *(Signature and Printed Name)*	Date	Time	Received by: *(signature and Printed Name)*	Date	Time
David Holland	3/13/2014	12:00	Deborah Debbie Hedin	3/14/14	9:47

Client understands that all terms desribed in the proposals, quotations, and/or the general terms and conditions of Ceres Analytical Laboratory will be followed.

Ceres Analytical Laboratory reserves the right to terminate its service or withhold delivery of reports, if in Ceres' discretion the terms of the project have been broken.

Sample Receipt Check List

Ceres ID: 10296	Date/Time: 3/14/14 9:43
Client Project ID: 12896	Received Temperature: 2.8°C Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present?	Y / N / NA

List COC discrepancies:

CX - B2WQ on bottle
CX - B1WQ on chain of custody

List Damaged Samples:

yeast 3/14/14

Ceres Analytical Laboratory

Process Request

Ceres ID: 10296 PB: 1168 Sample #s: 1 Due Date: 3/19/14

Matrix (circle one): Drinking Water Aqueous Effluent Influent Ash

Solid Soil Sediment Sludge Clay/Clay Slurry Other: _____

Method (check one):

- ☐ 1613 2,3,7,8-TCDD
- ☐ 1613 2,3,7,8-TCDD/F
- ☐ 1613 Cl_4-Cl_8
- ☐ 8280 2,3,7,8-TCDD
- ☐ 8280 2,3,7,8-TCDD/F
- ☐ 8280 Appendix IX
- ☐ 8280 Cl_4-Cl_8
- ☐ 8290 2,3,7,8-TCDD
- ☐ 8290 2,3,7,8-TCDD/F
- ☐ 8290 Cl_4-Cl_8
- ☐ NCASI 551

Instructions:

Sample Volume Calculation

Instructions:
1. Calibrate balance
2. Tare balance
3. Place Full sample bottle with cap on balance. Record weight as Sample+Bottle Wt.
4. Weigh empty bottle and cap. Record as Bottle Wt.
5. Calculate sample Volume (assuming 1g = 1ml) as follows:

$$Sample\ Volume = (Sample + Bottle\ Wt) - Empty\ Bottle\ Wt.$$

Ceres ID	Sample +Bottle Wt.	Empty Bottle Wt.	Sample Volume
10296-1	1566.39	513.17	1.047 L

Chemist: [signature] Date: 3/18/14

Appendix G

Method: 1613

SOP #: 301.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Ceres ID	Client ID	Ver.	wt/vol	B ISS/PAR chem/date/witness	CSS chem/date/witness	AP	AB/AC	FC	RSS chem/date/witness
0-1168-MB001 (B)	Method Blank		1.000L	3/18/14	3/19/14	NA	3/19/14	NA	3/19/14
0-1168-OPR001	OPR		1.000L	(A)					
10296-1168-001	CX-B2WQ Zone #4	✓	1.047L						

Comments: (A) Spiked w/NSS (B) Double Spiked by Mistake

Soxhlet Start: 15:00 3/18/14

Soxhlet Stop: 07:20 3/19/14

Samples Logged out by: 09:00 3/18/14

Samples Returned by: NA

Note samples Depleted: 1A

Sample Extracts Storage Location: Box 8

Extracts to Intrument: 11:27 3/19/14

Extracts returned to Storage Location:

Chemist: G-626

Form M1.0 rev4

Effective Date: 7/12/13

Method: 1613
SOP #: 302.1

Ceres Analytical Laboratory

Sample Prep Bench Sheet

Standard	Standard ID	Vol.	Expiration Date	
ISS	5031212A	10µl	3/12/17	20
NSS	5031212B	10µl	3/12/17	20
CSS	5031212C	10µl	3/12/17	20
RSS	5031212D	20µl	3/12/17	40

Double Spiked by mistake

Solvents/Solutions/Packing Materials

Name	Amount	Lot #	Exp. Date
Toluene	450ml	134020	8/17/14
Hexane	30,30,100,20	53263	9/19/14
Sigel	4g	P030114A	9/1/14
basicgel	4g	P031914A	9/19/14
acid gel	8g	P031114A	9/11/14
acid Al	6g	P031114B	9/11/14
Na_2SO_4	1.5g	P120413A	6/4/14
20% Acty Hex	30ml	L031914A	9/19/14

Form M1.0 rev4

Chemist : G-627

Effective Date: 7/12/13

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

Travis Peterson
California American Water
836 Carmel Ave.
Monterey, CA 93940

RE: Report for A3J0709 Water Quality Analysis

Dear Travis Peterson,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 10/8/2013. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michael Ng, Project Manager

If additional clarification of any information is required, please contact your Project Manager, Michael Ng , at (800) 877-8310 or (559) 497-2888 x118.

Case Narrative

Project and Report Details		Invoice Details	
Client:	California American Water	**Invoice To:**	California American Water
Report To:	Travis Peterson	**Invoice Attn:**	Accounts Payable
Project #:	Water Quality Analysis	**Project PO#:**	-
Received:	10/08/2013 - 09:53		
Report Due:	10/22/2013		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 5.6

Containers Intact
COC/Labels Agree
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
DL1.0	Sample required a dilution due to the matrix or high concentration of a non-target analyte.
HT1.0	Holding time exceeded. Sample was received at the lab past holding time.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
SR1.0	Surrogate recovery exceeds upper control limit. No material impact as sample results are Non-Detected.
SR3.0	Surrogate recovery exceeds control limits. No material impact as spike recoveries are all within control ranges.
X.0	Sample filtered prior to analysis

Report Distribution

Recipient(s)	Report Format
Travis Peterson	Final.rpt
Sarp Sekeroglu	Final.rpt

Certificate of Analysis

Sample ID: A3J0709-01
Sampled By: Client
Sample Description: Water Samples

Sample Date - Time: 10/05/13 - 00:00
Matrix: Water
Sample Type: Grab

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320 B	**330**	3.0	mg/L	1	A311859	10/08/13	10/08/13	X.0
Bicarbonate as CaCO3	SM 2320 B	**330**	3.0	mg/L	1	A311859	10/08/13	10/08/13	X.0
Carbonate as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A311859	10/08/13	10/08/13	X.0
Hydroxide as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A311859	10/08/13	10/08/13	X.0
Ammonia as N	SM 4500-NH3 G	**15**	0.10	mg/L	1	A312186	10/15/13	10/16/13	X.0
Bromide	EPA 300.1	**43**	1.0	mg/L	200	A312042	10/10/13	10/10/13	X.0
Surrogate: Dichloroacetate	EPA 300.1	108 %	*Acceptable range:*	*90-115 %*		*Qualifiers -*	*X.0*		
Chloride	EPA 300.0	**12000**	200	mg/L	200	A311905	10/08/13	10/08/13	X.0
Color, Apparent	SM 2120 B	**250**	10	CU	10	A311846	10/08/13 15:36	10/08/13	
Conductivity @ 25C	SM 2510 B	**30000**	1.0	umhos/cm	1	A311859	10/08/13	10/08/13	
Fluoride	SM 4500-F C	**0.12**	0.10	mg/L	1	A312667	10/23/13	10/23/13	
Mass Balance-Anions		**380**		meq/L					
Mass Balance-Dissolved Cations		**360**		meq/L					
MBAS, Calculated as LAS, mol wt 340	SM 5540 C	ND	0.25	mg/L	5	A311939	10/09/13 05:20	10/09/13	HT1.0
Nitrate as NO3	EPA 300.0	ND	200	mg/L	200	A311905	10/08/13 17:27	10/08/13	DL1.0, X.0
Nitrite as N	EPA 300.0	ND	10	mg/L	200	A311905	10/08/13 17:27	10/08/13	DL1.0, X.0
Threshold Odor	SM 2150 B	**20**	1.0	T.O.N.	1	A311846	10/08/13 14:47	10/08/13	
Orthophosphate as P	SM 4500-P E	ND	0.010	mg/L	1	A311969	10/09/13 14:45	10/09/13	HT1.0, X.0
pH (1)	SM 4500-H+ B	**7.4**		pH Units	1	A311859	10/08/13	10/08/13	
pH Temperature in °C		**21.6**							
Phosphorus - Dissolved (1)	EPA 365.4	**0.18**	0.10	mg/L	1	A312089	10/11/13	10/16/13	
Sulfate as SO4	EPA 300.0	**1400**	400	mg/L	200	A311905	10/08/13	10/08/13	X.0
Total Dissolved Solids	SM 2540C	**22000**	5.0	mg/L	1	A312067	10/11/13	10/16/13	
Total Kjeldahl Nitrogen - Dissolved (1)	EPA 351.2	**16**	1.0	mg/L	1	A312089	10/11/13	10/16/13	
Total Oxidizable Nitrogen, as N - Dissolved (1)	SM 4500-NO3 F	ND	0.10	mg/L	1	A312125	10/14/13	10/14/13	
Turbidity	SM 2130 B	**150**	2.0	NTU	20	A311846	10/08/13 15:36	10/08/13	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aluminum	EPA 200.7	ND	0.50	mg/L	10	A311945	10/09/13	10/16/13	
Arsenic	EPA 200.8	**3.4**	2.0	ug/L	1	A311945	10/09/13	10/14/13	
Barium - Dissolved (1)	EPA 200.7	**0.16**	0.050	mg/L	1	A312073	10/11/13	10/15/13	
Boron - Dissolved (1)	EPA 200.7	**2.1**	0.10	mg/L	1	A312073	10/11/13	10/15/13	
Calcium	EPA 200.7	**590**	1.0	mg/L	10	A311945	10/09/13	10/16/13	
Calcium - Dissolved (1)	EPA 200.7	**590**	0.10	mg/L	1	A312073	10/11/13	10/15/13	
Copper	EPA 200.8	**37**	5.0	ug/L	1	A311945	10/09/13	10/14/13	
Hardness as CaCO3	SM 2340B	**4700**	4.1	mg/L					
Iron	EPA 200.7	**20**	0.30	mg/L	10	A311945	10/09/13	10/16/13	
Iron - Dissolved (1)	EPA 200.7	**6.0**	0.030	mg/L	1	A312073	10/11/13	10/15/13	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A3J0709-01
Sampled By: Client
Sample Description: Water Samples

Sample Date - Time: 10/05/13 - 00:00
Matrix: Water
Sample Type: Grab

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Magnesium	EPA 200.7	**780**	1.0	mg/L	10	A311945	10/09/13	10/16/13	
Magnesium - Dissolved (1)	EPA 200.7	**810**	0.10	mg/L	1	A312073	10/11/13	10/15/13	
Manganese	EPA 200.7	**5.3**	0.10	mg/L	10	A311945	10/09/13	10/16/13	
Manganese - Dissolved (1)	EPA 200.7	**5.2**	0.010	mg/L	1	A312073	10/11/13	10/15/13	
Potassium - Dissolved (1)	EPA 200.7	**92**	2.0	mg/L	1	A312073	10/11/13	10/15/13	
Silica (SiO2) - Dissolved (1)	EPA 200.7	**26**	0.20	mg/L	1	A312073	10/11/13	10/15/13	
Sodium - Dissolved (1)	EPA 200.7	**6000**	20	mg/L	20	A312073	10/11/13	10/16/13	
Strontium - Dissolved (1)	EPA 200.8	**7100**	10	ug/L	10	A312073	10/11/13	10/17/13	
Zinc	EPA 200.7	ND	0.50	mg/L	10	A311945	10/09/13	10/16/13	

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A311954	10/09/13	10/14/13	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A311954	10/09/13	10/14/13	
Surrogate: TCMX	EPA 504.1	165 %	*Acceptable range: 70-130 %*			*Qualifiers -*	*SR1.0*		
Organohalide Pesticides and PCBs by GC-ECD									
Aldrin	EPA 505	ND	0.075	ug/L	1	A311954	10/09/13	10/14/13	
Chlordane	EPA 505	ND	0.10	ug/L	1	A311954	10/09/13	10/14/13	
Chlorothalonil	EPA 505	ND	5.0	ug/L	1	A311954	10/09/13	10/14/13	
Dieldrin	EPA 505	ND	0.020	ug/L	1	A311954	10/09/13	10/14/13	
Endrin	EPA 505	ND	0.10	ug/L	1	A311954	10/09/13	10/14/13	
Heptachlor	EPA 505	ND	0.010	ug/L	1	A311954	10/09/13	10/14/13	
Heptachlor Epoxide	EPA 505	ND	0.010	ug/L	1	A311954	10/09/13	10/14/13	
Hexachlorobenzene	EPA 505	ND	0.50	ug/L	1	A311954	10/09/13	10/14/13	
Hexachlorocyclopentadiene	EPA 505	ND	1.0	ug/L	1	A311954	10/09/13	10/14/13	
Lindane	EPA 505	ND	0.20	ug/L	1	A311954	10/09/13	10/14/13	
Methoxychlor	EPA 505	ND	10	ug/L	1	A311954	10/09/13	10/14/13	
PCB Aroclor Screen	EPA 505	ND	0.50	ug/L	1	A311954	10/09/13	10/14/13	
Toxaphene	EPA 505	ND	1.0	ug/L	1	A311954	10/09/13	10/14/13	
Trifluralin	EPA 505	ND	1.0	ug/L	1	A311954	10/09/13	10/14/13	
Surrogate: TCMX	EPA 505	165 %	*Acceptable range: 70-130 %*			*Qualifiers -*	*SR1.0*		
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A311994	10/09/13	10/11/13	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A311994	10/09/13	10/11/13	
2,4-D	EPA 515.3	ND	10	ug/L	1	A311994	10/09/13	10/11/13	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A311994	10/09/13	10/11/13	
Dalapon	EPA 515.3	ND	10	ug/L	1	A311994	10/09/13	10/11/13	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A311994	10/09/13	10/11/13	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A311994	10/09/13	10/11/13	

Certificate of Analysis

Sample ID: A3J0709-01
Sampled By: Client
Sample Description: Water Samples

Sample Date - Time: 10/05/13 - 00:00
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chlorinated Acid Herbicides by GC-ECD									
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A311994	10/09/13	10/11/13	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A311994	10/09/13	10/11/13	
Surrogate: DCPAA	EPA 515.3	79 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A312121	10/14/13	10/14/13	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A312121	10/14/13	10/14/13	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A312121	10/14/13	10/14/13	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A312121	10/14/13	10/14/13	
Acetone	EPA 524.2	ND	10	ug/L	1	A312121	10/14/13	10/14/13	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	BS1.0
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	

Certificate of Analysis

Sample ID: A3J0709-01
Sampled By: Client
Sample Description: Water Samples

Sample Date - Time: 10/05/13 - 00:00
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A312121	10/14/13	10/14/13	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A312121	10/14/13	10/14/13	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A312121	10/14/13	10/14/13	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A312121	10/14/13	10/14/13	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	95 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	99 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A312014	10/10/13	10/12/13	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A312014	10/10/13	10/12/13	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A312014	10/10/13	10/12/13	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A312014	10/10/13	10/12/13	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A312014	10/10/13	10/12/13	
Bromacil	EPA 525.2	ND	10	ug/L	1	A312014	10/10/13	10/12/13	

Certificate of Analysis

Sample ID: A3J0709-01
Sampled By: Client
Sample Description: Water Samples

Sample Date - Time: 10/05/13 - 00:00
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Semi-Volatile Organics by GC-MS									
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A312014	10/10/13	10/12/13	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A312014	10/10/13	10/12/13	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A312014	10/10/13	10/12/13	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A312014	10/10/13	10/12/13	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A312014	10/10/13	10/12/13	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A312014	10/10/13	10/12/13	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A312014	10/10/13	10/12/13	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A312014	10/10/13	10/12/13	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A312014	10/10/13	10/12/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	113 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A312119	10/12/13	10/12/13	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A312119	10/12/13	10/12/13	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A312119	10/12/13	10/12/13	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A312119	10/12/13	10/12/13	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A312119	10/12/13	10/12/13	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A312119	10/12/13	10/12/13	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A312119	10/12/13	10/12/13	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A312119	10/12/13	10/12/13	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A312197	10/15/13	10/15/13	
Surrogate: AMPA	EPA 547	113 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A312182	10/14/13	10/15/13	HT1.0
Diquat by HPLC									
Diquat	EPA 549.2	ND	10	ug/L	2.5	A312161	10/14/13	10/16/13	HT1.0

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A311905										Prepared: 10/8/2013	
Prep Method: Method Specific Preparation										Analyst: AJT	
Blank (A311905-BLK1)											
Chloride	ND	1.0	mg/L							10/08/13	
Nitrate as NO3	ND	1.0	mg/L							10/08/13	
Nitrite as N	ND	0.050	mg/L							10/08/13	
Sulfate as SO4	ND	2.0	mg/L							10/08/13	
Blank Spike (A311905-BS1)											
Chloride	49	1.0	mg/L	50		99	90-110			10/08/13	
Nitrate as NO3	50	1.0	mg/L	50		99	90-110			10/08/13	
Nitrite as N	0.53	0.050	mg/L	0.50		106	90-110			10/08/13	
Sulfate as SO4	50	2.0	mg/L	50		99	90-110			10/08/13	
Blank Spike Dup (A311905-BSD1)											
Chloride	49	1.0	mg/L	50		99	90-110	0	20	10/08/13	
Nitrate as NO3	49	1.0	mg/L	50		99	90-110	0	20	10/08/13	
Nitrite as N	0.53	0.050	mg/L	0.50		106	90-110	0	20	10/08/13	
Sulfate as SO4	49	2.0	mg/L	50		99	90-110	1	20	10/08/13	
Matrix Spike (A311905-MS1), Source: A3J0708-03											
Chloride	110	2.0	mg/L	100	6.1	101	80-120			10/08/13	
Nitrate as NO3	120	2.0	mg/L	100	13	102	80-120			10/08/13	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	103	80-120			10/08/13	
Sulfate as SO4	110	4.0	mg/L	100	8.5	101	80-120			10/08/13	
Matrix Spike Dup (A311905-MSD1), Source: A3J0708-03											
Chloride	110	2.0	mg/L	100	6.1	99	80-120	1	20	10/08/13	
Nitrate as NO3	110	2.0	mg/L	100	13	100	80-120	1	20	10/08/13	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	102	80-120	1	20	10/08/13	
Sulfate as SO4	110	4.0	mg/L	100	8.5	100	80-120	1	20	10/08/13	
EPA 300.1 - Quality Control											
Batch: A312042										Prepared: 10/10/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A312042-BLK1)											
Bromide	ND	0.0050	mg/L							10/10/13	
Surrogate: Dichloroacetate	*0.497*			*0.50*		*99*	*90-115*			10/10/13	
Blank Spike (A312042-BS1)											
Bromide	0.20	0.0050	mg/L	0.20		102	85-115			10/10/13	
Surrogate: Dichloroacetate	*0.520*			*0.50*		*104*	*90-115*			10/10/13	
Blank Spike Dup (A312042-BSD1)											
Bromide	0.20	0.0050	mg/L	0.20		99	85-115	3	10	10/10/13	
Surrogate: Dichloroacetate	*0.516*			*0.50*		*103*	*90-115*			10/10/13	
Matrix Spike (A312042-MS1), Source: A3J1010-04											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.1 - Quality Control											
Batch: A312042										Prepared: 10/10/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Matrix Spike (A312042-MS1), Source: A3J1010-04											
Bromide	1.4	0.050	mg/L	1.0	0.41	97	75-125			10/10/13	
Surrogate: Dichloroacetate	*5.22*			*5.0*		*104*	*90-115*			10/10/13	
Matrix Spike (A312042-MS2), Source: A3J0947-01											
Bromide	0.35	0.010	mg/L	0.20	0.17	92	75-125			10/11/13	
Surrogate: Dichloroacetate	*1.06*			*1.0*		*106*	*90-115*			10/11/13	
Matrix Spike Dup (A312042-MSD1), Source: A3J1010-04											
Bromide	1.4	0.050	mg/L	1.0	0.41	97	75-125	0	10	10/10/13	
Surrogate: Dichloroacetate	*5.81*			*5.0*		*116*	*90-115*			10/10/13	*SR3.0*
Matrix Spike Dup (A312042-MSD2), Source: A3J0947-01											
Bromide	0.36	0.010	mg/L	0.20	0.17	96	75-125	2	10	10/11/13	
Surrogate: Dichloroacetate	*1.09*			*1.0*		*109*	*90-115*			10/11/13	
EPA 351.2 - Quality Control											
Batch: A312089										Prepared: 10/11/2013	
Prep Method: Digestion										Analyst: LJL	
Blank (A312089-BLK1)											
Total Kjeldahl Nitrogen - Dissolved (1)	ND	1.0	mg/L							10/16/13	
Blank Spike (A312089-BS1)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		103	90-110			10/16/13	
Blank Spike Dup (A312089-BSD1)											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10		106	90-110	2	10	10/16/13	
Matrix Spike (A312089-MS1), Source: A3J0687-08											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10	ND	111	90-110			10/16/13	MS1.0 ***High***
Matrix Spike (A312089-MS2), Source: A3J0782-04											
Total Kjeldahl Nitrogen - Dissolved (1)	14	1.0	mg/L	10	ND	138	90-110			10/16/13	MS1.0 ***High***
Matrix Spike Dup (A312089-MSD1), Source: A3J0687-08											
Total Kjeldahl Nitrogen - Dissolved (1)	9.5	1.0	mg/L	10	ND	95	90-110	15	10	10/16/13	MS1.0
Matrix Spike Dup (A312089-MSD2), Source: A3J0782-04											
Total Kjeldahl Nitrogen - Dissolved (1)	13	1.0	mg/L	10	ND	130	90-110	6	10	10/16/13	MS1.0 ***High***
EPA 365.4 - Quality Control											
Batch: A312089										Prepared: 10/11/2013	
Prep Method: Digestion										Analyst: LJL	
Blank (A312089-BLK1)											
Phosphorus - Dissolved (1)	ND	0.10	mg/L							10/16/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 365.4 - Quality Control											
Batch: A312089										Prepared: 10/11/2013	
Prep Method: Digestion										Analyst: LJL	
Blank Spike (A312089-BS1)											
Phosphorus - Dissolved (1)	9.4	0.10	mg/L	10		94	90-110			10/16/13	
Blank Spike Dup (A312089-BSD1)											
Phosphorus - Dissolved (1)	9.1	0.10	mg/L	10		91	90-110	3	10	10/16/13	
Matrix Spike (A312089-MS1), Source: A3J0687-08											
Phosphorus - Dissolved (1)	9.3	0.10	mg/L	10	0.16	92	90-110			10/16/13	
Matrix Spike (A312089-MS2), Source: A3J0782-04											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10	0.11	100	90-110			10/16/13	
Matrix Spike Dup (A312089-MSD1), Source: A3J0687-08											
Phosphorus - Dissolved (1)	9.4	0.10	mg/L	10	0.16	92	90-110	1	10	10/16/13	
Matrix Spike Dup (A312089-MSD2), Source: A3J0782-04											
Phosphorus - Dissolved (1)	9.7	0.10	mg/L	10	0.11	96	90-110	4	10	10/16/13	
SM 2120 B - Quality Control											
Batch: A311846										Prepared: 10/8/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311846-BLK1)											
Color, Apparent	ND	1.0	CU							10/08/13	
Duplicate (A311846-DUP1), Source: A3J0642-02											
Color, Apparent	ND	1.0	CU		ND				20	10/08/13	
Duplicate (A311846-DUP2), Source: A3J0665-01											
Color, Apparent	15	1.0	CU		15			0	20	10/08/13	
SM 2130 B - Quality Control											
Batch: A311846										Prepared: 10/8/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311846-BLK1)											
Turbidity	ND	0.10	NTU							10/08/13	
Duplicate (A311846-DUP1), Source: A3J0642-02											
Turbidity	ND	0.10	NTU		ND				20	10/08/13	
Duplicate (A311846-DUP2), Source: A3J0665-01											
Turbidity	5.4	0.10	NTU		5.3			3	20	10/08/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2150 B - Quality Control											
Batch: A311846										Prepared: 10/8/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311846-BLK1)											
Threshold Odor	ND	1.0	T.O.N.							10/08/13	
Duplicate (A311846-DUP1), Source: A3J0642-02											
Threshold Odor	1.0	1.0	T.O.N.		1.0			0	20	10/08/13	
Duplicate (A311846-DUP2), Source: A3J0665-01											
Threshold Odor	1.0	1.0	T.O.N.		1.0			0	20	10/08/13	
SM 2320 B - Quality Control											
Batch: A311859										Prepared: 10/8/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A311859-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							10/08/13	
Bicarbonate as CaCO3	ND	3.0	mg/L							10/08/13	
Carbonate as CaCO3	ND	3.0	mg/L							10/08/13	
Hydroxide as CaCO3	ND	3.0	mg/L							10/08/13	
Blank Spike (A311859-BS1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		104	80-120			10/08/13	
Blank Spike Dup (A311859-BSD1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		104	80-120	0	20	10/08/13	
Duplicate (A311859-DUP1), Source: A3J0665-01											
Alkalinity as CaCO3	42	3.0	mg/L		42			1	10	10/08/13	
Bicarbonate as CaCO3	42	3.0	mg/L		42			1	10	10/08/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	10/08/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	10/08/13	
Duplicate (A311859-DUP2), Source: A3J0701-01											
Alkalinity as CaCO3	99	3.0	mg/L		98			1	10	10/08/13	
Bicarbonate as CaCO3	99	3.0	mg/L		98			1	10	10/08/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	10/08/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	10/08/13	
SM 2510 B - Quality Control											
Batch: A311859										Prepared: 10/8/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A311859-BLK1)											
Conductivity @ 25C	ND	1.0	umhos/cm							10/08/13	
Duplicate (A311859-DUP1), Source: A3J0665-01											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2510 B - Quality Control											
Batch: A311859										Prepared: 10/8/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Duplicate (A311859-DUP1), Source: A3J0665-01											
Conductivity @ 25C	300	1.0	umhos/cm		300			0	20	10/08/13	
Duplicate (A311859-DUP2), Source: A3J0701-01											
Conductivity @ 25C	510	1.0	umhos/cm		510			0	20	10/08/13	
SM 2540C - Quality Control											
Batch: A312067										Prepared: 10/11/2013	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank (A312067-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							10/16/13	
Blank Spike (A312067-BS1)											
Total Dissolved Solids	1000	5.0	mg/L	1000		100	70-130			10/16/13	
SM 4500-F C - Quality Control											
Batch: A312667										Prepared: 10/23/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A312667-BLK1)											
Fluoride	ND	0.10	mg/L							10/23/13	
Blank Spike (A312667-BS1)											
Fluoride	1.0	0.10	mg/L	1.0		100	90-110			10/23/13	
Blank Spike Dup (A312667-BSD1)											
Fluoride	1.0	0.10	mg/L	1.0		101	90-110	1	20	10/23/13	
Matrix Spike (A312667-MS1), Source: A3J1329-01											
Fluoride	1.1	0.10	mg/L	1.0	ND	100	80-120			10/23/13	
Matrix Spike Dup (A312667-MSD1), Source: A3J1329-01											
Fluoride	1.1	0.10	mg/L	1.0	ND	100	80-120	0	20	10/23/13	
SM 4500-H+ B - Quality Control											
Batch: A311859										Prepared: 10/8/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Duplicate (A311859-DUP1), Source: A3J0665-01											
pH (1)	7.3		pH Units		7.2			1	20	10/08/13	
Duplicate (A311859-DUP2), Source: A3J0701-01											
pH (1)	7.9		pH Units		7.8			0	20	10/08/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-NH3 G - Quality Control											
Batch: A312186										Prepared: 10/15/2013	
Prep Method: Ammonia Distillation										Analyst: LJL	
Blank (A312186-BLK1)											
Ammonia as N	ND	0.10	mg/L							10/16/13	
Blank Spike (A312186-BS1)											
Ammonia as N	10	0.10	mg/L	10		101	80-120			10/16/13	
Blank Spike Dup (A312186-BSD1)											
Ammonia as N	9.9	0.10	mg/L	10		99	80-120	2	20	10/16/13	
Matrix Spike (A312186-MS1), Source: A3J0709-01											
Ammonia as N	23	0.50	mg/L	10	15	82	80-120			10/16/13	
Matrix Spike Dup (A312186-MSD1), Source: A3J0709-01											
Ammonia as N	21	0.50	mg/L	10	15	61	80-120	9	20	10/16/13	MS1.0 ***Low***
SM 4500-NO3 F - Quality Control											
Batch: A312125										Prepared: 10/14/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Blank (A312125-BLK2)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	ND	0.10	mg/L							10/14/13	
Blank Spike (A312125-BS1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.8	0.10	mg/L	10		98	80-120			10/14/13	
Blank Spike Dup (A312125-BSD1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10		101	80-120	2	20	10/14/13	
Matrix Spike (A312125-MS2), Source: A3J0790-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	8.8	0.10	mg/L	10	ND	88	80-120			10/14/13	
Matrix Spike Dup (A312125-MSD2), Source: A3J0790-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.1	0.10	mg/L	10	ND	91	80-120	3	20	10/14/13	
SM 4500-P E - Quality Control											
Batch: A311969										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Blank (A311969-BLK1)											
Orthophosphate as P	ND	0.010	mg/L							10/09/13	
Blank Spike (A311969-BS1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		100	90-110			10/09/13	
Blank Spike Dup (A311969-BSD1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		102	90-110	1	20	10/09/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-P E - Quality Control											
Batch: A311969										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Matrix Spike (A311969-MS1), Source: A3J0790-01											
Orthophosphate as P	1.4	0.050	mg/L	1.2	0.16	98	80-120			10/09/13	
Matrix Spike Dup (A311969-MSD1), Source: A3J0790-01											
Orthophosphate as P	1.4	0.050	mg/L	1.2	0.16	99	80-120	1	20	10/09/13	
SM 5540 C - Quality Control											
Batch: A311939										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311939-BLK1)											
MBAS, Calculated as LAS, mol wt 340	ND	0.050	mg/L							10/09/13	
Blank Spike (A311939-BS1)											
MBAS, Calculated as LAS, mol wt 340	0.94	0.050	mg/L	1.0		94	80-120			10/09/13	
Blank Spike Dup (A311939-BSD1)											
MBAS, Calculated as LAS, mol wt 340	0.95	0.050	mg/L	1.0		95	80-120	2	20	10/09/13	
Matrix Spike (A311939-MS1), Source: A3J0748-01											
MBAS, Calculated as LAS, mol wt 340	0.80	0.050	mg/L	1.0	ND	79	80-120			10/09/13	MS1.0 ***Low***
Matrix Spike (A311939-MS2), Source: A3J0790-01											
MBAS, Calculated as LAS, mol wt 340	0.99	0.050	mg/L	1.0	ND	98	80-120			10/09/13	
Matrix Spike Dup (A311939-MSD1), Source: A3J0748-01											
MBAS, Calculated as LAS, mol wt 340	0.83	0.050	mg/L	1.0	ND	82	80-120	4	20	10/09/13	
Matrix Spike Dup (A311939-MSD2), Source: A3J0790-01											
MBAS, Calculated as LAS, mol wt 340	0.99	0.050	mg/L	1.0	ND	98	80-120	0	20	10/09/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A311945										Prepared: 10/9/2013	
Prep Method: EPA 200.2										Analyst: NRE	
Blank (A311945-BLK2)											
Aluminum	ND	0.050	mg/L							10/16/13	
Calcium	ND	0.10	mg/L							10/16/13	
Iron	ND	0.030	mg/L							10/16/13	
Magnesium	ND	0.10	mg/L							10/16/13	
Manganese	ND	0.010	mg/L							10/16/13	
Zinc	ND	0.050	mg/L							10/16/13	
Blank Spike (A311945-BS2)											
Aluminum	0.19	0.050	mg/L	0.20		95	85-115			10/16/13	
Calcium	9.8	0.10	mg/L	10		98	85-115			10/16/13	
Iron	1.9	0.030	mg/L	2.0		95	85-115			10/16/13	
Magnesium	9.7	0.10	mg/L	10		97	85-115			10/16/13	
Manganese	0.20	0.010	mg/L	0.20		98	85-115			10/16/13	
Zinc	0.20	0.050	mg/L	0.20		99	85-115			10/16/13	
Blank Spike Dup (A311945-BSD2)											
Aluminum	0.20	0.050	mg/L	0.20		100	85-115	5	20	10/16/13	
Calcium	9.8	0.10	mg/L	10		98	85-115	0	20	10/16/13	
Iron	1.9	0.030	mg/L	2.0		95	85-115	0	20	10/16/13	
Magnesium	9.5	0.10	mg/L	10		95	85-115	1	20	10/16/13	
Manganese	0.19	0.010	mg/L	0.20		97	85-115	1	20	10/16/13	
Zinc	0.20	0.050	mg/L	0.20		100	85-115	1	20	10/16/13	
Matrix Spike (A311945-MS3), Source: A3J0748-01											
Aluminum	0.20	0.050	mg/L	0.20	ND	99	70-130			10/16/13	
Calcium	50	0.10	mg/L	10	41	98	70-130			10/16/13	
Iron	1.9	0.030	mg/L	2.0	ND	95	70-130			10/16/13	
Magnesium	24	0.10	mg/L	10	15	93	70-130			10/16/13	
Manganese	0.19	0.010	mg/L	0.20	ND	97	70-130			10/16/13	
Zinc	0.26	0.050	mg/L	0.20	0.064	97	70-130			10/16/13	
Matrix Spike Dup (A311945-MSD3), Source: A3J0748-01											
Aluminum	0.21	0.050	mg/L	0.20	ND	104	70-130	6	20	10/16/13	
Calcium	50	0.10	mg/L	10	41	99	70-130	0	20	10/16/13	
Iron	2.0	0.030	mg/L	2.0	ND	97	70-130	1	20	10/16/13	
Magnesium	24	0.10	mg/L	10	15	95	70-130	1	20	10/16/13	
Manganese	0.20	0.010	mg/L	0.20	ND	98	70-130	1	20	10/16/13	
Zinc	0.26	0.050	mg/L	0.20	0.064	98	70-130	1	20	10/16/13	
EPA 200.7 - Quality Control											
Batch: A312073										Prepared: 10/11/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Blank (A312073-BLK2)											
Barium - Dissolved (1)	ND	0.050	mg/L							10/15/13	
Boron - Dissolved (1)	ND	0.10	mg/L							10/15/13	

Metals Quality Control Report

EPA 200.7 - Quality Control

Batch: A312073 Prepared: 10/11/2013

Prep Method: Filtration - Metals Analyst: NRE

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A312073-BLK2)											
Calcium - Dissolved (1)	ND	0.10	mg/L							10/15/13	
Iron - Dissolved (1)	ND	0.030	mg/L							10/15/13	
Magnesium - Dissolved (1)	ND	0.10	mg/L							10/15/13	
Manganese - Dissolved (1)	ND	0.010	mg/L							10/15/13	
Potassium - Dissolved (1)	ND	2.0	mg/L							10/15/13	
Silica (SiO2) - Dissolved (1)	ND	0.20	mg/L							10/15/13	
Sodium - Dissolved (1)	ND	1.0	mg/L							10/15/13	
Blank Spike (A312073-BS2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		100	85-115			10/15/13	
Boron - Dissolved (1)	0.58	0.10	mg/L	0.60		97	85-115			10/15/13	
Calcium - Dissolved (1)	9.9	0.10	mg/L	10		99	85-115			10/15/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		99	85-115			10/15/13	
Magnesium - Dissolved (1)	9.6	0.10	mg/L	10		96	85-115			10/15/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20		97	85-115			10/15/13	
Potassium - Dissolved (1)	9.9	2.0	mg/L	10		99	85-115			10/15/13	
Silica (SiO2) - Dissolved (1)	2.1	0.20	mg/L	2.1		99	85-115			10/15/13	
Sodium - Dissolved (1)	10	1.0	mg/L	10		101	85-115			10/15/13	
Blank Spike Dup (A312073-BSD2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		100	85-115	0	20	10/15/13	
Boron - Dissolved (1)	0.59	0.10	mg/L	0.60		99	85-115	2	20	10/15/13	
Calcium - Dissolved (1)	9.9	0.10	mg/L	10		99	85-115	0	20	10/15/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		101	85-115	1	20	10/15/13	
Magnesium - Dissolved (1)	9.8	0.10	mg/L	10		98	85-115	1	20	10/15/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20		98	85-115	1	20	10/15/13	
Potassium - Dissolved (1)	9.9	2.0	mg/L	10		99	85-115	0	20	10/15/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		101	85-115	1	20	10/15/13	
Sodium - Dissolved (1)	10	1.0	mg/L	10		101	85-115	0	20	10/15/13	
Matrix Spike (A312073-MS3), Source: A3J0568-02											
Barium - Dissolved (1)	0.21	0.050	mg/L	0.20	ND	107	70-130			10/15/13	
Boron - Dissolved (1)	3.9	0.10	mg/L	0.60	3.3	104	70-130			10/15/13	
Calcium - Dissolved (1)	560	0.10	mg/L	10	550	150	70-130			10/15/13	MS1.0 ***High***
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0	ND	99	70-130			10/15/13	
Magnesium - Dissolved (1)	160	0.10	mg/L	10	150	110	70-130			10/15/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20	ND	96	70-130			10/15/13	
Potassium - Dissolved (1)	14	2.0	mg/L	10	3.7	105	70-130			10/15/13	
Silica (SiO2) - Dissolved (1)	44	0.20	mg/L	2.1	41	118	70-130			10/15/13	
Sodium - Dissolved (1)	600	1.0	mg/L	10	600	86	70-130			10/15/13	
Matrix Spike (A312073-MS4), Source: A3J0774-02											
Barium - Dissolved (1)	0.29	0.050	mg/L	0.20	0.096	96	70-130			10/15/13	
Boron - Dissolved (1)	0.66	0.10	mg/L	0.60	ND	99	70-130			10/15/13	
Calcium - Dissolved (1)	99	0.10	mg/L	10	91	80	70-130			10/15/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0	ND	100	70-130			10/15/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A312073										Prepared: 10/11/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Matrix Spike (A312073-MS4), Source: A3J0774-02											
Magnesium - Dissolved (1)	56	0.10	mg/L	10	47	84	70-130			10/15/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20	ND	97	70-130			10/15/13	
Potassium - Dissolved (1)	10	2.0	mg/L	10	ND	104	70-130			10/15/13	
Silica (SiO2) - Dissolved (1)	65	0.20	mg/L	2.1	64	48	70-130			10/15/13	MS1.0 ***Low***
Sodium - Dissolved (1)	150	1.0	mg/L	10	140	78	70-130			10/15/13	
Matrix Spike Dup (A312073-MSD3), Source: A3J0568-02											
Barium - Dissolved (1)	0.21	0.050	mg/L	0.20	ND	105	70-130	1	20	10/15/13	
Boron - Dissolved (1)	3.9	0.10	mg/L	0.60	3.3	107	70-130	1	20	10/15/13	
Calcium - Dissolved (1)	560	0.10	mg/L	10	550	107	70-130	1	20	10/15/13	
Iron - Dissolved (1)	1.9	0.030	mg/L	2.0	ND	97	70-130	1	20	10/15/13	
Magnesium - Dissolved (1)	160	0.10	mg/L	10	150	102	70-130	1	20	10/15/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20	ND	95	70-130	1	20	10/15/13	
Potassium - Dissolved (1)	14	2.0	mg/L	10	3.7	105	70-130	0	20	10/15/13	
Silica (SiO2) - Dissolved (1)	43	0.20	mg/L	2.1	41	103	70-130	1	20	10/15/13	
Sodium - Dissolved (1)	600	1.0	mg/L	10	600	53	70-130	1	20	10/15/13	MS1.0 ***Low***
Matrix Spike Dup (A312073-MSD4), Source: A3J0774-02											
Barium - Dissolved (1)	0.30	0.050	mg/L	0.20	0.096	103	70-130	5	20	10/15/13	
Boron - Dissolved (1)	0.67	0.10	mg/L	0.60	ND	100	70-130	1	20	10/15/13	
Calcium - Dissolved (1)	100	0.10	mg/L	10	91	134	70-130	5	20	10/15/13	MS1.0 ***High***
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0	ND	100	70-130	1	20	10/15/13	
Magnesium - Dissolved (1)	59	0.10	mg/L	10	47	117	70-130	6	20	10/15/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20	ND	97	70-130	0	20	10/15/13	
Potassium - Dissolved (1)	11	2.0	mg/L	10	ND	108	70-130	4	20	10/15/13	
Silica (SiO2) - Dissolved (1)	69	0.20	mg/L	2.1	64	226	70-130	6	20	10/15/13	MS1.0 ***High***
Sodium - Dissolved (1)	160	1.0	mg/L	10	140	142	70-130	4	20	10/15/13	MS1.0 ***High***
EPA 200.8 - Quality Control											
Batch: A311945										Prepared: 10/9/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Blank (A311945-BLK1)											
Arsenic	ND	2.0	ug/L							10/14/13	
Copper	ND	5.0	ug/L							10/14/13	
Blank Spike (A311945-BS1)											
Arsenic	190	2.0	ug/L	200		97	85-115			10/14/13	
Copper	190	5.0	ug/L	200		97	85-115			10/14/13	
Blank Spike Dup (A311945-BSD1)											
Arsenic	190	2.0	ug/L	200		96	85-115	1	20	10/14/13	
Copper	190	5.0	ug/L	200		97	85-115	1	20	10/14/13	
Matrix Spike (A311945-MS1), Source: A3J0748-01											
Arsenic	200	2.0	ug/L	200	2.7	96	70-130			10/14/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A311945										Prepared: 10/9/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Matrix Spike (A311945-MS1), Source: A3J0748-01											
Copper	230	5.0	ug/L	200	44	93	70-130			10/14/13	
Matrix Spike (A311945-MS2), Source: A3J0770-04											
Arsenic	200	2.0	ug/L	200	7.6	96	70-130			10/15/13	
Copper	180	5.0	ug/L	200	ND	90	70-130			10/15/13	
Matrix Spike Dup (A311945-MSD1), Source: A3J0748-01											
Arsenic	200	2.0	ug/L	200	2.7	97	70-130	1	20	10/14/13	
Copper	230	5.0	ug/L	200	44	91	70-130	2	20	10/14/13	
Matrix Spike Dup (A311945-MSD2), Source: A3J0770-04											
Arsenic	200	2.0	ug/L	200	7.6	97	70-130	1	20	10/15/13	
Copper	180	5.0	ug/L	200	ND	91	70-130	1	20	10/15/13	
EPA 200.8 - Quality Control											
Batch: A312073										Prepared: 10/11/2013	
Prep Method: Filtration - Metals										Analyst: MAS	
Blank (A312073-BLK4)											
Strontium - Dissolved (1)	ND	1.0	ug/L							10/17/13	
Blank Spike (A312073-BS4)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		101	85-115			10/17/13	
Blank Spike Dup (A312073-BSD4)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		102	85-115	1	20	10/17/13	
Matrix Spike (A312073-MS6), Source: A3J0568-02											
Strontium - Dissolved (1)	10000	1.0	ug/L	200	10000	128	70-130			10/17/13	
Matrix Spike Dup (A312073-MSD6), Source: A3J0568-02											
Strontium - Dissolved (1)	11000	1.0	ug/L	200	10000	161	70-130	1	20	10/17/13	MS1.0 ***High***

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A311954										Prepared: 10/9/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A311954-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							10/13/13	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							10/13/13	
Surrogate: TCMX	*1.2*			*1.5*		*76*	*70-130*			10/13/13	
Blank Spike (A311954-BS1)											
Dibromochloropropane (DBCP)	0.20	0.010	ug/L	0.20		98	70-130			10/13/13	
Ethylene Dibromide (EDB)	0.20	0.020	ug/L	0.20		99	70-130			10/13/13	
Surrogate: TCMX	*1.4*			*1.5*		*93*	*70-130*			10/13/13	
Blank Spike Dup (A311954-BSD1)											
Dibromochloropropane (DBCP)	0.20	0.010	ug/L	0.20		99	70-130	0	20	10/14/13	
Ethylene Dibromide (EDB)	0.19	0.020	ug/L	0.20		94	70-130	4	20	10/14/13	
Surrogate: TCMX	*1.5*			*1.5*		*98*	*70-130*			10/14/13	
Matrix Spike (A311954-MS1), Source: A3J0722-01											
Dibromochloropropane (DBCP)	0.20	0.010	ug/L	0.20	ND	100	65-135			10/14/13	
Ethylene Dibromide (EDB)	0.19	0.020	ug/L	0.20	ND	93	65-135			10/14/13	
Surrogate: TCMX	*1.5*			*1.5*		*97*	*70-130*			10/14/13	
Matrix Spike Dup (A311954-MSD1), Source: A3J0722-01											
Dibromochloropropane (DBCP)	0.20	0.010	ug/L	0.20	ND	101	65-135	2	20	10/14/13	
Ethylene Dibromide (EDB)	0.20	0.020	ug/L	0.20	ND	97	65-135	5	20	10/14/13	
Surrogate: TCMX	*1.5*			*1.5*		*99*	*70-130*			10/14/13	
EPA 505 - Quality Control											
Batch: A311954										Prepared: 10/9/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A311954-BLK1)											
Aldrin	ND	0.075	ug/L							10/13/13	
Chlordane	ND	0.10	ug/L							10/13/13	
Chlorothalonil	ND	5.0	ug/L							10/13/13	
Dieldrin	ND	0.020	ug/L							10/13/13	
Endrin	ND	0.10	ug/L							10/13/13	
Heptachlor	ND	0.010	ug/L							10/13/13	
Heptachlor Epoxide	ND	0.010	ug/L							10/13/13	
Hexachlorobenzene	ND	0.50	ug/L							10/13/13	
Hexachlorocyclopentadiene	ND	1.0	ug/L							10/13/13	
Lindane	ND	0.20	ug/L							10/13/13	
Methoxychlor	ND	10	ug/L							10/13/13	
PCB Aroclor Screen	ND	0.50	ug/L							10/13/13	
Toxaphene	ND	1.0	ug/L							10/13/13	
Trifluralin	ND	1.0	ug/L							10/13/13	
Surrogate: TCMX	*1.2*			*1.5*		*76*	*70-130*			10/13/13	
Blank Spike (A311954-BS1)											

Organics Quality Control Report

EPA 505 - Quality Control

Batch: A311954 Prepared: 10/9/2013

Prep Method: EPA 505 Analyst: GAK

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A311954-BS1)											
Aldrin	1.0	0.075	ug/L	1.0		101	70-130			10/13/13	
Chlorothalonil	10	5.0	ug/L	10		103	70-130			10/13/13	
Dieldrin	0.40	0.020	ug/L	0.40		101	70-130			10/13/13	
Endrin	0.20	0.10	ug/L	0.20		102	70-130			10/13/13	
Heptachlor	0.21	0.010	ug/L	0.20		106	70-130			10/13/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20		98	70-130			10/13/13	
Hexachlorobenzene	2.0	0.50	ug/L	2.0		100	70-130			10/13/13	
Hexachlorocyclopentadiene	2.2	1.0	ug/L	2.0		110	70-130			10/13/13	
Lindane	0.39	0.20	ug/L	0.40		97	70-130			10/13/13	
Methoxychlor	2.0	10	ug/L	2.0		99	70-130			10/13/13	
Trifluralin	2.0	1.0	ug/L	2.0		99	70-130			10/13/13	
Surrogate: TCMX	*1.4*			*1.5*		*93*	*70-130*			10/13/13	
Blank Spike Dup (A311954-BSD1)											
Aldrin	1.0	0.075	ug/L	1.0		100	70-130	1	20	10/14/13	
Chlorothalonil	11	5.0	ug/L	10		106	70-130	3	20	10/14/13	
Dieldrin	0.41	0.020	ug/L	0.40		102	70-130	1	20	10/14/13	
Endrin	0.20	0.10	ug/L	0.20		100	70-130	3	20	10/14/13	
Heptachlor	0.21	0.010	ug/L	0.20		103	70-130	3	20	10/14/13	
Heptachlor Epoxide	0.19	0.010	ug/L	0.20		97	70-130	1	20	10/14/13	
Hexachlorobenzene	1.9	0.50	ug/L	2.0		97	70-130	3	20	10/14/13	
Hexachlorocyclopentadiene	1.9	1.0	ug/L	2.0		96	70-130	14	20	10/14/13	
Lindane	0.40	0.20	ug/L	0.40		101	70-130	4	20	10/14/13	
Methoxychlor	2.0	10	ug/L	2.0		100	70-130	1	20	10/14/13	
Trifluralin	2.0	1.0	ug/L	2.0		100	70-130	1	20	10/14/13	
Surrogate: TCMX	*1.5*			*1.5*		*98*	*70-130*			10/14/13	
Matrix Spike (A311954-MS1), Source: A3J0722-01											
Aldrin	1.1	0.075	ug/L	1.0	ND	105	65-135			10/14/13	
Chlorothalonil	11	5.0	ug/L	10	ND	104	65-135			10/14/13	
Dieldrin	0.41	0.020	ug/L	0.40	ND	102	65-135			10/14/13	
Endrin	0.20	0.10	ug/L	0.20	ND	100	65-135			10/14/13	
Heptachlor	0.22	0.010	ug/L	0.20	ND	109	65-135			10/14/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20	ND	98	65-135			10/14/13	
Hexachlorobenzene	2.0	0.50	ug/L	2.0	ND	99	65-135			10/14/13	
Hexachlorocyclopentadiene	1.8	1.0	ug/L	2.0	ND	87	65-135			10/14/13	
Lindane	0.40	0.20	ug/L	0.40	ND	99	65-135			10/14/13	
Methoxychlor	2.0	10	ug/L	2.0	ND	100	65-135			10/14/13	
Trifluralin	2.0	1.0	ug/L	2.0	ND	100	65-135			10/14/13	
Surrogate: TCMX	*1.5*			*1.5*		*97*	*70-130*			10/14/13	
Matrix Spike Dup (A311954-MSD1), Source: A3J0722-01											
Aldrin	1.1	0.075	ug/L	1.0	ND	109	65-135	5	20	10/14/13	
Chlorothalonil	11	5.0	ug/L	10	ND	106	65-135	3	20	10/14/13	
Dieldrin	0.42	0.020	ug/L	0.41	ND	102	65-135	2	20	10/14/13	
Endrin	0.20	0.10	ug/L	0.20	ND	101	65-135	2	20	10/14/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 505 - Quality Control											
Batch: A311954										Prepared: 10/9/2013	
Prep Method: EPA 505										Analyst: GAK	
Matrix Spike Dup (A311954-MSD1), Source: A3J0722-01											
Heptachlor	0.22	0.010	ug/L	0.20	ND	110	65-135	2	20	10/14/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20	ND	100	65-135	3	20	10/14/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0	ND	102	65-135	4	20	10/14/13	
Hexachlorocyclopentadiene	2.0	1.0	ug/L	2.0	ND	97	65-135	12	20	10/14/13	
Lindane	0.41	0.20	ug/L	0.41	ND	102	65-135	3	20	10/14/13	
Methoxychlor	2.1	10	ug/L	2.0	ND	102	65-135	3	20	10/14/13	
Trifluralin	2.0	1.0	ug/L	2.0	ND	101	65-135	2	20	10/14/13	
Surrogate: TCMX	*1.5*			*1.5*		*99*	*70-130*			10/14/13	
EPA 515.3 - Quality Control											
Batch: A311994										Prepared: 10/9/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A311994-BLK1)											
2,4,5-T	ND	1.0	ug/L							10/11/13	
2,4,5-TP (Silvex)	ND	1.0	ug/L							10/11/13	
2,4-D	ND	10	ug/L							10/11/13	
Bentazon	ND	2.0	ug/L							10/11/13	
Dalapon	ND	10	ug/L							10/11/13	
Dicamba	ND	1.5	ug/L							10/11/13	
Dinoseb	ND	2.0	ug/L							10/11/13	
Pentachlorophenol	ND	0.20	ug/L							10/11/13	
Picloram	ND	1.0	ug/L							10/11/13	
Surrogate: DCPAA	*58*			*58*		*99*	*70-130*			10/11/13	
Blank Spike (A311994-BS1)											
2,4,5-T	4.8	1.0	ug/L	4.0		120	70-130			10/11/13	
2,4,5-TP (Silvex)	4.8	1.0	ug/L	4.0		120	70-130			10/11/13	
2,4-D	49	10	ug/L	40		122	70-130			10/11/13	
Bentazon	8.8	2.0	ug/L	8.0		111	70-130			10/11/13	
Dalapon	43	10	ug/L	40		108	70-130			10/11/13	
Dicamba	7.4	1.5	ug/L	6.0		122	70-130			10/11/13	
Dinoseb	9.6	2.0	ug/L	8.0		120	70-130			10/11/13	
Pentachlorophenol	1.0	0.20	ug/L	0.80		127	70-130			10/11/13	
Picloram	4.9	1.0	ug/L	4.0		123	70-130			10/11/13	
Surrogate: DCPAA	*60*			*58*		*104*	*70-130*			10/11/13	
Blank Spike Dup (A311994-BSD1)											
2,4,5-T	4.7	1.0	ug/L	4.0		118	70-130	1	20	10/11/13	
2,4,5-TP (Silvex)	4.7	1.0	ug/L	4.0		119	70-130	1	20	10/11/13	
2,4-D	49	10	ug/L	40		121	70-130	0	20	10/11/13	
Bentazon	8.5	2.0	ug/L	8.0		106	70-130	4	20	10/11/13	
Dalapon	43	10	ug/L	40		107	70-130	1	20	10/11/13	
Dicamba	7.2	1.5	ug/L	6.0		121	70-130	2	20	10/11/13	
Dinoseb	9.2	2.0	ug/L	8.0		115	70-130	4	20	10/11/13	
Pentachlorophenol	0.99	0.20	ug/L	0.80		124	70-130	2	20	10/11/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A311994										Prepared: 10/9/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A311994-BSD1)											
Picloram	4.9	1.0	ug/L	4.0		123	70-130	0	20	10/11/13	
Surrogate: DCPAA	*59*			*58*		*102*	*70-130*			10/11/13	
Matrix Spike (A311994-MS1), Source: A3J0477-01											
2,4,5-T	4.9	1.0	ug/L	4.0	ND	122	70-130			10/11/13	
2,4,5-TP (Silvex)	4.9	1.0	ug/L	4.0	ND	122	70-130			10/11/13	
2,4-D	50	10	ug/L	40	ND	126	70-130			10/11/13	
Bentazon	8.9	2.0	ug/L	8.0	ND	111	70-130			10/11/13	
Dalapon	43	10	ug/L	40	ND	108	70-130			10/11/13	
Dicamba	7.4	1.5	ug/L	6.0	ND	123	70-130			10/11/13	
Dinoseb	9.4	2.0	ug/L	8.0	ND	118	70-130			10/11/13	
Pentachlorophenol	1.0	0.20	ug/L	0.80	ND	125	70-130			10/11/13	
Picloram	5.0	1.0	ug/L	4.0	ND	126	70-130			10/11/13	
Surrogate: DCPAA	*60*			*58*		*103*	*70-130*			10/11/13	
Matrix Spike Dup (A311994-MSD1), Source: A3J0477-01											
2,4,5-T	4.6	1.0	ug/L	4.0	ND	116	70-130	5	20	10/11/13	
2,4,5-TP (Silvex)	4.7	1.0	ug/L	4.0	ND	116	70-130	5	20	10/11/13	
2,4-D	47	10	ug/L	40	ND	118	70-130	6	20	10/11/13	
Bentazon	8.5	2.0	ug/L	8.0	ND	107	70-130	4	20	10/11/13	
Dalapon	41	10	ug/L	40	ND	103	70-130	5	20	10/11/13	
Dicamba	7.0	1.5	ug/L	6.0	ND	117	70-130	5	20	10/11/13	
Dinoseb	9.1	2.0	ug/L	8.0	ND	114	70-130	3	20	10/11/13	
Pentachlorophenol	0.96	0.20	ug/L	0.80	ND	120	70-130	4	20	10/11/13	
Picloram	4.7	1.0	ug/L	4.0	ND	117	70-130	7	20	10/11/13	
Surrogate: DCPAA	*58*			*58*		*100*	*70-130*			10/11/13	
EPA 524.2 - Quality Control											
Batch: A312121										Prepared: 10/14/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A312121-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							10/14/13	
1,1,1-Trichloroethane	ND	0.50	ug/L							10/14/13	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							10/14/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							10/14/13	
1,1,2-Trichloroethane	ND	0.50	ug/L							10/14/13	
1,1-Dichloroethane	ND	0.50	ug/L							10/14/13	
1,1-Dichloroethene	ND	0.50	ug/L							10/14/13	
1,1-Dichloropropene	ND	0.50	ug/L							10/14/13	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							10/14/13	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							10/14/13	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							10/14/13	
1,2-Dichlorobenzene	ND	0.50	ug/L							10/14/13	
1,2-Dichloroethane	ND	0.50	ug/L							10/14/13	
1,2-Dichloropropane	ND	0.50	ug/L							10/14/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A312121 Prepared: 10/14/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A312121-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	ug/L							10/14/13	
1,3-Dichlorobenzene	ND	0.50	ug/L							10/14/13	
1,3-Dichloropropane	ND	0.50	ug/L							10/14/13	
1,4-Dichlorobenzene	ND	0.50	ug/L							10/14/13	
2,2-Dichloropropane	ND	0.50	ug/L							10/14/13	
2-Butanone	ND	5.0	ug/L							10/14/13	
2-Chlorotoluene	ND	0.50	ug/L							10/14/13	
2-Hexanone	ND	10	ug/L							10/14/13	
4-Chlorotoluene	ND	0.50	ug/L							10/14/13	
4-Methyl-2-pentanone	ND	5.0	ug/L							10/14/13	
Acetone	ND	10	ug/L							10/14/13	
Benzene	ND	0.50	ug/L							10/14/13	
Bromobenzene	ND	0.50	ug/L							10/14/13	
Bromochloromethane	ND	0.50	ug/L							10/14/13	
Bromodichloromethane	ND	0.50	ug/L							10/14/13	
Bromoform	ND	0.50	ug/L							10/14/13	
Bromomethane	ND	0.50	ug/L							10/14/13	
Carbon Tetrachloride	ND	0.50	ug/L							10/14/13	
Chlorobenzene	ND	0.50	ug/L							10/14/13	
Chloroethane	ND	0.50	ug/L							10/14/13	
Chloroform	ND	0.50	ug/L							10/14/13	
Chloromethane	ND	0.50	ug/L							10/14/13	
cis-1,2-Dichloroethene	ND	0.50	ug/L							10/14/13	
cis-1,3-Dichloropropene	ND	0.50	ug/L							10/14/13	
Dibromochloromethane	ND	0.50	ug/L							10/14/13	
Dibromomethane	ND	0.50	ug/L							10/14/13	
Dichlorodifluoromethane	ND	0.50	ug/L							10/14/13	
Dichloromethane	ND	0.50	ug/L							10/14/13	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							10/14/13	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							10/14/13	
Ethylbenzene	ND	0.50	ug/L							10/14/13	
Hexachlorobutadiene	ND	0.50	ug/L							10/14/13	
Isopropylbenzene	ND	0.50	ug/L							10/14/13	
m,p-Xylenes	ND	0.50	ug/L							10/14/13	
Methyl-t-butyl ether	ND	0.50	ug/L							10/14/13	
Naphthalene	ND	0.50	ug/L							10/14/13	
n-Butylbenzene	ND	0.50	ug/L							10/14/13	
n-Propylbenzene	ND	0.50	ug/L							10/14/13	
o-Xylene	ND	0.50	ug/L							10/14/13	
p-Isopropyltoluene	ND	0.50	ug/L							10/14/13	
sec-Butylbenzene	ND	0.50	ug/L							10/14/13	
Styrene	ND	0.50	ug/L							10/14/13	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							10/14/13	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							10/14/13	
tert-Butylbenzene	ND	0.50	ug/L							10/14/13	
Tetrachloroethene (PCE)	ND	0.50	ug/L							10/14/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A312121 Prepared: 10/14/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A312121-BLK1)											
Toluene	ND	0.50	ug/L							10/14/13	
trans-1,2-Dichloroethene	ND	0.50	ug/L							10/14/13	
trans-1,3-Dichloropropene	ND	0.50	ug/L							10/14/13	
Trichloroethene (TCE)	ND	0.50	ug/L							10/14/13	
Trichlorofluoromethane	ND	5.0	ug/L							10/14/13	
Vinyl Chloride	ND	0.50	ug/L							10/14/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.6*			*5.0*		*92*	*70-130*			10/14/13	
Surrogate: Bromofluorobenzene	*4.9*			*5.0*		*97*	*70-130*			10/14/13	
Blank Spike (A312121-BS1)											
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		112	70-130			10/14/13	
1,1,1-Trichloroethane	11	0.50	ug/L	10		111	70-130			10/14/13	
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		107	70-130			10/14/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.9	10	ug/L	10		99	70-130			10/14/13	
1,1,2-Trichloroethane	10	0.50	ug/L	10		103	70-130			10/14/13	
1,1-Dichloroethane	10	0.50	ug/L	10		104	70-130			10/14/13	
1,1-Dichloroethene	11	0.50	ug/L	10		111	70-130			10/14/13	
1,1-Dichloropropene	11	0.50	ug/L	10		107	70-130			10/14/13	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		104	70-130			10/14/13	
1,2,4-Trichlorobenzene	10	0.50	ug/L	10		105	70-130			10/14/13	
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		104	70-130			10/14/13	
1,2-Dichlorobenzene	10	0.50	ug/L	10		102	70-130			10/14/13	
1,2-Dichloroethane	10	0.50	ug/L	10		104	70-130			10/14/13	
1,2-Dichloropropane	11	0.50	ug/L	10		106	70-130			10/14/13	
1,3,5-Trimethylbenzene	10	0.50	ug/L	10		103	70-130			10/14/13	
1,3-Dichlorobenzene	11	0.50	ug/L	10		105	70-130			10/14/13	
1,3-Dichloropropane	10	0.50	ug/L	10		101	70-130			10/14/13	
1,4-Dichlorobenzene	10	0.50	ug/L	10		103	70-130			10/14/13	
2,2-Dichloropropane	13	0.50	ug/L	10		126	70-130			10/14/13	
2-Butanone	10	5.0	ug/L	10		104	70-130			10/14/13	
2-Chlorotoluene	10	0.50	ug/L	10		103	70-130			10/14/13	
2-Hexanone	11	10	ug/L	10		109	70-130			10/14/13	
4-Chlorotoluene	10	0.50	ug/L	10		103	70-130			10/14/13	
4-Methyl-2-pentanone	11	5.0	ug/L	10		111	70-130			10/14/13	
Acetone	11	10	ug/L	10		113	70-130			10/14/13	
Benzene	9.8	0.50	ug/L	10		98	70-130			10/14/13	
Bromobenzene	11	0.50	ug/L	10		106	70-130			10/14/13	
Bromochloromethane	11	0.50	ug/L	10		110	70-130			10/14/13	
Bromodichloromethane	11	0.50	ug/L	10		111	70-130			10/14/13	
Bromoform	10	0.50	ug/L	10		102	70-130			10/14/13	
Bromomethane	7.9	0.50	ug/L	10		79	70-130			10/14/13	
Carbon Tetrachloride	11	0.50	ug/L	10		108	70-130			10/14/13	
Chlorobenzene	9.9	0.50	ug/L	10		99	70-130			10/14/13	
Chloroethane	12	0.50	ug/L	10		122	70-130			10/14/13	
Chloroform	11	0.50	ug/L	10		109	70-130			10/14/13	
Chloromethane	8.9	0.50	ug/L	10		89	70-130			10/14/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A312121 Prepared: 10/14/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A312121-BS1)											
cis-1,2-Dichloroethene	10	0.50	ug/L	10		104	70-130			10/14/13	
cis-1,3-Dichloropropene	11	0.50	ug/L	10		112	70-130			10/14/13	
Dibromochloromethane	11	0.50	ug/L	10		110	70-130			10/14/13	
Dibromomethane	11	0.50	ug/L	10		105	70-130			10/14/13	
Dichlorodifluoromethane	7.5	0.50	ug/L	10		75	70-130			10/14/13	
Dichloromethane	10	0.50	ug/L	10		100	70-130			10/14/13	
Di-isopropyl ether (DIPE)	12	3.0	ug/L	10		119	70-130			10/14/13	
Ethyl tert-Butyl Ether (ETBE)	12	0.50	ug/L	10		120	70-130			10/14/13	
Ethylbenzene	9.7	0.50	ug/L	10		97	70-130			10/14/13	
Hexachlorobutadiene	9.9	0.50	ug/L	10		99	70-130			10/14/13	
Isopropylbenzene	11	0.50	ug/L	10		106	70-130			10/14/13	
m,p-Xylenes	19	0.50	ug/L	20		95	70-130			10/14/13	
Methyl-t-butyl ether	22	0.50	ug/L	20		110	70-130			10/14/13	
Naphthalene	9.8	0.50	ug/L	10		98	70-130			10/14/13	
n-Butylbenzene	10	0.50	ug/L	10		105	70-130			10/14/13	
n-Propylbenzene	11	0.50	ug/L	10		105	70-130			10/14/13	
o-Xylene	9.5	0.50	ug/L	10		95	70-130			10/14/13	
p-Isopropyltoluene	11	0.50	ug/L	10		105	70-130			10/14/13	
sec-Butylbenzene	10	0.50	ug/L	10		103	70-130			10/14/13	
Styrene	12	0.50	ug/L	10		117	70-130			10/14/13	
tert-Amyl Methyl Ether (TAME)	11	3.0	ug/L	10		106	70-130			10/14/13	
tert-Butyl alcohol (TBA)	11	2.0	ug/L	10		107	70-130			10/14/13	
tert-Butylbenzene	9.9	0.50	ug/L	10		99	70-130			10/14/13	
Tetrachloroethene (PCE)	9.8	0.50	ug/L	10		98	70-130			10/14/13	
Toluene	9.8	0.50	ug/L	10		98	70-130			10/14/13	
trans-1,2-Dichloroethene	11	0.50	ug/L	10		113	70-130			10/14/13	
trans-1,3-Dichloropropene	12	0.50	ug/L	10		117	70-130			10/14/13	
Trichloroethene (TCE)	10	0.50	ug/L	10		104	70-130			10/14/13	
Trichlorofluoromethane	11	5.0	ug/L	10		110	70-130			10/14/13	
Vinyl Chloride	9.2	0.50	ug/L	10		92	70-130			10/14/13	
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*100*	*70-130*			10/14/13	
Surrogate: Bromofluorobenzene	*5.1*			*5.0*		*102*	*70-130*			10/14/13	
Blank Spike Dup (A312121-BSD1)											
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		112	70-130	0	30	10/14/13	
1,1,1-Trichloroethane	11	0.50	ug/L	10		111	70-130	0	30	10/14/13	
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		107	70-130	0	30	10/14/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.8	10	ug/L	10		98	70-130	1	30	10/14/13	
1,1,2-Trichloroethane	10	0.50	ug/L	10		100	70-130	4	30	10/14/13	
1,1-Dichloroethane	9.8	0.50	ug/L	10		98	70-130	6	30	10/14/13	
1,1-Dichloroethene	11	0.50	ug/L	10		106	70-130	4	30	10/14/13	
1,1-Dichloropropene	11	0.50	ug/L	10		108	70-130	1	30	10/14/13	
1,2,3-Trichlorobenzene	11	0.50	ug/L	10		106	70-130	3	30	10/14/13	
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		107	70-130	2	30	10/14/13	
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		105	70-130	1	30	10/14/13	
1,2-Dichlorobenzene	10	0.50	ug/L	10		104	70-130	2	30	10/14/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A312121 Prepared: 10/14/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A312121-BSD1)												
1,2-Dichloroethane	9.8	0.50	ug/L	10		98	70-130	5	30	10/14/13		
1,2-Dichloropropane	10	0.50	ug/L	10		104	70-130	3	30	10/14/13		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		105	70-130	2	30	10/14/13		
1,3-Dichlorobenzene	11	0.50	ug/L	10		108	70-130	3	30	10/14/13		
1,3-Dichloropropane	9.8	0.50	ug/L	10		98	70-130	3	30	10/14/13		
1,4-Dichlorobenzene	11	0.50	ug/L	10		106	70-130	3	30	10/14/13		
2,2-Dichloropropane	12	0.50	ug/L	10		124	70-130	2	30	10/14/13		
2-Butanone	9.8	5.0	ug/L	10		98	70-130	7	30	10/14/13		
2-Chlorotoluene	10	0.50	ug/L	10		105	70-130	2	30	10/14/13		
2-Hexanone	10	10	ug/L	10		103	70-130	6	30	10/14/13		
4-Chlorotoluene	11	0.50	ug/L	10		105	70-130	2	30	10/14/13		
4-Methyl-2-pentanone	11	5.0	ug/L	10		106	70-130	5	30	10/14/13		
Acetone	10	10	ug/L	10		104	70-130	8	30	10/14/13		
Benzene	9.9	0.50	ug/L	10		99	70-130	1	30	10/14/13		
Bromobenzene	11	0.50	ug/L	10		106	70-130	0	30	10/14/13		
Bromochloromethane	10	0.50	ug/L	10		103	70-130	7	30	10/14/13		
Bromodichloromethane	11	0.50	ug/L	10		107	70-130	4	30	10/14/13		
Bromoform	10	0.50	ug/L	10		101	70-130	1	30	10/14/13		
Bromomethane	7.6	0.50	ug/L	10		76	70-130	4	30	10/14/13		
Carbon Tetrachloride	11	0.50	ug/L	10		109	70-130	0	30	10/14/13		
Chlorobenzene	9.7	0.50	ug/L	10		97	70-130	2	30	10/14/13		
Chloroethane	13	0.50	ug/L	10		132	70-130	8	30	10/14/13	BS	***High***
Chloroform	10	0.50	ug/L	10		104	70-130	4	30	10/14/13		
Chloromethane	9.2	0.50	ug/L	10		92	70-130	4	30	10/14/13		
cis-1,2-Dichloroethene	9.6	0.50	ug/L	10		96	70-130	7	30	10/14/13		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		109	70-130	3	30	10/14/13		
Dibromochloromethane	10	0.50	ug/L	10		103	70-130	7	30	10/14/13		
Dibromomethane	9.8	0.50	ug/L	10		98	70-130	7	30	10/14/13		
Dichlorodifluoromethane	7.8	0.50	ug/L	10		78	70-130	4	30	10/14/13		
Dichloromethane	10	0.50	ug/L	10		100	70-130	1	30	10/14/13		
Di-isopropyl ether (DIPE)	12	3.0	ug/L	10		116	70-130	3	30	10/14/13		
Ethyl tert-Butyl Ether (ETBE)	12	0.50	ug/L	10		118	70-130	2	30	10/14/13		
Ethylbenzene	9.4	0.50	ug/L	10		94	70-130	3	30	10/14/13		
Hexachlorobutadiene	10	0.50	ug/L	10		104	70-130	4	30	10/14/13		
Isopropylbenzene	11	0.50	ug/L	10		106	70-130	1	30	10/14/13		
m,p-Xylenes	19	0.50	ug/L	20		94	70-130	1	30	10/14/13		
Methyl-t-butyl ether	21	0.50	ug/L	20		106	70-130	3	30	10/14/13		
Naphthalene	10	0.50	ug/L	10		100	70-130	1	30	10/14/13		
n-Butylbenzene	11	0.50	ug/L	10		106	70-130	1	30	10/14/13		
n-Propylbenzene	11	0.50	ug/L	10		106	70-130	1	30	10/14/13		
o-Xylene	9.4	0.50	ug/L	10		94	70-130	1	30	10/14/13		
p-Isopropyltoluene	11	0.50	ug/L	10		106	70-130	1	30	10/14/13		
sec-Butylbenzene	11	0.50	ug/L	10		110	70-130	7	30	10/14/13		
Styrene	12	0.50	ug/L	10		118	70-130	1	30	10/14/13		
tert-Amyl Methyl Ether (TAME)	10	3.0	ug/L	10		104	70-130	2	30	10/14/13		
tert-Butyl alcohol (TBA)	10	2.0	ug/L	10		104	70-130	3	30	10/14/13		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A312121										Prepared: 10/14/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike Dup (A312121-BSD1)											
tert-Butylbenzene	10	0.50	ug/L	10		100	70-130	2	30	10/14/13	
Tetrachloroethene (PCE)	9.8	0.50	ug/L	10		98	70-130	0	30	10/14/13	
Toluene	9.5	0.50	ug/L	10		95	70-130	3	30	10/14/13	
trans-1,2-Dichloroethene	11	0.50	ug/L	10		108	70-130	4	30	10/14/13	
trans-1,3-Dichloropropene	11	0.50	ug/L	10		112	70-130	5	30	10/14/13	
Trichloroethene (TCE)	11	0.50	ug/L	10		107	70-130	3	30	10/14/13	
Trichlorofluoromethane	10	5.0	ug/L	10		104	70-130	6	30	10/14/13	
Vinyl Chloride	9.7	0.50	ug/L	10		97	70-130	5	30	10/14/13	
Surrogate: 1,2-Dichlorobenzene-d4	*5.1*			*5.0*		*102*	*70-130*			10/14/13	
Surrogate: Bromofluorobenzene	*5.1*			*5.0*		*102*	*70-130*			10/14/13	
EPA 525.2 - Quality Control											
Batch: A312014										Prepared: 10/10/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank (A312014-BLK1)											
Alachlor	ND	1.0	ug/L							10/11/13	
Atrazine	ND	0.50	ug/L							10/11/13	
Benzo(a)pyrene	ND	0.10	ug/L							10/11/13	
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							10/11/13	
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							10/11/13	
Bromacil	ND	10	ug/L							10/11/13	
Butachlor	ND	0.38	ug/L							10/11/13	
Diazinon	ND	0.25	ug/L							10/11/13	
Dimethoate	ND	10	ug/L							10/11/13	
Metolachlor	ND	0.50	ug/L							10/11/13	
Metribuzin	ND	0.50	ug/L							10/11/13	
Molinate	ND	2.0	ug/L							10/11/13	
Propachlor	ND	0.50	ug/L							10/11/13	
Simazine	ND	1.0	ug/L							10/11/13	
Thiobencarb	ND	1.0	ug/L							10/11/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.3*			*5.0*		*106*	*70-130*			10/11/13	
Blank Spike (A312014-BS1)											
Alachlor	0.53	1.0	ug/L	0.50		108	70-130			10/11/13	
Atrazine	0.51	0.50	ug/L	0.50		103	70-130			10/11/13	
Benzo(a)pyrene	0.11	0.10	ug/L	0.099		107	70-130			10/11/13	
Bis(2-ethylhexyl) adipate	3.3	3.0	ug/L	3.0		110	70-130			10/11/13	
Bis(2-ethylhexyl) phthalate	3.4	3.0	ug/L	3.0		115	70-130			10/11/13	
Bromacil	2.6	10	ug/L	2.0		129	70-130			10/11/13	
Butachlor	1.4	0.38	ug/L	1.2		114	70-130			10/11/13	
Diazinon	0.049	0.25	ug/L	0.050		98	70-130			10/11/13	
Dimethoate	0.56	10	ug/L	0.50		114	70-130			10/11/13	
Metolachlor	2.8	0.50	ug/L	2.5		111	70-130			10/11/13	
Metribuzin	2.8	0.50	ug/L	2.5		113	70-130			10/11/13	
Molinate	2.7	2.0	ug/L	2.5		109	70-130			10/11/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A312014										Prepared: 10/10/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank Spike (A312014-BS1)											
Propachlor	2.7	0.50	ug/L	2.5		108	70-130			10/11/13	
Simazine	0.41	1.0	ug/L	0.35		117	70-130			10/11/13	
Thiobencarb	0.52	1.0	ug/L	0.50		104	70-130			10/11/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.8*			*5.0*		*97*	*70-130*			10/11/13	
Blank Spike Dup (A312014-BSD1)											
Alachlor	0.51	1.0	ug/L	0.49		104	70-130	5	30	10/11/13	
Atrazine	0.49	0.50	ug/L	0.49		99	70-130	4	30	10/11/13	
Benzo(a)pyrene	0.10	0.10	ug/L	0.098		106	70-130	2	30	10/11/13	
Bis(2-ethylhexyl) adipate	3.1	3.0	ug/L	2.9		106	70-130	4	30	10/11/13	
Bis(2-ethylhexyl) phthalate	3.3	3.0	ug/L	2.9		112	70-130	4	30	10/11/13	
Bromacil	2.2	10	ug/L	2.0		110	70-130	17	30	10/11/13	
Butachlor	1.2	0.38	ug/L	1.2		99	70-130	14	30	10/11/13	
Diazinon	0.048	0.25	ug/L	0.049		98	70-130	1	30	10/11/13	
Dimethoate	0.47	10	ug/L	0.49		95	70-130	19	30	10/11/13	
Metolachlor	2.5	0.50	ug/L	2.5		104	70-130	8	30	10/11/13	
Metribuzin	2.5	0.50	ug/L	2.5		100	70-130	13	30	10/11/13	
Molinate	2.6	2.0	ug/L	2.5		105	70-130	5	30	10/11/13	
Propachlor	2.5	0.50	ug/L	2.5		104	70-130	5	30	10/11/13	
Simazine	0.34	1.0	ug/L	0.34		99	70-130	18	30	10/11/13	
Thiobencarb	0.49	1.0	ug/L	0.49		100	70-130	5	30	10/11/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.9*			*4.9*		*100*	*70-130*			10/11/13	
Matrix Spike (A312014-MS1), Source: A3J0858-01											
Alachlor	0.63	1.0	ug/L	0.50	ND	127	70-130			10/11/13	
Atrazine	0.59	0.50	ug/L	0.50	ND	118	70-130			10/11/13	
Benzo(a)pyrene	0.18	0.10	ug/L	0.099	ND	154	70-130			10/11/13	MS1.0 ***High***
Bis(2-ethylhexyl) adipate	3.5	3.0	ug/L	3.0	ND	117	70-130			10/11/13	
Bis(2-ethylhexyl) phthalate	4.3	3.0	ug/L	3.0	ND	133	70-130			10/11/13	MS1.0 ***High***
Bromacil	2.9	10	ug/L	2.0	ND	148	70-130			10/11/13	MS1.0 ***High***
Butachlor	1.6	0.38	ug/L	1.2	ND	130	70-130			10/11/13	
Diazinon	0.053	0.25	ug/L	0.050	ND	106	70-130			10/11/13	
Dimethoate	0.72	10	ug/L	0.50	ND	146	70-130			10/11/13	MS1.0 ***High***
Metolachlor	2.9	0.50	ug/L	2.5	ND	118	70-130			10/11/13	
Metribuzin	2.8	0.50	ug/L	2.5	ND	115	70-130			10/11/13	
Molinate	2.6	2.0	ug/L	2.5	ND	104	70-130			10/11/13	
Propachlor	2.6	0.50	ug/L	2.5	ND	105	70-130			10/11/13	
Simazine	0.45	1.0	ug/L	0.35	ND	129	70-130			10/11/13	
Thiobencarb	0.59	1.0	ug/L	0.50	ND	119	70-130			10/11/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.8*			*5.0*		*97*	*70-130*			10/11/13	
EPA 531.1 - Quality Control											
Batch: A312119										Prepared: 10/12/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A312119-BLK1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A312119										Prepared: 10/12/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A312119-BLK1)											
3-Hydroxycarbofuran	ND	2.0	ug/L							10/12/13	
Aldicarb	ND	2.0	ug/L							10/12/13	
Aldicarb Sulfone	ND	2.0	ug/L							10/12/13	
Aldicarb Sulfoxide	ND	2.0	ug/L							10/12/13	
Carbaryl	ND	2.0	ug/L							10/12/13	
Carbofuran	ND	2.0	ug/L							10/12/13	
Methomyl	ND	2.0	ug/L							10/12/13	
Oxamyl	ND	2.0	ug/L							10/12/13	
Blank Spike (A312119-BS1)											
3-Hydroxycarbofuran	4.6	2.0	ug/L	4.2		110	80-120			10/12/13	
Aldicarb	4.7	2.0	ug/L	4.2		112	80-120			10/12/13	
Aldicarb Sulfone	4.4	2.0	ug/L	4.2		107	80-120			10/12/13	
Aldicarb Sulfoxide	4.3	2.0	ug/L	4.2		104	80-120			10/12/13	
Carbaryl	4.5	2.0	ug/L	4.2		108	80-120			10/12/13	
Carbofuran	4.5	2.0	ug/L	4.2		108	80-120			10/12/13	
Methomyl	4.2	2.0	ug/L	4.2		100	80-120			10/12/13	
Oxamyl	4.6	2.0	ug/L	4.2		110	80-120			10/12/13	
Blank Spike Dup (A312119-BSD1)											
3-Hydroxycarbofuran	4.3	2.0	ug/L	4.2		102	80-120	8	20	10/12/13	
Aldicarb	4.9	2.0	ug/L	4.2		117	80-120	4	20	10/12/13	
Aldicarb Sulfone	4.0	2.0	ug/L	4.2		96	80-120	10	20	10/12/13	
Aldicarb Sulfoxide	4.0	2.0	ug/L	4.2		95	80-120	9	20	10/12/13	
Carbaryl	4.2	2.0	ug/L	4.2		101	80-120	6	20	10/12/13	
Carbofuran	4.1	2.0	ug/L	4.2		99	80-120	9	20	10/12/13	
Methomyl	3.8	2.0	ug/L	4.2		90	80-120	10	20	10/12/13	
Oxamyl	4.2	2.0	ug/L	4.2		102	80-120	8	20	10/12/13	
Matrix Spike (A312119-MS1), Source: A3J0644-01											
3-Hydroxycarbofuran	4.2	2.0	ug/L	4.2	ND	100	65-135			10/12/13	
Aldicarb	4.5	2.0	ug/L	4.2	ND	107	65-135			10/12/13	
Aldicarb Sulfone	4.0	2.0	ug/L	4.2	ND	97	65-135			10/12/13	
Aldicarb Sulfoxide	4.0	2.0	ug/L	4.2	ND	95	65-135			10/12/13	
Carbaryl	4.3	2.0	ug/L	4.2	ND	103	65-135			10/12/13	
Carbofuran	4.2	2.0	ug/L	4.2	ND	101	65-135			10/12/13	
Methomyl	3.7	2.0	ug/L	4.2	ND	90	65-135			10/12/13	
Oxamyl	4.3	2.0	ug/L	4.2	ND	102	65-135			10/12/13	
EPA 547 - Quality Control											
Batch: A312197										Prepared: 10/15/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank (A312197-BLK1)											
Glyphosate	ND	25	ug/L							10/15/13	
Surrogate: AMPA	*110*			*100*		*113*	*70-130*			10/15/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 547 - Quality Control											
Batch: A312197										Prepared: 10/15/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank Spike (A312197-BS1)											
Glyphosate	100	25	ug/L	100		101	70-130			10/15/13	
Surrogate: AMPA	*110*			*100*		*112*	*70-130*			10/15/13	
Blank Spike Dup (A312197-BSD1)											
Glyphosate	100	25	ug/L	100		102	70-130	1	30	10/15/13	
Surrogate: AMPA	*120*			*100*		*115*	*70-130*			10/15/13	
Matrix Spike (A312197-MS1), Source: A3J0722-01											
Glyphosate	100	25	ug/L	100	ND	100	70-130			10/15/13	
Surrogate: AMPA	*110*			*100*		*111*	*70-130*			10/15/13	
Matrix Spike Dup (A312197-MSD1), Source: A3J0722-01											
Glyphosate	100	25	ug/L	100	ND	102	70-130	2	30	10/15/13	
Surrogate: AMPA	*120*			*100*		*115*	*70-130*			10/15/13	
EPA 548.1 - Quality Control											
Batch: A312182										Prepared: 10/14/2013	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A312182-BLK1)											
Endothall	ND	45	ug/L							10/15/13	
Blank Spike (A312182-BS1)											
Endothall	15	45	ug/L	20		74	60-111			10/15/13	
Blank Spike Dup (A312182-BSD1)											
Endothall	14	45	ug/L	20		68	60-111	8	46	10/15/13	
Matrix Spike (A312182-MS1), Source: A3J0722-01											
Endothall	13	45	ug/L	20	ND	66	10-122			10/15/13	
EPA 549.2 - Quality Control											
Batch: A312161										Prepared: 10/14/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A312161-BLK1)											
Diquat	ND	4.0	ug/L							10/16/13	
Blank Spike (A312161-BS1)											
Diquat	3.6	4.0	ug/L	4.0		90	70-130			10/16/13	
Blank Spike Dup (A312161-BSD1)											
Diquat	3.6	4.0	ug/L	4.0		91	70-130	1	30	10/16/13	
Matrix Spike (A312161-MS1), Source: A3J1185-01											
Diquat	3.5	4.0	ug/L	4.0	ND	87	70-130			10/16/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual

EPA 549.2 - Quality Control

Batch: A312161 Prepared: 10/14/2013

Prep Method: EPA 549.2 Analyst: PYA

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of California - ELAP	1180	State of Nevada	CA000792009A
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA
State of California - NELAP	04227CA	State of Oregon	4017
State of Washington	C997	State of Oregon - NWTPH	4021

BSK is not accredited under the NELAC program for the following parameters:

Boron
Silica (SiO2)
Strontium
Threshold Odor

A3J0709

California American Water

Calif3295

10082013

Turnaround: Standard

Due Date: 10/22/2013

Printed: 10/8/2013 5:10:23PM

Page 1 of 1

BSK Associates
Engineers & Laboratories
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

*Required Fields

Temp: 5.4

Company/Client Name*: RBF Consulting	Report Attention*:	Invoice To*:	Phone*: Fax*:
	Additional cc's.	PO#:	E-mail*:
Address*: 3180 Imjin Rd #110 Marina	City*:	State*: CA	Zip*: 93933
Project: CALAM	Project #		
Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type:	How would you like your completed results sent?* ☐ E-Mail ☐ Fax ☐ Mail		
Sampler Name (Printed/Signature)*:	TAT* **Surcharge ☐ Standard - 10 Business Days ☐ **Rush: Date Needed		

Regulatory Carbon Copies: CDPH ☐ ☐ Fresno Co; Merced Co ☐ ☐ Tulare Co; Madera Co ☐ ☐ Other:

Regulatory Compliance: ☐ EDT to California DPH; System Number*: ; ☐ Geotracker #:

See attached

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX
1	H20 Samples	10/5/13			

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Chris Schuyler	RBF	10-6	4:30 PM		
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Received for Lab by: (Signature and Printed Name)	BSK	10/8/13	0953	Payment Received at Delivery: Date:	Check / Cash; Amount: PIA#: Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier: Custody Seal: Y / N

Cooling Method: Wet Blue None Chilling Process Begun: Y / N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

SR-FL-0012-05 Analytical Chain of Custody

BSK Associates
Engineers & Laboratories
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

*Required Fields

Temp:

Company/Client Name*:	Report Attention*:	Invoice To*:	Phone*:	Fax*:
California American Water	Travis Peterson Additional cc's: Sarp Sekeroglu, RBF Consulting	Accounts Payable PO#:	(831) 646-3295/(831) 646-3269	(831) 333-1343

E-mail*: susan.jacobson@amwater.com,travis.peterson@amwater.com

Address*:	City*:	State*:	Zip*:
PO Box 951	Monterey	CA	93942-0951

Regulatory Carbon Copies: CDPH ☐ Fresno Co ☐ Merced Co ☐ Tulare Co ☐ Madera Co ☐ Other: ____

Project: Water Quality Analysis

Project #:

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type: ____

How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail

Regulatory Compliance: ☐ EDT to California DPH System Number*: ____ ☐ Geotracker #: ____

Sampler Name (Printed/Signature)*:

TAT* **Surcharge
☒ **Standard** - 10 Business Days
☐ ****Rush**: Date Needed ____

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	Alkalinity, Hardness, MBAS,Color, Odor, TDS, pH, Turbidity, EC	Mass Balance-Dissolved: Cations and Anions	Dissolved Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na, Sr, silica	Total Metals: Al, As, Cu, Fe, Mn, Zn	Dissolved: Bromide, Chloride, Nitrite, Fluoride, Sulfate, Orthophosphate-P	Dissolved: Ammonia, TKN, Phosphorus	Nitrate+Nitrite as N, Nitrate-NO3,	EPA 524, 504, 505, 515, 525, 531, 547, 548, 549	EXT-Tritium, EXT-Lithium, EXT-Dissolved Iodide, EXT-Dioxin
				water	Seawater salinity levels.	X	X	X	X	X	X	X	X	X
					Lab to filter dissolved metals.									
					Lab to filter Diss. Ammonia, TKN, P									
					Okay to analyze out of hold time.									

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: PIA#:	Check / Cash Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier: ____ Custody Seal: Y / N

Cooling Method: Wet Blue None Chilling Process Begun: Y / N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

BSK Associates SR-FL-0002-09

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C 5.6	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received — "|" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—	/					
None (P) White Cap	—	—	2C, 1B, 1a					
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—	2B					
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N	1C					
NaOH (P) Green Cap	Cl, pH ≥12	Y N	1C					
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—	2C, 1G, 1B					
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2G, 2C					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	6V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1C					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—	1C					
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

10/8/13

Split		Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
	S P				S P			
	S P				S P			

Comments: No tests requested. Sampled 10/5 H.T. exceeded for various analyses.

Labeled by: PRW @ 13:46 Labels checked by: [illegible] @ 1406 RUSH Paged by: ____ @

External

A3J0709

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

November 11, 2013

Mr. Michael Ng
BSK Analytical Laboratories
1414 Stanislaus St.
Fresno, CA 93706

RE: Project: A3J0709
Pace Project No.: 30105811

Dear Mr. Ng:
Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: A3J0709
Pace Project No.: 30105811

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE SUMMARY

Project: A3J0709
Pace Project No.: 30105811

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30105811001	**A3J0709-01**	Water	10/05/13 00:00	10/23/13 10:15

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SAMPLE ANALYTE COUNT

Project: A3J0709
Pace Project No.: 30105811

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30105811001	**A3J0709-01**	EPA 906.0	SLA	1	PASI-PA

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(724)850-5600

PROJECT NARRATIVE

Project: A3J0709
Pace Project No.: 30105811

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: BSK Analytical Laboratories
Date: November 11, 2013

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: A3J0709
Pace Project No.: 30105811

Sample: A3J0709-01 **Lab ID: 30105811001** Collected: 10/05/13 00:00 Received: 10/23/13 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**47.5 ± 127 (220)**	pCi/L	10/27/13 03:05	10028-17-8	

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QUALITY CONTROL DATA

Project: A3J0709
Pace Project No.: 30105811

QC Batch: RADC/17544 Analysis Method: EPA 906.0
QC Batch Method: EPA 906.0 Analysis Description: 906.0 Tritium
Associated Lab Samples: 30105811001

METHOD BLANK: 648231 Matrix: Water
Associated Lab Samples: 30105811001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	35.3 ± 128 (222)	pCi/L	10/26/13 06:55	

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: A3J0709
Pace Project No.: 30105811

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BSK Analytical Laboratories
Engineering Laboratories

SUBCONTRACT ORDER

A3J0709

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Radiochem
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600
Fax: (724) 722-5208
Turnaround (Days): Standard
QC Deliverables: Std III IV

30105511

Sample ID	Samp Desc	Comments	Sample Date
A3J0709-01	Water Samples		10/05/2013 00:00

Matrix: Water

Analysis		
EXT-Tritium		Non preserved glass container

High salinity samples. Okay to run out of HT. 001

Released By | Date | Received By | Date
Mbeou BSK 10/10/13 1530 UPS

Released By | Date | Received By | Date
10-23-13

Sample Condition Upon Receipt

Pace Analytical

PAC

Client Name: BSK

Project # 30105811

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 1Z 93X921035784837C

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other Foam, Plastic & Ziplock Bags

Thermometer Used 5 6 7 Type of Ice: Wet Blue (None) ☐ Samples on ice, cooling process has begun

Cooler Temperature N/A Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: PAC 10-28-13

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
(exceptions: VOA, coliform, TOC, O&G, WI-DRO (water))	☐Yes ☑No	Initial when completed PAC / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Pace Analytical

page 2

Project Number: 30105811

Client Name: BSK

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	SL	1																						

SCURF Back (C016-4 15May2012).xls

QA Assessment Spreadsheet
PACE Analytical Services

Quality Control Sample Performance Assessment

Pace Analytical

Analyst:	SLA		
Date:	10/28/2013	Method:	EPA 906.0
Worklist:	17544	SOP:	PCH-R-021
Matrix:	DW	MB Sample ID:	848231

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	35.3300	127.7000	221.9000	105.62000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	10/27/13 5:07	10/27/13 6:08				
Spike I.D.:	10-003	10-003				
Spike Concentration (pCi/L):	2533.462	2533.465				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.100	0.100				
Target Conc. (pCi/L, g, F):	2533.462	2533.465				
1.96 Sigma Uncertainty (Calculated):	69.519	69.518				
Result (pCi/L, g, F):	2132.350	2070.459				
1.96 Sigma Unc:	226.000	219.200				
% Recovery:	84.17%	81.72%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y
Analyte:	Tritium
Sample I.D.:	LCS17544
Duplicate Sample I.D.:	LCSD17544
Sample Result (pCi/L, g, F):	2132.3500
1.96 Sigma Unc:	226.0000
Sample Duplicate Result (pCi/L, g, F):	2070.4500
Duplicate Sample 1.96 Sigma Unc.:	219.2000
Either results below MDC?	N
Relative Percent Difference:	2.95%
Assessment:	Pass
% RPD Limit:	25.00%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Sample Matrix Spike Control Assessment

Analyte:	Tritium	Tritium
Sample Collection Date:	10/10/2013	10/7/2013
Sample I.D.:	30105413002	30105314001
Sample MS I.D.:	30105413002MS	30105314001MS
Sample MSD I.D.:		
Spike I.D.:	10-003	10-003
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2540.012	2541.196
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):	0.1000	0.1000
MS Target Conc.(pCi/L, g, F):	5080.026	5082.393
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike uncertainty (calculated):	138.398	139.461
MSD Spike uncertainty (calculated):		
Sample Result:	-12.570	-12.560
Sample 1.96 Sigma Unc.:	124.200	124.100
Sample Matrix Spike Result:	4464.660	4757.060
Sample MS 1.96 Sigma Unc.:	297.000	309.600
Sample Matrix Spike Duplicate Result:		
Sample MSD 1.96 Sigma Unc.:		
MS % Recovery:	88.13%	94.04%
MSD % Recovery:		
MS Assessment:	Pass	Pass
MSD Assessment:		
MS/MSD Upper % Recovery Limits:	125.00%	125.00%
MS/MSD Lower % Recovery Limits:	75.00%	75.00%

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

Pace Analytical™

www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Michael Ng
BSK Analytical Laboratories
1414 Stanislaus Street
Fresno CA 93706

REPORT OF LABORATORY ANALYSIS FOR 2,3,7,8-TCDD

Report Summary:

This report contains results of one drinking water sample analyzed to determine 2,3,7,8-TCDD content. This sample was analyzed according to Method 1613 by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

Report Information:

Pace Project #: 10246204
Sample Receipt Date: 10/17/2013
Client Project #: A3J0709
Client Sub PO #: N/A
State Cert #: 01155CA

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Brittany Hansen, your Pace Project Manager.

This report has been reviewed by:

Brittany J. Hansen

October 31, 2013

Brittany Hansen, Project Manager
(612) 607-6429
(612) 607-6444 (fax)
brittany.hansen@pacelabs.com

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE	MN002
Colorado	MN00064	New Mexico	MN00064
Connecticut	PH-0256	New York (NEL	11647
EPA Region 5	WD-15J	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennesee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	03086	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

BSK Analytical Laboratories
Engineers & Laboratories

SUBCONTRACT ORDER

A3J0709

1133 10246204

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Dioxin
1700 Elm Street S.E. Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Comments	Sample Date
A3J0709-01	Water Samples		10/05/2013 00:00 001
Matrix: Water		High salinity samples. Okay to run out of HT.	

Analysis ILAG Ø
EXT-Dioxin-DW matrix, EPA 1613 2,3,7,8-TCDD

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 19Sep2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.07	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: BSK

Project #: WO#: 10246204 (10246204)

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 7949 2819 3816

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☐ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☐ Yes ☒ No

Thermom. Used: ☐ 80512447 ☐ 72337080 ☐ B88A912167504 ☒ B88A9132521491 Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 3.6 **Cooler Temp Corrected (°C):** 3.4 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** -.2 **Date and Initials of Person Examining Contents:** CB 10 17 13

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☐ No	☒ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☐ No	☒ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☒ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Shannon Davis **Date:** 10-17-13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical™

Pace AnalyticalServices, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Drinking Water Analysis Results
2,3,7,8-TCDD -- USEPA Method 1613B

Sample ID.....A3J0709-01 Water Samples
Client..... BSK Analytical Laboratories
Lab Sample ID..... 10246204001

Date Collected.....10/05/2013
Date Received.....10/17/2013
Date Extracted.....10/25/2013

	Sample A3J0709-01 Water	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	**ND**	ND	--	--
RL	5.0 pg/L	5.0 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	91%	111%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			20.2%	
IS Recovery	**51%**	52%	53%	54%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	**55%**	56%	56%	59%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	R131026A_09	R131026A_06	R131026A_04	R131026A_05
Analysis Date	10/26/2013	10/26/2013	10/26/2013	10/26/2013
Analysis Time	20:41	18:57	17:48	18:25
Analyst	BAL	BAL	BAL	BAL
Volume	0.883L	0.999L	1.004L	0.994L
Dilution	NA	NA	NA	NA
ICAL Date	07/19/2013	07/19/2013	07/19/2013	07/19/2013
CCAL Filename	R131026A_03	R131026A_03	R131026A_03	R131026A_03

! = Outside the Control Limits
ND = Not Detected
RL = Reporting Limit
Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A
RPD = [illegible]ve P[illegible] of [illegible]

Analyst: Barn a Lark

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 11/06/13 14:00
Received Date: 10/17/13 08:40
Turnaround Time: Normal

Project: A3J0709

Phones: (559) 497-2888
Fax: (559) 485-6935

P.O. #:

Attn: Michael Ng

Client: BSK Analytical Laboratories
550 West Locust Avenue
Fresno, CA 93650

Dear Michael Ng :

Enclosed are the results of analyses for samples received 10/17/2013 with the Chain of Custody document. The samples were received in good condition, at 1.0 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 3J17013-01 **Sample ID:** A3J0709-01 **Matrix:** Water
Sampled by: Client **Sampled:** 10/05/13 00:00

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lithium, Total	**140**	1.4	10	ug/l	1	EPA 200.7	11/4/13	11/5/13 10:25	W3K0097	
Iodide, Dissolved	ND	21	500	ug/l	50	EPA 9056A	11/5/13	11/5/13 19:57	W3K0192	M-05, Q-14

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Analytical Laboratory Service - Since 1957

Certificate of Analysis

Quality Control Section

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W3K0192 - EPA 9056A

Blank (W3K0192-BLK1) — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		ND		ug/l					

LCS (W3K0192-BS1) — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		35.3		ug/l	40.0	88	85-115		

Matrix Spike (W3K0192-MS1) — Source: 3J15074-01 — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	179	368		ug/l	200	94	80-120		

Matrix Spike Dup (W3K0192-MSD1) — Source: 3J15074-01 — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	179	355		ug/l	200	88	80-120	3	20

Metals by EPA 200 Series Methods - Quality Control

Batch W3K0097 - EPA 200.7

Blank (W3K0097-BLK1) — Prepared: 11/04/13 Analyzed: 11/05/13 10:15

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		1.70	J	ug/l					

LCS (W3K0097-BS1) — Prepared: 11/04/13 Analyzed: 11/05/13 10:18

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		988		ug/l	1000	99	85-115		

LCS Dup (W3K0097-BSD1) — Prepared: 11/04/13 Analyzed: 11/05/13 10:21

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		992		ug/l	1000	99	85-115	0.3	30

Duplicate (W3K0097-DUP1) — Source: 3J17013-01 — Prepared: 11/04/13 Analyzed: 11/05/13 10:28

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	144	134		ug/l				8	30

Weck Laboratories, Inc. 14859 East Clark Avenue, City of Industry, California 91745-1299 (626) 336-2139 FAX (626) 336-2634

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature
Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

J	Estimated conc. detected <MRL and >MDL.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
Q-14	This analysis was requested by the client after the holding time was exceeded.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

Weck Laboratories, Inc. 14859 East Clark Avenue, City of Industry, California 91746-1318 (626) 336-2139 FAX (626) 336-2634

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Sample Receipt Acknowledgement

WORK ORDER: 3J17013
Printed: 10/18/2013 12:31:18PM

Client: BSK Analytical Laboratories
Project: Metals
Project Manager: Kim G Tu
Project Number: A3J0709

Report To:
BSK Analytical Laboratories
Michael Ng
550 West Locust Avenue
Fresno, CA 93650
Phone: (559) 497-2888
Fax: (559) 485-6935

Invoice To:
BSK Analytical Laboratories
Accounts Payable - Anise Foote
550 West Locust Avenue
Fresno, CA 93650
Phone :(559) 497-2888
Fax: (559) 485-6935

Date Due: **10/31/13 15:00 (10 day TAT)**
Received By: Lian Guang Liao
Date Received: 10/17/13 08:40
Logged In By: Jaime Gomez
Date Logged In: 10/17/13 11:00

Samples Received at:	1°C	All containers intact:	Yes	Chain of custody completed	Yes
Number of Ice chests/packages:	No	Custody seals presen		Sample labels & COC agree	Yes
		Custody seals intact:		Samples preserved properly	Yes
Appropriate Sample Containers:		Samples received on ice		Sample volume sufficient	Yes
		Custody Seals	No	Sufficient holding time for all tests	Yes

Analysis	TAT	Expires	Comments
3J17013-01 A3J0709-01 [Water] Sampled 10/05/13 00:00 Pacific			
Iodide water 9056M	10	11/02/13 00:00	
200.7 Li_diss	10	04/03/14 00:00	

Comments:

Authorized Signature
10/18/2013
Date

Note:
If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.

BSK Analytical Laboratories
Engineers & Laboratories

SUBCONTRACT ORDER

A3J0709

3517013

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Weck Laboratories, Inc.
14859 E Clark Avenue
City of Industry, CA 91745-1396
Phone :(626) 336-2139
Fax: (626) 336-2634
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Comments	Sample Date
A3J0709-01	Water Samples		10/05/2013 00:00

Matrix: Water

High salinity samples. Okay to run out of HT.

500mlpo

Analysis	
EXT-Iodide	Dissolved
EXT-Miscellaneous	Lithium

1.02

Released By	Date	Received By	Date
[signature]		BSK [signature]	10/16/13 1230
[signature]		[signature]	10/17/13 08:40

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

Travis Peterson
California American Water
836 Carmel Ave.
Monterey, CA 93940

RE: Report for A3J0790 Water Quality Analysis

Dear Travis Peterson,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 10/9/2013. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michael Ng, Project Manager

If additional clarification of any information is required, please contact your Project Manager, Michael Ng , at (800) 877-8310 or (559) 497-2888 x118.

Case Narrative

Project and Report Details		Invoice Details	
Client:	California American Water	**Invoice To:**	California American Water
Report To:	Travis Peterson	**Invoice Attn:**	Accounts Payable
Project #:	MPWSP Exploratory Boreholes #136410	**Project PO#:**	-
Received:	10/09/2013 - 09:53		
Report Due:	10/23/2013		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 1.8

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

B2.0	Analyte present in the method blank above the method detection limit (MDL). Laboratory does not determine batch acceptance on detections below the reporting limit (RL).
BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
DL1.0	Sample required a dilution due to the matrix or high concentration of a non-target analyte.
HT1.6	Holding time exceeded. The holding time for this analysis is a recommendation and is not mandated by any state or federal agency.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
MS1.1	Matrix spike recovery exceeds upper control limit. Reported results for parent matrix may be biased high due to matrix interferences.
MS1.2	Matrix spike recovery exceeds lower control limit. Reported results for parent matrix may be biased low due to matrix interferences.
SR3.0	Surrogate recovery exceeds control limits. No material impact as spike recoveries are all within control ranges.
X.0	Sample filtered prior to analysis

Report Distribution

Recipient(s)	Report Format
Travis Peterson	Final.rpt
Sarp Sekeroglu	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A3J0790-01
Sampled By: Nathan Reynolds
Sample Description: MPWSP ML-1 Zone #2 (90-100 ft bgs)

Sample Date - Time: 10/07/13 - 18:25
Matrix: Ground Water
Sample Type: Grab

Field Data: pH=7.24 Temp=16.8 ºC Turb. =2.52 ntu

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320 B	**320**	3.0	mg/L	1	A311948	10/09/13	10/09/13	X.0
Bicarbonate as CaCO3	SM 2320 B	**320**	3.0	mg/L	1	A311948	10/09/13	10/09/13	X.0
Carbonate as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A311948	10/09/13	10/09/13	X.0
Hydroxide as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A311948	10/09/13	10/09/13	X.0
Ammonia as N	SM 4500-NH3 G	**7.5**	0.10	mg/L	1	A312388	10/17/13	10/18/13	
Bromide	EPA 300.1	**5.7**	0.10	mg/L	20	A312060	10/11/13	10/11/13	X.0
Surrogate: Dichloroacetate	EPA 300.1	108 %	*Acceptable range: 90-115 %*			*Qualifiers -*	*X.0*		
Chloride	EPA 300.0	**1600**	20	mg/L	20	A312048	10/11/13	10/11/13	X.0
Color, Apparent	SM 2120 B	**30**	1.0	CU	1	A311932	10/09/13 13:56	10/09/13	
Conductivity @ 25C	SM 2510 B	**4900**	1.0	umhos/cm	1	A311948	10/09/13	10/09/13	
Fluoride	SM 4500-F C	**0.20**	0.10	mg/L	1	A312667	10/23/13	10/23/13	
Mass Balance-Anions		**51**		meq/L					
Mass Balance-Dissolved Cations		**50**		meq/L					
MBAS, Calculated as LAS, mol wt 340	SM 5540 C	ND	0.050	mg/L	1	A311939	10/09/13 12:48	10/09/13	
Nitrate as NO3	EPA 300.0	ND	10	mg/L	10	A311979	10/09/13 18:14	10/09/13	DL1.0, X.0
Nitrite as N	EPA 300.0	ND	0.50	mg/L	10	A311979	10/09/13 18:14	10/09/13	DL1.0, X.0
Threshold Odor	SM 2150 B	**50**	1.0	T.O.N.	1	A311932	10/09/13 14:23	10/09/13	HT1.6
Orthophosphate as P	SM 4500-P E	**0.16**	0.050	mg/L	5	A311969	10/09/13 14:45	10/09/13	X.0
pH (1)	SM 4500-H+ B	**7.8**		pH Units	1	A311948	10/09/13	10/09/13	
pH Temperature in °C		**21.3**							
Phosphorus - Dissolved (1)	EPA 365.4	**0.21**	0.10	mg/L	1	A312089	10/11/13	10/16/13	
Sulfate as SO4	EPA 300.0	**21**	20	mg/L	10	A311979	10/09/13	10/09/13	X.0
Total Dissolved Solids	SM 2540C	**3200**	5.0	mg/L	1	A312067	10/11/13	10/16/13	
Total Kjeldahl Nitrogen - Dissolved (1)	EPA 351.2	**8.1**	1.0	mg/L	1	A312089	10/11/13	10/16/13	
Total Oxidizable Nitrogen, as N - Dissolved (1)	SM 4500-NO3 F	ND	0.10	mg/L	1	A312125	10/14/13	10/14/13	
Turbidity	SM 2130 B	**19**	0.50	NTU	5	A311932	10/09/13 13:56	10/09/13	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aluminum	EPA 200.7	**0.15**	0.050	mg/L	1	A312015	10/10/13	10/17/13	
Arsenic	EPA 200.8	ND	2.0	ug/L	1	A312015	10/10/13	10/18/13	
Barium - Dissolved (1)	EPA 200.7	**0.27**	0.050	mg/L	1	A312350	10/17/13	10/18/13	
Boron - Dissolved (1)	EPA 200.7	**0.45**	0.10	mg/L	1	A312350	10/17/13	10/18/13	
Calcium	EPA 200.7	**180**	0.10	mg/L	1	A312015	10/10/13	10/17/13	
Calcium - Dissolved (1)	EPA 200.7	**180**	0.10	mg/L	1	A312350	10/17/13	10/18/13	
Copper	EPA 200.8	ND	5.0	ug/L	1	A312015	10/10/13	10/18/13	
Hardness as CaCO3	SM 2340B	**920**	0.41	mg/L					
Iron	EPA 200.7	**1.8**	0.030	mg/L	1	A312015	10/10/13	10/17/13	
Iron - Dissolved (1)	EPA 200.7	ND	0.030	mg/L	1	A312350	10/17/13	10/18/13	

BSK Associates Engineers & Laboratories

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Matrix: Ground Water
Sample Type: Grab

Field Data: pH=7.24 Temp=16.8 ºC Turb. =2.52 ntu

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Magnesium	EPA 200.7	**110**	0.10	mg/L	1	A312015	10/10/13	10/17/13	
Magnesium - Dissolved (1)	EPA 200.7	**110**	0.10	mg/L	1	A312350	10/17/13	10/18/13	
Manganese	EPA 200.7	**0.79**	0.010	mg/L	1	A312015	10/10/13	10/17/13	
Manganese - Dissolved (1)	EPA 200.7	**0.79**	0.010	mg/L	1	A312350	10/17/13	10/18/13	
Potassium - Dissolved (1)	EPA 200.7	**31**	2.0	mg/L	1	A312350	10/17/13	10/18/13	
Silica (SiO2) - Dissolved (1)	EPA 200.7	**35**	0.20	mg/L	1	A312350	10/17/13	10/18/13	
Sodium - Dissolved (1)	EPA 200.7	**710**	10	mg/L	10	A312350	10/17/13	10/19/13	
Strontium - Dissolved (1)	EPA 200.8	**1600**	1.0	ug/L	1	A312350	10/17/13	10/21/13	
Zinc	EPA 200.7	ND	0.050	mg/L	1	A312015	10/10/13	10/17/13	

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A312133	10/14/13	10/16/13	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A312133	10/14/13	10/16/13	
Surrogate: TCMX	EPA 504.1	79 %	*Acceptable range: 70-130 %*						
Organohalide Pesticides and PCBs by GC-ECD									
Aldrin	EPA 505	ND	0.075	ug/L	1	A312133	10/14/13	10/16/13	
Chlordane	EPA 505	ND	0.10	ug/L	1	A312133	10/14/13	10/16/13	
Chlorothalonil	EPA 505	ND	5.0	ug/L	1	A312133	10/14/13	10/16/13	
Dieldrin	EPA 505	ND	0.020	ug/L	1	A312133	10/14/13	10/16/13	
Endrin	EPA 505	ND	0.10	ug/L	1	A312133	10/14/13	10/16/13	
Heptachlor	EPA 505	ND	0.010	ug/L	1	A312133	10/14/13	10/16/13	
Heptachlor Epoxide	EPA 505	ND	0.010	ug/L	1	A312133	10/14/13	10/16/13	
Hexachlorobenzene	EPA 505	ND	0.50	ug/L	1	A312133	10/14/13	10/16/13	
Hexachlorocyclopentadiene	EPA 505	ND	1.0	ug/L	1	A312133	10/14/13	10/16/13	
Lindane	EPA 505	ND	0.20	ug/L	1	A312133	10/14/13	10/16/13	
Methoxychlor	EPA 505	ND	10	ug/L	1	A312133	10/14/13	10/16/13	
PCB Aroclor Screen	EPA 505	ND	0.50	ug/L	1	A312133	10/14/13	10/16/13	
Toxaphene	EPA 505	ND	1.0	ug/L	1	A312133	10/14/13	10/16/13	
Trifluralin	EPA 505	ND	1.0	ug/L	1	A312133	10/14/13	10/16/13	
Surrogate: TCMX	EPA 505	79 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A311994	10/09/13	10/11/13	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A311994	10/09/13	10/11/13	
2,4-D	EPA 515.3	ND	10	ug/L	1	A311994	10/09/13	10/11/13	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A311994	10/09/13	10/11/13	
Dalapon	EPA 515.3	ND	10	ug/L	1	A311994	10/09/13	10/11/13	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A311994	10/09/13	10/11/13	

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Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chlorinated Acid Herbicides by GC-ECD									
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A311994	10/09/13	10/11/13	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A311994	10/09/13	10/11/13	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A311994	10/09/13	10/11/13	
Surrogate: DCPAA	EPA 515.3	82 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A312121	10/14/13	10/14/13	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A312121	10/14/13	10/14/13	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A312121	10/14/13	10/14/13	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A312121	10/14/13	10/14/13	
Acetone	EPA 524.2	ND	10	ug/L	1	A312121	10/14/13	10/14/13	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	BS1.0
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	

Certificate of Analysis

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Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A312121	10/14/13	10/14/13	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A312121	10/14/13	10/14/13	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A312121	10/14/13	10/14/13	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A312121	10/14/13	10/14/13	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A312121	10/14/13	10/14/13	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	95 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	99 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A312014	10/10/13	10/13/13	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A312014	10/10/13	10/13/13	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A312014	10/10/13	10/13/13	

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Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Semi-Volatile Organics by GC-MS									
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A312014	10/10/13	10/13/13	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A312014	10/10/13	10/13/13	
Bromacil	EPA 525.2	ND	10	ug/L	1	A312014	10/10/13	10/13/13	
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A312014	10/10/13	10/13/13	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A312014	10/10/13	10/13/13	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A312014	10/10/13	10/13/13	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A312014	10/10/13	10/13/13	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A312014	10/10/13	10/13/13	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A312014	10/10/13	10/13/13	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A312014	10/10/13	10/13/13	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A312014	10/10/13	10/13/13	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A312014	10/10/13	10/13/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	108 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A312119	10/12/13	10/12/13	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A312119	10/12/13	10/12/13	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A312119	10/12/13	10/12/13	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A312119	10/12/13	10/12/13	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A312119	10/12/13	10/12/13	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A312119	10/12/13	10/12/13	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A312119	10/12/13	10/12/13	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A312119	10/12/13	10/12/13	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A312197	10/15/13	10/15/13	
Surrogate: AMPA	EPA 547	103 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A312182	10/14/13	10/15/13	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A312161	10/14/13	10/16/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A311979										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: EMH	
Blank (A311979-BLK1)											
Nitrate as NO3	ND	1.0	mg/L							10/09/13	
Nitrite as N	ND	0.050	mg/L							10/09/13	
Sulfate as SO4	ND	2.0	mg/L							10/09/13	
Blank Spike (A311979-BS1)											
Nitrate as NO3	50	1.0	mg/L	50		101	90-110			10/09/13	
Nitrite as N	0.55	0.050	mg/L	0.50		110	90-110			10/09/13	
Sulfate as SO4	50	2.0	mg/L	50		101	90-110			10/09/13	
Blank Spike Dup (A311979-BSD1)											
Nitrate as NO3	50	1.0	mg/L	50		100	90-110	0	20	10/09/13	
Nitrite as N	0.55	0.050	mg/L	0.50		110	90-110	0	20	10/09/13	
Sulfate as SO4	50	2.0	mg/L	50		101	90-110	0	20	10/09/13	
Matrix Spike (A311979-MS1), Source: A3J0776-01											
Nitrate as NO3	120	2.0	mg/L	100	20	104	80-120			10/09/13	
Nitrite as N	1.1	0.10	mg/L	1.0	ND	106	80-120			10/09/13	
Sulfate as SO4	110	4.0	mg/L	100	10	104	80-120			10/09/13	
Matrix Spike (A311979-MS2), Source: A3J0776-02											
Nitrate as NO3	130	2.0	mg/L	100	26	100	80-120			10/09/13	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	103	80-120			10/09/13	
Sulfate as SO4	110	4.0	mg/L	100	11	101	80-120			10/09/13	
Matrix Spike Dup (A311979-MSD1), Source: A3J0776-01											
Nitrate as NO3	130	2.0	mg/L	100	20	106	80-120	2	20	10/09/13	
Nitrite as N	1.1	0.10	mg/L	1.0	ND	110	80-120	4	20	10/09/13	
Sulfate as SO4	120	4.0	mg/L	100	10	106	80-120	2	20	10/09/13	
Matrix Spike Dup (A311979-MSD2), Source: A3J0776-02											
Nitrate as NO3	130	2.0	mg/L	100	26	104	80-120	3	20	10/09/13	
Nitrite as N	1.1	0.10	mg/L	1.0	ND	107	80-120	4	20	10/09/13	
Sulfate as SO4	120	4.0	mg/L	100	11	104	80-120	3	20	10/09/13	
EPA 300.0 - Quality Control											
Batch: A312048										Prepared: 10/10/2013	
Prep Method: Method Specific Preparation										Analyst: EMH	
Blank (A312048-BLK1)											
Chloride	ND	1.0	mg/L							10/10/13	
Blank Spike (A312048-BS1)											
Chloride	51	1.0	mg/L	50		102	90-110			10/10/13	
Blank Spike Dup (A312048-BSD1)											
Chloride	51	1.0	mg/L	50		102	90-110	0	20	10/10/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A312048										Prepared: 10/10/2013	
Prep Method: Method Specific Preparation										Analyst: EMH	
Matrix Spike (A312048-MS1), Source: A3J0932-02											
Chloride	110	2.0	mg/L	100	9.4	100	80-120			10/10/13	
Matrix Spike (A312048-MS2), Source: A3J0645-06											
Chloride	190	2.0	mg/L	100	90	101	80-120			10/11/13	
Matrix Spike Dup (A312048-MSD1), Source: A3J0932-02											
Chloride	110	2.0	mg/L	100	9.4	100	80-120	1	20	10/11/13	
Matrix Spike Dup (A312048-MSD2), Source: A3J0645-06											
Chloride	190	2.0	mg/L	100	90	102	80-120	1	20	10/11/13	
EPA 300.1 - Quality Control											
Batch: A312060										Prepared: 10/11/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A312060-BLK1)											
Bromide	ND	0.0050	mg/L							10/11/13	
Surrogate: Dichloroacetate	*0.555*			*0.50*		*111*	*90-115*			10/11/13	
Blank Spike (A312060-BS1)											
Bromide	0.21	0.0050	mg/L	0.20		103	85-115			10/11/13	
Surrogate: Dichloroacetate	*0.555*			*0.50*		*111*	*90-115*			10/11/13	
Blank Spike Dup (A312060-BSD1)											
Bromide	0.20	0.0050	mg/L	0.20		100	85-115	2	10	10/11/13	
Surrogate: Dichloroacetate	*0.554*			*0.50*		*111*	*90-115*			10/11/13	
Matrix Spike (A312060-MS1), Source: A3J0905-01											
Bromide	0.50	0.020	mg/L	0.40	0.064	108	75-125			10/11/13	
Surrogate: Dichloroacetate	*2.32*			*2.0*		*116*	*90-115*			10/11/13	*SR3.0*
Matrix Spike Dup (A312060-MSD1), Source: A3J0905-01											
Bromide	0.47	0.020	mg/L	0.40	0.064	101	75-125	6	10	10/11/13	
Surrogate: Dichloroacetate	*2.22*			*2.0*		*111*	*90-115*			10/11/13	
EPA 351.2 - Quality Control											
Batch: A312089										Prepared: 10/11/2013	
Prep Method: Digestion										Analyst: LJL	
Blank (A312089-BLK1)											
Total Kjeldahl Nitrogen - Dissolved (1)	ND	1.0	mg/L							10/16/13	
Blank Spike (A312089-BS1)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		103	90-110			10/16/13	
Blank Spike Dup (A312089-BSD1)											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 351.2 - Quality Control											
Batch: A312089										Prepared: 10/11/2013	
Prep Method: Digestion										Analyst: LJL	
Blank Spike Dup (A312089-BSD1)											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10		106	90-110	2	10	10/16/13	
Matrix Spike (A312089-MS1), Source: A3J0687-08											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10	ND	111	90-110			10/16/13	MS1.0 ***High***
Matrix Spike (A312089-MS2), Source: A3J0782-04											
Total Kjeldahl Nitrogen - Dissolved (1)	14	1.0	mg/L	10	ND	138	90-110			10/16/13	MS1.0 ***High***
Matrix Spike Dup (A312089-MSD1), Source: A3J0687-08											
Total Kjeldahl Nitrogen - Dissolved (1)	9.5	1.0	mg/L	10	ND	95	90-110	15	10	10/16/13	MS1.0
Matrix Spike Dup (A312089-MSD2), Source: A3J0782-04											
Total Kjeldahl Nitrogen - Dissolved (1)	13	1.0	mg/L	10	ND	130	90-110	6	10	10/16/13	MS1.0 ***High***
EPA 365.4 - Quality Control											
Batch: A312089										Prepared: 10/11/2013	
Prep Method: Digestion										Analyst: LJL	
Blank (A312089-BLK1)											
Phosphorus - Dissolved (1)	ND	0.10	mg/L							10/16/13	
Blank Spike (A312089-BS1)											
Phosphorus - Dissolved (1)	9.4	0.10	mg/L	10		94	90-110			10/16/13	
Blank Spike Dup (A312089-BSD1)											
Phosphorus - Dissolved (1)	9.1	0.10	mg/L	10		91	90-110	3	10	10/16/13	
Matrix Spike (A312089-MS1), Source: A3J0687-08											
Phosphorus - Dissolved (1)	9.3	0.10	mg/L	10	0.16	92	90-110			10/16/13	
Matrix Spike (A312089-MS2), Source: A3J0782-04											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10	0.11	100	90-110			10/16/13	
Matrix Spike Dup (A312089-MSD1), Source: A3J0687-08											
Phosphorus - Dissolved (1)	9.4	0.10	mg/L	10	0.16	92	90-110	1	10	10/16/13	
Matrix Spike Dup (A312089-MSD2), Source: A3J0782-04											
Phosphorus - Dissolved (1)	9.7	0.10	mg/L	10	0.11	96	90-110	4	10	10/16/13	
SM 2120 B - Quality Control											
Batch: A311932										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311932-BLK1)											
Color, Apparent	ND	1.0	CU							10/09/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2120 B - Quality Control											
Batch: A311932										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Duplicate (A311932-DUP1), Source: A3J0722-01											
Color, Apparent	35	1.0	CU		35			0	20	10/09/13	
Duplicate (A311932-DUP2), Source: A3J0851-02											
Color, Apparent	40	1.0	CU		40			0	20	10/09/13	
SM 2130 B - Quality Control											
Batch: A311932										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311932-BLK1)											
Turbidity	ND	0.10	NTU							10/09/13	
Duplicate (A311932-DUP1), Source: A3J0722-01											
Turbidity	2.6	0.10	NTU		2.5			3	20	10/09/13	
Duplicate (A311932-DUP2), Source: A3J0851-02											
Turbidity	9.6	0.20	NTU		9.7			1	20	10/09/13	
SM 2150 B - Quality Control											
Batch: A311932										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311932-BLK1)											
Threshold Odor	ND	1.0	T.O.N.							10/09/13	
Duplicate (A311932-DUP1), Source: A3J0722-01											
Threshold Odor	4.0	1.0	T.O.N.		4.0			0	20	10/09/13	
Duplicate (A311932-DUP2), Source: A3J0851-02											
Threshold Odor	10	1.0	T.O.N.		10			0	20	10/09/13	
SM 2320 B - Quality Control											
Batch: A311948										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A311948-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							10/09/13	
Bicarbonate as CaCO3	ND	3.0	mg/L							10/09/13	
Carbonate as CaCO3	ND	3.0	mg/L							10/09/13	
Hydroxide as CaCO3	ND	3.0	mg/L							10/09/13	
Blank Spike (A311948-BS1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		103	80-120			10/09/13	
Blank Spike Dup (A311948-BSD1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		103	80-120	0	20	10/09/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2320 B - Quality Control											
Batch: A311948										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Duplicate (A311948-DUP1), Source: A3J0790-01											
Alkalinity as CaCO3	320	3.0	mg/L		320			0	10	10/09/13	
Bicarbonate as CaCO3	320	3.0	mg/L		320			0	10	10/09/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	10/09/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	10/09/13	
Duplicate (A311948-DUP2), Source: A3J0851-02											
Alkalinity as CaCO3	15	3.0	mg/L		15			0	10	10/09/13	
Bicarbonate as CaCO3	15	3.0	mg/L		15			0	10	10/09/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	10/09/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	10/09/13	
SM 2510 B - Quality Control											
Batch: A311948										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A311948-BLK1)											
Conductivity @ 25C	ND	1.0	umhos/cm							10/09/13	
Duplicate (A311948-DUP1), Source: A3J0790-01											
Conductivity @ 25C	4800	1.0	umhos/cm		4900			0	20	10/09/13	
Duplicate (A311948-DUP2), Source: A3J0851-02											
Conductivity @ 25C	45	1.0	umhos/cm		45			0	20	10/09/13	
SM 2540C - Quality Control											
Batch: A312067										Prepared: 10/11/2013	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank (A312067-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							10/16/13	
Blank Spike (A312067-BS1)											
Total Dissolved Solids	1000	5.0	mg/L	1000		100	70-130			10/16/13	
SM 4500-F C - Quality Control											
Batch: A312667										Prepared: 10/23/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A312667-BLK1)											
Fluoride	ND	0.10	mg/L							10/23/13	
Blank Spike (A312667-BS1)											
Fluoride	1.0	0.10	mg/L	1.0		100	90-110			10/23/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-F C - Quality Control											
Batch: A312667										Prepared: 10/23/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank Spike Dup (A312667-BSD1)											
Fluoride	1.0	0.10	mg/L	1.0		101	90-110	1	20	10/23/13	
Matrix Spike (A312667-MS1), Source: A3J1329-01											
Fluoride	1.1	0.10	mg/L	1.0	ND	100	80-120			10/23/13	
Matrix Spike Dup (A312667-MSD1), Source: A3J1329-01											
Fluoride	1.1	0.10	mg/L	1.0	ND	100	80-120	0	20	10/23/13	
SM 4500-H+ B - Quality Control											
Batch: A311948										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Duplicate (A311948-DUP1), Source: A3J0790-01											
pH (1)	7.8		pH Units		7.8			0	20	10/09/13	
Duplicate (A311948-DUP2), Source: A3J0851-02											
pH (1)	6.9		pH Units		6.9			0	20	10/09/13	
SM 4500-NH3 G - Quality Control											
Batch: A312388										Prepared: 10/17/2013	
Prep Method: Ammonia Distillation										Analyst: LJL	
Blank (A312388-BLK1)											
Ammonia as N	ND	0.10	mg/L							10/18/13	B2.0
Blank Spike (A312388-BS1)											
Ammonia as N	10	0.10	mg/L	10		100	80-120			10/18/13	
Blank Spike Dup (A312388-BSD1)											
Ammonia as N	10	0.10	mg/L	10		101	80-120	1	20	10/18/13	
Matrix Spike (A312388-MS1), Source: A3J0794-01											
Ammonia as N	9.9	0.10	mg/L	10	0.22	97	80-120			10/18/13	
Matrix Spike (A312388-MS2), Source: A3J0828-02											
Ammonia as N	49	0.50	mg/L	10	38	112	80-120			10/18/13	
Matrix Spike Dup (A312388-MSD1), Source: A3J0794-01											
Ammonia as N	9.8	0.10	mg/L	10	0.22	96	80-120	2	20	10/18/13	
Matrix Spike Dup (A312388-MSD2), Source: A3J0828-02											
Ammonia as N	46	0.50	mg/L	10	38	82	80-120	6	20	10/18/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-NO3 F - Quality Control											
Batch: A312125										Prepared: 10/14/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Blank (A312125-BLK2)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	ND	0.10	mg/L							10/14/13	
Blank Spike (A312125-BS1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.8	0.10	mg/L	10		98	80-120			10/14/13	
Blank Spike Dup (A312125-BSD1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10		101	80-120	2	20	10/14/13	
Matrix Spike (A312125-MS2), Source: A3J0790-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	8.8	0.10	mg/L	10	ND	88	80-120			10/14/13	
Matrix Spike Dup (A312125-MSD2), Source: A3J0790-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.1	0.10	mg/L	10	ND	91	80-120	3	20	10/14/13	
SM 4500-P E - Quality Control											
Batch: A311969										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Blank (A311969-BLK1)											
Orthophosphate as P	ND	0.010	mg/L							10/09/13	
Blank Spike (A311969-BS1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		100	90-110			10/09/13	
Blank Spike Dup (A311969-BSD1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		102	90-110	1	20	10/09/13	
Matrix Spike (A311969-MS1), Source: A3J0790-01											
Orthophosphate as P	1.4	0.050	mg/L	1.2	0.16	98	80-120			10/09/13	
Matrix Spike Dup (A311969-MSD1), Source: A3J0790-01											
Orthophosphate as P	1.4	0.050	mg/L	1.2	0.16	99	80-120	1	20	10/09/13	
SM 5540 C - Quality Control											
Batch: A311939										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311939-BLK1)											
MBAS, Calculated as LAS, mol wt 340	ND	0.050	mg/L							10/09/13	
Blank Spike (A311939-BS1)											
MBAS, Calculated as LAS, mol wt 340	0.94	0.050	mg/L	1.0		94	80-120			10/09/13	
Blank Spike Dup (A311939-BSD1)											
MBAS, Calculated as LAS, mol wt 340	0.95	0.050	mg/L	1.0		95	80-120	2	20	10/09/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 5540 C - Quality Control											
Batch: A311939										Prepared: 10/9/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Matrix Spike (A311939-MS1), Source: A3J0748-01											
MBAS, Calculated as LAS, mol wt 340	0.80	0.050	mg/L	1.0	ND	79	80-120			10/09/13	MS1.0 ***Low***
Matrix Spike (A311939-MS2), Source: A3J0790-01											
MBAS, Calculated as LAS, mol wt 340	0.99	0.050	mg/L	1.0	ND	98	80-120			10/09/13	
Matrix Spike Dup (A311939-MSD1), Source: A3J0748-01											
MBAS, Calculated as LAS, mol wt 340	0.83	0.050	mg/L	1.0	ND	82	80-120	4	20	10/09/13	
Matrix Spike Dup (A311939-MSD2), Source: A3J0790-01											
MBAS, Calculated as LAS, mol wt 340	0.99	0.050	mg/L	1.0	ND	98	80-120	0	20	10/09/13	

Metals Quality Control Report

EPA 200.7 - Quality Control

Batch: A312015 Prepared: 10/10/2013

Prep Method: EPA 200.2 Analyst: NRE

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A312015-BLK2)											
Aluminum	ND	0.050	mg/L							10/17/13	
Calcium	ND	0.10	mg/L							10/17/13	
Iron	ND	0.030	mg/L							10/17/13	
Magnesium	ND	0.10	mg/L							10/17/13	
Manganese	ND	0.010	mg/L							10/17/13	
Zinc	ND	0.050	mg/L							10/17/13	
Blank Spike (A312015-BS2)											
Aluminum	0.20	0.050	mg/L	0.20		100	85-115			10/17/13	
Calcium	10	0.10	mg/L	10		101	85-115			10/17/13	
Iron	2.0	0.030	mg/L	2.0		101	85-115			10/17/13	
Magnesium	9.9	0.10	mg/L	10		99	85-115			10/17/13	
Manganese	0.20	0.010	mg/L	0.20		100	85-115			10/17/13	
Zinc	0.20	0.050	mg/L	0.20		102	85-115			10/17/13	
Blank Spike Dup (A312015-BSD2)											
Aluminum	0.21	0.050	mg/L	0.20		103	85-115	3	20	10/17/13	
Calcium	10	0.10	mg/L	10		101	85-115	0	20	10/17/13	
Iron	2.0	0.030	mg/L	2.0		101	85-115	0	20	10/17/13	
Magnesium	9.9	0.10	mg/L	10		99	85-115	0	20	10/17/13	
Manganese	0.20	0.010	mg/L	0.20		100	85-115	0	20	10/17/13	
Zinc	0.20	0.050	mg/L	0.20		102	85-115	0	20	10/17/13	
Matrix Spike (A312015-MS3), Source: A3J0790-01											
Aluminum	0.41	0.050	mg/L	0.20	0.15	130	70-130			10/17/13	
Calcium	190	0.10	mg/L	10	180	109	70-130			10/17/13	
Iron	3.9	0.030	mg/L	2.0	1.8	104	70-130			10/17/13	
Magnesium	120	0.10	mg/L	10	110	104	70-130			10/17/13	
Manganese	0.99	0.010	mg/L	0.20	0.79	98	70-130			10/17/13	
Zinc	0.21	0.050	mg/L	0.20	ND	106	70-130			10/17/13	
Matrix Spike (A312015-MS4), Source: A3J0794-07											
Aluminum	0.20	0.050	mg/L	0.20	ND	101	70-130			10/17/13	
Calcium	150	0.10	mg/L	10	140	110	70-130			10/17/13	
Iron	2.0	0.030	mg/L	2.0	ND	101	70-130			10/17/13	
Magnesium	27	0.10	mg/L	10	17	98	70-130			10/17/13	
Manganese	0.20	0.010	mg/L	0.20	ND	99	70-130			10/17/13	
Zinc	0.20	0.050	mg/L	0.20	ND	98	70-130			10/17/13	
Matrix Spike Dup (A312015-MSD3), Source: A3J0790-01											
Aluminum	0.42	0.050	mg/L	0.20	0.15	133	70-130	1	20	10/17/13	MS1.1 ***High***
Calcium	190	0.10	mg/L	10	180	71	70-130	2	20	10/17/13	
Iron	3.8	0.030	mg/L	2.0	1.8	99	70-130	3	20	10/17/13	
Magnesium	120	0.10	mg/L	10	110	82	70-130	2	20	10/17/13	
Manganese	0.97	0.010	mg/L	0.20	0.79	89	70-130	2	20	10/17/13	
Zinc	0.21	0.050	mg/L	0.20	ND	104	70-130	2	20	10/17/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A312015										Prepared: 10/10/2013	
Prep Method: EPA 200.2										Analyst: NRE	
Matrix Spike Dup (A312015-MSD4), Source: A3J0794-07											
Aluminum	0.20	0.050	mg/L	0.20	ND	99	70-130	3	20	10/17/13	
Calcium	150	0.10	mg/L	10	140	106	70-130	0	20	10/17/13	
Iron	2.0	0.030	mg/L	2.0	ND	101	70-130	1	20	10/17/13	
Magnesium	27	0.10	mg/L	10	17	98	70-130	0	20	10/17/13	
Manganese	0.20	0.010	mg/L	0.20	ND	100	70-130	0	20	10/17/13	
Zinc	0.20	0.050	mg/L	0.20	ND	98	70-130	0	20	10/17/13	
EPA 200.7 - Quality Control											
Batch: A312350										Prepared: 10/17/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Blank (A312350-BLK2)											
Barium - Dissolved (1)	ND	0.050	mg/L							10/18/13	
Boron - Dissolved (1)	ND	0.10	mg/L							10/18/13	
Calcium - Dissolved (1)	ND	0.10	mg/L							10/18/13	
Iron - Dissolved (1)	ND	0.030	mg/L							10/18/13	
Magnesium - Dissolved (1)	ND	0.10	mg/L							10/18/13	
Manganese - Dissolved (1)	ND	0.010	mg/L							10/18/13	
Potassium - Dissolved (1)	ND	2.0	mg/L							10/18/13	
Silica (SiO2) - Dissolved (1)	ND	0.20	mg/L							10/18/13	
Sodium - Dissolved (1)	ND	1.0	mg/L							10/18/13	
Blank Spike (A312350-BS2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		100	85-115			10/18/13	
Boron - Dissolved (1)	0.59	0.10	mg/L	0.60		99	85-115			10/18/13	
Calcium - Dissolved (1)	9.9	0.10	mg/L	10		99	85-115			10/18/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		101	85-115			10/18/13	
Magnesium - Dissolved (1)	9.8	0.10	mg/L	10		98	85-115			10/18/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20		98	85-115			10/18/13	
Potassium - Dissolved (1)	9.9	2.0	mg/L	10		99	85-115			10/18/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		104	85-115			10/18/13	
Sodium - Dissolved (1)	10	1.0	mg/L	10		101	85-115			10/18/13	
Blank Spike Dup (A312350-BSD2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		100	85-115	1	20	10/18/13	
Boron - Dissolved (1)	0.60	0.10	mg/L	0.60		100	85-115	1	20	10/18/13	
Calcium - Dissolved (1)	9.9	0.10	mg/L	10		99	85-115	0	20	10/18/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		101	85-115	0	20	10/18/13	
Magnesium - Dissolved (1)	9.8	0.10	mg/L	10		98	85-115	0	20	10/18/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20		98	85-115	0	20	10/18/13	
Potassium - Dissolved (1)	9.8	2.0	mg/L	10		98	85-115	1	20	10/18/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		104	85-115	1	20	10/18/13	
Sodium - Dissolved (1)	10	1.0	mg/L	10		100	85-115	1	20	10/18/13	
Matrix Spike (A312350-MS3), Source: A3J0909-02											
Barium - Dissolved (1)	0.61	0.050	mg/L	0.20	0.44	87	70-130			10/18/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A312350										Prepared: 10/17/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Matrix Spike (A312350-MS3), Source: A3J0909-02											
Boron - Dissolved (1)	0.62	0.10	mg/L	0.60	ND	103	70-130			10/18/13	
Calcium - Dissolved (1)	74	0.10	mg/L	10	66	75	70-130			10/18/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0	ND	99	70-130			10/18/13	
Magnesium - Dissolved (1)	36	0.10	mg/L	10	27	89	70-130			10/18/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20	ND	96	70-130			10/18/13	
Potassium - Dissolved (1)	13	2.0	mg/L	10	3.8	95	70-130			10/18/13	
Silica (SiO2) - Dissolved (1)	57	0.20	mg/L	2.1	57	15	70-130			10/18/13	MS1.2 ***Low***
Sodium - Dissolved (1)	49	1.0	mg/L	10	40	94	70-130			10/18/13	
Matrix Spike (A312350-MS4), Source: A3J1148-01											
Barium - Dissolved (1)	0.23	0.050	mg/L	0.20	ND	96	70-130			10/18/13	
Boron - Dissolved (1)	0.62	0.10	mg/L	0.60	ND	104	70-130			10/18/13	
Calcium - Dissolved (1)	73	0.10	mg/L	10	65	76	70-130			10/18/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0	ND	98	70-130			10/18/13	
Magnesium - Dissolved (1)	20	0.10	mg/L	10	10	93	70-130			10/18/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20	ND	95	70-130			10/18/13	
Potassium - Dissolved (1)	13	2.0	mg/L	10	3.3	94	70-130			10/18/13	
Silica (SiO2) - Dissolved (1)	37	0.20	mg/L	2.1	35	68	70-130			10/18/13	MS1.2 ***Low***
Sodium - Dissolved (1)	54	1.0	mg/L	10	45	88	70-130			10/18/13	
Matrix Spike Dup (A312350-MSD3), Source: A3J0909-02											
Barium - Dissolved (1)	0.63	0.050	mg/L	0.20	0.44	95	70-130	2	20	10/18/13	
Boron - Dissolved (1)	0.61	0.10	mg/L	0.60	ND	102	70-130	1	20	10/18/13	
Calcium - Dissolved (1)	75	0.10	mg/L	10	66	86	70-130	2	20	10/18/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0	ND	98	70-130	1	20	10/18/13	
Magnesium - Dissolved (1)	36	0.10	mg/L	10	27	95	70-130	1	20	10/18/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20	ND	95	70-130	1	20	10/18/13	
Potassium - Dissolved (1)	13	2.0	mg/L	10	3.8	96	70-130	1	20	10/18/13	
Silica (SiO2) - Dissolved (1)	59	0.20	mg/L	2.1	57	75	70-130	2	20	10/18/13	
Sodium - Dissolved (1)	49	1.0	mg/L	10	40	95	70-130	0	20	10/18/13	
Matrix Spike Dup (A312350-MSD4), Source: A3J1148-01											
Barium - Dissolved (1)	0.23	0.050	mg/L	0.20	ND	99	70-130	3	20	10/18/13	
Boron - Dissolved (1)	0.64	0.10	mg/L	0.60	ND	107	70-130	3	20	10/18/13	
Calcium - Dissolved (1)	75	0.10	mg/L	10	65	100	70-130	3	20	10/18/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0	ND	100	70-130	2	20	10/18/13	
Magnesium - Dissolved (1)	20	0.10	mg/L	10	10	97	70-130	2	20	10/18/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20	ND	97	70-130	2	20	10/18/13	
Potassium - Dissolved (1)	13	2.0	mg/L	10	3.3	97	70-130	3	20	10/18/13	
Silica (SiO2) - Dissolved (1)	38	0.20	mg/L	2.1	35	123	70-130	3	20	10/18/13	
Sodium - Dissolved (1)	55	1.0	mg/L	10	45	101	70-130	2	20	10/18/13	
EPA 200.8 - Quality Control											
Batch: A312015										Prepared: 10/10/2013	
Prep Method: EPA 200.2										Analyst: MAS	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A312015										Prepared: 10/10/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Blank (A312015-BLK1)											
Arsenic	ND	2.0	ug/L							10/18/13	
Copper	ND	5.0	ug/L							10/18/13	
Blank Spike (A312015-BS1)											
Arsenic	200	2.0	ug/L	200		100	85-115			10/18/13	
Copper	200	5.0	ug/L	200		98	85-115			10/18/13	
Blank Spike Dup (A312015-BSD1)											
Arsenic	200	2.0	ug/L	200		100	85-115	0	20	10/18/13	
Copper	200	5.0	ug/L	200		98	85-115	0	20	10/18/13	
Matrix Spike (A312015-MS1), Source: A3J0790-01											
Arsenic	200	2.0	ug/L	200	ND	99	70-130			10/18/13	
Copper	180	5.0	ug/L	200	ND	89	70-130			10/18/13	
Matrix Spike (A312015-MS2), Source: A3J0794-07											
Arsenic	200	2.0	ug/L	200	ND	101	70-130			10/18/13	
Copper	180	5.0	ug/L	200	ND	91	70-130			10/18/13	
Matrix Spike Dup (A312015-MSD1), Source: A3J0790-01											
Arsenic	190	2.0	ug/L	200	ND	97	70-130	2	20	10/18/13	
Copper	180	5.0	ug/L	200	ND	87	70-130	3	20	10/18/13	
Matrix Spike Dup (A312015-MSD2), Source: A3J0794-07											
Arsenic	210	2.0	ug/L	200	ND	102	70-130	2	20	10/18/13	
Copper	190	5.0	ug/L	200	ND	95	70-130	4	20	10/18/13	
EPA 200.8 - Quality Control											
Batch: A312350										Prepared: 10/17/2013	
Prep Method: Filtration - Metals										Analyst: MAS	
Blank (A312350-BLK1)											
Strontium - Dissolved (1)	ND	1.0	ug/L							10/21/13	
Blank Spike (A312350-BS1)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		102	85-115			10/21/13	
Blank Spike Dup (A312350-BSD1)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		102	85-115	1	20	10/21/13	
Matrix Spike (A312350-MS1), Source: A3J0909-02											
Strontium - Dissolved (1)	1000	1.0	ug/L	200	850	89	70-130			10/21/13	
Matrix Spike (A312350-MS2), Source: A3J1148-01											
Strontium - Dissolved (1)	730	1.0	ug/L	200	530	100	70-130			10/21/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A312350										Prepared: 10/17/2013	
Prep Method: Filtration - Metals										Analyst: MAS	
Matrix Spike Dup (A312350-MSD1), Source: A3J0909-02											
Strontium - Dissolved (1)	1000	1.0	ug/L	200	850	91	70-130	0	20	10/21/13	
Matrix Spike Dup (A312350-MSD2), Source: A3J1148-01											
Strontium - Dissolved (1)	740	1.0	ug/L	200	530	105	70-130	1	20	10/21/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A312133										Prepared: 10/14/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A312133-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							10/16/13	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							10/16/13	
Surrogate: TCMX	*1.3*			*1.5*		*85*	*70-130*			10/16/13	
Blank Spike (A312133-BS1)											
Dibromochloropropane (DBCP)	0.21	0.010	ug/L	0.20		103	70-130			10/16/13	
Ethylene Dibromide (EDB)	0.37	0.020	ug/L	0.40		93	70-130			10/16/13	
Surrogate: TCMX	*1.2*			*1.5*		*81*	*70-130*			10/16/13	
Blank Spike Dup (A312133-BSD1)											
Dibromochloropropane (DBCP)	0.20	0.010	ug/L	0.20		100	70-130	3	20	10/16/13	
Ethylene Dibromide (EDB)	0.37	0.020	ug/L	0.40		92	70-130	1	20	10/16/13	
Surrogate: TCMX	*1.1*			*1.5*		*75*	*70-130*			10/16/13	
Matrix Spike (A312133-MS1), Source: A3J1076-01											
Dibromochloropropane (DBCP)	0.20	0.010	ug/L	0.20	ND	99	65-135			10/16/13	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.20	ND	104	65-135			10/16/13	
Surrogate: TCMX	*1.3*			*1.5*		*85*	*70-130*			10/16/13	
Matrix Spike Dup (A312133-MSD1), Source: A3J1076-01											
Dibromochloropropane (DBCP)	0.20	0.010	ug/L	0.20	ND	100	65-135	1	20	10/16/13	
Ethylene Dibromide (EDB)	0.20	0.020	ug/L	0.20	ND	101	65-135	3	20	10/16/13	
Surrogate: TCMX	*1.2*			*1.5*		*81*	*70-130*			10/16/13	
EPA 505 - Quality Control											
Batch: A312133										Prepared: 10/14/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A312133-BLK1)											
Aldrin	ND	0.075	ug/L							10/17/13	
Chlordane	ND	0.10	ug/L							10/17/13	
Chlorothalonil	ND	5.0	ug/L							10/17/13	
Dieldrin	ND	0.020	ug/L							10/17/13	
Endrin	ND	0.10	ug/L							10/17/13	
Heptachlor	ND	0.010	ug/L							10/17/13	
Heptachlor Epoxide	ND	0.010	ug/L							10/17/13	
Hexachlorobenzene	ND	0.50	ug/L							10/17/13	
Hexachlorocyclopentadiene	ND	1.0	ug/L							10/17/13	
Lindane	ND	0.20	ug/L							10/17/13	
Methoxychlor	ND	10	ug/L							10/17/13	
PCB Aroclor Screen	ND	0.50	ug/L							10/17/13	
Toxaphene	ND	1.0	ug/L							10/17/13	
Trifluralin	ND	1.0	ug/L							10/17/13	
Surrogate: TCMX	*1.5*			*1.5*		*98*	*70-130*			10/17/13	
Blank Spike (A312133-BS1)											

Organics Quality Control Report

EPA 505 - Quality Control

Batch: A312133 Prepared: 10/14/2013

Prep Method: EPA 505 Analyst: GAK

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A312133-BS1)											
Aldrin	0.92	0.075	ug/L	1.0		92	70-130			10/16/13	
Chlorothalonil	10	5.0	ug/L	10		103	70-130			10/16/13	
Dieldrin	0.42	0.020	ug/L	0.40		105	70-130			10/16/13	
Endrin	0.99	0.10	ug/L	1.0		99	70-130			10/16/13	
Heptachlor	0.19	0.010	ug/L	0.20		93	70-130			10/16/13	
Heptachlor Epoxide	0.21	0.010	ug/L	0.20		103	70-130			10/16/13	
Hexachlorobenzene	1.9	0.50	ug/L	2.0		97	70-130			10/16/13	
Hexachlorocyclopentadiene	1.6	1.0	ug/L	2.0		78	70-130			10/16/13	
Lindane	1.0	0.20	ug/L	1.0		103	70-130			10/16/13	
Methoxychlor	1.9	10	ug/L	2.0		97	70-130			10/16/13	
Trifluralin	1.9	1.0	ug/L	2.0		97	70-130			10/16/13	
Surrogate: TCMX	*1.2*			*1.5*		*81*	*70-130*			10/16/13	
Blank Spike Dup (A312133-BSD1)											
Aldrin	0.88	0.075	ug/L	1.0		88	70-130	4	20	10/16/13	
Chlorothalonil	10	5.0	ug/L	10		100	70-130	3	20	10/16/13	
Dieldrin	0.40	0.020	ug/L	0.40		100	70-130	5	20	10/16/13	
Endrin	0.93	0.10	ug/L	1.0		93	70-130	6	20	10/16/13	
Heptachlor	0.19	0.010	ug/L	0.20		93	70-130	0	20	10/16/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20		98	70-130	5	20	10/16/13	
Hexachlorobenzene	1.9	0.50	ug/L	2.0		93	70-130	5	20	10/16/13	
Hexachlorocyclopentadiene	1.5	1.0	ug/L	2.0		73	70-130	6	20	10/16/13	
Lindane	0.98	0.20	ug/L	1.0		98	70-130	4	20	10/16/13	
Methoxychlor	1.8	10	ug/L	2.0		92	70-130	5	20	10/16/13	
Trifluralin	1.9	1.0	ug/L	2.0		96	70-130	2	20	10/16/13	
Surrogate: TCMX	*1.1*			*1.5*		*75*	*70-130*			10/16/13	
Matrix Spike (A312133-MS1), Source: A3J1076-01											
Aldrin	1.0	0.075	ug/L	1.0	ND	102	65-135			10/16/13	
Chlorothalonil	10	5.0	ug/L	10	ND	100	65-135			10/16/13	
Dieldrin	0.41	0.020	ug/L	0.40	ND	101	65-135			10/16/13	
Endrin	0.22	0.10	ug/L	0.20	ND	107	65-135			10/16/13	
Heptachlor	0.19	0.010	ug/L	0.20	ND	96	65-135			10/16/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20	ND	98	65-135			10/16/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0	ND	102	65-135			10/16/13	
Hexachlorocyclopentadiene	1.7	1.0	ug/L	2.0	ND	83	65-135			10/16/13	
Lindane	0.42	0.20	ug/L	0.40	ND	104	65-135			10/16/13	
Methoxychlor	1.9	10	ug/L	2.0	ND	93	65-135			10/16/13	
Trifluralin	2.1	1.0	ug/L	2.0	ND	102	65-135			10/16/13	
Surrogate: TCMX	*1.3*			*1.5*		*85*	*70-130*			10/16/13	
Matrix Spike Dup (A312133-MSD1), Source: A3J1076-01											
Aldrin	1.0	0.075	ug/L	1.0	ND	100	65-135	1	20	10/16/13	
Chlorothalonil	10	5.0	ug/L	10	ND	100	65-135	1	20	10/16/13	
Dieldrin	0.41	0.020	ug/L	0.41	ND	101	65-135	1	20	10/16/13	
Endrin	0.20	0.10	ug/L	0.20	ND	101	65-135	6	20	10/16/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 505 - Quality Control											
Batch: A312133										Prepared: 10/14/2013	
Prep Method: EPA 505										Analyst: GAK	
Matrix Spike Dup (A312133-MSD1), Source: A3J1076-01											
Heptachlor	0.20	0.010	ug/L	0.20	ND	96	65-135	1	20	10/16/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20	ND	98	65-135	0	20	10/16/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0	ND	101	65-135	1	20	10/16/13	
Hexachlorocyclopentadiene	1.6	1.0	ug/L	2.0	ND	77	65-135	6	20	10/16/13	
Lindane	0.43	0.20	ug/L	0.41	ND	105	65-135	1	20	10/16/13	
Methoxychlor	2.0	10	ug/L	2.0	ND	101	65-135	8	20	10/16/13	
Trifluralin	2.0	1.0	ug/L	2.0	ND	101	65-135	1	20	10/16/13	
Surrogate: TCMX	*1.2*			*1.5*		*81*	*70-130*			10/16/13	
EPA 515.3 - Quality Control											
Batch: A311994										Prepared: 10/9/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A311994-BLK1)											
2,4,5-T	ND	1.0	ug/L							10/11/13	
2,4,5-TP (Silvex)	ND	1.0	ug/L							10/11/13	
2,4-D	ND	10	ug/L							10/11/13	
Bentazon	ND	2.0	ug/L							10/11/13	
Dalapon	ND	10	ug/L							10/11/13	
Dicamba	ND	1.5	ug/L							10/11/13	
Dinoseb	ND	2.0	ug/L							10/11/13	
Pentachlorophenol	ND	0.20	ug/L							10/11/13	
Picloram	ND	1.0	ug/L							10/11/13	
Surrogate: DCPAA	*58*			*58*		*99*	*70-130*			10/11/13	
Blank Spike (A311994-BS1)											
2,4,5-T	4.8	1.0	ug/L	4.0		120	70-130			10/11/13	
2,4,5-TP (Silvex)	4.8	1.0	ug/L	4.0		120	70-130			10/11/13	
2,4-D	49	10	ug/L	40		122	70-130			10/11/13	
Bentazon	8.8	2.0	ug/L	8.0		111	70-130			10/11/13	
Dalapon	43	10	ug/L	40		108	70-130			10/11/13	
Dicamba	7.4	1.5	ug/L	6.0		122	70-130			10/11/13	
Dinoseb	9.6	2.0	ug/L	8.0		120	70-130			10/11/13	
Pentachlorophenol	1.0	0.20	ug/L	0.80		127	70-130			10/11/13	
Picloram	4.9	1.0	ug/L	4.0		123	70-130			10/11/13	
Surrogate: DCPAA	*60*			*58*		*104*	*70-130*			10/11/13	
Blank Spike Dup (A311994-BSD1)											
2,4,5-T	4.7	1.0	ug/L	4.0		118	70-130	1	20	10/11/13	
2,4,5-TP (Silvex)	4.7	1.0	ug/L	4.0		119	70-130	1	20	10/11/13	
2,4-D	49	10	ug/L	40		121	70-130	0	20	10/11/13	
Bentazon	8.5	2.0	ug/L	8.0		106	70-130	4	20	10/11/13	
Dalapon	43	10	ug/L	40		107	70-130	1	20	10/11/13	
Dicamba	7.2	1.5	ug/L	6.0		121	70-130	2	20	10/11/13	
Dinoseb	9.2	2.0	ug/L	8.0		115	70-130	4	20	10/11/13	
Pentachlorophenol	0.99	0.20	ug/L	0.80		124	70-130	2	20	10/11/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A311994										Prepared: 10/9/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A311994-BSD1)											
Picloram	4.9	1.0	ug/L	4.0		123	70-130	0	20	10/11/13	
Surrogate: DCPAA	*59*			*58*		*102*	*70-130*			10/11/13	
Matrix Spike (A311994-MS1), Source: A3J0477-01											
2,4,5-T	4.9	1.0	ug/L	4.0	ND	122	70-130			10/11/13	
2,4,5-TP (Silvex)	4.9	1.0	ug/L	4.0	ND	122	70-130			10/11/13	
2,4-D	50	10	ug/L	40	ND	126	70-130			10/11/13	
Bentazon	8.9	2.0	ug/L	8.0	ND	111	70-130			10/11/13	
Dalapon	43	10	ug/L	40	ND	108	70-130			10/11/13	
Dicamba	7.4	1.5	ug/L	6.0	ND	123	70-130			10/11/13	
Dinoseb	9.4	2.0	ug/L	8.0	ND	118	70-130			10/11/13	
Pentachlorophenol	1.0	0.20	ug/L	0.80	ND	125	70-130			10/11/13	
Picloram	5.0	1.0	ug/L	4.0	ND	126	70-130			10/11/13	
Surrogate: DCPAA	*60*			*58*		*103*	*70-130*			10/11/13	
Matrix Spike Dup (A311994-MSD1), Source: A3J0477-01											
2,4,5-T	4.6	1.0	ug/L	4.0	ND	116	70-130	5	20	10/11/13	
2,4,5-TP (Silvex)	4.7	1.0	ug/L	4.0	ND	116	70-130	5	20	10/11/13	
2,4-D	47	10	ug/L	40	ND	118	70-130	6	20	10/11/13	
Bentazon	8.5	2.0	ug/L	8.0	ND	107	70-130	4	20	10/11/13	
Dalapon	41	10	ug/L	40	ND	103	70-130	5	20	10/11/13	
Dicamba	7.0	1.5	ug/L	6.0	ND	117	70-130	5	20	10/11/13	
Dinoseb	9.1	2.0	ug/L	8.0	ND	114	70-130	3	20	10/11/13	
Pentachlorophenol	0.96	0.20	ug/L	0.80	ND	120	70-130	4	20	10/11/13	
Picloram	4.7	1.0	ug/L	4.0	ND	117	70-130	7	20	10/11/13	
Surrogate: DCPAA	*58*			*58*		*100*	*70-130*			10/11/13	
EPA 524.2 - Quality Control											
Batch: A312121										Prepared: 10/14/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A312121-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							10/14/13	
1,1,1-Trichloroethane	ND	0.50	ug/L							10/14/13	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							10/14/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							10/14/13	
1,1,2-Trichloroethane	ND	0.50	ug/L							10/14/13	
1,1-Dichloroethane	ND	0.50	ug/L							10/14/13	
1,1-Dichloroethene	ND	0.50	ug/L							10/14/13	
1,1-Dichloropropene	ND	0.50	ug/L							10/14/13	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							10/14/13	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							10/14/13	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							10/14/13	
1,2-Dichlorobenzene	ND	0.50	ug/L							10/14/13	
1,2-Dichloroethane	ND	0.50	ug/L							10/14/13	
1,2-Dichloropropane	ND	0.50	ug/L							10/14/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A312121 Prepared: 10/14/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A312121-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	ug/L							10/14/13	
1,3-Dichlorobenzene	ND	0.50	ug/L							10/14/13	
1,3-Dichloropropane	ND	0.50	ug/L							10/14/13	
1,4-Dichlorobenzene	ND	0.50	ug/L							10/14/13	
2,2-Dichloropropane	ND	0.50	ug/L							10/14/13	
2-Butanone	ND	5.0	ug/L							10/14/13	
2-Chlorotoluene	ND	0.50	ug/L							10/14/13	
2-Hexanone	ND	10	ug/L							10/14/13	
4-Chlorotoluene	ND	0.50	ug/L							10/14/13	
4-Methyl-2-pentanone	ND	5.0	ug/L							10/14/13	
Acetone	ND	10	ug/L							10/14/13	
Benzene	ND	0.50	ug/L							10/14/13	
Bromobenzene	ND	0.50	ug/L							10/14/13	
Bromochloromethane	ND	0.50	ug/L							10/14/13	
Bromodichloromethane	ND	0.50	ug/L							10/14/13	
Bromoform	ND	0.50	ug/L							10/14/13	
Bromomethane	ND	0.50	ug/L							10/14/13	
Carbon Tetrachloride	ND	0.50	ug/L							10/14/13	
Chlorobenzene	ND	0.50	ug/L							10/14/13	
Chloroethane	ND	0.50	ug/L							10/14/13	
Chloroform	ND	0.50	ug/L							10/14/13	
Chloromethane	ND	0.50	ug/L							10/14/13	
cis-1,2-Dichloroethene	ND	0.50	ug/L							10/14/13	
cis-1,3-Dichloropropene	ND	0.50	ug/L							10/14/13	
Dibromochloromethane	ND	0.50	ug/L							10/14/13	
Dibromomethane	ND	0.50	ug/L							10/14/13	
Dichlorodifluoromethane	ND	0.50	ug/L							10/14/13	
Dichloromethane	ND	0.50	ug/L							10/14/13	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							10/14/13	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							10/14/13	
Ethylbenzene	ND	0.50	ug/L							10/14/13	
Hexachlorobutadiene	ND	0.50	ug/L							10/14/13	
Isopropylbenzene	ND	0.50	ug/L							10/14/13	
m,p-Xylenes	ND	0.50	ug/L							10/14/13	
Methyl-t-butyl ether	ND	0.50	ug/L							10/14/13	
Naphthalene	ND	0.50	ug/L							10/14/13	
n-Butylbenzene	ND	0.50	ug/L							10/14/13	
n-Propylbenzene	ND	0.50	ug/L							10/14/13	
o-Xylene	ND	0.50	ug/L							10/14/13	
p-Isopropyltoluene	ND	0.50	ug/L							10/14/13	
sec-Butylbenzene	ND	0.50	ug/L							10/14/13	
Styrene	ND	0.50	ug/L							10/14/13	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							10/14/13	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							10/14/13	
tert-Butylbenzene	ND	0.50	ug/L							10/14/13	
Tetrachloroethene (PCE)	ND	0.50	ug/L							10/14/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A312121 Prepared: 10/14/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A312121-BLK1)											
Toluene	ND	0.50	ug/L							10/14/13	
trans-1,2-Dichloroethene	ND	0.50	ug/L							10/14/13	
trans-1,3-Dichloropropene	ND	0.50	ug/L							10/14/13	
Trichloroethene (TCE)	ND	0.50	ug/L							10/14/13	
Trichlorofluoromethane	ND	5.0	ug/L							10/14/13	
Vinyl Chloride	ND	0.50	ug/L							10/14/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.6*			*5.0*		*92*	*70-130*			10/14/13	
Surrogate: Bromofluorobenzene	*4.9*			*5.0*		*97*	*70-130*			10/14/13	
Blank Spike (A312121-BS1)											
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		112	70-130			10/14/13	
1,1,1-Trichloroethane	11	0.50	ug/L	10		111	70-130			10/14/13	
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		107	70-130			10/14/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.9	10	ug/L	10		99	70-130			10/14/13	
1,1,2-Trichloroethane	10	0.50	ug/L	10		103	70-130			10/14/13	
1,1-Dichloroethane	10	0.50	ug/L	10		104	70-130			10/14/13	
1,1-Dichloroethene	11	0.50	ug/L	10		111	70-130			10/14/13	
1,1-Dichloropropene	11	0.50	ug/L	10		107	70-130			10/14/13	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		104	70-130			10/14/13	
1,2,4-Trichlorobenzene	10	0.50	ug/L	10		105	70-130			10/14/13	
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		104	70-130			10/14/13	
1,2-Dichlorobenzene	10	0.50	ug/L	10		102	70-130			10/14/13	
1,2-Dichloroethane	10	0.50	ug/L	10		104	70-130			10/14/13	
1,2-Dichloropropane	11	0.50	ug/L	10		106	70-130			10/14/13	
1,3,5-Trimethylbenzene	10	0.50	ug/L	10		103	70-130			10/14/13	
1,3-Dichlorobenzene	11	0.50	ug/L	10		105	70-130			10/14/13	
1,3-Dichloropropane	10	0.50	ug/L	10		101	70-130			10/14/13	
1,4-Dichlorobenzene	10	0.50	ug/L	10		103	70-130			10/14/13	
2,2-Dichloropropane	13	0.50	ug/L	10		126	70-130			10/14/13	
2-Butanone	10	5.0	ug/L	10		104	70-130			10/14/13	
2-Chlorotoluene	10	0.50	ug/L	10		103	70-130			10/14/13	
2-Hexanone	11	10	ug/L	10		109	70-130			10/14/13	
4-Chlorotoluene	10	0.50	ug/L	10		103	70-130			10/14/13	
4-Methyl-2-pentanone	11	5.0	ug/L	10		111	70-130			10/14/13	
Acetone	11	10	ug/L	10		113	70-130			10/14/13	
Benzene	9.8	0.50	ug/L	10		98	70-130			10/14/13	
Bromobenzene	11	0.50	ug/L	10		106	70-130			10/14/13	
Bromochloromethane	11	0.50	ug/L	10		110	70-130			10/14/13	
Bromodichloromethane	11	0.50	ug/L	10		111	70-130			10/14/13	
Bromoform	10	0.50	ug/L	10		102	70-130			10/14/13	
Bromomethane	7.9	0.50	ug/L	10		79	70-130			10/14/13	
Carbon Tetrachloride	11	0.50	ug/L	10		108	70-130			10/14/13	
Chlorobenzene	9.9	0.50	ug/L	10		99	70-130			10/14/13	
Chloroethane	12	0.50	ug/L	10		122	70-130			10/14/13	
Chloroform	11	0.50	ug/L	10		109	70-130			10/14/13	
Chloromethane	8.9	0.50	ug/L	10		89	70-130			10/14/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A312121 Prepared: 10/14/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A312121-BS1)											
cis-1,2-Dichloroethene	10	0.50	ug/L	10		104	70-130			10/14/13	
cis-1,3-Dichloropropene	11	0.50	ug/L	10		112	70-130			10/14/13	
Dibromochloromethane	11	0.50	ug/L	10		110	70-130			10/14/13	
Dibromomethane	11	0.50	ug/L	10		105	70-130			10/14/13	
Dichlorodifluoromethane	7.5	0.50	ug/L	10		75	70-130			10/14/13	
Dichloromethane	10	0.50	ug/L	10		100	70-130			10/14/13	
Di-isopropyl ether (DIPE)	12	3.0	ug/L	10		119	70-130			10/14/13	
Ethyl tert-Butyl Ether (ETBE)	12	0.50	ug/L	10		120	70-130			10/14/13	
Ethylbenzene	9.7	0.50	ug/L	10		97	70-130			10/14/13	
Hexachlorobutadiene	9.9	0.50	ug/L	10		99	70-130			10/14/13	
Isopropylbenzene	11	0.50	ug/L	10		106	70-130			10/14/13	
m,p-Xylenes	19	0.50	ug/L	20		95	70-130			10/14/13	
Methyl-t-butyl ether	22	0.50	ug/L	20		110	70-130			10/14/13	
Naphthalene	9.8	0.50	ug/L	10		98	70-130			10/14/13	
n-Butylbenzene	10	0.50	ug/L	10		105	70-130			10/14/13	
n-Propylbenzene	11	0.50	ug/L	10		105	70-130			10/14/13	
o-Xylene	9.5	0.50	ug/L	10		95	70-130			10/14/13	
p-Isopropyltoluene	11	0.50	ug/L	10		105	70-130			10/14/13	
sec-Butylbenzene	10	0.50	ug/L	10		103	70-130			10/14/13	
Styrene	12	0.50	ug/L	10		117	70-130			10/14/13	
tert-Amyl Methyl Ether (TAME)	11	3.0	ug/L	10		106	70-130			10/14/13	
tert-Butyl alcohol (TBA)	11	2.0	ug/L	10		107	70-130			10/14/13	
tert-Butylbenzene	9.9	0.50	ug/L	10		99	70-130			10/14/13	
Tetrachloroethene (PCE)	9.8	0.50	ug/L	10		98	70-130			10/14/13	
Toluene	9.8	0.50	ug/L	10		98	70-130			10/14/13	
trans-1,2-Dichloroethene	11	0.50	ug/L	10		113	70-130			10/14/13	
trans-1,3-Dichloropropene	12	0.50	ug/L	10		117	70-130			10/14/13	
Trichloroethene (TCE)	10	0.50	ug/L	10		104	70-130			10/14/13	
Trichlorofluoromethane	11	5.0	ug/L	10		110	70-130			10/14/13	
Vinyl Chloride	9.2	0.50	ug/L	10		92	70-130			10/14/13	
Surrogate: 1,2-Dichlorobenzene-d4	*5.0*			*5.0*		*100*	*70-130*			10/14/13	
Surrogate: Bromofluorobenzene	*5.1*			*5.0*		*102*	*70-130*			10/14/13	
Blank Spike Dup (A312121-BSD1)											
1,1,1,2-Tetrachloroethane	11	0.50	ug/L	10		112	70-130	0	30	10/14/13	
1,1,1-Trichloroethane	11	0.50	ug/L	10		111	70-130	0	30	10/14/13	
1,1,2,2-Tetrachloroethane	11	0.50	ug/L	10		107	70-130	0	30	10/14/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.8	10	ug/L	10		98	70-130	1	30	10/14/13	
1,1,2-Trichloroethane	10	0.50	ug/L	10		100	70-130	4	30	10/14/13	
1,1-Dichloroethane	9.8	0.50	ug/L	10		98	70-130	6	30	10/14/13	
1,1-Dichloroethene	11	0.50	ug/L	10		106	70-130	4	30	10/14/13	
1,1-Dichloropropene	11	0.50	ug/L	10		108	70-130	1	30	10/14/13	
1,2,3-Trichlorobenzene	11	0.50	ug/L	10		106	70-130	3	30	10/14/13	
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		107	70-130	2	30	10/14/13	
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		105	70-130	1	30	10/14/13	
1,2-Dichlorobenzene	10	0.50	ug/L	10		104	70-130	2	30	10/14/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A312121 Prepared: 10/14/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A312121-BSD1)												
1,2-Dichloroethane	9.8	0.50	ug/L	10		98	70-130	5	30	10/14/13		
1,2-Dichloropropane	10	0.50	ug/L	10		104	70-130	3	30	10/14/13		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		105	70-130	2	30	10/14/13		
1,3-Dichlorobenzene	11	0.50	ug/L	10		108	70-130	3	30	10/14/13		
1,3-Dichloropropane	9.8	0.50	ug/L	10		98	70-130	3	30	10/14/13		
1,4-Dichlorobenzene	11	0.50	ug/L	10		106	70-130	3	30	10/14/13		
2,2-Dichloropropane	12	0.50	ug/L	10		124	70-130	2	30	10/14/13		
2-Butanone	9.8	5.0	ug/L	10		98	70-130	7	30	10/14/13		
2-Chlorotoluene	10	0.50	ug/L	10		105	70-130	2	30	10/14/13		
2-Hexanone	10	10	ug/L	10		103	70-130	6	30	10/14/13		
4-Chlorotoluene	11	0.50	ug/L	10		105	70-130	2	30	10/14/13		
4-Methyl-2-pentanone	11	5.0	ug/L	10		106	70-130	5	30	10/14/13		
Acetone	10	10	ug/L	10		104	70-130	8	30	10/14/13		
Benzene	9.9	0.50	ug/L	10		99	70-130	1	30	10/14/13		
Bromobenzene	11	0.50	ug/L	10		106	70-130	0	30	10/14/13		
Bromochloromethane	10	0.50	ug/L	10		103	70-130	7	30	10/14/13		
Bromodichloromethane	11	0.50	ug/L	10		107	70-130	4	30	10/14/13		
Bromoform	10	0.50	ug/L	10		101	70-130	1	30	10/14/13		
Bromomethane	7.6	0.50	ug/L	10		76	70-130	4	30	10/14/13		
Carbon Tetrachloride	11	0.50	ug/L	10		109	70-130	0	30	10/14/13		
Chlorobenzene	9.7	0.50	ug/L	10		97	70-130	2	30	10/14/13		
Chloroethane	13	0.50	ug/L	10		132	70-130	8	30	10/14/13	BS	***High***
Chloroform	10	0.50	ug/L	10		104	70-130	4	30	10/14/13		
Chloromethane	9.2	0.50	ug/L	10		92	70-130	4	30	10/14/13		
cis-1,2-Dichloroethene	9.6	0.50	ug/L	10		96	70-130	7	30	10/14/13		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		109	70-130	3	30	10/14/13		
Dibromochloromethane	10	0.50	ug/L	10		103	70-130	7	30	10/14/13		
Dibromomethane	9.8	0.50	ug/L	10		98	70-130	7	30	10/14/13		
Dichlorodifluoromethane	7.8	0.50	ug/L	10		78	70-130	4	30	10/14/13		
Dichloromethane	10	0.50	ug/L	10		100	70-130	1	30	10/14/13		
Di-isopropyl ether (DIPE)	12	3.0	ug/L	10		116	70-130	3	30	10/14/13		
Ethyl tert-Butyl Ether (ETBE)	12	0.50	ug/L	10		118	70-130	2	30	10/14/13		
Ethylbenzene	9.4	0.50	ug/L	10		94	70-130	3	30	10/14/13		
Hexachlorobutadiene	10	0.50	ug/L	10		104	70-130	4	30	10/14/13		
Isopropylbenzene	11	0.50	ug/L	10		106	70-130	1	30	10/14/13		
m,p-Xylenes	19	0.50	ug/L	20		94	70-130	1	30	10/14/13		
Methyl-t-butyl ether	21	0.50	ug/L	20		106	70-130	3	30	10/14/13		
Naphthalene	10	0.50	ug/L	10		100	70-130	1	30	10/14/13		
n-Butylbenzene	11	0.50	ug/L	10		106	70-130	1	30	10/14/13		
n-Propylbenzene	11	0.50	ug/L	10		106	70-130	1	30	10/14/13		
o-Xylene	9.4	0.50	ug/L	10		94	70-130	1	30	10/14/13		
p-Isopropyltoluene	11	0.50	ug/L	10		106	70-130	1	30	10/14/13		
sec-Butylbenzene	11	0.50	ug/L	10		110	70-130	7	30	10/14/13		
Styrene	12	0.50	ug/L	10		118	70-130	1	30	10/14/13		
tert-Amyl Methyl Ether (TAME)	10	3.0	ug/L	10		104	70-130	2	30	10/14/13		
tert-Butyl alcohol (TBA)	10	2.0	ug/L	10		104	70-130	3	30	10/14/13		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A312121										Prepared: 10/14/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike Dup (A312121-BSD1)											
tert-Butylbenzene	10	0.50	ug/L	10		100	70-130	2	30	10/14/13	
Tetrachloroethene (PCE)	9.8	0.50	ug/L	10		98	70-130	0	30	10/14/13	
Toluene	9.5	0.50	ug/L	10		95	70-130	3	30	10/14/13	
trans-1,2-Dichloroethene	11	0.50	ug/L	10		108	70-130	4	30	10/14/13	
trans-1,3-Dichloropropene	11	0.50	ug/L	10		112	70-130	5	30	10/14/13	
Trichloroethene (TCE)	11	0.50	ug/L	10		107	70-130	3	30	10/14/13	
Trichlorofluoromethane	10	5.0	ug/L	10		104	70-130	6	30	10/14/13	
Vinyl Chloride	9.7	0.50	ug/L	10		97	70-130	5	30	10/14/13	
Surrogate: 1,2-Dichlorobenzene-d4	*5.1*			*5.0*		*102*	*70-130*			10/14/13	
Surrogate: Bromofluorobenzene	*5.1*			*5.0*		*102*	*70-130*			10/14/13	
EPA 525.2 - Quality Control											
Batch: A312014										Prepared: 10/10/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank (A312014-BLK1)											
Alachlor	ND	1.0	ug/L							10/11/13	
Atrazine	ND	0.50	ug/L							10/11/13	
Benzo(a)pyrene	ND	0.10	ug/L							10/11/13	
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							10/11/13	
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							10/11/13	
Bromacil	ND	10	ug/L							10/11/13	
Butachlor	ND	0.38	ug/L							10/11/13	
Diazinon	ND	0.25	ug/L							10/11/13	
Dimethoate	ND	10	ug/L							10/11/13	
Metolachlor	ND	0.50	ug/L							10/11/13	
Metribuzin	ND	0.50	ug/L							10/11/13	
Molinate	ND	2.0	ug/L							10/11/13	
Propachlor	ND	0.50	ug/L							10/11/13	
Simazine	ND	1.0	ug/L							10/11/13	
Thiobencarb	ND	1.0	ug/L							10/11/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.3*			*5.0*		*106*	*70-130*			10/11/13	
Blank Spike (A312014-BS1)											
Alachlor	0.53	1.0	ug/L	0.50		108	70-130			10/11/13	
Atrazine	0.51	0.50	ug/L	0.50		103	70-130			10/11/13	
Benzo(a)pyrene	0.11	0.10	ug/L	0.099		107	70-130			10/11/13	
Bis(2-ethylhexyl) adipate	3.3	3.0	ug/L	3.0		110	70-130			10/11/13	
Bis(2-ethylhexyl) phthalate	3.4	3.0	ug/L	3.0		115	70-130			10/11/13	
Bromacil	2.6	10	ug/L	2.0		129	70-130			10/11/13	
Butachlor	1.4	0.38	ug/L	1.2		114	70-130			10/11/13	
Diazinon	0.049	0.25	ug/L	0.050		98	70-130			10/11/13	
Dimethoate	0.56	10	ug/L	0.50		114	70-130			10/11/13	
Metolachlor	2.8	0.50	ug/L	2.5		111	70-130			10/11/13	
Metribuzin	2.8	0.50	ug/L	2.5		113	70-130			10/11/13	
Molinate	2.7	2.0	ug/L	2.5		109	70-130			10/11/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A312014										Prepared: 10/10/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank Spike (A312014-BS1)											
Propachlor	2.7	0.50	ug/L	2.5		108	70-130			10/11/13	
Simazine	0.41	1.0	ug/L	0.35		117	70-130			10/11/13	
Thiobencarb	0.52	1.0	ug/L	0.50		104	70-130			10/11/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.8*			*5.0*		*97*	*70-130*			10/11/13	
Blank Spike Dup (A312014-BSD1)											
Alachlor	0.51	1.0	ug/L	0.49		104	70-130	5	30	10/11/13	
Atrazine	0.49	0.50	ug/L	0.49		99	70-130	4	30	10/11/13	
Benzo(a)pyrene	0.10	0.10	ug/L	0.098		106	70-130	2	30	10/11/13	
Bis(2-ethylhexyl) adipate	3.1	3.0	ug/L	2.9		106	70-130	4	30	10/11/13	
Bis(2-ethylhexyl) phthalate	3.3	3.0	ug/L	2.9		112	70-130	4	30	10/11/13	
Bromacil	2.2	10	ug/L	2.0		110	70-130	17	30	10/11/13	
Butachlor	1.2	0.38	ug/L	1.2		99	70-130	14	30	10/11/13	
Diazinon	0.048	0.25	ug/L	0.049		98	70-130	1	30	10/11/13	
Dimethoate	0.47	10	ug/L	0.49		95	70-130	19	30	10/11/13	
Metolachlor	2.5	0.50	ug/L	2.5		104	70-130	8	30	10/11/13	
Metribuzin	2.5	0.50	ug/L	2.5		100	70-130	13	30	10/11/13	
Molinate	2.6	2.0	ug/L	2.5		105	70-130	5	30	10/11/13	
Propachlor	2.5	0.50	ug/L	2.5		104	70-130	5	30	10/11/13	
Simazine	0.34	1.0	ug/L	0.34		99	70-130	18	30	10/11/13	
Thiobencarb	0.49	1.0	ug/L	0.49		100	70-130	5	30	10/11/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.9*			*4.9*		*100*	*70-130*			10/11/13	
Matrix Spike (A312014-MS1), Source: A3J0858-01											
Alachlor	0.63	1.0	ug/L	0.50	ND	127	70-130			10/11/13	
Atrazine	0.59	0.50	ug/L	0.50	ND	118	70-130			10/11/13	
Benzo(a)pyrene	0.18	0.10	ug/L	0.099	ND	154	70-130			10/11/13	MS1.0 ***High***
Bis(2-ethylhexyl) adipate	3.5	3.0	ug/L	3.0	ND	117	70-130			10/11/13	
Bis(2-ethylhexyl) phthalate	4.3	3.0	ug/L	3.0	ND	133	70-130			10/11/13	MS1.0 ***High***
Bromacil	2.9	10	ug/L	2.0	ND	148	70-130			10/11/13	MS1.0 ***High***
Butachlor	1.6	0.38	ug/L	1.2	ND	130	70-130			10/11/13	
Diazinon	0.053	0.25	ug/L	0.050	ND	106	70-130			10/11/13	
Dimethoate	0.72	10	ug/L	0.50	ND	146	70-130			10/11/13	MS1.0 ***High***
Metolachlor	2.9	0.50	ug/L	2.5	ND	118	70-130			10/11/13	
Metribuzin	2.8	0.50	ug/L	2.5	ND	115	70-130			10/11/13	
Molinate	2.6	2.0	ug/L	2.5	ND	104	70-130			10/11/13	
Propachlor	2.6	0.50	ug/L	2.5	ND	105	70-130			10/11/13	
Simazine	0.45	1.0	ug/L	0.35	ND	129	70-130			10/11/13	
Thiobencarb	0.59	1.0	ug/L	0.50	ND	119	70-130			10/11/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.8*			*5.0*		*97*	*70-130*			10/11/13	
EPA 531.1 - Quality Control											
Batch: A312119										Prepared: 10/12/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A312119-BLK1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A312119										Prepared: 10/12/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A312119-BLK1)											
3-Hydroxycarbofuran	ND	2.0	ug/L							10/12/13	
Aldicarb	ND	2.0	ug/L							10/12/13	
Aldicarb Sulfone	ND	2.0	ug/L							10/12/13	
Aldicarb Sulfoxide	ND	2.0	ug/L							10/12/13	
Carbaryl	ND	2.0	ug/L							10/12/13	
Carbofuran	ND	2.0	ug/L							10/12/13	
Methomyl	ND	2.0	ug/L							10/12/13	
Oxamyl	ND	2.0	ug/L							10/12/13	
Blank Spike (A312119-BS1)											
3-Hydroxycarbofuran	4.6	2.0	ug/L	4.2		110	80-120			10/12/13	
Aldicarb	4.7	2.0	ug/L	4.2		112	80-120			10/12/13	
Aldicarb Sulfone	4.4	2.0	ug/L	4.2		107	80-120			10/12/13	
Aldicarb Sulfoxide	4.3	2.0	ug/L	4.2		104	80-120			10/12/13	
Carbaryl	4.5	2.0	ug/L	4.2		108	80-120			10/12/13	
Carbofuran	4.5	2.0	ug/L	4.2		108	80-120			10/12/13	
Methomyl	4.2	2.0	ug/L	4.2		100	80-120			10/12/13	
Oxamyl	4.6	2.0	ug/L	4.2		110	80-120			10/12/13	
Blank Spike Dup (A312119-BSD1)											
3-Hydroxycarbofuran	4.3	2.0	ug/L	4.2		102	80-120	8	20	10/12/13	
Aldicarb	4.9	2.0	ug/L	4.2		117	80-120	4	20	10/12/13	
Aldicarb Sulfone	4.0	2.0	ug/L	4.2		96	80-120	10	20	10/12/13	
Aldicarb Sulfoxide	4.0	2.0	ug/L	4.2		95	80-120	9	20	10/12/13	
Carbaryl	4.2	2.0	ug/L	4.2		101	80-120	6	20	10/12/13	
Carbofuran	4.1	2.0	ug/L	4.2		99	80-120	9	20	10/12/13	
Methomyl	3.8	2.0	ug/L	4.2		90	80-120	10	20	10/12/13	
Oxamyl	4.2	2.0	ug/L	4.2		102	80-120	8	20	10/12/13	
Matrix Spike (A312119-MS1), Source: A3J0644-01											
3-Hydroxycarbofuran	4.2	2.0	ug/L	4.2	ND	100	65-135			10/12/13	
Aldicarb	4.5	2.0	ug/L	4.2	ND	107	65-135			10/12/13	
Aldicarb Sulfone	4.0	2.0	ug/L	4.2	ND	97	65-135			10/12/13	
Aldicarb Sulfoxide	4.0	2.0	ug/L	4.2	ND	95	65-135			10/12/13	
Carbaryl	4.3	2.0	ug/L	4.2	ND	103	65-135			10/12/13	
Carbofuran	4.2	2.0	ug/L	4.2	ND	101	65-135			10/12/13	
Methomyl	3.7	2.0	ug/L	4.2	ND	90	65-135			10/12/13	
Oxamyl	4.3	2.0	ug/L	4.2	ND	102	65-135			10/12/13	
EPA 547 - Quality Control											
Batch: A312197										Prepared: 10/15/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank (A312197-BLK1)											
Glyphosate	ND	25	ug/L							10/15/13	
Surrogate: AMPA	*110*			*100*		*113*	*70-130*			10/15/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 547 - Quality Control											
Batch: A312197										Prepared: 10/15/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank Spike (A312197-BS1)											
Glyphosate	100	25	ug/L	100		101	70-130			10/15/13	
Surrogate: AMPA	*110*			*100*		*112*	*70-130*			10/15/13	
Blank Spike Dup (A312197-BSD1)											
Glyphosate	100	25	ug/L	100		102	70-130	1	30	10/15/13	
Surrogate: AMPA	*120*			*100*		*115*	*70-130*			10/15/13	
Matrix Spike (A312197-MS1), Source: A3J0722-01											
Glyphosate	100	25	ug/L	100	ND	100	70-130			10/15/13	
Surrogate: AMPA	*110*			*100*		*111*	*70-130*			10/15/13	
Matrix Spike Dup (A312197-MSD1), Source: A3J0722-01											
Glyphosate	100	25	ug/L	100	ND	102	70-130	2	30	10/15/13	
Surrogate: AMPA	*120*			*100*		*115*	*70-130*			10/15/13	
EPA 548.1 - Quality Control											
Batch: A312182										Prepared: 10/14/2013	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A312182-BLK1)											
Endothall	ND	45	ug/L							10/15/13	
Blank Spike (A312182-BS1)											
Endothall	15	45	ug/L	20		74	60-111			10/15/13	
Blank Spike Dup (A312182-BSD1)											
Endothall	14	45	ug/L	20		68	60-111	8	46	10/15/13	
Matrix Spike (A312182-MS1), Source: A3J0722-01											
Endothall	13	45	ug/L	20	ND	66	10-122			10/15/13	
EPA 549.2 - Quality Control											
Batch: A312161										Prepared: 10/14/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A312161-BLK1)											
Diquat	ND	4.0	ug/L							10/16/13	
Blank Spike (A312161-BS1)											
Diquat	3.6	4.0	ug/L	4.0		90	70-130			10/16/13	
Blank Spike Dup (A312161-BSD1)											
Diquat	3.6	4.0	ug/L	4.0		91	70-130	1	30	10/16/13	
Matrix Spike (A312161-MS1), Source: A3J1185-01											
Diquat	3.5	4.0	ug/L	4.0	ND	87	70-130			10/16/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual

EPA 549.2 - Quality Control

Batch: A312161 Prepared: 10/14/2013

Prep Method: EPA 549.2 Analyst: PYA

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of California - ELAP	1180	State of Nevada	CA000792009A
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA
State of California - NELAP	04227CA	State of Oregon	4017
State of Washington	C997	State of Oregon - NWTPH	4021

BSK is not accredited under the NELAC program for the following parameters:

Boron
Silica (SiO2)
Strontium
Threshold Odor

A3J0790

California American Water

Calif3295

10092013

Turnaround: Standard

Due Date: 10/23/2013

Printed: 10/9/2013 5:59:17PM

Page 1 of 1

BSK Associates Engineers & Laboratories

1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

A3J0790
Calif3295

Appendix G 10/09/2010

*Required Fields

Temp: 1.8

Company/Client Name*: RBF Consulting	Report Attention*: Sarp Sekereglu Additional ccs:	Invoice To*: PO#:	Phone*: 831-883-8189 Fax*: 831-883-9961 E-mail*: ssekereglu@rbf.com
Address*: 3180 Imjin Rd. #110	City*: Marina	State*: CA	Zip*: 93933
Project: MPWSP Exploratory Borehole	Project #: 136410		

Regulatory Carbon Copies: CDPH ☐ ☐ Fresno Co; Merced Co ☐ ☐ Tulare Co; Madera Co ☐ ☐ Other: _____

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type: _____

How would you like your completed results sent?* ☑ E-Mail ☐ Fax ☐ Mail

Regulatory Compliance: ☐ EDT to California DPH; System Number*: _____

Sampler Name (Printed/Signature)*: Nathan Reynolds / [signature]

TAT* **Surcharge: ☐ Standard - 10 Business Days; ☐ **Rush: Date Needed _____

☐ Geotracker #: _____

See attached list for analysis

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX
21	MPWSP ML-1 Zone #2 (90-100 ft bgs)	10-8-13	18:25	GW	Field parameters - Temp: 16.8 °C; pH: 7.24; TDS: 422.3 mg/L; Turb: 2.52 NTU

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
[signature] Nathan Reynolds	GEOSCIENCE	10-8-13			
[signature] Shelly Tegge	RBF	10-8-13	9:10 am		
[signature] Nick Robles		10-9-13	953	Payment Received at Delivery: Date: Amount: PIA#:	Check / Cash Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier: _____ Custody Seal: Y / N

Cooling Method: Wet Blue None Chilling Process Begun: Y / N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

SR-FL-0012-05 Analytical Chain of Custody

BSK Associates
Engineers & Laboratories
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

*Required Fields

Temp:

Company/Client Name*:	Report Attention*:	Invoice To*:	Phone*:	Fax*:
California American Water	Travis Peterson Additional cc's: Sarp Sekeroglu, RBF Consulting	Accounts Payable PO#:	(831) 646-3295/(831) 646-3269	(831) 333-1343

E-mail*: susan.jacobson@amwater.com,travis.peterson@amwater.com

Address*:	City*:	State*:	Zip*:
PO Box 951	Monterey	CA	93942-0951

Project: Water Quality Analysis

Project #:

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type: _____

How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail

Sampler Name (Printed/Signature)*:

TAT* **Surcharge
☒ Standard - 10 Business Days
☐ **Rush: Date Needed _____

Regulatory Carbon Copies
CDPH ☐ ☐ Fresno Co
Merced Co ☐ ☐ Tulare Co
Madera Co ☐ ☐ Other: _____

Regulatory Compliance
☐ EDT to California DPH
System Number*: _____
☐ Geotracker #: _____

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	Alkalinity, Hardness, MBAS, Color, Odor, TDS, pH, Turbidity, EC	Mass Balance-Dissolved: Cations and Anions	Dissolved Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na, Sr, silica	Total Metals: Al, As, Cu, Fe, Mn, Zn	Dissolved: Bromide, Chloride, Nitrite, Fluoride, Sulfate, Orthophosphate-P	Dissolved: Ammonia, TKN, Phosphorus	Nitrate+Nitrite as N, Nitrate-NO3,	EPA 524, 504, 505, 515, 525, 531, 547, 548, 549	EXT-Tritium, EXT-Lithium, EXT-Dissolved Iodide, EXT-Dioxin
				water	Seawater salinity levels.	X	X	X	X	X	X	X	X	X
					Lab to filter dissolved metals.									
					Lab to filter Diss. Ammonia, TKN, P									
					Okay to analyze out of hold time.									

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: PIA#:	Check / Cash Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier _____

Cooling Method: Wet Blue None

Custody Seal: Y / N

Chilling Process Begun: Y / N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not in paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

Sample Integrity

BSK Bottles: (Yes) No Page ____ of ____

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	(Yes) No NA	Were correct containers and preservatives received for the tests requested?	(Yes) No NA
If samples were taken today, is there evidence that chilling has begun?	(Yes) No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	(Yes) No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	(Yes) No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No (NA)	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received

"—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1					
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—	1B, 2C, 1d					
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—	2b					
H_2SO_4 (P) Yellow Cap	pH ≤ 2	(Y) N	1A					
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/6321, 8151, 8270	—	—	1A, B, 2C				10-9-13	
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C				NE	
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2A, 2C					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	6V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—	1A					
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

250L AG came with cracked lid

Labeled by: JLL @ 11:33 Labels checked by: CEG @ 1159 RUSH Paged by: ____ @ ____

External

A3J0790

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 24, 2013

Mr. Michael Ng
BSK Analytical Laboratories
1414 Stanislaus St.
Fresno, CA 93706

RE: Project: A3J0790
Pace Project No.: 30105219

Dear Mr. Ng:
Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: A3J0790
Pace Project No.: 30105219

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: A3J0790
Pace Project No.: 30105219

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30105219001	**A3J0790-01**	Water	10/07/13 18:25	10/15/13 09:30

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: A3J0790
Pace Project No.: 30105219

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30105219001	**A3J0790-01**	EPA 906.0	SLA	1	PASI-PA

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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: A3J0790
Pace Project No.: 30105219

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: BSK Analytical Laboratories
Date: October 24, 2013

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: A3J0790
Pace Project No.: 30105219

Sample: A3J0790-01 **Lab ID: 30105219001** Collected: 10/07/13 18:25 Received: 10/15/13 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**-17.9 ± 117 (210)**	pCi/L	10/22/13 11:27	10028-17-8	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: A3J0790
Pace Project No.: 30105219

QC Batch: RADC/17468 Analysis Method: EPA 906.0
QC Batch Method: EPA 906.0 Analysis Description: 906.0 Tritium
Associated Lab Samples: 30105219001

METHOD BLANK: 645156 Matrix: Water
Associated Lab Samples: 30105219001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	2.51 ± 116 (206)	pCi/L	10/22/13 10:25	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: A3J0790
Pace Project No.: 30105219

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BSK Analytical Laboratories
Engineering Laboratories

SUBCONTRACT ORDER

A3J0790

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Radiochem
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600
Fax: (724) 722-5208
Turnaround (Days): Standard
QC Deliverables: I Std III IV

30105219

Sample ID	Samp Desc	Sample Date
A3J0790-01	MPWSP ML-1 Zone #2 (90-100 ft bgs)	10/07/2013 18:25 001

Matrix: Water

Analysis	
EXT-Tritium	250AG0 Non preserved glass container

10/10/13 1531 / UPS

MAC

Sample Condition Upon Receipt

Pace Analytical

Client Name: MAC 10-9-13 BGK BGK

Project # 30105219

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 12 93K 921 13 5851 7325

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used (5) 6 7 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 33 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: MAC 10-9-13

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed MAC / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 10/10/13

Pace Analytical

page 2

Project Number: 30105219

Client Name: BSK

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
Oil	WT	—																						

SCURF Back (C016-4 15May2012).xls

QA Assessment Spreadsheet
PACE Analytical Services

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst:	SLA		
Date:	10/22/2013	Method:	EPA 906.0
Worklist:	17468	SOP:	PGH-R-021
Matrix:	DW	MB Sample ID:	845156

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	2.5100	115.2000	209.9900	97.66000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	10/19/13 0:04	10/19/13 1:06				
Spike I.D.:	10-003	10-003				
Spike Concentration (pCi/L):	2536.685	2536.685				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.100	0.100				
Target Conc. (pCi/L, g, F):	2536.685	2536.685				
1.96 Sigma Uncertainty (Calculated):	69.807	69.806				
Result (pCi/L, g, F):	2160.070	2310.030				
1.96 Sigma Unc.:	223.600	225.700				
% Recovery:	85.15%	91.10%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y
Analyte:	Tritium
Sample I.D.:	LCS17468
Duplicate Sample I.D.	LCSD17468
Sample Result (pCi/L, g, F):	2160.0700
1.96 Sigma Unc.	223.6000
Sample Duplicate Result (pCi/L, g, F):	2310.0300
Duplicate Sample 1.96 Sigma Unc.	225.7000
Either results below MDC?	N
Relative Percent Difference:	6.74%
Assessment:	Pass
% RPD Limit:	25.00%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Sample Matrix Spike Control Assessment

Analyte:	Tritium	Tritium
Sample Collection Date:	9/24/2013	10/8/2013
Sample I.D.	35109631004	35111260001
Sample MS I.D.	35109631004MS	35111260001MS
Sample MSD I.D.		
Spike I.D.:	10-003	10-003
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2546.281	2540.756
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):	0.1000	0.0500
MS Target Conc (pCi/L, g, F):	5092.562	10163.026
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike uncertainty (calculated):	139.740	278.873
MSD Spike uncertainty (calculated):		
Sample Result:	117.890	54.420
Sample 1.96 Sigma Unc.:	126.400	123.600
Sample Matrix Spike Result:	4859.060	9351.770
Sample MS 1.96 Sigma Unc.:	308.600	407.700
Sample Matrix Spike Duplicate Result:		
Sample MSD 1.96 Sigma Unc.:		
MS % Recovery:	93.10%	91.48%
MSD % Recovery:		
MS Assessment:	Pass	Pass
MSD Assessment:		
MS/MSD Upper % Recovery Limits:	125.00%	125.00%
MS/MSD Lower % Recovery Limits:	75.00%	75.00%

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:	
Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result	
Sample Matrix Spike 1.96 Sigma Unc.:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:	
MS/MSD Relative Percent Difference	
MS/ MSD RPD Assessment:	
% RPD Limit:	

Comments:

Pace Analytical
www.pacelabs.com

1638 Roseytown Road

Greensburg, PA 15601

(724)850-5600

SAMPLE ACKNOWLEDGMENT

Samples Submitted By: BSK Analytical Laboratories
Client Project ID: A3J0790
Client PO#:

Pace Project Manager: Jacquelyn Collins
Phone (724)850-5600
jacquelyn.collins@pacelabs.com
Pace Analytical Project ID: 30105219
Samples Received: October 15, 2013 09:30 AM
Estimated Completion: November 05, 2013

CC: Mr. Michael Ng

Customer Sample ID	Pace Analytical Lab ID	Matrix	Date/Time Collected	Method
A3J0790-01	30105219001	Water	10/07/13 18:25	906.0 Tritium

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www.pacelabs.com

1638 Roseytown Road
Greensburg, PA 15601
(724)850-5600

SAMPLE ACKNOWLEDGMENT

Analyte List

Customer Sample ID	Method	Compound	Reporting Limit	Units
A3J0790-01	906.0 Tritium	Tritium		

Pace Analytical™

www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Michael Ng
BSK Analytical Laboratories
1414 Stanislaus Street
Fresno CA 93706

REPORT OF LABORATORY ANALYSIS FOR 2,3,7,8-TCDD

Report Summary:

This report contains results of one drinking water sample analyzed to determine 2,3,7,8-TCDD content. This sample was analyzed according to Method 1613 by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

Report Information:

Pace Project #: 10245866
Sample Receipt Date: 10/15/2013
Client Project #: A3J0790
Client Sub PO #: N/A
State Cert #: 01155CA

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Brittany Hansen, your Pace Project Manager.

This report has been reviewed by:

Brittany J. Hansen

October 28, 2013

Brittany Hansen, Project Manager
(612) 607-6429
(612) 607-6444 (fax)
brittany.hansen@pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE	MN002
Colorado	MN00064	New Mexico	MN00064
Connecticut	PH-0256	New York (NEL	11647
EPA Region 5	WD-15J	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennesee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	03086	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

BSK Analytical Laboratories
Engineers & Laboratories

SUBCONTRACT ORDER

A3J0790

10245966 1158

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Dioxin
1700 Elm Street S.E. Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Sample Date
A3J0790-01	MPWSP ML-1 Zone #2 (90-100 ft bgs)	10/07/2013 18:25

Matrix: Water

Analysis 1LAG Ø

EXT-Dioxin-DW matrix, EPA 1613 2,3,7,8-TCDD

Released By Date Received By Date 10/4/13 1530 / Fed Ex

Released By Date Received By Pace Date 10 15 13 0921

G-745

T- 3.3°, 6.3°C

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 19Sep2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.07	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: BSK

Project #: WO# : 10245866 (10245866)

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: See SOF

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☐ Yes ☒ No

Thermom. Used: ☐ 80512447 ☐ 72337080 ☒ B88A912167504 ☐ B88A9132S21491 Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on Ice, cooling process has begun

Cooler Temp Read (°C): 3.4, 10.4 **Cooler Temp Corrected (°C):** 3.3, 10.3 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** -.1 **Date and Initials of Person Examining Contents:** CB 10 15 13

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☐ No	☒ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☐ No	☒ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: Wt.	☐ Yes	☒ No	☐ N/A	12. Time not on samples but on COC
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☒ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Previously waived temp.

Pr... 10/16/13

Pace AnalyticalServices, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Drinking Water Analysis Results
2,3,7,8-TCDD – USEPA Method 1613B

Sample ID.....A3J0790-01 MPWSP ML-1
Client..... BSK Analytical Laboratories
Lab Sample ID..... 10245866001

Date Collected.....10/07/2013
Date Received.....10/15/2013
Date Extracted.....10/18/2013

	Sample A3J0790-01 MPW	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	**ND**	ND	--	--
RL	5.0 pg/L	5.0 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	122%	132%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			7.4%	
IS Recovery	**61%**	85%	86%	83%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	**79%**	101%	105%	109%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	R131021A_20	R131021A_06	R131021A_03	R131021A_04
Analysis Date	10/22/2013	10/21/2013	10/21/2013	10/21/2013
Analysis Time	02:44	18:43	17:00	17:34
Analyst	SMT	SMT	SMT	SMT
Volume	1.024L	1.025L	1.011L	1.018L
Dilution	NA	NA	NA	NA
ICAL Date	07/19/2013	07/19/2013	07/19/2013	07/19/2013
CCAL Filename	R131021A_02	R131021A_02	R131021A_02	R131021A_02

! = the

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 11/06/13 14:00
Received Date: 10/15/13 15:25
Turnaround Time: Normal

Project: A3J0790

Phones: (559) 497-2888
Fax: (559) 485-6935

P.O. #:

Attn: Michael Ng

Client: BSK Analytical Laboratories
550 West Locust Avenue
Fresno, CA 93650

Dear Michael Ng :

Enclosed are the results of analyses for samples received 10/15/2013 with the Chain of Custody document. The samples were received in good condition, at 2.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 3J15074-01 **Sample ID:** A3J0790-01 **Matrix:** Water
Sampled by: Client **Sampled:** 10/07/13 18:25

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lithium, Total	34	1.4	10	ug/l	1	EPA 200.7	11/4/13	11/5/13 10:23	W3K0097	
Iodide, Dissolved	180	2.1	50	ug/l	5	EPA 9056A	11/5/13	11/5/13 19:57	W3K0192	D-14

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Certificate of Analysis

Quality Control Section

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W3K0192 - EPA 9056A

Blank (W3K0192-BLK1) — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		ND		ug/l					

LCS (W3K0192-BS1) — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		35.3		ug/l	40.0	88	85-115		

Matrix Spike (W3K0192-MS1) — Source: 3J15074-01 — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	179	368		ug/l	200	94	80-120		

Matrix Spike Dup (W3K0192-MSD1) — Source: 3J15074-01 — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	179	355		ug/l	200	88	80-120	3	20

Metals by EPA 200 Series Methods - Quality Control

Batch W3K0097 - EPA 200.7

Blank (W3K0097-BLK1) — Prepared: 11/04/13 Analyzed: 11/05/13 10:15

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		1.70	J	ug/l					

LCS (W3K0097-BS1) — Prepared: 11/04/13 Analyzed: 11/05/13 10:18

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		988		ug/l	1000	99	85-115		

LCS Dup (W3K0097-BSD1) — Prepared: 11/04/13 Analyzed: 11/05/13 10:21

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		992		ug/l	1000	99	85-115	0.3	30

Duplicate (W3K0097-DUP1) — Source: 3J17013-01 — Prepared: 11/04/13 Analyzed: 11/05/13 10:28

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	144	134		ug/l				8	30

Weck Laboratories, Inc. 14859 East Clark Avenue, City of Industry, California 91746-3306 (626) 336-2139 FAX (626) 3
www.wecklab.com

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1954

Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature
Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

J	Estimated conc. detected <MRL and >MDL.
Q-11	This analysis was requested by the client after the holding time was exceeded.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Sample Receipt Acknowledgement

WORK ORDER: 3J15074
Printed: 10/16/2013 3:28:22PM

Client: BSK Analytical Laboratories
Project: Metals
Project Manager: Kim G Tu
Project Number: A3J0790

Report To:
BSK Analytical Laboratories
Michael Ng
550 West Locust Avenue
Fresno, CA 93650
Phone: (559) 497-2888
Fax: (559) 485-6935

Invoice To:
BSK Analytical Laboratories
Accounts Payable - Anise Foote
550 West Locust Avenue
Fresno, CA 93650
Phone :(559) 497-2888
Fax: (559) 485-6935

Date Due: **10/29/13 15:00 (10 day TAT)**

Received By: Adrian Talabis
Date Received: 10/15/13 15:25
Logged In By: Adrian Talabis
Date Logged In: 10/15/13 16:15

Samples Received at:	**2.4°C**	All containers intact:	**Yes**	Chain of custody completed	**Yes**
Number of Ice chests/packages:	**No**	Custody seals presen		Sample labels & COC agree	**Yes**
Appropriate Sample Containers:		Custody seals intact:		Samples preserved properly	**Yes**
		Samples received on ice		Sample volume sufficient	**Yes**
		Custody Seals	**No**	Sufficient holding time for all tests	**Yes**

Analysis	TAT	Expires	Comments
3J15074-01 A3J0790-01 [Water] Sampled 10/07/13 18:25 Pacific			
Iodide water 9056M	10	11/04/13 18:25	
200.7 Li_diss	10	04/05/14 18:25	

Comments:

Kim Tu
Authorized Signature

10/16/2013
Date

Note:
If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.

BSK Analytical Laboratories
Engineering Laboratories

SUBCONTRACT ORDER

A3J0790

3J15074

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Weck Laboratories, Inc.
14859 E Clark Avenue
City of Industry, CA 91745-1396
Phone :(626) 336-2139
Fax: (626) 336-2634
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Sample Date
A3J0790-01	MPWSP ML-1 Zone #2 (90-100 ft bgs)	10/07/2013 18:25

Matrix: Water

500P Ø

Analysis	
EXT-Iodide	Dissolved
EXT-Miscellaneous	Lithium

2.4°C

Released By	Date	Received By	Date
MLeon	BSK 10/14/13	1230	Ontrac
Ontrac			15:25 10·15·13
Released By	Date	Received By	Date

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

Travis Peterson
California American Water
836 Carmel Ave.
Monterey, CA 93940

RE: Report for A3L1789 Water Quality Analysis

Dear Travis Peterson,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 12/20/2013. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michael Ng, Project Manager

If additional clarification of any information is required, please contact your Project Manager, Michael Ng , at (800) 877-8310 or (559) 497-2888 x118.

Case Narrative

Project and Report Details		Invoice Details	
Client:	California American Water	**Invoice To:**	California American Water
Report To:	Travis Peterson	**Invoice Attn:**	susan.jacobson@amwater.com
Project #:	Water Quality Analysis - MPWSP	**Project PO#:**	-
Received:	12/20/2013 - 15:00		
Report Due:	1/08/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 0.4

Containers Intact
COC/Labels Agree
Received On Wet Ice
Received On Blue Ice
Sample(s) arrived at lab on same day sampled.
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Detailed Narrative

Chain of Custody Notes

Date: 12-24-13
Initials: MSN
Note: Samples were received past holding times for some tests. Per Sarp Sekeroglu, okay to analyze the tests past holding time.

Chain of Custody Notes

Date: 02-11-14
Initials: MSN
Note: Dissolved Sodium was over-range for this sample and there was insufficient volume left to reanalyze for Dissolved Sodium. Per Sarp Sekeroglu and Andrew Kieta, okay to analyze for Total Sodium in place of Dissolved Sodium.

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

B2.0	Analyte present in the method blank above the method detection limit (MDL). Laboratory does not determine batch acceptance on detections below the reporting limit (RL).
BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
BS3.0	BS/BSD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
DL1.0	Sample required a dilution due to the matrix or high concentration of a non-target analyte.
HT1.0	Holding time exceeded. Sample was received at the lab past holding time.
HT1.6	Holding time exceeded. The holding time for this analysis is a recommendation and is not mandated by any state or federal agency.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
MS1.4	Matrix spike recovery data unreliable due to significant parent sample concentration relative to fortification level (>4x).

Report Distribution

Recipient(s)	Report Format
Travis Peterson	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A3L1789-01
Sampled By: Nathan Reynolds
Sample Description: ML-2 Zone #1 (167-177 ft bgs)

Sample Date - Time: 12/17/13 - 16:45
Matrix: Water
Sample Type: Grab

Field Data: pH=6.86 Temp=17.3 ºC Cond.=34730 umho Turb. =1.68 ntu

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320 B	**750**	30	mg/L	10	A315355	12/27/13	12/27/13	
Bicarbonate as CaCO3	SM 2320 B	**750**	30	mg/L	10	A315355	12/27/13	12/27/13	
Carbonate as CaCO3	SM 2320 B	ND	30	mg/L	10	A315355	12/27/13	12/27/13	
Hydroxide as CaCO3	SM 2320 B	ND	30	mg/L	10	A315355	12/27/13	12/27/13	
Ammonia as N	SM 4500-NH3 G	**14**	0.10	mg/L	1	A315240	12/24/13	12/27/13	
Bromide	EPA 300.1	**45**	1.0	mg/L	200	A315371	12/27/13	12/27/13	
Surrogate: Dichloroacetate	EPA 300.1	100 %	*Acceptable range: 90-115 %*						
Chloride	EPA 300.0	**12000**	500	mg/L	500	A315134	12/23/13	12/23/13	
Color, Apparent	SM 2120 B	**45**	1.0	CU	1	A315108	12/20/13 17:55	12/20/13	HT1.0
Conductivity @ 25C	SM 2510 B	**31000**	1.0	umhos/cm	1	A315183	12/24/13	12/24/13	
Fluoride	EPA 300.0	ND	20	mg/L	200	A315318	12/26/13	12/26/13	DL1.0
Mass Balance-Anions		**390**		meq/L					
Mass Balance-Dissolved Cations		**380**		meq/L					
MBAS, Calculated as LAS, mol wt 340	SM 5540 C	ND	0.10	mg/L	2	A315233	12/24/13 08:30	12/24/13	HT1.0
Nitrate as NO3	EPA 300.0	ND	500	mg/L	500	A315134	12/23/13 20:25	12/23/13	DL1.0, HT1.0
Nitrite as N	EPA 300.0	ND	25	mg/L	500	A315134	12/23/13 20:25	12/23/13	DL1.0, HT1.0
Threshold Odor	SM 2150 B	**1.0**	1.0	T.O.N.	1	A315108	12/20/13 17:55	12/20/13	HT1.6
Orthophosphate as P	SM 4500-P E	**0.20**	0.010	mg/L	1	A315135	12/20/13 18:54	12/20/13	HT1.0
pH (1)	SM 4500-H+ B	**7.7**		pH Units	1	A315183	12/24/13	12/24/13	
pH Temperature in °C		**20.1**							
Phosphorus - Dissolved (1)	EPA 365.4	ND	0.10	mg/L	1	A315207	12/23/13	12/26/13	
Sulfate as SO4	EPA 300.0	**1000**	1000	mg/L	500	A315134	12/23/13	12/23/13	
Total Dissolved Solids	SM 2540C	**19000**	5.0	mg/L	1	A315189	12/23/13	12/27/13	
Total Kjeldahl Nitrogen - Dissolved (1)	EPA 351.2	**14**	1.0	mg/L	1	A315207	12/23/13	12/27/13	
Total Oxidizable Nitrogen, as N - Dissolved (1)	SM 4500-NO3 F	ND	0.10	mg/L	1	A315381	12/30/13	12/30/13	
Turbidity	SM 2130 B	**6.0**	0.10	NTU	1	A315108	12/20/13 17:55	12/20/13	HT1.0

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aluminum	EPA 200.7	**0.082**	0.050	mg/L	1	A315185	12/23/13	12/27/13	
Arsenic	EPA 200.8	ND	10	ug/L	5	A315185	12/23/13	12/30/13	
Barium - Dissolved (1)	EPA 200.7	**0.074**	0.050	mg/L	1	A315238	12/24/13	12/30/13	
Boron - Dissolved (1)	EPA 200.7	**1.7**	0.10	mg/L	1	A315238	12/24/13	12/30/13	
Calcium	EPA 200.7	**570**	0.10	mg/L	1	A315185	12/23/13	12/27/13	
Calcium - Dissolved (1)	EPA 200.7	**620**	0.10	mg/L	1	A315238	12/24/13	12/30/13	
Copper	EPA 200.8	**38**	25	ug/L	5	A315185	12/23/13	12/30/13	
Hardness as CaCO3	SM 2340B	**4800**	0.41	mg/L					
Iron	EPA 200.7	**3.0**	0.030	mg/L	1	A315185	12/23/13	12/27/13	
Iron - Dissolved (1)	EPA 200.7	ND	0.030	mg/L	1	A315238	12/24/13	12/30/13	

Certificate of Analysis

Sample ID: A3L1789-01
Sampled By: Nathan Reynolds
Sample Description: ML-2 Zone #1 (167-177 ft bgs)

Sample Date - Time: 12/17/13 - 16:45
Matrix: Water
Sample Type: Grab

Field Data: pH=6.86 Temp=17.3 ºC Cond.=34730 umho Turb. =1.68 ntu

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Magnesium	EPA 200.7	**820**	0.10	mg/L	1	A315185	12/23/13	12/27/13	
Magnesium - Dissolved (1)	EPA 200.7	**900**	0.10	mg/L	1	A315238	12/24/13	12/30/13	
Manganese	EPA 200.7	**2.4**	0.010	mg/L	1	A315185	12/23/13	12/27/13	
Manganese - Dissolved (1)	EPA 200.7	**2.6**	0.010	mg/L	1	A315238	12/24/13	12/30/13	
Potassium - Dissolved (1)	EPA 200.7	**130**	2.0	mg/L	1	A315238	12/24/13	12/30/13	
Silica (SiO2) - Dissolved (1)	EPA 200.7	**34**	0.20	mg/L	1	A315238	12/24/13	12/30/13	
Sodium - Dissolved (1)	EPA 200.7	**6200**	10	mg/L	10	A401747	02/11/14	02/12/14	
Strontium - Dissolved (1)	EPA 200.8	**7900**	5.0	ug/L	5	A315238	12/24/13	01/03/14	
Zinc	EPA 200.7	ND	0.050	mg/L	1	A315185	12/23/13	12/27/13	

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A315261	12/24/13	12/25/13	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A315261	12/24/13	12/25/13	
Surrogate: TCMX	EPA 504.1	111 %	*Acceptable range: 70-130 %*						
Organohalide Pesticides and PCBs by GC-ECD									
Aldrin	EPA 505	ND	0.075	ug/L	1	A315261	12/24/13	12/25/13	
Chlordane	EPA 505	ND	0.10	ug/L	1	A315261	12/24/13	12/25/13	
Chlorothalonil	EPA 505	ND	5.0	ug/L	1	A315261	12/24/13	12/25/13	
Dieldrin	EPA 505	ND	0.020	ug/L	1	A315261	12/24/13	12/25/13	
Endrin	EPA 505	ND	0.10	ug/L	1	A315261	12/24/13	12/25/13	
Heptachlor	EPA 505	ND	0.010	ug/L	1	A315261	12/24/13	12/25/13	
Heptachlor Epoxide	EPA 505	ND	0.010	ug/L	1	A315261	12/24/13	12/25/13	
Hexachlorobenzene	EPA 505	ND	0.50	ug/L	1	A315261	12/24/13	12/25/13	
Hexachlorocyclopentadiene	EPA 505	ND	1.0	ug/L	1	A315261	12/24/13	12/25/13	
Lindane	EPA 505	ND	0.20	ug/L	1	A315261	12/24/13	12/25/13	
Methoxychlor	EPA 505	ND	10	ug/L	1	A315261	12/24/13	12/25/13	
PCB Aroclor Screen	EPA 505	ND	0.50	ug/L	1	A315261	12/24/13	12/25/13	
Toxaphene	EPA 505	ND	1.0	ug/L	1	A315261	12/24/13	12/25/13	
Trifluralin	EPA 505	ND	1.0	ug/L	1	A315261	12/24/13	12/25/13	
Surrogate: TCMX	EPA 505	111 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A315300	12/26/13	12/28/13	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A315300	12/26/13	12/28/13	
2,4-D	EPA 515.3	ND	10	ug/L	1	A315300	12/26/13	12/28/13	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A315300	12/26/13	12/28/13	
Dalapon	EPA 515.3	ND	10	ug/L	1	A315300	12/26/13	12/28/13	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A315300	12/26/13	12/28/13	

BSK Associates Engineers & Laboratories

Certificate of Analysis

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Sampled By: Nathan Reynolds
Sample Description: ML-2 Zone #1 (167-177 ft bgs)

Sample Date - Time: 12/17/13 - 16:45
Matrix: Water
Sample Type: Grab

Field Data: pH=6.86 Temp=17.3 ºC Cond.=34730 umho Turb. =1.68 ntu

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chlorinated Acid Herbicides by GC-ECD									
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A315300	12/26/13	12/28/13	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A315300	12/26/13	12/28/13	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A315300	12/26/13	12/28/13	
Surrogate: DCPAA	EPA 515.3	84 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A315401	12/30/13	12/30/13	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A315401	12/30/13	12/30/13	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A315401	12/30/13	12/30/13	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A315401	12/30/13	12/30/13	
Acetone	EPA 524.2	ND	10	ug/L	1	A315401	12/30/13	12/30/13	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	

BSK Associates Engineers & Laboratories

Certificate of Analysis

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Sampled By: Nathan Reynolds
Sample Description: ML-2 Zone #1 (167-177 ft bgs)

Sample Date - Time: 12/17/13 - 16:45
Matrix: Water
Sample Type: Grab

Field Data: pH=6.86 Temp=17.3 ºC Cond.=34730 umho Turb. =1.68 ntu

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A315401	12/30/13	12/30/13	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	BS1.0, CV0.0
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A315401	12/30/13	12/30/13	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A315401	12/30/13	12/30/13	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A315401	12/30/13	12/30/13	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A315401	12/30/13	12/30/13	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	93 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	102 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A315174	12/23/13	12/24/13	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A315174	12/23/13	12/24/13	

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Sample Type: Grab

Field Data: pH=6.86 Temp=17.3 ºC Cond.=34730 umho Turb. =1.68 ntu

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Semi-Volatile Organics by GC-MS									
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A315174	12/23/13	12/24/13	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A315174	12/23/13	12/24/13	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A315174	12/23/13	12/24/13	
Bromacil	EPA 525.2	ND	10	ug/L	1	A315174	12/23/13	12/24/13	BS1.0
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A315174	12/23/13	12/24/13	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A315174	12/23/13	12/24/13	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A315174	12/23/13	12/24/13	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A315174	12/23/13	12/24/13	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A315174	12/23/13	12/24/13	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A315174	12/23/13	12/24/13	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A315174	12/23/13	12/24/13	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A315174	12/23/13	12/24/13	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A315174	12/23/13	12/24/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	96 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A315375	12/27/13	12/28/13	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A315375	12/27/13	12/28/13	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A315375	12/27/13	12/28/13	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A315375	12/27/13	12/28/13	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A315375	12/27/13	12/28/13	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A315375	12/27/13	12/28/13	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A315375	12/27/13	12/28/13	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A315375	12/27/13	12/28/13	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A315140	12/21/13	12/21/13	
Surrogate: AMPA	EPA 547	86 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A315232	12/23/13	12/26/13	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A315144	12/21/13	12/26/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A315134										Prepared: 12/23/2013	
Prep Method: Method Specific Preparation										Analyst: EMH	
Blank (A315134-BLK1)											
Chloride	ND	1.0	mg/L							12/23/13	
Nitrate as NO3	ND	1.0	mg/L							12/23/13	
Nitrite as N	ND	0.050	mg/L							12/23/13	
Sulfate as SO4	ND	2.0	mg/L							12/23/13	
Blank Spike (A315134-BS1)											
Chloride	50	1.0	mg/L	50		99	90-110			12/23/13	
Nitrate as NO3	49	1.0	mg/L	50		98	90-110			12/23/13	
Nitrite as N	0.49	0.050	mg/L	0.50		98	90-110			12/23/13	
Sulfate as SO4	49	2.0	mg/L	50		99	90-110			12/23/13	
Blank Spike Dup (A315134-BSD1)											
Chloride	49	1.0	mg/L	50		99	90-110	0	20	12/23/13	
Nitrate as NO3	49	1.0	mg/L	50		98	90-110	0	20	12/23/13	
Nitrite as N	0.49	0.050	mg/L	0.50		98	90-110	0	20	12/23/13	
Sulfate as SO4	49	2.0	mg/L	50		98	90-110	0	20	12/23/13	
Matrix Spike (A315134-MS1), Source: A3L1709-02											
Chloride	110	2.0	mg/L	100	9.6	102	80-120			12/23/13	
Nitrate as NO3	100	2.0	mg/L	100	ND	101	80-120			12/23/13	
Nitrite as N	0.75	0.10	mg/L	1.0	ND	75	80-120			12/23/13	MS1.0 ***Low***
Sulfate as SO4	140	4.0	mg/L	100	41	101	80-120			12/23/13	
Matrix Spike (A315134-MS2), Source: A3L1697-01											
Chloride	110	2.0	mg/L	100	5.6	102	80-120			12/23/13	
Nitrate as NO3	210	2.0	mg/L	100	110	98	80-120			12/23/13	
Nitrite as N	0.97	0.10	mg/L	1.0	ND	97	80-120			12/23/13	
Sulfate as SO4	130	4.0	mg/L	100	24	101	80-120			12/23/13	
Matrix Spike Dup (A315134-MSD1), Source: A3L1709-02											
Chloride	110	2.0	mg/L	100	9.6	101	80-120	1	20	12/23/13	
Nitrate as NO3	100	2.0	mg/L	100	ND	100	80-120	1	20	12/23/13	
Nitrite as N	0.74	0.10	mg/L	1.0	ND	74	80-120	1	20	12/23/13	MS1.0 ***Low***
Sulfate as SO4	140	4.0	mg/L	100	41	99	80-120	1	20	12/23/13	
Matrix Spike Dup (A315134-MSD2), Source: A3L1697-01											
Chloride	110	2.0	mg/L	100	5.6	102	80-120	1	20	12/23/13	
Nitrate as NO3	210	2.0	mg/L	100	110	99	80-120	1	20	12/23/13	
Nitrite as N	0.98	0.10	mg/L	1.0	ND	98	80-120	1	20	12/23/13	
Sulfate as SO4	130	4.0	mg/L	100	24	102	80-120	1	20	12/23/13	
EPA 300.0 - Quality Control											
Batch: A315318										Prepared: 12/26/2013	
Prep Method: Method Specific Preparation										Analyst: n.a.	
Blank (A315318-BLK1)											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A315318										Prepared: 12/26/2013	
Prep Method: Method Specific Preparation										Analyst: n.a.	
Blank (A315318-BLK1)											
Fluoride	ND	0.10	mg/L							12/26/13	
Blank Spike (A315318-BS1)											
Fluoride	0.49	0.10	mg/L	0.50		98	90-110			12/26/13	
Blank Spike Dup (A315318-BSD1)											
Fluoride	0.50	0.10	mg/L	0.50		100	90-110	2	10	12/26/13	
Matrix Spike (A315318-MS1), Source: A3L1709-02											
Fluoride	1.1	0.20	mg/L	1.0	ND	99	80-120			12/26/13	
Matrix Spike (A315318-MS2), Source: A3L1860-02											
Fluoride	1.3	0.20	mg/L	1.0	0.27	98	80-120			12/26/13	
Matrix Spike Dup (A315318-MSD1), Source: A3L1709-02											
Fluoride	1.1	0.20	mg/L	1.0	ND	97	80-120	2	10	12/26/13	
Matrix Spike Dup (A315318-MSD2), Source: A3L1860-02											
Fluoride	1.3	0.20	mg/L	1.0	0.27	102	80-120	3	10	12/26/13	
EPA 300.1 - Quality Control											
Batch: A315371										Prepared: 12/27/2013	
Prep Method: Method Specific Preparation										Analyst: TRL	
Blank (A315371-BLK1)											
Bromide	ND	0.0050	mg/L							12/27/13	
Surrogate: Dichloroacetate	*0.495*			*0.50*		*99*	*90-115*			12/27/13	
Blank Spike (A315371-BS1)											
Bromide	0.19	0.0050	mg/L	0.20		96	85-115			12/27/13	
Surrogate: Dichloroacetate	*0.492*			*0.50*		*98*	*90-115*			12/27/13	
Blank Spike Dup (A315371-BSD1)											
Bromide	0.19	0.0050	mg/L	0.20		97	85-115	1	10	12/27/13	
Surrogate: Dichloroacetate	*0.494*			*0.50*		*99*	*90-115*			12/27/13	
Matrix Spike (A315371-MS1), Source: A3L1963-02											
Bromide	4.3	0.10	mg/L	2.0	2.4	93	75-125			12/27/13	
Surrogate: Dichloroacetate	*9.63*			*10*		*96*	*90-115*			12/27/13	
Matrix Spike (A315371-MS2), Source: A3L2009-03											
Bromide	0.50	0.020	mg/L	0.40	0.13	93	75-125			12/28/13	
Surrogate: Dichloroacetate	*1.89*			*2.0*		*95*	*90-115*			12/28/13	
Matrix Spike Dup (A315371-MSD1), Source: A3L1963-02											
Bromide	4.3	0.10	mg/L	2.0	2.4	94	75-125	0	10	12/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.1 - Quality Control											
Batch: A315371										Prepared: 12/27/2013	
Prep Method: Method Specific Preparation										Analyst: TRL	
Matrix Spike Dup (A315371-MSD1), Source: A3L1963-02											
Surrogate: Dichloroacetate	*9.74*			*10*		*97*	*90-115*			12/27/13	
Matrix Spike Dup (A315371-MSD2), Source: A3L2009-03											
Bromide	0.51	0.020	mg/L	0.40	0.13	94	75-125	1	10	12/28/13	
Surrogate: Dichloroacetate	*1.96*			*2.0*		*98*	*90-115*			12/28/13	
EPA 351.2 - Quality Control											
Batch: A315207										Prepared: 12/23/2013	
Prep Method: Digestion										Analyst: KKC	
Blank (A315207-BLK2)											
Total Kjeldahl Nitrogen - Dissolved (1)	ND	1.0	mg/L							12/27/13	
Blank Spike (A315207-BS2)											
Total Kjeldahl Nitrogen - Dissolved (1)	9.9	1.0	mg/L	10		99	90-110			12/27/13	
Blank Spike Dup (A315207-BSD2)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		105	90-110	5	10	12/27/13	
Matrix Spike (A315207-MS2), Source: A3L1656-01											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10	ND	100	90-110			12/27/13	
Matrix Spike Dup (A315207-MSD2), Source: A3L1656-01											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10	ND	99	90-110	2	10	12/27/13	
EPA 365.4 - Quality Control											
Batch: A315207										Prepared: 12/23/2013	
Prep Method: Digestion										Analyst: KKC	
Blank (A315207-BLK1)											
Phosphorus - Dissolved (1)	ND	0.10	mg/L							12/26/13	
Blank Spike (A315207-BS1)											
Phosphorus - Dissolved (1)	9.3	0.10	mg/L	10		93	90-110			12/26/13	
Blank Spike Dup (A315207-BSD1)											
Phosphorus - Dissolved (1)	9.9	0.10	mg/L	10		99	90-110	7	10	12/26/13	
Matrix Spike (A315207-MS1), Source: A3L1656-01											
Phosphorus - Dissolved (1)	9.5	0.10	mg/L	10	ND	95	90-110			12/26/13	
Matrix Spike Dup (A315207-MSD1), Source: A3L1656-01											
Phosphorus - Dissolved (1)	9.8	0.10	mg/L	10	ND	98	90-110	3	10	12/26/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2120 B - Quality Control											
Batch: A315108										Prepared: 12/20/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A315108-BLK1)											
Color, Apparent	ND	1.0	CU							12/20/13	
Duplicate (A315108-DUP1), Source: A3L1654-01											
Color, Apparent	5.0	1.0	CU		5.0			0	20	12/20/13	
Duplicate (A315108-DUP2), Source: A3L1715-01											
Color, Apparent	5.0	1.0	CU		5.0			0	20	12/20/13	
SM 2130 B - Quality Control											
Batch: A315108										Prepared: 12/20/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A315108-BLK1)											
Turbidity	ND	0.10	NTU							12/20/13	
Duplicate (A315108-DUP1), Source: A3L1654-01											
Turbidity	ND	0.10	NTU		ND				20	12/20/13	
Duplicate (A315108-DUP2), Source: A3L1715-01											
Turbidity	ND	0.10	NTU		ND				20	12/20/13	
SM 2150 B - Quality Control											
Batch: A315108										Prepared: 12/20/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A315108-BLK1)											
Threshold Odor	ND	1.0	T.O.N.							12/20/13	
Duplicate (A315108-DUP1), Source: A3L1654-01											
Threshold Odor	1.0	1.0	T.O.N.		1.0			0	20	12/20/13	
Duplicate (A315108-DUP2), Source: A3L1715-01											
Threshold Odor	1.0	1.0	T.O.N.		1.0			0	20	12/20/13	
SM 2320 B - Quality Control											
Batch: A315355										Prepared: 12/27/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A315355-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							12/27/13	
Bicarbonate as CaCO3	ND	3.0	mg/L							12/27/13	
Carbonate as CaCO3	ND	3.0	mg/L							12/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L							12/27/13	
Blank Spike (A315355-BS1)											
Alkalinity as CaCO3	96	3.0	mg/L	100		96	80-120			12/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2320 B - Quality Control											
Batch: A315355										Prepared: 12/27/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank Spike Dup (A315355-BSD1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		101	80-120	5	20	12/27/13	
Duplicate (A315355-DUP1), Source: A3L1932-01											
Alkalinity as CaCO3	270	3.0	mg/L		270			2	10	12/27/13	
Bicarbonate as CaCO3	270	3.0	mg/L		270			2	10	12/27/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	12/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	12/27/13	
Duplicate (A315355-DUP2), Source: A3L1949-01											
Alkalinity as CaCO3	110	3.0	mg/L		100			3	10	12/27/13	
Bicarbonate as CaCO3	110	3.0	mg/L		100			3	10	12/27/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	12/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	12/27/13	
SM 2510 B - Quality Control											
Batch: A315183										Prepared: 12/24/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A315183-BLK1)											
Conductivity @ 25C	ND	1.0	umhos/cm							12/24/13	
Duplicate (A315183-DUP1), Source: A3L1704-01											
Conductivity @ 25C	780	1.0	umhos/cm		790			1	20	12/24/13	
Duplicate (A315183-DUP2), Source: A3L1860-02											
Conductivity @ 25C	350	1.0	umhos/cm		350			0	20	12/24/13	
SM 2540C - Quality Control											
Batch: A315189										Prepared: 12/23/2013	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank (A315189-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							12/27/13	
Blank Spike (A315189-BS1)											
Total Dissolved Solids	990	5.0	mg/L	1000		99	70-130			12/27/13	
Duplicate (A315189-DUP1), Source: A3L1658-01											
Total Dissolved Solids	370	5.0	mg/L		370			1	20	12/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-H+ B - Quality Control											
Batch: A315183										Prepared: 12/24/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Duplicate (A315183-DUP1), Source: A3L1704-01											
pH (1)	7.8		pH Units		7.8			0	20	12/24/13	
Duplicate (A315183-DUP2), Source: A3L1860-02											
pH (1)	7.8		pH Units		7.8			0	20	12/24/13	
SM 4500-NH3 G - Quality Control											
Batch: A315240										Prepared: 12/24/2013	
Prep Method: Ammonia Distillation										Analyst: KKC	
Blank (A315240-BLK1)											
Ammonia as N	ND	0.10	mg/L							12/27/13	B2.0
Blank Spike (A315240-BS1)											
Ammonia as N	9.8	0.10	mg/L	10		98	80-120			12/27/13	
Blank Spike Dup (A315240-BSD1)											
Ammonia as N	9.7	0.10	mg/L	10		97	80-120	1	20	12/27/13	
Matrix Spike (A315240-MS1), Source: A3L1407-01											
Ammonia as N	9.5	0.10	mg/L	10	0.38	91	80-120			12/27/13	
Matrix Spike (A315240-MS2), Source: A3L1480-06											
Ammonia as N	10	0.10	mg/L	10	0.57	96	80-120			12/28/13	
Matrix Spike Dup (A315240-MSD1), Source: A3L1407-01											
Ammonia as N	9.4	0.10	mg/L	10	0.38	90	80-120	1	20	12/27/13	
Matrix Spike Dup (A315240-MSD2), Source: A3L1480-06											
Ammonia as N	9.7	0.10	mg/L	10	0.57	91	80-120	5	20	12/28/13	
SM 4500-NO3 F - Quality Control											
Batch: A315381										Prepared: 12/30/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A315381-BLK1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	ND	0.10	mg/L							12/30/13	
Blank Spike (A315381-BS1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10		104	80-120			12/30/13	
Blank Spike Dup (A315381-BSD1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10		102	80-120	2	20	12/30/13	
Matrix Spike (A315381-MS1), Source: A3L1608-03											
Total Oxidizable Nitrogen, as N - Dissolved (1)	23	1.0	mg/L	10	14	95	80-120			12/30/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-NO3 F - Quality Control											
Batch: A315381										Prepared: 12/30/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Matrix Spike (A315381-MS2), Source: A3L1789-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.4	0.10	mg/L	10	ND	93	80-120			12/30/13	
Matrix Spike Dup (A315381-MSD1), Source: A3L1608-03											
Total Oxidizable Nitrogen, as N - Dissolved (1)	23	1.0	mg/L	10	14	90	80-120	2	20	12/30/13	
Matrix Spike Dup (A315381-MSD2), Source: A3L1789-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.5	0.10	mg/L	10	ND	95	80-120	1	20	12/30/13	
SM 4500-P E - Quality Control											
Batch: A315135										Prepared: 12/20/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A315135-BLK1)											
Orthophosphate as P	ND	0.010	mg/L							12/20/13	
Blank Spike (A315135-BS1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		100	90-110			12/20/13	
Blank Spike Dup (A315135-BSD1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		100	90-110	0	20	12/20/13	
Matrix Spike (A315135-MS1), Source: A3L1716-01											
Orthophosphate as P	0.33	0.010	mg/L	0.25	0.079	100	80-120			12/20/13	
Matrix Spike Dup (A315135-MSD1), Source: A3L1716-01											
Orthophosphate as P	0.34	0.010	mg/L	0.25	0.079	103	80-120	2	20	12/20/13	
SM 5540 C - Quality Control											
Batch: A315233										Prepared: 12/24/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A315233-BLK1)											
MBAS, Calculated as LAS, mol wt 340	ND	0.050	mg/L							12/24/13	
Blank Spike (A315233-BS1)											
MBAS, Calculated as LAS, mol wt 340	0.91	0.050	mg/L	1.0		91	80-120			12/24/13	
Blank Spike Dup (A315233-BSD1)											
MBAS, Calculated as LAS, mol wt 340	0.95	0.050	mg/L	1.0		95	80-120	4	20	12/24/13	
Matrix Spike (A315233-MS1), Source: A3L1866-01											
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0	ND	101	80-120			12/24/13	
Matrix Spike Dup (A315233-MSD1), Source: A3L1866-01											
MBAS, Calculated as LAS, mol wt 340	0.95	0.050	mg/L	1.0	ND	95	80-120	7	20	12/24/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A315185										Prepared: 12/23/2013	
Prep Method: EPA 200.2										Analyst: NRE	
Blank (A315185-BLK2)											
Aluminum	ND	0.050	mg/L							12/27/13	
Calcium	ND	0.10	mg/L							12/27/13	
Iron	ND	0.030	mg/L							12/27/13	
Magnesium	ND	0.10	mg/L							12/27/13	
Manganese	ND	0.010	mg/L							12/27/13	
Zinc	ND	0.050	mg/L							12/27/13	
Blank Spike (A315185-BS2)											
Aluminum	0.19	0.050	mg/L	0.20		94	85-115			12/27/13	
Calcium	9.5	0.10	mg/L	10		95	85-115			12/27/13	
Iron	1.9	0.030	mg/L	2.0		95	85-115			12/27/13	
Magnesium	9.3	0.10	mg/L	10		93	85-115			12/27/13	
Manganese	0.19	0.010	mg/L	0.20		93	85-115			12/27/13	
Zinc	0.19	0.050	mg/L	0.20		96	85-115			12/27/13	
Blank Spike Dup (A315185-BSD2)											
Aluminum	0.18	0.050	mg/L	0.20		89	85-115	6	20	12/27/13	
Calcium	9.5	0.10	mg/L	10		95	85-115	1	20	12/27/13	
Iron	1.9	0.030	mg/L	2.0		94	85-115	1	20	12/27/13	
Magnesium	9.3	0.10	mg/L	10		93	85-115	0	20	12/27/13	
Manganese	0.19	0.010	mg/L	0.20		93	85-115	1	20	12/27/13	
Zinc	0.19	0.050	mg/L	0.20		96	85-115	0	20	12/27/13	
Matrix Spike (A315185-MS3), Source: A3L1769-01											
Aluminum	0.34	0.050	mg/L	0.20	0.084	126	70-130			12/27/13	
Calcium	22	0.10	mg/L	10	12	97	70-130			12/27/13	
Iron	3.2	0.030	mg/L	2.0	1.2	99	70-130			12/27/13	
Magnesium	15	0.10	mg/L	10	5.7	97	70-130			12/27/13	
Manganese	0.20	0.010	mg/L	0.20	0.014	94	70-130			12/27/13	
Zinc	0.32	0.050	mg/L	0.20	0.13	96	70-130			12/27/13	
Matrix Spike Dup (A315185-MSD3), Source: A3L1769-01											
Aluminum	0.33	0.050	mg/L	0.20	0.084	125	70-130	1	20	12/27/13	
Calcium	21	0.10	mg/L	10	12	93	70-130	2	20	12/27/13	
Iron	3.1	0.030	mg/L	2.0	1.2	97	70-130	2	20	12/27/13	
Magnesium	15	0.10	mg/L	10	5.7	94	70-130	2	20	12/27/13	
Manganese	0.20	0.010	mg/L	0.20	0.014	93	70-130	1	20	12/27/13	
Zinc	0.32	0.050	mg/L	0.20	0.13	94	70-130	1	20	12/27/13	
EPA 200.7 - Quality Control											
Batch: A315238										Prepared: 12/24/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Blank (A315238-BLK2)											
Barium - Dissolved (1)	ND	0.050	mg/L							12/30/13	
Boron - Dissolved (1)	ND	0.10	mg/L							12/30/13	

Metals Quality Control Report

EPA 200.7 - Quality Control

Batch: A315238 Prepared: 12/24/2013

Prep Method: Filtration - Metals Analyst: NRE

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A315238-BLK2)											
Calcium - Dissolved (1)	ND	0.10	mg/L							12/30/13	
Iron - Dissolved (1)	ND	0.030	mg/L							12/30/13	
Magnesium - Dissolved (1)	ND	0.10	mg/L							12/30/13	
Manganese - Dissolved (1)	ND	0.010	mg/L							12/30/13	
Potassium - Dissolved (1)	ND	2.0	mg/L							12/30/13	
Silica (SiO2) - Dissolved (1)	ND	0.20	mg/L							12/30/13	
Blank Spike (A315238-BS2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		100	85-115			12/30/13	
Boron - Dissolved (1)	0.57	0.10	mg/L	0.60		96	85-115			12/30/13	
Calcium - Dissolved (1)	10	0.10	mg/L	10		100	85-115			12/30/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		100	85-115			12/30/13	
Magnesium - Dissolved (1)	9.8	0.10	mg/L	10		98	85-115			12/30/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20		98	85-115			12/30/13	
Potassium - Dissolved (1)	10	2.0	mg/L	10		101	85-115			12/30/13	
Silica (SiO2) - Dissolved (1)	2.1	0.20	mg/L	2.1		100	85-115			12/30/13	
Blank Spike Dup (A315238-BSD2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		100	85-115	0	20	12/30/13	
Boron - Dissolved (1)	0.57	0.10	mg/L	0.60		96	85-115	0	20	12/30/13	
Calcium - Dissolved (1)	9.9	0.10	mg/L	10		99	85-115	1	20	12/30/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		99	85-115	1	20	12/30/13	
Magnesium - Dissolved (1)	9.7	0.10	mg/L	10		97	85-115	1	20	12/30/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20		97	85-115	1	20	12/30/13	
Potassium - Dissolved (1)	10	2.0	mg/L	10		100	85-115	1	20	12/30/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		101	85-115	1	20	12/30/13	
Matrix Spike (A315238-MS2), Source: A3L1798-01											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20	ND	101	70-130			12/30/13	
Boron - Dissolved (1)	1.5	0.10	mg/L	0.60	0.94	93	70-130			12/30/13	
Calcium - Dissolved (1)	12	0.10	mg/L	10	1.9	98	70-130			12/30/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.17	97	70-130			12/30/13	
Magnesium - Dissolved (1)	10	0.10	mg/L	10	0.72	95	70-130			12/30/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20	ND	94	70-130			12/30/13	
Potassium - Dissolved (1)	11	2.0	mg/L	10	ND	97	70-130			12/30/13	
Silica (SiO2) - Dissolved (1)	31	0.20	mg/L	2.1	29	91	70-130			12/30/13	
Matrix Spike Dup (A315238-MSD2), Source: A3L1798-01											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20	ND	102	70-130	1	20	12/30/13	
Boron - Dissolved (1)	1.5	0.10	mg/L	0.60	0.94	97	70-130	1	20	12/30/13	
Calcium - Dissolved (1)	12	0.10	mg/L	10	1.9	99	70-130	1	20	12/30/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.17	97	70-130	0	20	12/30/13	
Magnesium - Dissolved (1)	10	0.10	mg/L	10	0.72	96	70-130	1	20	12/30/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20	ND	96	70-130	1	20	12/30/13	
Potassium - Dissolved (1)	11	2.0	mg/L	10	ND	97	70-130	0	20	12/30/13	
Silica (SiO2) - Dissolved (1)	31	0.20	mg/L	2.1	29	102	70-130	1	20	12/30/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A401747										Prepared: 2/11/2014	
Prep Method: Filtration - Metals										Analyst: NRE	
Blank (A401747-BLK1)											
Sodium - Dissolved (1)	ND	1.0	mg/L							02/12/14	
Blank Spike (A401747-BS1)											
Sodium - Dissolved (1)	10	1.0	mg/L	10		102	85-115			02/12/14	
Blank Spike Dup (A401747-BSD1)											
Sodium - Dissolved (1)	10	1.0	mg/L	10		104	85-115	1	20	02/12/14	
Matrix Spike (A401747-MS1), Source: A3L1789-01											
Sodium - Dissolved (1)	6100	10	mg/L	10	6200	NR	70-130			02/12/14	MS1.4 ***Low***
Matrix Spike Dup (A401747-MSD1), Source: A3L1789-01											
Sodium - Dissolved (1)	6100	10	mg/L	10	6200	NR	70-130	1	20	02/12/14	MS1.4 ***Low***
EPA 200.8 - Quality Control											
Batch: A315185										Prepared: 12/23/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Blank (A315185-BLK1)											
Arsenic	ND	2.0	ug/L							12/30/13	
Copper	ND	5.0	ug/L							12/30/13	
Blank Spike (A315185-BS1)											
Arsenic	190	2.0	ug/L	200		97	85-115			12/30/13	
Copper	190	5.0	ug/L	200		94	85-115			12/30/13	
Blank Spike Dup (A315185-BSD1)											
Arsenic	200	2.0	ug/L	200		98	85-115	1	20	12/30/13	
Copper	190	5.0	ug/L	200		95	85-115	1	20	12/30/13	
Matrix Spike (A315185-MS1), Source: A3L1769-01											
Arsenic	190	2.0	ug/L	200	ND	97	70-130			12/30/13	
Copper	200	5.0	ug/L	200	9.0	93	70-130			12/30/13	
Matrix Spike (A315185-MS2), Source: A3L1789-01											
Arsenic	220	10	ug/L	200	ND	111	70-130			12/30/13	
Copper	230	25	ug/L	200	38	96	70-130			12/30/13	
Matrix Spike Dup (A315185-MSD1), Source: A3L1769-01											
Arsenic	190	2.0	ug/L	200	ND	96	70-130	0	20	12/30/13	
Copper	190	5.0	ug/L	200	9.0	92	70-130	1	20	12/30/13	
Matrix Spike Dup (A315185-MSD2), Source: A3L1789-01											
Arsenic	210	10	ug/L	200	ND	107	70-130	4	20	12/30/13	
Copper	220	25	ug/L	200	38	92	70-130	4	20	12/30/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A315238										Prepared: 12/24/2013	
Prep Method: Filtration - Metals										Analyst: PSK	
Blank (A315238-BLK1)											
Strontium - Dissolved (1)	ND	1.0	ug/L							12/27/13	
Blank Spike (A315238-BS1)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		98	85-115			12/27/13	
Blank Spike Dup (A315238-BSD1)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		98	85-115	1	20	12/27/13	
Matrix Spike (A315238-MS1), Source: A3L1798-01											
Strontium - Dissolved (1)	230	1.0	ug/L	200	8600	NR	70-130			12/27/13	MS1.0 ***Low***
Matrix Spike Dup (A315238-MSD1), Source: A3L1798-01											
Strontium - Dissolved (1)	230	1.0	ug/L	200	8600	NR	70-130	3	20	12/27/13	MS1.0 ***Low***

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A315261										Prepared: 12/24/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A315261-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							12/25/13	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							12/25/13	
Surrogate: TCMX	*4.8*			*4.5*		*109*	*70-130*			12/25/13	
Blank Spike (A315261-BS1)											
Dibromochloropropane (DBCP)	0.21	0.010	ug/L	0.20		105	70-130			12/25/13	
Ethylene Dibromide (EDB)	0.22	0.020	ug/L	0.20		109	70-130			12/25/13	
Surrogate: TCMX	*5.0*			*4.5*		*112*	*70-130*			12/25/13	
Blank Spike Dup (A315261-BSD1)											
Dibromochloropropane (DBCP)	0.21	0.010	ug/L	0.20		107	70-130	2	20	12/25/13	
Ethylene Dibromide (EDB)	0.22	0.020	ug/L	0.20		111	70-130	2	20	12/25/13	
Surrogate: TCMX	*5.1*			*4.5*		*115*	*70-130*			12/25/13	
Matrix Spike (A315261-MS1), Source: A3L1733-01											
Dibromochloropropane (DBCP)	0.80	0.010	ug/L	0.20	0.73	30	65-135			12/25/13	MS1.4 ***Low***
Ethylene Dibromide (EDB)	0.22	0.020	ug/L	0.20	ND	103	65-135			12/25/13	
Surrogate: TCMX	*5.3*			*4.5*		*117*	*70-130*			12/25/13	
Matrix Spike Dup (A315261-MSD1), Source: A3L1733-01											
Dibromochloropropane (DBCP)	0.88	0.010	ug/L	0.20	0.73	70	65-135	9	20	12/25/13	
Ethylene Dibromide (EDB)	0.24	0.020	ug/L	0.20	ND	114	65-135	9	20	12/25/13	
Surrogate: TCMX	*5.7*			*4.5*		*128*	*70-130*			12/25/13	
EPA 505 - Quality Control											
Batch: A315261										Prepared: 12/24/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A315261-BLK1)											
Aldrin	ND	0.075	ug/L							12/25/13	
Chlordane	ND	0.10	ug/L							12/25/13	
Chlorothalonil	ND	5.0	ug/L							12/25/13	
Dieldrin	ND	0.020	ug/L							12/25/13	
Endrin	ND	0.10	ug/L							12/25/13	
Heptachlor	ND	0.010	ug/L							12/25/13	
Heptachlor Epoxide	ND	0.010	ug/L							12/25/13	
Hexachlorobenzene	ND	0.50	ug/L							12/25/13	
Hexachlorocyclopentadiene	ND	1.0	ug/L							12/25/13	
Lindane	ND	0.20	ug/L							12/25/13	
Methoxychlor	ND	10	ug/L							12/25/13	
PCB Aroclor Screen	ND	0.50	ug/L							12/25/13	
Toxaphene	ND	1.0	ug/L							12/25/13	
Trifluralin	ND	1.0	ug/L							12/25/13	
Surrogate: TCMX	*4.8*			*4.5*		*109*	*70-130*			12/25/13	
Blank Spike (A315261-BS1)											

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EPA 505 - Quality Control

Batch: A315261 Prepared: 12/24/2013

Prep Method: EPA 505 Analyst: GAK

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A315261-BS1)											
Aldrin	1.0	0.075	ug/L	1.0		102	70-130			12/25/13	
Chlorothalonil	10	5.0	ug/L	10		105	70-130			12/25/13	
Dieldrin	0.43	0.020	ug/L	0.40		107	70-130			12/25/13	
Endrin	0.22	0.10	ug/L	0.20		108	70-130			12/25/13	
Heptachlor	0.21	0.010	ug/L	0.20		106	70-130			12/25/13	
Heptachlor Epoxide	0.21	0.010	ug/L	0.20		106	70-130			12/25/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0		105	70-130			12/25/13	
Hexachlorocyclopentadiene	2.1	1.0	ug/L	2.0		105	70-130			12/25/13	
Lindane	0.42	0.20	ug/L	0.40		105	70-130			12/25/13	
Methoxychlor	2.3	10	ug/L	2.0		115	70-130			12/25/13	
Trifluralin	2.1	1.0	ug/L	2.0		107	70-130			12/25/13	
Surrogate: TCMX	*5.0*			*4.5*		*112*	*70-130*			12/25/13	
Blank Spike Dup (A315261-BSD1)											
Aldrin	1.1	0.075	ug/L	1.0		110	70-130	8	20	12/25/13	
Chlorothalonil	10	5.0	ug/L	10		102	70-130	2	20	12/25/13	
Dieldrin	0.43	0.020	ug/L	0.40		108	70-130	0	20	12/25/13	
Endrin	0.22	0.10	ug/L	0.20		110	70-130	1	20	12/25/13	
Heptachlor	0.22	0.010	ug/L	0.20		110	70-130	4	20	12/25/13	
Heptachlor Epoxide	0.21	0.010	ug/L	0.20		107	70-130	1	20	12/25/13	
Hexachlorobenzene	2.2	0.50	ug/L	2.0		108	70-130	3	20	12/25/13	
Hexachlorocyclopentadiene	2.2	1.0	ug/L	2.0		109	70-130	4	20	12/25/13	
Lindane	0.44	0.20	ug/L	0.40		109	70-130	4	20	12/25/13	
Methoxychlor	2.3	10	ug/L	2.0		114	70-130	2	20	12/25/13	
Trifluralin	2.2	1.0	ug/L	2.0		110	70-130	3	20	12/25/13	
Surrogate: TCMX	*5.1*			*4.5*		*115*	*70-130*			12/25/13	
Matrix Spike (A315261-MS1), Source: A3L1733-01											
Aldrin	1.1	0.075	ug/L	1.0	ND	108	65-135			12/25/13	
Chlorothalonil	10	5.0	ug/L	10	ND	99	65-135			12/25/13	
Dieldrin	0.39	0.020	ug/L	0.40	ND	96	65-135			12/25/13	
Endrin	0.21	0.10	ug/L	0.20	ND	105	65-135			12/25/13	
Heptachlor	0.22	0.010	ug/L	0.20	ND	108	65-135			12/25/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20	ND	97	65-135			12/25/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0	ND	102	65-135			12/25/13	
Hexachlorocyclopentadiene	2.2	1.0	ug/L	2.0	ND	105	65-135			12/25/13	
Lindane	0.40	0.20	ug/L	0.40	ND	98	65-135			12/25/13	
Methoxychlor	2.2	10	ug/L	2.0	ND	107	65-135			12/25/13	
Trifluralin	2.1	1.0	ug/L	2.0	ND	106	65-135			12/25/13	
Surrogate: TCMX	*5.3*			*4.5*		*117*	*70-130*			12/25/13	
Matrix Spike Dup (A315261-MSD1), Source: A3L1733-01											
Aldrin	1.2	0.075	ug/L	1.0	ND	121	65-135	11	20	12/25/13	
Chlorothalonil	11	5.0	ug/L	10	ND	107	65-135	7	20	12/25/13	
Dieldrin	0.42	0.020	ug/L	0.40	ND	106	65-135	9	20	12/25/13	
Endrin	0.22	0.10	ug/L	0.20	ND	112	65-135	5	20	12/25/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 505 - Quality Control											
Batch: A315261										Prepared: 12/24/2013	
Prep Method: EPA 505										Analyst: GAK	
Matrix Spike Dup (A315261-MSD1), Source: A3L1733-01											
Heptachlor	0.24	0.010	ug/L	0.20	ND	118	65-135	8	20	12/25/13	
Heptachlor Epoxide	0.21	0.010	ug/L	0.20	ND	106	65-135	8	20	12/25/13	
Hexachlorobenzene	2.3	0.50	ug/L	2.0	ND	113	65-135	10	20	12/25/13	
Hexachlorocyclopentadiene	2.4	1.0	ug/L	2.0	ND	117	65-135	11	20	12/25/13	
Lindane	0.44	0.20	ug/L	0.40	ND	109	65-135	10	20	12/25/13	
Methoxychlor	2.3	10	ug/L	2.0	ND	117	65-135	8	20	12/25/13	
Trifluralin	2.3	1.0	ug/L	2.0	ND	112	65-135	5	20	12/25/13	
Surrogate: TCMX	*5.7*			*4.5*		*128*	*70-130*			12/25/13	
EPA 515.3 - Quality Control											
Batch: A315300										Prepared: 12/26/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A315300-BLK1)											
2,4,5-T	ND	1.0	ug/L							12/28/13	
2,4,5-TP (Silvex)	ND	1.0	ug/L							12/28/13	
2,4-D	ND	10	ug/L							12/28/13	
Bentazon	ND	2.0	ug/L							12/28/13	
Dalapon	ND	10	ug/L							12/28/13	
Dicamba	ND	1.5	ug/L							12/28/13	
Dinoseb	ND	2.0	ug/L							12/28/13	
Pentachlorophenol	ND	0.20	ug/L							12/28/13	
Picloram	ND	1.0	ug/L							12/28/13	
Surrogate: DCPAA	*59*			*58*		*102*	*70-130*			12/28/13	
Blank Spike (A315300-BS1)											
2,4,5-T	4.7	1.0	ug/L	4.0		117	70-130			12/28/13	
2,4,5-TP (Silvex)	0.94	1.0	ug/L	0.80		117	70-130			12/28/13	
2,4-D	0.47	10	ug/L	0.40		117	70-130			12/28/13	
Bentazon	8.7	2.0	ug/L	8.0		109	70-130			12/28/13	
Dalapon	4.2	10	ug/L	4.0		106	70-130			12/28/13	
Dicamba	7.1	1.5	ug/L	6.0		118	70-130			12/28/13	
Dinoseb	0.90	2.0	ug/L	0.80		113	70-130			12/28/13	
Pentachlorophenol	0.19	0.20	ug/L	0.16		116	70-130			12/28/13	
Picloram	0.46	1.0	ug/L	0.40		116	70-130			12/28/13	
Surrogate: DCPAA	*59*			*58*		*101*	*70-130*			12/28/13	
Blank Spike Dup (A315300-BSD1)											
2,4,5-T	4.0	1.0	ug/L	4.0		100	70-130	15	20	12/28/13	
2,4,5-TP (Silvex)	0.80	1.0	ug/L	0.80		100	70-130	16	20	12/28/13	
2,4-D	0.38	10	ug/L	0.40		96	70-130	19	20	12/28/13	
Bentazon	8.1	2.0	ug/L	8.0		102	70-130	7	20	12/28/13	
Dalapon	3.9	10	ug/L	4.0		98	70-130	8	20	12/28/13	
Dicamba	5.9	1.5	ug/L	6.0		98	70-130	18	20	12/28/13	
Dinoseb	0.81	2.0	ug/L	0.80		102	70-130	10	20	12/28/13	
Pentachlorophenol	0.15	0.20	ug/L	0.16		96	70-130	19	20	12/28/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A315300										Prepared: 12/26/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A315300-BSD1)											
Picloram	0.40	1.0	ug/L	0.40		100	70-130	15	20	12/28/13	
Surrogate: DCPAA	*48*			*58*		*83*	*70-130*			12/28/13	
Matrix Spike (A315300-MS1), Source: A3L1370-07											
2,4,5-T	4.0	1.0	ug/L	4.0	ND	100	70-130			12/28/13	
2,4,5-TP (Silvex)	0.80	1.0	ug/L	0.80	ND	100	70-130			12/28/13	
2,4-D	0.40	10	ug/L	0.40	ND	99	70-130			12/28/13	
Bentazon	8.1	2.0	ug/L	8.0	ND	102	70-130			12/28/13	
Dalapon	4.2	10	ug/L	4.0	ND	106	70-130			12/28/13	
Dicamba	6.0	1.5	ug/L	6.0	ND	101	70-130			12/28/13	
Dinoseb	0.75	2.0	ug/L	0.80	ND	94	70-130			12/28/13	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	92	70-130			12/28/13	
Picloram	0.42	1.0	ug/L	0.40	ND	106	70-130			12/28/13	
Surrogate: DCPAA	*50*			*58*		*86*	*70-130*			12/28/13	
EPA 524.2 - Quality Control											
Batch: A315401										Prepared: 12/30/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A315401-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							12/30/13	
1,1,1-Trichloroethane	ND	0.50	ug/L							12/30/13	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							12/30/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							12/30/13	
1,1,2-Trichloroethane	ND	0.50	ug/L							12/30/13	
1,1-Dichloroethane	ND	0.50	ug/L							12/30/13	
1,1-Dichloroethene	ND	0.50	ug/L							12/30/13	
1,1-Dichloropropene	ND	0.50	ug/L							12/30/13	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							12/30/13	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							12/30/13	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							12/30/13	
1,2-Dichlorobenzene	ND	0.50	ug/L							12/30/13	
1,2-Dichloroethane	ND	0.50	ug/L							12/30/13	
1,2-Dichloropropane	ND	0.50	ug/L							12/30/13	
1,3,5-Trimethylbenzene	ND	0.50	ug/L							12/30/13	
1,3-Dichlorobenzene	ND	0.50	ug/L							12/30/13	
1,3-Dichloropropane	ND	0.50	ug/L							12/30/13	
1,4-Dichlorobenzene	ND	0.50	ug/L							12/30/13	
2,2-Dichloropropane	ND	0.50	ug/L							12/30/13	
2-Butanone	ND	5.0	ug/L							12/30/13	
2-Chlorotoluene	ND	0.50	ug/L							12/30/13	
2-Hexanone	ND	10	ug/L							12/30/13	
4-Chlorotoluene	ND	0.50	ug/L							12/30/13	
4-Methyl-2-pentanone	ND	5.0	ug/L							12/30/13	
Acetone	ND	10	ug/L							12/30/13	
Benzene	ND	0.50	ug/L							12/30/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A315401 Prepared: 12/30/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A315401-BLK1)											
Bromobenzene	ND	0.50	ug/L							12/30/13	
Bromochloromethane	ND	0.50	ug/L							12/30/13	
Bromodichloromethane	ND	0.50	ug/L							12/30/13	
Bromoform	ND	0.50	ug/L							12/30/13	
Bromomethane	ND	0.50	ug/L							12/30/13	
Carbon Tetrachloride	ND	0.50	ug/L							12/30/13	
Chlorobenzene	ND	0.50	ug/L							12/30/13	
Chloroethane	ND	0.50	ug/L							12/30/13	
Chloroform	ND	0.50	ug/L							12/30/13	
Chloromethane	ND	0.50	ug/L							12/30/13	
cis-1,2-Dichloroethene	ND	0.50	ug/L							12/30/13	
cis-1,3-Dichloropropene	ND	0.50	ug/L							12/30/13	
Dibromochloromethane	ND	0.50	ug/L							12/30/13	
Dibromomethane	ND	0.50	ug/L							12/30/13	
Dichlorodifluoromethane	ND	0.50	ug/L							12/30/13	
Dichloromethane	ND	0.50	ug/L							12/30/13	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							12/30/13	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							12/30/13	
Ethylbenzene	ND	0.50	ug/L							12/30/13	
Hexachlorobutadiene	ND	0.50	ug/L							12/30/13	
Isopropylbenzene	ND	0.50	ug/L							12/30/13	
m,p-Xylenes	ND	0.50	ug/L							12/30/13	
Methyl-t-butyl ether	ND	0.50	ug/L							12/30/13	
Naphthalene	ND	0.50	ug/L							12/30/13	
n-Butylbenzene	ND	0.50	ug/L							12/30/13	
n-Propylbenzene	ND	0.50	ug/L							12/30/13	
o-Xylene	ND	0.50	ug/L							12/30/13	
p-Isopropyltoluene	ND	0.50	ug/L							12/30/13	
sec-Butylbenzene	ND	0.50	ug/L							12/30/13	
Styrene	ND	0.50	ug/L							12/30/13	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							12/30/13	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							12/30/13	
tert-Butylbenzene	ND	0.50	ug/L							12/30/13	
Tetrachloroethene (PCE)	ND	0.50	ug/L							12/30/13	
Toluene	ND	0.50	ug/L							12/30/13	
trans-1,2-Dichloroethene	ND	0.50	ug/L							12/30/13	
trans-1,3-Dichloropropene	ND	0.50	ug/L							12/30/13	
Trichloroethene (TCE)	ND	0.50	ug/L							12/30/13	
Trichlorofluoromethane	ND	5.0	ug/L							12/30/13	
Vinyl Chloride	ND	0.50	ug/L							12/30/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.7*			*5.0*		*94*	*70-130*			12/30/13	
Surrogate: Bromofluorobenzene	*51*			*50*		*101*	*70-130*			12/30/13	
Blank Spike (A315401-BS1)											
1,1,1,2-Tetrachloroethane	9.5	0.50	ug/L	10		95	70-130			12/30/13	
1,1,1-Trichloroethane	10	0.50	ug/L	10		101	70-130			12/30/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A315401 Prepared: 12/30/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A315401-BS1)											
1,1,2,2-Tetrachloroethane	10	0.50	ug/L	10		102	70-130			12/30/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	9.4	10	ug/L	10		94	70-130			12/30/13	
1,1,2-Trichloroethane	10	0.50	ug/L	10		100	70-130			12/30/13	
1,1-Dichloroethane	10	0.50	ug/L	10		101	70-130			12/30/13	
1,1-Dichloroethene	10	0.50	ug/L	10		101	70-130			12/30/13	
1,1-Dichloropropene	11	0.50	ug/L	10		106	70-130			12/30/13	
1,2,3-Trichlorobenzene	9.2	0.50	ug/L	10		92	70-130			12/30/13	
1,2,4-Trichlorobenzene	9.5	0.50	ug/L	10		95	70-130			12/30/13	
1,2,4-Trimethylbenzene	9.7	0.50	ug/L	10		97	70-130			12/30/13	
1,2-Dichlorobenzene	9.3	0.50	ug/L	10		93	70-130			12/30/13	
1,2-Dichloroethane	9.8	0.50	ug/L	10		98	70-130			12/30/13	
1,2-Dichloropropane	7.7	0.50	ug/L	10		77	70-130			12/30/13	
1,3,5-Trimethylbenzene	10	0.50	ug/L	10		104	70-130			12/30/13	
1,3-Dichlorobenzene	9.4	0.50	ug/L	10		94	70-130			12/30/13	
1,3-Dichloropropane	8.8	0.50	ug/L	10		88	70-130			12/30/13	
1,4-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130			12/30/13	
2,2-Dichloropropane	10	0.50	ug/L	10		105	70-130			12/30/13	
2-Butanone	8.1	5.0	ug/L	10		81	70-130			12/30/13	
2-Chlorotoluene	9.7	0.50	ug/L	10		97	70-130			12/30/13	
2-Hexanone	11	10	ug/L	10		105	70-130			12/30/13	
4-Chlorotoluene	10	0.50	ug/L	10		102	70-130			12/30/13	
4-Methyl-2-pentanone	8.7	5.0	ug/L	10		87	70-130			12/30/13	
Acetone	9.1	10	ug/L	10		91	70-130			12/30/13	
Benzene	8.1	0.50	ug/L	10		81	70-130			12/30/13	
Bromobenzene	9.8	0.50	ug/L	10		98	70-130			12/30/13	
Bromochloromethane	9.0	0.50	ug/L	10		90	70-130			12/30/13	
Bromodichloromethane	9.9	0.50	ug/L	10		99	70-130			12/30/13	
Bromoform	9.1	0.50	ug/L	10		91	70-130			12/30/13	
Bromomethane	10	0.50	ug/L	10		103	70-130			12/30/13	
Carbon Tetrachloride	10	0.50	ug/L	10		100	70-130			12/30/13	
Chlorobenzene	9.3	0.50	ug/L	10		93	70-130			12/30/13	
Chloroethane	9.8	0.50	ug/L	10		98	70-130			12/30/13	
Chloroform	10	0.50	ug/L	10		100	70-130			12/30/13	
Chloromethane	8.4	0.50	ug/L	10		84	70-130			12/30/13	
cis-1,2-Dichloroethene	9.8	0.50	ug/L	10		98	70-130			12/30/13	
cis-1,3-Dichloropropene	9.9	0.50	ug/L	10		99	70-130			12/30/13	
Dibromochloromethane	8.2	0.50	ug/L	10		82	70-130			12/30/13	
Dibromomethane	8.6	0.50	ug/L	10		86	70-130			12/30/13	
Dichlorodifluoromethane	11	0.50	ug/L	10		106	70-130			12/30/13	
Dichloromethane	9.9	0.50	ug/L	10		99	70-130			12/30/13	
Di-isopropyl ether (DIPE)	8.8	3.0	ug/L	10		88	70-130			12/30/13	
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		102	70-130			12/30/13	
Ethylbenzene	9.5	0.50	ug/L	10		95	70-130			12/30/13	
Hexachlorobutadiene	9.6	0.50	ug/L	10		96	70-130			12/30/13	
Isopropylbenzene	9.8	0.50	ug/L	10		98	70-130			12/30/13	
m,p-Xylenes	19	0.50	ug/L	20		97	70-130			12/30/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A315401 Prepared: 12/30/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A315401-BS1)												
Methyl-t-butyl ether	21	0.50	ug/L	20		103	70-130			12/30/13		
Naphthalene	8.7	0.50	ug/L	10		87	70-130			12/30/13		
n-Butylbenzene	9.1	0.50	ug/L	10		91	70-130			12/30/13		
n-Propylbenzene	9.7	0.50	ug/L	10		97	70-130			12/30/13		
o-Xylene	11	0.50	ug/L	10		108	70-130			12/30/13		
p-Isopropyltoluene	9.6	0.50	ug/L	10		96	70-130			12/30/13		
sec-Butylbenzene	9.6	0.50	ug/L	10		96	70-130			12/30/13		
Styrene	18	0.50	ug/L	10		183	70-130			12/30/13	BS	***High***
tert-Amyl Methyl Ether (TAME)	8.4	3.0	ug/L	10		84	70-130			12/30/13		
tert-Butyl alcohol (TBA)	7.4	2.0	ug/L	10		74	70-130			12/30/13		
tert-Butylbenzene	9.6	0.50	ug/L	10		96	70-130			12/30/13		
Tetrachloroethene (PCE)	8.5	0.50	ug/L	10		85	70-130			12/30/13		
Toluene	9.9	0.50	ug/L	10		99	70-130			12/30/13		
trans-1,2-Dichloroethene	10	0.50	ug/L	10		100	70-130			12/30/13		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		105	70-130			12/30/13		
Trichloroethene (TCE)	9.1	0.50	ug/L	10		91	70-130			12/30/13		
Trichlorofluoromethane	9.8	5.0	ug/L	10		98	70-130			12/30/13		
Vinyl Chloride	11	0.50	ug/L	10		108	70-130			12/30/13		
Surrogate: 1,2-Dichlorobenzene-d4	*5.1*			*5.0*		*102*	*70-130*			12/30/13		
Surrogate: Bromofluorobenzene	*50*			*50*		*101*	*70-130*			12/30/13		
Blank Spike Dup (A315401-BSD1)												
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		101	70-130	7	30	12/30/13		
1,1,1-Trichloroethane	9.5	0.50	ug/L	10		95	70-130	7	30	12/30/13		
1,1,2,2-Tetrachloroethane	10	0.50	ug/L	10		100	70-130	2	30	12/30/13		
1,1,2-Trichloro-1,2,2-trifluoroethane	9.6	10	ug/L	10		96	70-130	2	30	12/30/13		
1,1,2-Trichloroethane	10	0.50	ug/L	10		103	70-130	3	30	12/30/13		
1,1-Dichloroethane	10	0.50	ug/L	10		104	70-130	3	30	12/30/13		
1,1-Dichloroethene	10	0.50	ug/L	10		101	70-130	0	30	12/30/13		
1,1-Dichloropropene	9.8	0.50	ug/L	10		98	70-130	8	30	12/30/13		
1,2,3-Trichlorobenzene	9.7	0.50	ug/L	10		97	70-130	5	30	12/30/13		
1,2,4-Trichlorobenzene	9.9	0.50	ug/L	10		99	70-130	4	30	12/30/13		
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		100	70-130	3	30	12/30/13		
1,2-Dichlorobenzene	10	0.50	ug/L	10		103	70-130	10	30	12/30/13		
1,2-Dichloroethane	10	0.50	ug/L	10		105	70-130	6	30	12/30/13		
1,2-Dichloropropane	10	0.50	ug/L	10		104	70-130	29	30	12/30/13		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		106	70-130	2	30	12/30/13		
1,3-Dichlorobenzene	11	0.50	ug/L	10		106	70-130	11	30	12/30/13		
1,3-Dichloropropane	10	0.50	ug/L	10		102	70-130	15	30	12/30/13		
1,4-Dichlorobenzene	9.9	0.50	ug/L	10		99	70-130	2	30	12/30/13		
2,2-Dichloropropane	11	0.50	ug/L	10		108	70-130	3	30	12/30/13		
2-Butanone	10	5.0	ug/L	10		102	70-130	23	30	12/30/13		
2-Chlorotoluene	9.8	0.50	ug/L	10		98	70-130	1	30	12/30/13		
2-Hexanone	9.9	10	ug/L	10		99	70-130	6	30	12/30/13		
4-Chlorotoluene	10	0.50	ug/L	10		103	70-130	1	30	12/30/13		
4-Methyl-2-pentanone	8.9	5.0	ug/L	10		89	70-130	3	30	12/30/13		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A315401 Prepared: 12/30/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A315401-BSD1)												
Acetone	11	10	ug/L	10		105	70-130	15	30	12/30/13		
Benzene	10	0.50	ug/L	10		102	70-130	23	30	12/30/13		
Bromobenzene	9.7	0.50	ug/L	10		97	70-130	1	30	12/30/13		
Bromochloromethane	10	0.50	ug/L	10		101	70-130	11	30	12/30/13		
Bromodichloromethane	10	0.50	ug/L	10		105	70-130	6	30	12/30/13		
Bromoform	10	0.50	ug/L	10		102	70-130	11	30	12/30/13		
Bromomethane	7.4	0.50	ug/L	10		74	70-130	34	30	12/30/13	BS3.0	
Carbon Tetrachloride	9.8	0.50	ug/L	10		98	70-130	2	30	12/30/13		
Chlorobenzene	10	0.50	ug/L	10		101	70-130	8	30	12/30/13		
Chloroethane	9.8	0.50	ug/L	10		98	70-130	0	30	12/30/13		
Chloroform	10	0.50	ug/L	10		103	70-130	3	30	12/30/13		
Chloromethane	8.2	0.50	ug/L	10		82	70-130	3	30	12/30/13		
cis-1,2-Dichloroethene	10	0.50	ug/L	10		103	70-130	5	30	12/30/13		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		107	70-130	7	30	12/30/13		
Dibromochloromethane	10	0.50	ug/L	10		100	70-130	19	30	12/30/13		
Dibromomethane	10	0.50	ug/L	10		102	70-130	18	30	12/30/13		
Dichlorodifluoromethane	9.3	0.50	ug/L	10		93	70-130	12	30	12/30/13		
Dichloromethane	10	0.50	ug/L	10		104	70-130	5	30	12/30/13		
Di-isopropyl ether (DIPE)	9.7	3.0	ug/L	10		97	70-130	10	30	12/30/13		
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		102	70-130	0	30	12/30/13		
Ethylbenzene	10	0.50	ug/L	10		100	70-130	6	30	12/30/13		
Hexachlorobutadiene	10	0.50	ug/L	10		101	70-130	5	30	12/30/13		
Isopropylbenzene	9.7	0.50	ug/L	10		97	70-130	1	30	12/30/13		
m,p-Xylenes	20	0.50	ug/L	20		98	70-130	1	30	12/30/13		
Methyl-t-butyl ether	21	0.50	ug/L	20		104	70-130	2	30	12/30/13		
Naphthalene	9.1	0.50	ug/L	10		91	70-130	4	30	12/30/13		
n-Butylbenzene	9.5	0.50	ug/L	10		95	70-130	4	30	12/30/13		
n-Propylbenzene	9.7	0.50	ug/L	10		97	70-130	0	30	12/30/13		
o-Xylene	11	0.50	ug/L	10		108	70-130	1	30	12/30/13		
p-Isopropyltoluene	9.7	0.50	ug/L	10		97	70-130	1	30	12/30/13		
sec-Butylbenzene	9.8	0.50	ug/L	10		98	70-130	1	30	12/30/13		
Styrene	19	0.50	ug/L	10		187	70-130	2	30	12/30/13	BS	***High***
tert-Amyl Methyl Ether (TAME)	9.4	3.0	ug/L	10		94	70-130	11	30	12/30/13		
tert-Butyl alcohol (TBA)	9.7	2.0	ug/L	10		97	70-130	27	30	12/30/13		
tert-Butylbenzene	9.7	0.50	ug/L	10		97	70-130	1	30	12/30/13		
Tetrachloroethene (PCE)	9.8	0.50	ug/L	10		98	70-130	14	30	12/30/13		
Toluene	9.9	0.50	ug/L	10		99	70-130	0	30	12/30/13		
trans-1,2-Dichloroethene	10	0.50	ug/L	10		103	70-130	2	30	12/30/13		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		108	70-130	3	30	12/30/13		
Trichloroethene (TCE)	10	0.50	ug/L	10		103	70-130	12	30	12/30/13		
Trichlorofluoromethane	10	5.0	ug/L	10		100	70-130	2	30	12/30/13		
Vinyl Chloride	10	0.50	ug/L	10		104	70-130	4	30	12/30/13		
Surrogate: 1,2-Dichlorobenzene-d4	*5.1*			*5.0*		*103*	*70-130*			12/30/13		
Surrogate: Bromofluorobenzene	*51*			*50*		*101*	*70-130*			12/30/13		

Organics Quality Control Report

EPA 525.2 - Quality Control

Batch: A315174 Prepared: 12/23/2013

Prep Method: EPA 525.2 Analyst: KHH

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank (A315174-BLK1)												
Alachlor	ND	1.0	ug/L							12/23/13		
Atrazine	ND	0.50	ug/L							12/23/13		
Benzo(a)pyrene	ND	0.10	ug/L							12/23/13		
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							12/23/13		
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							12/23/13		
Bromacil	ND	10	ug/L							12/23/13		
Butachlor	ND	0.38	ug/L							12/23/13		
Diazinon	ND	0.25	ug/L							12/23/13		
Dimethoate	ND	10	ug/L							12/23/13		
Metolachlor	ND	0.50	ug/L							12/23/13		
Metribuzin	ND	0.50	ug/L							12/23/13		
Molinate	ND	2.0	ug/L							12/23/13		
Propachlor	ND	0.50	ug/L							12/23/13		
Simazine	ND	1.0	ug/L							12/23/13		
Thiobencarb	ND	1.0	ug/L							12/23/13		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.2*			*5.0*		*103*	*70-130*			12/23/13		
Blank Spike (A315174-BS1)												
Alachlor	0.54	1.0	ug/L	0.50		107	70-130			12/24/13		
Atrazine	0.53	0.50	ug/L	0.50		105	70-130			12/24/13		
Benzo(a)pyrene	0.13	0.10	ug/L	0.10		125	70-130			12/24/13		
Bis(2-ethylhexyl) adipate	3.0	3.0	ug/L	3.0		101	70-130			12/24/13		
Bis(2-ethylhexyl) phthalate	3.3	3.0	ug/L	3.0		108	70-130			12/24/13		
Bromacil	2.6	10	ug/L	2.0		131	70-130			12/24/13	BS	***High***
Butachlor	1.5	0.38	ug/L	1.3		117	70-130			12/24/13		
Diazinon	0.043	0.25	ug/L	0.050		86	70-130			12/24/13		
Dimethoate	0.63	10	ug/L	0.50		124	70-130			12/24/13		
Metolachlor	3.0	0.50	ug/L	2.5		118	70-130			12/24/13		
Metribuzin	3.0	0.50	ug/L	2.5		117	70-130			12/24/13		
Molinate	2.7	2.0	ug/L	2.5		105	70-130			12/24/13		
Propachlor	2.8	0.50	ug/L	2.5		110	70-130			12/24/13		
Simazine	0.39	1.0	ug/L	0.35		111	70-130			12/24/13		
Thiobencarb	0.55	1.0	ug/L	0.50		110	70-130			12/24/13		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.8*			*5.0*		*96*	*70-130*			12/24/13		
Blank Spike Dup (A315174-BSD1)												
Alachlor	0.50	1.0	ug/L	0.50		101	70-130	7	30	12/23/13		
Atrazine	0.53	0.50	ug/L	0.50		106	70-130	0	30	12/23/13		
Benzo(a)pyrene	0.13	0.10	ug/L	0.10		128	70-130	1	30	12/23/13		
Bis(2-ethylhexyl) adipate	3.0	3.0	ug/L	3.0		101	70-130	1	30	12/23/13		
Bis(2-ethylhexyl) phthalate	3.3	3.0	ug/L	3.0		111	70-130	2	30	12/23/13		
Bromacil	2.3	10	ug/L	2.0		115	70-130	14	30	12/23/13		
Butachlor	1.3	0.38	ug/L	1.2		108	70-130	8	30	12/23/13		
Diazinon	0.035	0.25	ug/L	0.050		70	70-130	22	30	12/23/13		
Dimethoate	0.55	10	ug/L	0.50		111	70-130	12	30	12/23/13		
Metolachlor	2.7	0.50	ug/L	2.5		110	70-130	8	30	12/23/13		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A315174										Prepared: 12/23/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank Spike Dup (A315174-BSD1)											
Metribuzin	2.9	0.50	ug/L	2.5		114	70-130	4	30	12/23/13	
Molinate	2.7	2.0	ug/L	2.5		107	70-130	1	30	12/23/13	
Propachlor	2.7	0.50	ug/L	2.5		108	70-130	3	30	12/23/13	
Simazine	0.40	1.0	ug/L	0.35		115	70-130	2	30	12/23/13	
Thiobencarb	0.57	1.0	ug/L	0.50		113	70-130	2	30	12/23/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*5.0*		*100*	*70-130*			12/23/13	
Matrix Spike (A315174-MS1), Source: A3L1502-01											
Alachlor	0.53	1.0	ug/L	0.50	ND	106	70-130			12/23/13	
Atrazine	0.56	0.50	ug/L	0.50	ND	113	70-130			12/23/13	
Benzo(a)pyrene	0.12	0.10	ug/L	0.10	ND	122	70-130			12/23/13	
Bis(2-ethylhexyl) adipate	3.0	3.0	ug/L	3.0	ND	101	70-130			12/23/13	
Bis(2-ethylhexyl) phthalate	3.1	3.0	ug/L	3.0	ND	104	70-130			12/23/13	
Bromacil	2.5	10	ug/L	2.0	ND	125	70-130			12/23/13	
Butachlor	1.4	0.38	ug/L	1.2	ND	111	70-130			12/23/13	
Diazinon	0.047	0.25	ug/L	0.050	ND	94	70-130			12/23/13	
Dimethoate	0.60	10	ug/L	0.50	ND	121	70-130			12/23/13	
Metolachlor	2.8	0.50	ug/L	2.5	ND	112	70-130			12/23/13	
Metribuzin	2.9	0.50	ug/L	2.5	ND	117	70-130			12/23/13	
Molinate	2.7	2.0	ug/L	2.5	ND	109	70-130			12/23/13	
Propachlor	2.7	0.50	ug/L	2.5	ND	108	70-130			12/23/13	
Simazine	0.40	1.0	ug/L	0.35	ND	115	70-130			12/23/13	
Thiobencarb	0.54	1.0	ug/L	0.50	ND	108	70-130			12/23/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*5.0*		*100*	*70-130*			12/23/13	
EPA 531.1 - Quality Control											
Batch: A315375										Prepared: 12/27/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A315375-BLK1)											
3-Hydroxycarbofuran	ND	3.0	ug/L							12/28/13	
Aldicarb	ND	3.0	ug/L							12/28/13	
Aldicarb Sulfone	ND	2.0	ug/L							12/28/13	
Aldicarb Sulfoxide	ND	3.0	ug/L							12/28/13	
Carbaryl	ND	5.0	ug/L							12/28/13	
Carbofuran	ND	5.0	ug/L							12/28/13	
Methomyl	ND	2.0	ug/L							12/28/13	
Oxamyl	ND	20	ug/L							12/28/13	
Blank Spike (A315375-BS1)											
3-Hydroxycarbofuran	4.4	3.0	ug/L	4.2		105	80-120			12/28/13	
Aldicarb	4.0	3.0	ug/L	4.2		97	80-120			12/28/13	
Aldicarb Sulfone	4.4	2.0	ug/L	4.2		107	80-120			12/28/13	
Aldicarb Sulfoxide	4.5	3.0	ug/L	4.2		108	80-120			12/28/13	
Carbaryl	4.2	5.0	ug/L	4.2		100	80-120			12/28/13	
Carbofuran	4.6	5.0	ug/L	4.2		110	80-120			12/28/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A315375										Prepared: 12/27/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank Spike (A315375-BS1)											
Methomyl	4.4	2.0	ug/L	4.2		105	80-120			12/28/13	
Oxamyl	4.5	20	ug/L	4.2		108	80-120			12/28/13	
Blank Spike Dup (A315375-BSD1)											
3-Hydroxycarbofuran	4.1	3.0	ug/L	4.2		98	80-120	6	20	12/28/13	
Aldicarb	3.8	3.0	ug/L	4.2		90	80-120	7	20	12/28/13	
Aldicarb Sulfone	4.0	2.0	ug/L	4.2		97	80-120	10	20	12/28/13	
Aldicarb Sulfoxide	4.1	3.0	ug/L	4.2		97	80-120	11	20	12/28/13	
Carbaryl	3.9	5.0	ug/L	4.2		94	80-120	7	20	12/28/13	
Carbofuran	4.2	5.0	ug/L	4.2		100	80-120	9	20	12/28/13	
Methomyl	4.0	2.0	ug/L	4.2		96	80-120	8	20	12/28/13	
Oxamyl	4.1	20	ug/L	4.2		98	80-120	9	20	12/28/13	
Matrix Spike (A315375-MS1), Source: A3L1685-01											
3-Hydroxycarbofuran	4.1	3.0	ug/L	4.2	ND	98	65-135			12/28/13	
Aldicarb	3.9	3.0	ug/L	4.2	ND	93	65-135			12/28/13	
Aldicarb Sulfone	4.2	2.0	ug/L	4.2	ND	100	65-135			12/28/13	
Aldicarb Sulfoxide	4.2	3.0	ug/L	4.2	ND	101	65-135			12/28/13	
Carbaryl	4.0	5.0	ug/L	4.2	ND	96	65-135			12/28/13	
Carbofuran	4.2	5.0	ug/L	4.2	ND	101	65-135			12/28/13	
Methomyl	4.1	2.0	ug/L	4.2	ND	98	65-135			12/28/13	
Oxamyl	4.2	20	ug/L	4.2	ND	100	65-135			12/28/13	
EPA 547 - Quality Control											
Batch: A315140										Prepared: 12/21/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank (A315140-BLK1)											
Glyphosate	ND	25	ug/L							12/21/13	
Surrogate: AMPA	*100*			*100*		*101*	*70-130*			12/21/13	
Blank Spike (A315140-BS1)											
Glyphosate	95	25	ug/L	100		94	70-130			12/21/13	
Surrogate: AMPA	*110*			*100*		*107*	*70-130*			12/21/13	
Blank Spike Dup (A315140-BSD1)											
Glyphosate	100	25	ug/L	100		100	70-130	7	30	12/21/13	
Surrogate: AMPA	*110*			*100*		*106*	*70-130*			12/21/13	
Matrix Spike (A315140-MS1), Source: A3L1380-01											
Glyphosate	110	25	ug/L	100	ND	106	70-130			12/21/13	
Surrogate: AMPA	*110*			*100*		*108*	*70-130*			12/21/13	
Matrix Spike Dup (A315140-MSD1), Source: A3L1380-01											
Glyphosate	96	25	ug/L	100	ND	96	70-130	9	30	12/21/13	
Surrogate: AMPA	*100*			*100*		*105*	*70-130*			12/21/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 548.1 - Quality Control											
Batch: A315232										Prepared: 12/23/2013	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A315232-BLK1)											
Endothall	ND	45	ug/L							12/26/13	
Blank Spike (A315232-BS1)											
Endothall	19	45	ug/L	20		95	60-111			12/26/13	
Blank Spike Dup (A315232-BSD1)											
Endothall	16	45	ug/L	20		81	60-111	16	46	12/26/13	
Matrix Spike (A315232-MS1), Source: A3L1502-01											
Endothall	13	45	ug/L	20	ND	63	10-122			12/26/13	
EPA 549.2 - Quality Control											
Batch: A315144										Prepared: 12/21/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A315144-BLK1)											
Diquat	ND	4.0	ug/L							12/26/13	
Blank Spike (A315144-BS1)											
Diquat	3.6	4.0	ug/L	4.0		90	70-130			12/26/13	
Blank Spike Dup (A315144-BSD1)											
Diquat	3.7	4.0	ug/L	4.0		93	70-130	4	30	12/26/13	
Matrix Spike (A315144-MS1), Source: A3L1441-01											
Diquat	3.6	4.0	ug/L	4.0	ND	91	70-130			12/26/13	
Matrix Spike (A315144-MS2), Source: A3L1451-01											
Diquat	3.7	4.0	ug/L	4.0	ND	92	70-130			12/26/13	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA
State of California - NELAP	04227CA	State of Oregon	4017
State of Washington	C997	State of Oregon - NWTPH	4021

BSK is not accredited under the NELAC program for the following parameters:

Boron
Silica (SiO2)
Strontium
Threshold Odor

A3L1789

California American Water

Calif3295

12202013

Turnaround: Standard

Due Date: 01/06/2014

Printed: 12/20/2013 18:17:15

BSK Associates
Engineers & Laboratories
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

A3L1789 12/20/2013
Calif3295 10

*Required Fields

Temp: 0.4

Company/Client Name*: California American Water	Report Attention*: Travis Peterson Additional co's: Sarp Sekeroglu, RBF Consulting	Invoice To*: Accounts Payable PO#	Phone*: (831) 646-3295/(831) 646-3269 Fax*: (831) 333-1343 E-mail*: susan.jacobson@amwater.com,travis.peterson@amwater.com
Address*: PO Box 951	City*: Monterey	State*: CA	Zip*: 93942-0951
Project: Water Quality Analysis — MPWSP	Project #		
Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type:	How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail		
Sampler Name (Printed/Signature)*: Nathan Reynolds	TAT* **Surcharge ☒ Standard - 10 Business Days ☐ **Rush: Date Needed		

Regulatory Carbon Copies: CDPH ☐ Fresno Co ☐ Merced Co ☐ Tulare Co ☐ Madera Co ☐ Other

Regulatory Compliance: ☐ EDT to California DPH; System Number*: ; ☐ Geotracker #:

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	Alkalinity, Hardness, MBAS,Color, Odor, TDS, pH, Turbidity, EC	Mass Balance-Dissolved: Cations and Anions	Dissolved Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na, Sr, silica	Total Metals: Al, As, Cu, Fe, Mn, Zn	Dissolved: Bromide, Chloride, Nitrite, Fluoride, Sulfate, Orthophosphate-P	Dissolved: Ammonia, TKN, Phosphorus	Nitrate+Nitrite as N, Nitrate-NO3,	EPA 524, 504, 505, 515, 525, 531, 547, 548, 549	EXT-Tritium, EXT-Lithium, EXT-Dissolved Iodide, EXT-Dioxin
27	ML-2 Zone#1 (167-177 ft bgs)	12-17-13	16:45	water	Seawater salinity levels.	X	X	X	X	X	X	X	X	X
					Lab to filter dissolved metals.									
					Lab to filter Diss. Ammonia, TKN, P									
					[redacted]									

Field Parameters: Temp = 17.3 °C
pH = 6.86
SpCond = 34730 µS/cm
Turb = 1.68 NTU

Relinquished by: (Signature and Printed Name) Nathan Reynolds	Company GEOSCIENCE	Date 12/18	Time 9:00am	Received by: (Signature and Printed Name)	Company RBF
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Received for Lab by: (Signature and Printed Name)		Date 12/20/13	Time 1510	Payment Received at Delivery: Date: Amount: PIA#: Check / Cash Init.	

Shipping Method: ONTRAC / UPS GSO WALK-IN FED EX Courier:
Cooling Method: Wet Blue None
Custody Seal: Y N
Chilling Process Begun: Y N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

SR-FL-0012-05 Analytical Chain of Custody

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received — "_" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—	2C,1B,1A					
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—	2B					
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N	1A					
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—	2C,1A,1B					
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2C,2A					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	7V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	7V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

12/20/13

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Out of odor HT. + others

Labeled by: NR @ 1758 Labels checked by: G-7H @ 17:59 RUSH Paged by:

External

A3L1789

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 01/07/14 13:49
Received Date: 12/24/13 08:35
Turnaround Time: Normal

Project: A3L1789

Phones: (559) 497-2888
Fax: (559) 485-6935

P.O. #:

Attn: Michael Ng

Client: BSK Analytical Laboratories
550 West Locust Avenue
Fresno, CA 93650

Dear Michael Ng :

Enclosed are the results of analyses for samples received 12/24/2013 with the Chain of Custody document. The samples were received in good condition, at 3.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 3L24020-01 **Sample ID:** A3L1789-01 **Matrix:** Water
Sampled by: Client **Sampled:** 12/17/13 16:45

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lithium, Total	**270**		10	ug/l	1	EPA 200.7	12/26/13	12/27/13 15:46	W3L1292	
Iodide, Dissolved	**920**		250	ug/l	25	EPA 9056A	1/2/14	1/2/14 19:27	W4A0050	

Weck Laboratories, Inc.
Analytical Laboratory Services Since 1964

Certificate of Analysis

Quality Control Section

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4A0050 - EPA 9056A

Blank (W4A0050-BLK1) — Prepared: 01/02/14 Analyzed: 01/02/14 19:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		ND		ug/l					

LCS (W4A0050-BS1) — Prepared: 01/02/14 Analyzed: 01/02/14 19:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		40.4		ug/l	40.0	101	85-115		

Duplicate (W4A0050-DUP1) — Source: 3L24019-01 — Prepared: 01/02/14 Analyzed: 01/02/14 19:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	362	318		ug/l				13	20

Matrix Spike (W4A0050-MS1) — Source: 3L24020-01 — Prepared: 01/02/14 Analyzed: 01/02/14 19:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	920	2640		ug/l	2000	86	80-120		

Matrix Spike Dup (W4A0050-MSD1) — Source: 3L24020-01 — Prepared: 01/02/14 Analyzed: 01/02/14 19:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	920	2820		ug/l	2000	95	80-120	6	20

Metals by EPA 200 Series Methods - Quality Control

Batch W3L1292 - EPA 200.7

Blank (W3L1292-BLK1) — Prepared: 12/26/13 Analyzed: 12/27/13 15:32

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		ND		ug/l					

LCS (W3L1292-BS1) — Prepared: 12/26/13 Analyzed: 12/27/13 15:40

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		947		ug/l	1000	95	85-115		

Matrix Spike (W3L1292-MS1) — Source: 3L26025-01 — Prepared: 12/26/13 Analyzed: 12/27/13 15:55

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	2.09	934		ug/l	1000	93	70-130		

Matrix Spike Dup (W3L1292-MSD1) — Source: 3L26025-01 — Prepared: 12/26/13 Analyzed: 12/27/13 15:58

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	2.09	943		ug/l	1000	94	70-130	0.9	30

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Analytical Laboratory Service - Since 1954

Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature
Contact: Kim G Tu (Project Manager)

ISO 17025

NELAP ACCREDITED TNI LABORATORY

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

January 13, 2014

Mr. Michael Ng
BSK Analytical Laboratories
1414 Stanislaus St.
Fresno, CA 93706

RE: Project: A3L1789
Pace Project No.: 30110777

Dear Mr. Ng:
Enclosed are the analytical results for sample(s) received by the laboratory on January 03, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

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(724)850-5600

CERTIFICATIONS

Project: A3L1789
Pace Project No.: 30110777

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE SUMMARY

Project: A3L1789
Pace Project No.: 30110777

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30110777001	**A3L1789-01**	Water	12/17/13 16:45	01/03/14 10:05

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SAMPLE ANALYTE COUNT

Project: A3L1789
Pace Project No.: 30110777

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30110777001	**A3L1789-01**	EPA 906.0	SLA	1	PASI-PA

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PROJECT NARRATIVE

Project: A3L1789
Pace Project No.: 30110777

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: BSK Analytical Laboratories
Date: January 13, 2014

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: A3L1789
Pace Project No.: 30110777

Sample: A3L1789-01 **Lab ID: 30110777001** Collected: 12/17/13 16:45 Received: 01/03/14 10:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**-4.86 ± 115 (204)**	pCi/L	01/12/14 22:36	10028-17-8	

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QUALITY CONTROL DATA

Project: A3L1789
Pace Project No.: 30110777

QC Batch: RADC/18325 Analysis Method: EPA 906.0
QC Batch Method: EPA 906.0 Analysis Description: 906.0 Tritium
Associated Lab Samples: 30110777001

METHOD BLANK: 677836 Matrix: Water
Associated Lab Samples: 30110777001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	23.8 ± 114 (200)	pCi/L	01/12/14 13:26	

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QUALIFIERS

Project: A3L1789
Pace Project No.: 30110777

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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BSK Analytical Laboratories
Engineering Laboratories

SUBCONTRACT ORDER

A3L1789

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Radiochem
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600
Fax: (724) 722-5208
Turnaround (Days): ~~Standard~~
QC Deliverables: I ~~Std~~ III IV

30110777

Sample ID	Samp Desc	Comments	Sample Date
A3L1789-01	ML-Z Zone#1 (167-177 ft bgs)		**12/17/2013 16:45** 001
Matrix: Water	Analysis 250 ml AL w/ NONE EXT-Tritium	OK to run out of Hold Time Non preserved glass container	

Released By 12/26/13 Date Received By 1-3-14/1005 Date

Released By Date Received By Date

Sample Condition Upon Receipt

Pace Analytical

Client Name: BSK Project # 30110777

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 1Z 93X 911 03 6044 6317

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Styrofoam

Thermometer Used 5 6 7 Type of Ice: Wet Blue (None) ☐ Samples on ice, cooling process has begun

Cooler Temperature N/A Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C.

Date and Initials of person examining contents: MAT 1-3-14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed: MAT Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 1/13/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Page 10 of 12

F-ALL-C003-6 SCURF front 2April2012.xls

Pace Analytical

page 2

Project Number: 3016777

Client Name: P&G

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other

QA Assessment Spreadsheet
PACE Analytical Services

Quality Control Sample Performance Assessment

Analyst:	SLA		
Date:	1/13/2014	Method:	EPA 906.0
Worklist:	18325	SOP:	PGH-R-021
Matrix:	DW	MB Sample ID:	677836

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	23.8400	114.4000	209.1000	94.99000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	1/13/14 0:39	1/13/14 1:40				
Spike I.D.:	10-003	10-003				
Spike Concentration (pCi/L):	2503.320	2503.304				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.103	0.102				
Target Conc. (pCi/L, g, F):	2423.350	2451.576				
1.96 Sigma Uncertainty (Calculated):	66.497	67.271				
Result (pCi/L, g, F):	2280.550	1963.250				
1.96 Sigma Unc:	228.300	204.900				
% Recovery:	94.11%	79.67%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y
Analyte:	Tritium
Sample I.D.:	LCS18325
Duplicate Sample I.D.:	LCSD18325
Sample Result (pCi/L, g, F):	2280.5500
1.96 Sigma Unc:	228.3000
Sample Duplicate Result (pCi/L, g, F):	1963.2500
Duplicate Sample 1.96 Sigma Unc.:	204.9000
Either results below MDC?	NO
Relative Percent Difference:	15.46%
Assessment:	Pass
% RPD Limit:	25.00%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Sample Matrix Spike Control Assessment

Analyte:	Tritium	Tritium
Sample Collection Date:	12/16/2013	12/30/2013
Sample I.D.	92183458001	30110753001
Sample MS I.D.	92183458001MS	30110753001MS
Sample MSD I.D.		
Spike I.D.:	10-003	10-003
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2514.142	2508.731
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):	0.1055	0.1041
MS Target Conc.(pCi/L, g, F):	4721.837	4821.237
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike uncertainty (calculated):	129.567	132.295
MSD Spike uncertainty (calculated):		
Sample Result:	58.280	31.280
Sample 1.96 Sigma Unc.:	123.600	116.000
Sample Matrix Spike Result:	4443.680	4304.400
Sample MS 1.96 Sigma Unc.:	238.200	295.000
Sample Matrix Spike Duplicate Result:		
Sample MSD 1.96 Sigma Unc.:		
MS % Recovery:	92.88%	88.63%
MSD % Recovery:		
MS Assessment:	Pass	Pass
MSD Assessment:		
MS/MSD Upper % Recovery Limits:	125.00%	125.00%
MS/MSD Lower % Recovery Limits:	75.00%	75.00%

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.:			
Sample MSD I.D.:			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

1/13/14

Maxxam

nelac

Your Project #: A3L1789
Your C.O.C. #: na

Attention:Michael Ng

BSK Analytical Laboratories
1414 Stanislaus Street
Fresno, CA
USA 93706

Report Date: 2014/01/27
Report #: R2806448
Version: 1

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B402009
Received: 2014/01/07, 14:30

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
2,3,7,8-TCDD in Water (1613B)	1	2014/01/15	2014/01/26	BRL SOP-00410	EPA 1613B mod.

Remarks:

The lab certifies that the test results meet all requirements of NELAC, where applicable.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Marsela Wijaya
27 Jan 2014 17 31:39 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ivana Vukovic, Env Project Manager
Email: IVukovic@maxxam.ca
Phone# (905) 817-5700

==========

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Maxxam

Maxxam Job #: B402009
Report Date: 2014/01/27

BSK Analytical Laboratories
Client Project #: A3L1789

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		UL9295						
Sampling Date		2013/12/17 16:45						
COC Number		na			TOXIC EQUIVALENCY		# of	
	Units	A3L1789-01	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	0.82 U	0.82	4.2	1.00	0.820		3486907
TOTAL TOXIC EQUIVALENCY	pg/L					0.820		
Surrogate Recovery (%)								
37CL4 2378 Tetra CDD *	%	88						3486907
C13-2378 TetraCDD *	%	94						3486907

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

* CDD = Chloro Dibenzo-p-Dioxin

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Maxxam

Maxxam Job #: B402009
Report Date: 2014/01/27

BSK Analytical Laboratories
Client Project #: A3L1789

GENERAL COMMENTS

Results relate only to the items tested.

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Maxxam

Maxxam Job #: B402009
Report Date: 2014/01/27

BSK Analytical Laboratories
Client Project #: A3L1789

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
3486907	CXU	Spiked Blank	2,3,7,8-Tetra CDD	2014/01/26		76	%	67 - 158
			37CL4 2378 Tetra CDD	2014/01/26		84	%	40 - 130
			C13-2378 TetraCDD	2014/01/26		89	%	24 - 164
3486907	CXU	Method Blank	2,3,7,8-Tetra CDD	2014/01/26	0.83, EDL=0.83		pg/L	
			37CL4 2378 Tetra CDD	2014/01/26		81	%	40 - 130
			C13-2378 TetraCDD	2014/01/26		87	%	24 - 164

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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Maxxam

Maxxam Job #: B402009
Report Date: 2014/01/27

BSK Analytical Laboratories
Client Project #: A3L1789

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Kay Shaw

Kay Shaw, C. Chem, Sr Scientific Specialist, HRMS Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

BSK Analytical Laboratories
Engineering Laboratories

SUBCONTRACT ORDER

A3L1789

7-Jan-14 14:30
Ivana Vukovic

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Maxxam Analytics
PO Box 57437, Station A
Toronto, ON M5W5M5
Phone: (905) 817 5784
Fax:
Turnaround (Days): Standard
QC Deliverables: I Std II III IV

B402089
M P LXV-906

Sample ID	Samp Desc	Comments	Sample Date
A3L1789-01	ML-Z Zone#1 (167-177 ft bgs)		12/17/2013 10:45

Matrix: Water

OK to run out of Hold Time

ILAC

Analysis
EXT-Dioxin-DW matrix, EPA 1613 2,3,7,8-TCDD

Released By	Date	Received By	Date
Released By	Date	Received By	Date
			2014/01/07 14:30

4.1/4.4/4.1°C

Page 1 of 3

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964

CERTIFICATE OF ANALYSIS

Client:	California American Water-Monterey P.O.BOX 951 Monterey CA, 93942-0951	**Report Date:**	03/06/14 09:27
		Received Date:	01/14/14 09:15
		Turn Around:	Normal
Attention:	Travis Peterson	**Client Project:**	Monterey Peninsula Water Supply Project (MPWSP)
Phone:	(831) 646-3269		
Fax:	-		
Work Order(s):	4A14004		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Travis Peterson :

Enclosed are the results of analyses for samples received 01/14/14 09:15 with the Chain of Custody document. The samples were received in good condition, at 3.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Hai Van Nguyen
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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California American Water-Monterey
P.O.BOX 951
Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
ML-3 Zone # 1 (180-190 ftbgs)	Nathan Reynolds		4A14004-01	Water	01/11/14 16:00

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Carbamates and Urea Pesticides

Chlorinated Herbicides

Chlorinated Pesticides and/or PCBs

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Diquat and Paraquat by EPA 549.2

Endothall By EPA 548.1

EPA 1613B mod.

Fumigants by EPA Method 504.1

Glyphosate by EPA 547

Metals by EPA 200 Series Methods

Semivolatile Organic Compounds by GC/MS

Subcontracted Analyses

Volatile Organic Compounds by EPA Method 524.2

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California American Water-Monterey
P.O.BOX 951
Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

4A14004-01 ML-3 Zone # 1 (180-190 ftbgs)

Sampled: 01/11/14 16:00 **Sampled By:** Nathan Reynolds **Matrix:** Water

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 300.0 Batch: W4A0532 Prepared: 01/14/14 11:00 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chloride, Total	**3700**	50	mg/l	100	01/14/14 20:52	
Fluoride, Total	ND	1.0	mg/l	10	01/14/14 20:52	M-05
Sulfate as SO4	**370**	5.0	mg/l	10	01/14/14 20:52	

Method: EPA 300.1 Batch: W4A0844 Prepared: 01/21/14 11:17 Analyst: cwh

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Bromide	**13000**		500	ug/l	50	01/21/14 15:14	
Surr: Dichloroacetate	*100 %*	Conc:*500*	*90-115*	%			

Method: EPA 9056A Batch: W4B0889 Prepared: 02/20/14 09:30 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Iodide, Dissolved	**100**	75	ug/l	7.5	02/20/14 15:41	O-14

Carbamates and Urea Pesticides

Method: EPA 531.1 Batch: W4A0802 Prepared: 01/20/14 13:06 Analyst: cwh

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
3-Hydroxycarbofuran	ND	2.0	ug/l	1	01/20/14 23:50	
Aldicarb	ND	2.0	ug/l	1	01/20/14 23:50	
Aldicarb sulfone	ND	2.0	ug/l	1	01/20/14 23:50	
Aldicarb sulfoxide	ND	2.0	ug/l	1	01/20/14 23:50	
Carbaryl	ND	2.0	ug/l	1	01/20/14 23:50	
Carbofuran	ND	2.0	ug/l	1	01/20/14 23:50	
Methiocarb	ND	2.0	ug/l	1	01/20/14 23:50	
Methomyl	ND	2.0	ug/l	1	01/20/14 23:50	
Oxamyl	ND	2.0	ug/l	1	01/20/14 23:50	
Propoxur (Baygon)	ND	2.0	ug/l	1	01/20/14 23:50	

Chlorinated Herbicides

Method: EPA 515.3 Batch: W4A0564 Prepared: 01/15/14 08:23 Analyst: mxw

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
2,4,5-T	ND	0.20	ug/l	1	01/25/14 03:23	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	01/25/14 03:23	
2,4-D	ND	0.40	ug/l	1	01/25/14 03:23	
2,4-DB	ND	2.0	ug/l	1	01/25/14 03:23	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	01/25/14 03:23	
Acifluorfen	ND	0.40	ug/l	1	01/25/14 03:23	
Bentazon	ND	2.0	ug/l	1	01/25/14 03:23	
Dalapon	ND	0.40	ug/l	1	01/25/14 03:23	
DCPA	ND	0.10	ug/l	1	01/25/14 03:23	
Dicamba	ND	0.60	ug/l	1	01/25/14 03:23	

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California American Water-Monterey
P.O.BOX 951
Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

4A14004-01 ML-3 Zone # 1 (180-190 ftbgs)

Sampled: 01/11/14 16:00 **Sampled By:** Nathan Reynolds **Matrix:** Water

Chlorinated Herbicides

Method: EPA 515.3 Batch: W4A0564 Prepared: 01/15/14 08:23 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Dichloroprop	ND		0.30	ug/l	1	01/25/14 03:23	
Dinoseb	ND		0.40	ug/l	1	01/25/14 03:23	
Pentachlorophenol	ND		0.20	ug/l	1	01/25/14 03:23	
Picloram	ND		0.60	ug/l	1	01/25/14 03:23	
Surr: 2,4-DCAA	*97 %*	Conc:*9.66*	*70-130*	%			

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4A0617 Prepared: 01/16/14 08:43 Analyst: mxw

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND	0.010	ug/l	1	01/29/14 22:21	
4,4´-DDE	ND	0.010	ug/l	1	01/29/14 22:21	
4,4´-DDT	ND	0.010	ug/l	1	01/29/14 22:21	
Aldrin	ND	0.010	ug/l	1	01/29/14 22:21	
alpha-BHC	ND	0.010	ug/l	1	01/29/14 22:21	
Aroclor 1016	ND	0.10	ug/l	1	01/29/14 22:21	
Aroclor 1221	ND	0.10	ug/l	1	01/29/14 22:21	
Aroclor 1232	ND	0.10	ug/l	1	01/29/14 22:21	
Aroclor 1242	ND	0.10	ug/l	1	01/29/14 22:21	
Aroclor 1248	ND	0.10	ug/l	1	01/29/14 22:21	
Aroclor 1254	ND	0.10	ug/l	1	01/29/14 22:21	
Aroclor 1260	ND	0.10	ug/l	1	01/29/14 22:21	
beta-BHC	ND	0.010	ug/l	1	01/29/14 22:21	
Chlordane (tech)	ND	0.10	ug/l	1	01/29/14 22:21	
Chlorothalonil	ND	0.050	ug/l	1	01/29/14 22:21	
delta-BHC	ND	0.010	ug/l	1	01/29/14 22:21	
Dieldrin	ND	0.010	ug/l	1	01/29/14 22:21	
Endosulfan I	ND	0.010	ug/l	1	01/29/14 22:21	
Endosulfan II	ND	0.010	ug/l	1	01/29/14 22:21	
Endosulfan sulfate	ND	0.010	ug/l	1	01/29/14 22:21	
Endrin	ND	0.010	ug/l	1	01/29/14 22:21	
Endrin aldehyde	ND	0.010	ug/l	1	01/29/14 22:21	
gamma-BHC (Lindane)	ND	0.010	ug/l	1	01/29/14 22:21	
Heptachlor	ND	0.010	ug/l	1	01/29/14 22:21	
Heptachlor epoxide	ND	0.010	ug/l	1	01/29/14 22:21	
Hexachlorobenzene	ND	0.010	ug/l	1	01/29/14 22:21	
Hexachlorocyclopentadiene	ND	0.050	ug/l	1	01/29/14 22:21	
Methoxychlor	ND	0.010	ug/l	1	01/29/14 22:21	
PCBs, Total	ND	0.50	ug/l	1	01/29/14 22:21	
Propachlor	ND	0.050	ug/l	1	01/29/14 22:21	
Toxaphene	ND	1.0	ug/l	1	01/29/14 22:21	

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California American Water-Monterey
P.O.BOX 951
Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

4A14004-01 ML-3 Zone # 1 (180-190 ftbgs)

Sampled: 01/11/14 16:00 **Sampled By:** Nathan Reynolds **Matrix:** Water

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4A0617 Prepared: 01/16/14 08:43 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Trifluralin	ND		0.010	ug/l	1	01/29/14 22:21	
Surr: Decachlorobiphenyl	*23 %*	Conc:*0.0228*	*70-130*	%			*S-GC*
Surr: Tetrachloro-meta-xylene	*78 %*	Conc:*0.0783*	*70-130*	%			

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: EPA 140.1 Batch: W4A0522 Prepared: 01/14/14 11:32 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Threshold Odor Number	**4.0**	1.0	T.O.N.	4	01/14/14 11:52	O-09

Method: EPA 180.1 Batch: W4A0520 Prepared: 01/14/14 10:53 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Turbidity	**160**	0.10	NTU	1	01/14/14 11:24	O-09

Method: EPA 350.1 Batch: W4A0596 Prepared: 01/15/14 14:35 Analyst: rjs

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Ammonia as N, Dissolved	**10**	2.0	mg/l	20	01/17/14 14:26	

Method: EPA 351.2 Batch: W4A0524 Prepared: 01/14/14 12:34 Analyst: rjs

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
TKN, Soluble	**9.7**	1.0	mg/l	10	01/17/14 17:00	

Method: EPA 353.2 Batch: W4A0535 Prepared: 01/14/14 13:08 Analyst: MBC

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Nitrate as NO3	ND	0.50	mg/l	1	01/14/14 16:08	O-09
NO2+NO3 as N	ND	100	ug/l	1	01/14/14 16:08	

Method: EPA 365.1 Batch: W4A0544 Prepared: 01/14/14 14:48 Analyst: htl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
o-Phosphate as P	**0.0039**	0.0020	mg/l	1	01/14/14 15:46	**

Method: EPA 365.1 Batch: W4A0809 Prepared: 01/20/14 14:19 Analyst: htl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Phosphorus, Dissolved	**0.078**	0.010	mg/l	1	01/23/14 10:47	

Method: SM 2120B Batch: W4A0533 Prepared: 01/14/14 13:03 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Color	ND	3.0	Color Units	1	01/14/14 13:28	O-09

Method: SM 2320B Batch: W4A0723 Prepared: 01/17/14 13:33 Analyst: ajp

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier

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Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

Travis Peterson
California American Water
836 Carmel Ave.
Monterey, CA 93940

RE: Report for A3L1716 Water Quality Analysis

Dear Travis Peterson,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 12/20/2013. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michael Ng, Project Manager

If additional clarification of any information is required, please contact your Project Manager, Michael Ng , at (800) 877-8310 or (559) 497-2888 x118.

Case Narrative

Project and Report Details		Invoice Details	
Client:	California American Water	**Invoice To:**	California American Water
Report To:	Travis Peterson	**Invoice Attn:**	susan.jacobson@amwater.com
Project #:	Water Quality Analysis - MPWSP	**Project PO#:**	-
Received:	12/20/2013 - 15:00		
Report Due:	1/07/2014		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 0.2

Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Wet Ice
Received On Blue Ice
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
DL1.0	Sample required a dilution due to the matrix or high concentration of a non-target analyte.
HT1.3	Holding time exceeded. Sample was analyzed past the holding time.
HT1.6	Holding time exceeded. The holding time for this analysis is a recommendation and is not mandated by any state or federal agency.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
MS1.4	Matrix spike recovery data unreliable due to significant parent sample concentration relative to fortification level (>4x).

Report Distribution

Recipient(s)	Report Format
Travis Peterson	Final.rpt
Sarp Sekeroglu	Final.rpt
Andrew Kieta	final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A3L1716-01
Sampled By: Nathan Reynolds
Sample Description: ML-2 Zone #2 (90-100 ftbgs)

Sample Date - Time: 12/19/13 - 10:45
Matrix: Water
Sample Type: Grab

Field Data: pH=6.67 Temp=16.4 ºC Cond.=11508 umho Turb. =0.72 ntu

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320 B	**180**	3.0	mg/L	1	A315183	12/24/13	12/24/13	
Bicarbonate as CaCO3	SM 2320 B	**180**	3.0	mg/L	1	A315183	12/24/13	12/24/13	
Carbonate as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A315183	12/24/13	12/24/13	
Hydroxide as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A315183	12/24/13	12/24/13	
Ammonia as N	SM 4500-NH3 G	**1.0**	0.10	mg/L	1	A315303	12/26/13	12/27/13	
Bromide	EPA 300.1	**14**	0.25	mg/L	50	A315371	12/27/13	12/27/13	
Surrogate: Dichloroacetate	EPA 300.1	101 %	*Acceptable range: 90-115 %*						
Chloride	EPA 300.0	**3900**	100	mg/L	100	A315129	12/23/13	12/23/13	
Color, Apparent	SM 2120 B	**10**	1.0	CU	1	A315108	12/20/13 17:07	12/20/13	
Conductivity @ 25C	SM 2510 B	**11000**	1.0	umhos/cm	1	A315183	12/24/13	12/24/13	
Fluoride	EPA 300.0	ND	0.50	mg/L	5	A315318	12/26/13	12/26/13	DL1.0
Mass Balance-Anions		**120**		meq/L					
Mass Balance-Dissolved Cations		**120**		meq/L					
MBAS, Calculated as LAS, mol wt 340	SM 5540 C	ND	0.050	mg/L	1	A315096	12/20/13 17:18	12/20/13	
Nitrate as NO3	EPA 300.0	ND	100	mg/L	100	A315129	12/23/13 15:36	12/23/13	DL1.0, HT1.3
Nitrite as N	EPA 300.0	ND	5.0	mg/L	100	A315129	12/23/13 15:36	12/23/13	DL1.0, HT1.3
Threshold Odor	SM 2150 B	**1.0**	1.0	T.O.N.	1	A315108	12/20/13 17:07	12/20/13	HT1.6
Orthophosphate as P	SM 4500-P E	**0.079**	0.010	mg/L	1	A315135	12/20/13 18:54	12/20/13	
pH (1)	SM 4500-H+ B	**7.6**		pH Units	1	A315183	12/24/13	12/24/13	
pH Temperature in °C		**19.9**							
Phosphorus - Dissolved (1)	EPA 365.4	ND	0.10	mg/L	1	A315207	12/23/13	12/26/13	
Sulfate as SO4	EPA 300.0	**340**	200	mg/L	100	A315129	12/23/13	12/23/13	
Total Dissolved Solids	SM 2540C	**8100**	5.0	mg/L	1	A315292	12/26/13	12/30/13	
Total Kjeldahl Nitrogen - Dissolved (1)	EPA 351.2	**1.5**	1.0	mg/L	1	A315207	12/23/13	12/27/13	
Total Oxidizable Nitrogen, as N - Dissolved (1)	SM 4500-NO3 F	ND	0.10	mg/L	1	A315381	12/30/13	12/30/13	
Turbidity	SM 2130 B	**2.7**	0.10	NTU	1	A315108	12/20/13 17:07	12/20/13	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aluminum	EPA 200.7	ND	0.050	mg/L	1	A315150	12/23/13	12/30/13	
Arsenic	EPA 200.8	ND	2.0	ug/L	1	A315150	12/23/13	12/27/13	
Barium - Dissolved (1)	EPA 200.7	**0.38**	0.050	mg/L	1	A315133	12/20/13	12/27/13	
Boron - Dissolved (1)	EPA 200.7	**0.40**	0.10	mg/L	1	A315133	12/20/13	12/27/13	
Calcium	EPA 200.7	**450**	0.10	mg/L	1	A315150	12/23/13	12/30/13	
Calcium - Dissolved (1)	EPA 200.7	**460**	0.10	mg/L	1	A315133	12/20/13	12/27/13	
Copper	EPA 200.8	**15**	5.0	ug/L	1	A315150	12/23/13	12/27/13	
Hardness as CaCO3	SM 2340B	**2500**	0.41	mg/L					
Iron	EPA 200.7	**0.50**	0.030	mg/L	1	A315150	12/23/13	12/30/13	
Iron - Dissolved (1)	EPA 200.7	**0.14**	0.030	mg/L	1	A315133	12/20/13	12/27/13	

Certificate of Analysis

Sample ID: A3L1716-01
Sampled By: Nathan Reynolds
Sample Description: ML-2 Zone #2 (90-100 ftbgs)

Sample Date - Time: 12/19/13 - 10:45
Matrix: Water
Sample Type: Grab

Field Data: pH=6.67 Temp=16.4 ºC Cond.=11508 umho Turb. =0.72 ntu

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Magnesium	EPA 200.7	**340**	0.10	mg/L	1	A315150	12/23/13	12/30/13	
Magnesium - Dissolved (1)	EPA 200.7	**360**	0.10	mg/L	1	A315133	12/20/13	12/27/13	
Manganese	EPA 200.7	**0.68**	0.010	mg/L	1	A315150	12/23/13	12/30/13	
Manganese - Dissolved (1)	EPA 200.7	**0.71**	0.010	mg/L	1	A315133	12/20/13	12/27/13	
Potassium - Dissolved (1)	EPA 200.7	**34**	2.0	mg/L	1	A315133	12/20/13	12/27/13	
Silica (SiO2) - Dissolved (1)	EPA 200.7	**38**	0.20	mg/L	1	A315133	12/20/13	12/27/13	
Sodium - Dissolved (1)	EPA 200.7	**1500**	20	mg/L	20	A315133	12/20/13	12/27/13	
Strontium - Dissolved (1)	EPA 200.8	**4100**	5.0	ug/L	5	A315133	12/20/13	12/27/13	
Zinc	EPA 200.7	ND	0.050	mg/L	1	A315150	12/23/13	12/30/13	

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A315261	12/24/13	12/25/13	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A315261	12/24/13	12/25/13	
Surrogate: TCMX	EPA 504.1	115 %	*Acceptable range: 70-130 %*						
Organohalide Pesticides and PCBs by GC-ECD									
Aldrin	EPA 505	ND	0.075	ug/L	1	A315261	12/24/13	12/25/13	
Chlordane	EPA 505	ND	0.10	ug/L	1	A315261	12/24/13	12/25/13	
Chlorothalonil	EPA 505	ND	5.0	ug/L	1	A315261	12/24/13	12/25/13	
Dieldrin	EPA 505	ND	0.020	ug/L	1	A315261	12/24/13	12/25/13	
Endrin	EPA 505	ND	0.10	ug/L	1	A315261	12/24/13	12/25/13	
Heptachlor	EPA 505	ND	0.010	ug/L	1	A315261	12/24/13	12/25/13	
Heptachlor Epoxide	EPA 505	ND	0.010	ug/L	1	A315261	12/24/13	12/25/13	
Hexachlorobenzene	EPA 505	ND	0.50	ug/L	1	A315261	12/24/13	12/25/13	
Hexachlorocyclopentadiene	EPA 505	ND	1.0	ug/L	1	A315261	12/24/13	12/25/13	
Lindane	EPA 505	ND	0.20	ug/L	1	A315261	12/24/13	12/25/13	
Methoxychlor	EPA 505	ND	10	ug/L	1	A315261	12/24/13	12/25/13	
PCB Aroclor Screen	EPA 505	ND	0.50	ug/L	1	A315261	12/24/13	12/25/13	
Toxaphene	EPA 505	ND	1.0	ug/L	1	A315261	12/24/13	12/25/13	
Trifluralin	EPA 505	ND	1.0	ug/L	1	A315261	12/24/13	12/25/13	
Surrogate: TCMX	EPA 505	115 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A315300	12/26/13	12/28/13	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A315300	12/26/13	12/28/13	
2,4-D	EPA 515.3	ND	10	ug/L	1	A315300	12/26/13	12/28/13	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A315300	12/26/13	12/28/13	
Dalapon	EPA 515.3	ND	10	ug/L	1	A315300	12/26/13	12/28/13	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A315300	12/26/13	12/28/13	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A3L1716-01
Sampled By: Nathan Reynolds
Sample Description: ML-2 Zone #2 (90-100 ftbgs)

Sample Date - Time: 12/19/13 - 10:45
Matrix: Water
Sample Type: Grab

Field Data: pH=6.67 Temp=16.4 ºC Cond.=11508 umho Turb. =0.72 ntu

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chlorinated Acid Herbicides by GC-ECD									
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A315300	12/26/13	12/28/13	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A315300	12/26/13	12/28/13	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A315300	12/26/13	12/28/13	
Surrogate: DCPAA	EPA 515.3	81 %	*Acceptable range: 70-130 %*						
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A315174	12/23/13	12/24/13	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A315174	12/23/13	12/24/13	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A315174	12/23/13	12/24/13	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A315174	12/23/13	12/24/13	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A315174	12/23/13	12/24/13	
Bromacil	EPA 525.2	ND	10	ug/L	1	A315174	12/23/13	12/24/13	BS1.0
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A315174	12/23/13	12/24/13	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A315174	12/23/13	12/24/13	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A315174	12/23/13	12/24/13	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A315174	12/23/13	12/24/13	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A315174	12/23/13	12/24/13	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A315174	12/23/13	12/24/13	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A315174	12/23/13	12/24/13	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A315174	12/23/13	12/24/13	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A315174	12/23/13	12/24/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	102 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A315323	12/26/13	12/27/13	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A315323	12/26/13	12/27/13	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A315323	12/26/13	12/27/13	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A315323	12/26/13	12/27/13	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A315323	12/26/13	12/27/13	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A315323	12/26/13	12/27/13	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A315323	12/26/13	12/27/13	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A315323	12/26/13	12/27/13	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A315140	12/21/13	12/21/13	
Surrogate: AMPA	EPA 547	102 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A315322	12/26/13	12/27/13	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A315144	12/21/13	12/26/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A315129										Prepared: 12/23/2013	
Prep Method: Method Specific Preparation										Analyst: EMH	
Blank (A315129-BLK1)											
Chloride	ND	1.0	mg/L							12/23/13	
Nitrate as NO3	ND	1.0	mg/L							12/23/13	
Nitrite as N	ND	0.050	mg/L							12/23/13	
Sulfate as SO4	ND	2.0	mg/L							12/23/13	
Blank Spike (A315129-BS1)											
Chloride	50	1.0	mg/L	50		99	90-110			12/23/13	
Nitrate as NO3	49	1.0	mg/L	50		99	90-110			12/23/13	
Nitrite as N	0.50	0.050	mg/L	0.50		99	90-110			12/23/13	
Sulfate as SO4	49	2.0	mg/L	50		99	90-110			12/23/13	
Blank Spike Dup (A315129-BSD1)											
Chloride	50	1.0	mg/L	50		100	90-110	1	20	12/23/13	
Nitrate as NO3	50	1.0	mg/L	50		100	90-110	1	20	12/23/13	
Nitrite as N	0.50	0.050	mg/L	0.50		100	90-110	1	20	12/23/13	
Sulfate as SO4	50	2.0	mg/L	50		100	90-110	1	20	12/23/13	
Matrix Spike (A315129-MS1), Source: A3L1643-04											
Chloride	110	2.0	mg/L	100	9.4	100	80-120			12/23/13	
Nitrate as NO3	140	2.0	mg/L	100	43	98	80-120			12/23/13	
Nitrite as N	0.99	0.10	mg/L	1.0	ND	99	80-120			12/23/13	
Sulfate as SO4	150	4.0	mg/L	100	53	98	80-120			12/23/13	
Matrix Spike (A315129-MS2), Source: A3L1715-02											
Chloride	110	2.0	mg/L	100	9.8	100	80-120			12/23/13	
Nitrate as NO3	98	2.0	mg/L	100	ND	98	80-120			12/23/13	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	100	80-120			12/23/13	
Sulfate as SO4	100	4.0	mg/L	100	5.4	99	80-120			12/23/13	
Matrix Spike Dup (A315129-MSD1), Source: A3L1643-04											
Chloride	110	2.0	mg/L	100	9.4	101	80-120	1	20	12/23/13	
Nitrate as NO3	140	2.0	mg/L	100	43	100	80-120	1	20	12/23/13	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	101	80-120	2	20	12/23/13	
Sulfate as SO4	150	4.0	mg/L	100	53	100	80-120	1	20	12/23/13	
Matrix Spike Dup (A315129-MSD2), Source: A3L1715-02											
Chloride	110	2.0	mg/L	100	9.8	102	80-120	2	20	12/23/13	
Nitrate as NO3	100	2.0	mg/L	100	ND	100	80-120	2	20	12/23/13	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	102	80-120	2	20	12/23/13	
Sulfate as SO4	110	4.0	mg/L	100	5.4	101	80-120	2	20	12/23/13	
EPA 300.0 - Quality Control											
Batch: A315318										Prepared: 12/26/2013	
Prep Method: Method Specific Preparation										Analyst: n.a.	
Blank (A315318-BLK1)											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A315318										Prepared: 12/26/2013	
Prep Method: Method Specific Preparation										Analyst: n.a.	
Blank (A315318-BLK1)											
Fluoride	ND	0.10	mg/L							12/26/13	
Blank Spike (A315318-BS1)											
Fluoride	0.49	0.10	mg/L	0.50		98	90-110			12/26/13	
Blank Spike Dup (A315318-BSD1)											
Fluoride	0.50	0.10	mg/L	0.50		100	90-110	2	10	12/26/13	
Matrix Spike (A315318-MS1), Source: A3L1709-02											
Fluoride	1.1	0.20	mg/L	1.0	ND	99	80-120			12/26/13	
Matrix Spike (A315318-MS2), Source: A3L1860-02											
Fluoride	1.3	0.20	mg/L	1.0	0.27	98	80-120			12/26/13	
Matrix Spike Dup (A315318-MSD1), Source: A3L1709-02											
Fluoride	1.1	0.20	mg/L	1.0	ND	97	80-120	2	10	12/26/13	
Matrix Spike Dup (A315318-MSD2), Source: A3L1860-02											
Fluoride	1.3	0.20	mg/L	1.0	0.27	102	80-120	3	10	12/26/13	
EPA 300.1 - Quality Control											
Batch: A315371										Prepared: 12/27/2013	
Prep Method: Method Specific Preparation										Analyst: TRL	
Blank (A315371-BLK1)											
Bromide	ND	0.0050	mg/L							12/27/13	
Surrogate: Dichloroacetate	*0.495*			*0.50*		*99*	*90-115*			12/27/13	
Blank Spike (A315371-BS1)											
Bromide	0.19	0.0050	mg/L	0.20		96	85-115			12/27/13	
Surrogate: Dichloroacetate	*0.492*			*0.50*		*98*	*90-115*			12/27/13	
Blank Spike Dup (A315371-BSD1)											
Bromide	0.19	0.0050	mg/L	0.20		97	85-115	1	10	12/27/13	
Surrogate: Dichloroacetate	*0.494*			*0.50*		*99*	*90-115*			12/27/13	
Matrix Spike (A315371-MS1), Source: A3L1963-02											
Bromide	4.3	0.10	mg/L	2.0	2.4	93	75-125			12/27/13	
Surrogate: Dichloroacetate	*9.63*			*10*		*96*	*90-115*			12/27/13	
Matrix Spike (A315371-MS2), Source: A3L2009-03											
Bromide	0.50	0.020	mg/L	0.40	0.13	93	75-125			12/28/13	
Surrogate: Dichloroacetate	*1.89*			*2.0*		*95*	*90-115*			12/28/13	
Matrix Spike Dup (A315371-MSD1), Source: A3L1963-02											
Bromide	4.3	0.10	mg/L	2.0	2.4	94	75-125	0	10	12/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.1 - Quality Control											
Batch: A315371										Prepared: 12/27/2013	
Prep Method: Method Specific Preparation										Analyst: TRL	
Matrix Spike Dup (A315371-MSD1), Source: A3L1963-02											
Surrogate: Dichloroacetate	*9.74*			*10*		*97*	*90-115*			12/27/13	
Matrix Spike Dup (A315371-MSD2), Source: A3L2009-03											
Bromide	0.51	0.020	mg/L	0.40	0.13	94	75-125	1	10	12/28/13	
Surrogate: Dichloroacetate	*1.96*			*2.0*		*98*	*90-115*			12/28/13	
EPA 351.2 - Quality Control											
Batch: A315207										Prepared: 12/23/2013	
Prep Method: Digestion										Analyst: KKC	
Blank (A315207-BLK2)											
Total Kjeldahl Nitrogen - Dissolved (1)	ND	1.0	mg/L							12/27/13	
Blank Spike (A315207-BS2)											
Total Kjeldahl Nitrogen - Dissolved (1)	9.9	1.0	mg/L	10		99	90-110			12/27/13	
Blank Spike Dup (A315207-BSD2)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		105	90-110	5	10	12/27/13	
Matrix Spike (A315207-MS2), Source: A3L1656-01											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10	ND	100	90-110			12/27/13	
Matrix Spike Dup (A315207-MSD2), Source: A3L1656-01											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10	ND	99	90-110	2	10	12/27/13	
EPA 365.4 - Quality Control											
Batch: A315207										Prepared: 12/23/2013	
Prep Method: Digestion										Analyst: KKC	
Blank (A315207-BLK1)											
Phosphorus - Dissolved (1)	ND	0.10	mg/L							12/26/13	
Blank Spike (A315207-BS1)											
Phosphorus - Dissolved (1)	9.3	0.10	mg/L	10		93	90-110			12/26/13	
Blank Spike Dup (A315207-BSD1)											
Phosphorus - Dissolved (1)	9.9	0.10	mg/L	10		99	90-110	7	10	12/26/13	
Matrix Spike (A315207-MS1), Source: A3L1656-01											
Phosphorus - Dissolved (1)	9.5	0.10	mg/L	10	ND	95	90-110			12/26/13	
Matrix Spike Dup (A315207-MSD1), Source: A3L1656-01											
Phosphorus - Dissolved (1)	9.8	0.10	mg/L	10	ND	98	90-110	3	10	12/26/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2120 B - Quality Control											
Batch: A315108										Prepared: 12/20/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A315108-BLK1)											
Color, Apparent	ND	1.0	CU							12/20/13	
Duplicate (A315108-DUP1), Source: A3L1654-01											
Color, Apparent	5.0	1.0	CU		5.0			0	20	12/20/13	
Duplicate (A315108-DUP2), Source: A3L1715-01											
Color, Apparent	5.0	1.0	CU		5.0			0	20	12/20/13	
SM 2130 B - Quality Control											
Batch: A315108										Prepared: 12/20/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A315108-BLK1)											
Turbidity	ND	0.10	NTU							12/20/13	
Duplicate (A315108-DUP1), Source: A3L1654-01											
Turbidity	ND	0.10	NTU		ND				20	12/20/13	
Duplicate (A315108-DUP2), Source: A3L1715-01											
Turbidity	ND	0.10	NTU		ND				20	12/20/13	
SM 2150 B - Quality Control											
Batch: A315108										Prepared: 12/20/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A315108-BLK1)											
Threshold Odor	ND	1.0	T.O.N.							12/20/13	
Duplicate (A315108-DUP1), Source: A3L1654-01											
Threshold Odor	1.0	1.0	T.O.N.		1.0			0	20	12/20/13	
Duplicate (A315108-DUP2), Source: A3L1715-01											
Threshold Odor	1.0	1.0	T.O.N.		1.0			0	20	12/20/13	
SM 2320 B - Quality Control											
Batch: A315183										Prepared: 12/24/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A315183-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							12/24/13	
Bicarbonate as CaCO3	ND	3.0	mg/L							12/24/13	
Carbonate as CaCO3	ND	3.0	mg/L							12/24/13	
Hydroxide as CaCO3	ND	3.0	mg/L							12/24/13	
Blank Spike (A315183-BS1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		100	80-120			12/23/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2320 B - Quality Control											
Batch: A315183										Prepared: 12/23/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank Spike Dup (A315183-BSD1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		101	80-120	1	20	12/24/13	
Duplicate (A315183-DUP1), Source: A3L1704-01											
Alkalinity as CaCO3	200	3.0	mg/L		200			1	10	12/24/13	
Bicarbonate as CaCO3	200	3.0	mg/L		200			1	10	12/24/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	12/24/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	12/24/13	
Duplicate (A315183-DUP2), Source: A3L1860-02											
Alkalinity as CaCO3	170	3.0	mg/L		170			3	10	12/24/13	
Bicarbonate as CaCO3	170	3.0	mg/L		170			3	10	12/24/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	12/24/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	12/24/13	
SM 2510 B - Quality Control											
Batch: A315183										Prepared: 12/24/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A315183-BLK1)											
Conductivity @ 25C	ND	1.0	umhos/cm							12/24/13	
Duplicate (A315183-DUP1), Source: A3L1704-01											
Conductivity @ 25C	780	1.0	umhos/cm		790			1	20	12/24/13	
Duplicate (A315183-DUP2), Source: A3L1860-02											
Conductivity @ 25C	350	1.0	umhos/cm		350			0	20	12/24/13	
SM 2540C - Quality Control											
Batch: A315292										Prepared: 12/26/2013	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank (A315292-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							12/30/13	
Blank Spike (A315292-BS1)											
Total Dissolved Solids	980	5.0	mg/L	1000		98	70-130			12/30/13	
Duplicate (A315292-DUP1), Source: A3L1798-01											
Total Dissolved Solids	400	5.0	mg/L		400			0	20	12/30/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-H+ B - Quality Control											
Batch: A315183										Prepared: 12/24/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Duplicate (A315183-DUP1), Source: A3L1704-01											
pH (1)	7.8		pH Units		7.8			0	20	12/24/13	
Duplicate (A315183-DUP2), Source: A3L1860-02											
pH (1)	7.8		pH Units		7.8			0	20	12/24/13	
SM 4500-NH3 G - Quality Control											
Batch: A315303										Prepared: 12/26/2013	
Prep Method: Ammonia Distillation										Analyst: KKC	
Blank (A315303-BLK1)											
Ammonia as N	ND	0.10	mg/L							12/27/13	
Blank Spike (A315303-BS1)											
Ammonia as N	9.6	0.10	mg/L	10		96	80-120			12/27/13	
Blank Spike Dup (A315303-BSD1)											
Ammonia as N	9.4	0.10	mg/L	10		94	80-120	3	20	12/27/13	
Matrix Spike (A315303-MS1), Source: A3L1863-02											
Ammonia as N	12	0.10	mg/L	10	2.3	94	80-120			12/27/13	
Matrix Spike (A315303-MS2), Source: A3L1868-05											
Ammonia as N	21	0.50	mg/L	10	14	75	80-120			12/27/13	MS1.0 ***Low***
Matrix Spike Dup (A315303-MSD1), Source: A3L1863-02											
Ammonia as N	12	0.10	mg/L	10	2.3	94	80-120	1	20	12/27/13	
Matrix Spike Dup (A315303-MSD2), Source: A3L1868-05											
Ammonia as N	21	0.50	mg/L	10	14	68	80-120	3	20	12/27/13	MS1.0 ***Low***
SM 4500-NO3 F - Quality Control											
Batch: A315381										Prepared: 12/30/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A315381-BLK1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	ND	0.10	mg/L							12/30/13	
Blank Spike (A315381-BS1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10		104	80-120			12/30/13	
Blank Spike Dup (A315381-BSD1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10		102	80-120	2	20	12/30/13	
Matrix Spike (A315381-MS1), Source: A3L1608-03											
Total Oxidizable Nitrogen, as N - Dissolved (1)	23	1.0	mg/L	10	14	95	80-120			12/30/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-NO3 F - Quality Control											
Batch: A315381										Prepared: 12/30/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Matrix Spike (A315381-MS2), Source: A3L1789-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.4	0.10	mg/L	10	ND	93	80-120			12/30/13	
Matrix Spike Dup (A315381-MSD1), Source: A3L1608-03											
Total Oxidizable Nitrogen, as N - Dissolved (1)	23	1.0	mg/L	10	14	90	80-120	2	20	12/30/13	
Matrix Spike Dup (A315381-MSD2), Source: A3L1789-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.5	0.10	mg/L	10	ND	95	80-120	1	20	12/30/13	
SM 4500-P E - Quality Control											
Batch: A315135										Prepared: 12/20/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A315135-BLK1)											
Orthophosphate as P	ND	0.010	mg/L							12/20/13	
Blank Spike (A315135-BS1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		100	90-110			12/20/13	
Blank Spike Dup (A315135-BSD1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		100	90-110	0	20	12/20/13	
Matrix Spike (A315135-MS1), Source: A3L1716-01											
Orthophosphate as P	0.33	0.010	mg/L	0.25	0.079	100	80-120			12/20/13	
Matrix Spike Dup (A315135-MSD1), Source: A3L1716-01											
Orthophosphate as P	0.34	0.010	mg/L	0.25	0.079	103	80-120	2	20	12/20/13	
SM 5540 C - Quality Control											
Batch: A315096										Prepared: 12/20/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A315096-BLK1)											
MBAS, Calculated as LAS, mol wt 340	ND	0.050	mg/L							12/20/13	
Blank Spike (A315096-BS1)											
MBAS, Calculated as LAS, mol wt 340	0.91	0.050	mg/L	1.0		91	80-120			12/20/13	
Blank Spike Dup (A315096-BSD1)											
MBAS, Calculated as LAS, mol wt 340	0.90	0.050	mg/L	1.0		90	80-120	2	20	12/20/13	
Matrix Spike (A315096-MS1), Source: A3L1613-02											
MBAS, Calculated as LAS, mol wt 340	0.97	0.050	mg/L	1.0	ND	97	80-120			12/20/13	
Matrix Spike (A315096-MS2), Source: A3L1704-01											
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0	ND	100	80-120			12/20/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 5540 C - Quality Control											
Batch: A315096										Prepared: 12/20/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Matrix Spike Dup (A315096-MSD1), Source: A3L1613-02											
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0	ND	100	80-120	4	20	12/20/13	
Matrix Spike Dup (A315096-MSD2), Source: A3L1704-01											
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0	ND	101	80-120	1	20	12/20/13	

Metals Quality Control Report

EPA 200.7 - Quality Control

Batch: A315133 Prepared: 12/20/2013

Prep Method: Filtration - Metals Analyst: NRE

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A315133-BLK2)											
Barium - Dissolved (1)	ND	0.050	mg/L							12/27/13	
Boron - Dissolved (1)	ND	0.10	mg/L							12/27/13	
Calcium - Dissolved (1)	ND	0.10	mg/L							12/27/13	
Iron - Dissolved (1)	ND	0.030	mg/L							12/27/13	
Magnesium - Dissolved (1)	ND	0.10	mg/L							12/27/13	
Manganese - Dissolved (1)	ND	0.010	mg/L							12/27/13	
Potassium - Dissolved (1)	ND	2.0	mg/L							12/27/13	
Silica (SiO2) - Dissolved (1)	ND	0.20	mg/L							12/27/13	
Sodium - Dissolved (1)	ND	1.0	mg/L							12/27/13	
Blank Spike (A315133-BS2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		99	85-115			12/27/13	
Boron - Dissolved (1)	0.59	0.10	mg/L	0.60		98	85-115			12/27/13	
Calcium - Dissolved (1)	10	0.10	mg/L	10		100	85-115			12/27/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		99	85-115			12/27/13	
Magnesium - Dissolved (1)	9.8	0.10	mg/L	10		98	85-115			12/27/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20		97	85-115			12/27/13	
Potassium - Dissolved (1)	9.9	2.0	mg/L	10		99	85-115			12/27/13	
Silica (SiO2) - Dissolved (1)	2.1	0.20	mg/L	2.1		100	85-115			12/27/13	
Sodium - Dissolved (1)	10	1.0	mg/L	10		100	85-115			12/27/13	
Blank Spike Dup (A315133-BSD2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		99	85-115	0	20	12/27/13	
Boron - Dissolved (1)	0.60	0.10	mg/L	0.60		99	85-115	2	20	12/27/13	
Calcium - Dissolved (1)	9.8	0.10	mg/L	10		98	85-115	2	20	12/27/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		100	85-115	1	20	12/27/13	
Magnesium - Dissolved (1)	9.8	0.10	mg/L	10		98	85-115	0	20	12/27/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20		98	85-115	1	20	12/27/13	
Potassium - Dissolved (1)	9.8	2.0	mg/L	10		98	85-115	2	20	12/27/13	
Silica (SiO2) - Dissolved (1)	2.1	0.20	mg/L	2.1		99	85-115	1	20	12/27/13	
Sodium - Dissolved (1)	9.8	1.0	mg/L	10		98	85-115	1	20	12/27/13	
Matrix Spike (A315133-MS3), Source: A3L1172-03											
Barium - Dissolved (1)	0.21	0.050	mg/L	0.20	ND	105	70-130			12/27/13	
Boron - Dissolved (1)	0.65	0.10	mg/L	0.60	ND	96	70-130			12/27/13	
Calcium - Dissolved (1)	33	0.10	mg/L	10	23	96	70-130			12/27/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0	ND	99	70-130			12/27/13	
Magnesium - Dissolved (1)	9.8	0.10	mg/L	10	0.15	96	70-130			12/27/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20	ND	97	70-130			12/27/13	
Potassium - Dissolved (1)	10	2.0	mg/L	10	ND	101	70-130			12/27/13	
Silica (SiO2) - Dissolved (1)	21	0.20	mg/L	2.1	18	105	70-130			12/27/13	
Sodium - Dissolved (1)	92	1.0	mg/L	10	82	102	70-130			12/27/13	
Matrix Spike Dup (A315133-MSD3), Source: A3L1172-03											
Barium - Dissolved (1)	0.21	0.050	mg/L	0.20	ND	104	70-130	1	20	12/27/13	
Boron - Dissolved (1)	0.65	0.10	mg/L	0.60	ND	95	70-130	1	20	12/27/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A315133										Prepared: 12/20/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Matrix Spike Dup (A315133-MSD3), Source: A3L1172-03											
Calcium - Dissolved (1)	32	0.10	mg/L	10	23	93	70-130	1	20	12/27/13	
Iron - Dissolved (1)	1.9	0.030	mg/L	2.0	ND	97	70-130	1	20	12/27/13	
Magnesium - Dissolved (1)	9.6	0.10	mg/L	10	0.15	94	70-130	2	20	12/27/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20	ND	96	70-130	1	20	12/27/13	
Potassium - Dissolved (1)	10	2.0	mg/L	10	ND	100	70-130	1	20	12/27/13	
Silica (SiO2) - Dissolved (1)	20	0.20	mg/L	2.1	18	98	70-130	1	20	12/27/13	
Sodium - Dissolved (1)	92	1.0	mg/L	10	82	100	70-130	0	20	12/27/13	
EPA 200.7 - Quality Control											
Batch: A315150										Prepared: 12/23/2013	
Prep Method: EPA 200.2										Analyst: NRE	
Blank (A315150-BLK2)											
Aluminum	ND	0.050	mg/L							12/30/13	
Calcium	ND	0.10	mg/L							12/30/13	
Iron	ND	0.030	mg/L							12/30/13	
Magnesium	ND	0.10	mg/L							12/30/13	
Manganese	ND	0.010	mg/L							12/30/13	
Zinc	ND	0.050	mg/L							12/30/13	
Blank Spike (A315150-BS2)											
Aluminum	0.20	0.050	mg/L	0.20		98	85-115			12/30/13	
Calcium	10	0.10	mg/L	10		100	85-115			12/30/13	
Iron	2.0	0.030	mg/L	2.0		100	85-115			12/30/13	
Magnesium	9.8	0.10	mg/L	10		98	85-115			12/30/13	
Manganese	0.20	0.010	mg/L	0.20		98	85-115			12/30/13	
Zinc	0.21	0.050	mg/L	0.20		104	85-115			12/30/13	
Blank Spike Dup (A315150-BSD2)											
Aluminum	0.21	0.050	mg/L	0.20		103	85-115	6	20	12/30/13	
Calcium	10	0.10	mg/L	10		101	85-115	1	20	12/30/13	
Iron	2.1	0.030	mg/L	2.0		103	85-115	3	20	12/30/13	
Magnesium	10	0.10	mg/L	10		101	85-115	2	20	12/30/13	
Manganese	0.20	0.010	mg/L	0.20		102	85-115	3	20	12/30/13	
Zinc	0.21	0.050	mg/L	0.20		106	85-115	3	20	12/30/13	
Matrix Spike (A315150-MS3), Source: A3L1701-01											
Aluminum	0.26	0.050	mg/L	0.20	ND	113	70-130			12/30/13	
Calcium	430	0.10	mg/L	10	400	246	70-130			12/30/13	MS1.0 ***High***
Iron	1.9	0.030	mg/L	2.0	0.042	94	70-130			12/30/13	
Magnesium	280	0.10	mg/L	10	260	196	70-130			12/30/13	MS1.0 ***High***
Manganese	0.21	0.010	mg/L	0.20	0.021	93	70-130			12/30/13	
Zinc	0.18	0.050	mg/L	0.20	ND	89	70-130			12/30/13	
Matrix Spike (A315150-MS4), Source: A3L1709-01											
Aluminum	0.19	0.050	mg/L	0.20	ND	94	70-130			12/30/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A315150										Prepared: 12/23/2013	
Prep Method: EPA 200.2										Analyst: PSK	
Matrix Spike (A315150-MS4), Source: A3L1709-01											
Calcium	48	0.10	mg/L	10	39	99	70-130			12/30/13	
Iron	1.9	0.030	mg/L	2.0	ND	97	70-130			12/30/13	
Magnesium	27	0.10	mg/L	10	17	95	70-130			12/30/13	
Manganese	0.24	0.010	mg/L	0.20	0.053	95	70-130			12/30/13	
Zinc	0.21	0.050	mg/L	0.20	ND	103	70-130			12/30/13	
Matrix Spike (A315150-MS6), Source: A3L1709-01											
Calcium	46	0.10	mg/L	10	39	78	70-130			01/02/14	
Iron	1.9	0.030	mg/L	2.0	ND	96	70-130			01/02/14	
Magnesium	26	0.10	mg/L	10	17	89	70-130			01/02/14	
Manganese	0.24	0.010	mg/L	0.20	0.053	93	70-130			01/02/14	
Matrix Spike Dup (A315150-MSD3), Source: A3L1701-01											
Aluminum	0.25	0.050	mg/L	0.20	ND	110	70-130	2	20	12/30/13	
Calcium	390	0.10	mg/L	10	400	NR	70-130	9	20	12/30/13	MS1.0 ***Low***
Iron	1.9	0.030	mg/L	2.0	0.042	93	70-130	1	20	12/30/13	
Magnesium	260	0.10	mg/L	10	260	NR	70-130	8	20	12/30/13	MS1.0 ***Low***
Manganese	0.20	0.010	mg/L	0.20	0.021	91	70-130	2	20	12/30/13	
Zinc	0.17	0.050	mg/L	0.20	ND	83	70-130	7	20	12/30/13	
Matrix Spike Dup (A315150-MSD4), Source: A3L1709-01											
Aluminum	0.20	0.050	mg/L	0.20	ND	100	70-130	6	20	12/30/13	
Calcium	49	0.10	mg/L	10	39	103	70-130	1	20	12/30/13	
Iron	2.0	0.030	mg/L	2.0	ND	100	70-130	3	20	12/30/13	
Magnesium	27	0.10	mg/L	10	17	99	70-130	1	20	12/30/13	
Manganese	0.25	0.010	mg/L	0.20	0.053	98	70-130	2	20	12/30/13	
Zinc	0.21	0.050	mg/L	0.20	ND	107	70-130	3	20	12/30/13	
Matrix Spike Dup (A315150-MSD6), Source: A3L1709-01											
Calcium	46	0.10	mg/L	10	39	72	70-130	1	20	01/02/14	
Iron	1.9	0.030	mg/L	2.0	ND	95	70-130	1	20	01/02/14	
Magnesium	26	0.10	mg/L	10	17	86	70-130	1	20	01/02/14	
Manganese	0.24	0.010	mg/L	0.20	0.053	93	70-130	1	20	01/02/14	
EPA 200.8 - Quality Control											
Batch: A315133										Prepared: 12/20/2013	
Prep Method: Filtration - Metals										Analyst: PSK	
Blank (A315133-BLK3)											
Strontium - Dissolved (1)	ND	1.0	ug/L							12/27/13	
Blank Spike (A315133-BS3)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		100	85-115			12/27/13	
Blank Spike Dup (A315133-BSD3)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		99	85-115	1	20	12/27/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A315133										Prepared: 12/20/2013	
Prep Method: Filtration - Metals										Analyst: PSK	
Matrix Spike (A315133-MS2), Source: A3L1605-05											
Strontium - Dissolved (1)	430	1.0	ug/L	200	230	99	70-130			12/27/13	
Matrix Spike (A315133-MS4), Source: A3L1172-03											
Strontium - Dissolved (1)	410	1.0	ug/L	200	220	98	70-130			12/27/13	
Matrix Spike Dup (A315133-MSD2), Source: A3L1605-05											
Strontium - Dissolved (1)	430	1.0	ug/L	200	230	100	70-130	1	20	12/27/13	
Matrix Spike Dup (A315133-MSD4), Source: A3L1172-03											
Strontium - Dissolved (1)	420	1.0	ug/L	200	220	100	70-130	1	20	12/27/13	
EPA 200.8 - Quality Control											
Batch: A315150										Prepared: 12/23/2013	
Prep Method: EPA 200.2										Analyst: PSK	
Blank (A315150-BLK1)											
Arsenic	ND	2.0	ug/L							12/27/13	
Copper	ND	5.0	ug/L							12/27/13	
Blank Spike (A315150-BS1)											
Arsenic	190	2.0	ug/L	200		94	85-115			12/27/13	
Copper	190	5.0	ug/L	200		93	85-115			12/27/13	
Blank Spike Dup (A315150-BSD1)											
Arsenic	190	2.0	ug/L	200		96	85-115	2	20	12/27/13	
Copper	190	5.0	ug/L	200		94	85-115	1	20	12/27/13	
Matrix Spike (A315150-MS1), Source: A3L1701-01											
Arsenic	190	2.0	ug/L	200	5.0	93	70-130			12/27/13	
Copper	200	5.0	ug/L	200	29	84	70-130			12/27/13	
Matrix Spike (A315150-MS2), Source: A3L1709-01											
Arsenic	190	2.0	ug/L	200	ND	96	70-130			12/27/13	
Copper	190	5.0	ug/L	200	6.7	89	70-130			12/27/13	
Matrix Spike Dup (A315150-MSD1), Source: A3L1701-01											
Arsenic	190	2.0	ug/L	200	5.0	91	70-130	3	20	12/27/13	
Copper	180	5.0	ug/L	200	29	77	70-130	6	20	12/27/13	
Matrix Spike Dup (A315150-MSD2), Source: A3L1709-01											
Arsenic	190	2.0	ug/L	200	ND	95	70-130	1	20	12/27/13	
Copper	190	5.0	ug/L	200	6.7	90	70-130	1	20	12/27/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A315261										Prepared: 12/24/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A315261-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							12/25/13	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							12/25/13	
Surrogate: TCMX	*4.8*			*4.5*		*109*	*70-130*			12/25/13	
Blank Spike (A315261-BS1)											
Dibromochloropropane (DBCP)	0.21	0.010	ug/L	0.20		105	70-130			12/25/13	
Ethylene Dibromide (EDB)	0.22	0.020	ug/L	0.20		109	70-130			12/25/13	
Surrogate: TCMX	*5.0*			*4.5*		*112*	*70-130*			12/25/13	
Blank Spike Dup (A315261-BSD1)											
Dibromochloropropane (DBCP)	0.21	0.010	ug/L	0.20		107	70-130	2	20	12/25/13	
Ethylene Dibromide (EDB)	0.22	0.020	ug/L	0.20		111	70-130	2	20	12/25/13	
Surrogate: TCMX	*5.1*			*4.5*		*115*	*70-130*			12/25/13	
Matrix Spike (A315261-MS1), Source: A3L1733-01											
Dibromochloropropane (DBCP)	0.80	0.010	ug/L	0.20	0.73	30	65-135			12/25/13	MS1.4 ***Low***
Ethylene Dibromide (EDB)	0.22	0.020	ug/L	0.20	ND	103	65-135			12/25/13	
Surrogate: TCMX	*5.3*			*4.5*		*117*	*70-130*			12/25/13	
Matrix Spike Dup (A315261-MSD1), Source: A3L1733-01											
Dibromochloropropane (DBCP)	0.88	0.010	ug/L	0.20	0.73	70	65-135	9	20	12/25/13	
Ethylene Dibromide (EDB)	0.24	0.020	ug/L	0.20	ND	114	65-135	9	20	12/25/13	
Surrogate: TCMX	*5.7*			*4.5*		*128*	*70-130*			12/25/13	
EPA 505 - Quality Control											
Batch: A315261										Prepared: 12/24/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A315261-BLK1)											
Aldrin	ND	0.075	ug/L							12/25/13	
Chlordane	ND	0.10	ug/L							12/25/13	
Chlorothalonil	ND	5.0	ug/L							12/25/13	
Dieldrin	ND	0.020	ug/L							12/25/13	
Endrin	ND	0.10	ug/L							12/25/13	
Heptachlor	ND	0.010	ug/L							12/25/13	
Heptachlor Epoxide	ND	0.010	ug/L							12/25/13	
Hexachlorobenzene	ND	0.50	ug/L							12/25/13	
Hexachlorocyclopentadiene	ND	1.0	ug/L							12/25/13	
Lindane	ND	0.20	ug/L							12/25/13	
Methoxychlor	ND	10	ug/L							12/25/13	
PCB Aroclor Screen	ND	0.50	ug/L							12/25/13	
Toxaphene	ND	1.0	ug/L							12/25/13	
Trifluralin	ND	1.0	ug/L							12/25/13	
Surrogate: TCMX	*4.8*			*4.5*		*109*	*70-130*			12/25/13	
Blank Spike (A315261-BS1)											

Organics Quality Control Report

EPA 505 - Quality Control

Batch: A315261 Prepared: 12/24/2013

Prep Method: EPA 505 Analyst: GAK

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A315261-BS1)											
Aldrin	1.0	0.075	ug/L	1.0		102	70-130			12/25/13	
Chlorothalonil	10	5.0	ug/L	10		105	70-130			12/25/13	
Dieldrin	0.43	0.020	ug/L	0.40		107	70-130			12/25/13	
Endrin	0.22	0.10	ug/L	0.20		108	70-130			12/25/13	
Heptachlor	0.21	0.010	ug/L	0.20		106	70-130			12/25/13	
Heptachlor Epoxide	0.21	0.010	ug/L	0.20		106	70-130			12/25/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0		105	70-130			12/25/13	
Hexachlorocyclopentadiene	2.1	1.0	ug/L	2.0		105	70-130			12/25/13	
Lindane	0.42	0.20	ug/L	0.40		105	70-130			12/25/13	
Methoxychlor	2.3	10	ug/L	2.0		115	70-130			12/25/13	
Trifluralin	2.1	1.0	ug/L	2.0		107	70-130			12/25/13	
Surrogate: TCMX	*5.0*			*4.5*		*112*	*70-130*			12/25/13	
Blank Spike Dup (A315261-BSD1)											
Aldrin	1.1	0.075	ug/L	1.0		110	70-130	8	20	12/25/13	
Chlorothalonil	10	5.0	ug/L	10		102	70-130	2	20	12/25/13	
Dieldrin	0.43	0.020	ug/L	0.40		108	70-130	0	20	12/25/13	
Endrin	0.22	0.10	ug/L	0.20		110	70-130	1	20	12/25/13	
Heptachlor	0.22	0.010	ug/L	0.20		110	70-130	4	20	12/25/13	
Heptachlor Epoxide	0.21	0.010	ug/L	0.20		107	70-130	1	20	12/25/13	
Hexachlorobenzene	2.2	0.50	ug/L	2.0		108	70-130	3	20	12/25/13	
Hexachlorocyclopentadiene	2.2	1.0	ug/L	2.0		109	70-130	4	20	12/25/13	
Lindane	0.44	0.20	ug/L	0.40		109	70-130	4	20	12/25/13	
Methoxychlor	2.3	10	ug/L	2.0		114	70-130	2	20	12/25/13	
Trifluralin	2.2	1.0	ug/L	2.0		110	70-130	3	20	12/25/13	
Surrogate: TCMX	*5.1*			*4.5*		*115*	*70-130*			12/25/13	
Matrix Spike (A315261-MS1), Source: A3L1733-01											
Aldrin	1.1	0.075	ug/L	1.0	ND	108	65-135			12/25/13	
Chlorothalonil	10	5.0	ug/L	10	ND	99	65-135			12/25/13	
Dieldrin	0.39	0.020	ug/L	0.40	ND	96	65-135			12/25/13	
Endrin	0.21	0.10	ug/L	0.20	ND	105	65-135			12/25/13	
Heptachlor	0.22	0.010	ug/L	0.20	ND	108	65-135			12/25/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20	ND	97	65-135			12/25/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0	ND	102	65-135			12/25/13	
Hexachlorocyclopentadiene	2.2	1.0	ug/L	2.0	ND	105	65-135			12/25/13	
Lindane	0.40	0.20	ug/L	0.40	ND	98	65-135			12/25/13	
Methoxychlor	2.2	10	ug/L	2.0	ND	107	65-135			12/25/13	
Trifluralin	2.1	1.0	ug/L	2.0	ND	106	65-135			12/25/13	
Surrogate: TCMX	*5.3*			*4.5*		*117*	*70-130*			12/25/13	
Matrix Spike Dup (A315261-MSD1), Source: A3L1733-01											
Aldrin	1.2	0.075	ug/L	1.0	ND	121	65-135	11	20	12/25/13	
Chlorothalonil	11	5.0	ug/L	10	ND	107	65-135	7	20	12/25/13	
Dieldrin	0.42	0.020	ug/L	0.40	ND	106	65-135	9	20	12/25/13	
Endrin	0.22	0.10	ug/L	0.20	ND	112	65-135	5	20	12/25/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 505 - Quality Control											
Batch: A315261										Prepared: 12/24/2013	
Prep Method: EPA 505										Analyst: GAK	
Matrix Spike Dup (A315261-MSD1), Source: A3L1733-01											
Heptachlor	0.24	0.010	ug/L	0.20	ND	118	65-135	8	20	12/25/13	
Heptachlor Epoxide	0.21	0.010	ug/L	0.20	ND	106	65-135	8	20	12/25/13	
Hexachlorobenzene	2.3	0.50	ug/L	2.0	ND	113	65-135	10	20	12/25/13	
Hexachlorocyclopentadiene	2.4	1.0	ug/L	2.0	ND	117	65-135	11	20	12/25/13	
Lindane	0.44	0.20	ug/L	0.40	ND	109	65-135	10	20	12/25/13	
Methoxychlor	2.3	10	ug/L	2.0	ND	117	65-135	8	20	12/25/13	
Trifluralin	2.3	1.0	ug/L	2.0	ND	112	65-135	5	20	12/25/13	
Surrogate: TCMX	*5.7*			*4.5*		*128*	*70-130*			12/25/13	
EPA 515.3 - Quality Control											
Batch: A315300										Prepared: 12/26/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A315300-BLK1)											
2,4,5-T	ND	1.0	ug/L							12/28/13	
2,4,5-TP (Silvex)	ND	1.0	ug/L							12/28/13	
2,4-D	ND	10	ug/L							12/28/13	
Bentazon	ND	2.0	ug/L							12/28/13	
Dalapon	ND	10	ug/L							12/28/13	
Dicamba	ND	1.5	ug/L							12/28/13	
Dinoseb	ND	2.0	ug/L							12/28/13	
Pentachlorophenol	ND	0.20	ug/L							12/28/13	
Picloram	ND	1.0	ug/L							12/28/13	
Surrogate: DCPAA	*59*			*58*		*102*	*70-130*			12/28/13	
Blank Spike (A315300-BS1)											
2,4,5-T	4.7	1.0	ug/L	4.0		117	70-130			12/28/13	
2,4,5-TP (Silvex)	0.94	1.0	ug/L	0.80		117	70-130			12/28/13	
2,4-D	0.47	10	ug/L	0.40		117	70-130			12/28/13	
Bentazon	8.7	2.0	ug/L	8.0		109	70-130			12/28/13	
Dalapon	4.2	10	ug/L	4.0		106	70-130			12/28/13	
Dicamba	7.1	1.5	ug/L	6.0		118	70-130			12/28/13	
Dinoseb	0.90	2.0	ug/L	0.80		113	70-130			12/28/13	
Pentachlorophenol	0.19	0.20	ug/L	0.16		116	70-130			12/28/13	
Picloram	0.46	1.0	ug/L	0.40		116	70-130			12/28/13	
Surrogate: DCPAA	*59*			*58*		*101*	*70-130*			12/28/13	
Blank Spike Dup (A315300-BSD1)											
2,4,5-T	4.0	1.0	ug/L	4.0		100	70-130	15	20	12/28/13	
2,4,5-TP (Silvex)	0.80	1.0	ug/L	0.80		100	70-130	16	20	12/28/13	
2,4-D	0.38	10	ug/L	0.40		96	70-130	19	20	12/28/13	
Bentazon	8.1	2.0	ug/L	8.0		102	70-130	7	20	12/28/13	
Dalapon	3.9	10	ug/L	4.0		98	70-130	8	20	12/28/13	
Dicamba	5.9	1.5	ug/L	6.0		98	70-130	18	20	12/28/13	
Dinoseb	0.81	2.0	ug/L	0.80		102	70-130	10	20	12/28/13	
Pentachlorophenol	0.15	0.20	ug/L	0.16		96	70-130	19	20	12/28/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 515.3 - Quality Control												
Batch: A315300										Prepared: 12/26/2013		
Prep Method: EPA 515.3										Analyst: GAK		
Blank Spike Dup (A315300-BSD1)												
Picloram	0.40	1.0	ug/L	0.40		100	70-130	15	20	12/28/13		
Surrogate: DCPAA	*48*			*58*		*83*	*70-130*			12/28/13		
Matrix Spike (A315300-MS1), Source: A3L1370-07												
2,4,5-T	4.0	1.0	ug/L	4.0	ND	100	70-130			12/28/13		
2,4,5-TP (Silvex)	0.80	1.0	ug/L	0.80	ND	100	70-130			12/28/13		
2,4-D	0.40	10	ug/L	0.40	ND	99	70-130			12/28/13		
Bentazon	8.1	2.0	ug/L	8.0	ND	102	70-130			12/28/13		
Dalapon	4.2	10	ug/L	4.0	ND	106	70-130			12/28/13		
Dicamba	6.0	1.5	ug/L	6.0	ND	101	70-130			12/28/13		
Dinoseb	0.75	2.0	ug/L	0.80	ND	94	70-130			12/28/13		
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	92	70-130			12/28/13		
Picloram	0.42	1.0	ug/L	0.40	ND	106	70-130			12/28/13		
Surrogate: DCPAA	*50*			*58*		*86*	*70-130*			12/28/13		
EPA 525.2 - Quality Control												
Batch: A315174										Prepared: 12/23/2013		
Prep Method: EPA 525.2										Analyst: KHH		
Blank (A315174-BLK1)												
Alachlor	ND	1.0	ug/L							12/23/13		
Atrazine	ND	0.50	ug/L							12/23/13		
Benzo(a)pyrene	ND	0.10	ug/L							12/23/13		
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							12/23/13		
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							12/23/13		
Bromacil	ND	10	ug/L							12/23/13		
Butachlor	ND	0.38	ug/L							12/23/13		
Diazinon	ND	0.25	ug/L							12/23/13		
Dimethoate	ND	10	ug/L							12/23/13		
Metolachlor	ND	0.50	ug/L							12/23/13		
Metribuzin	ND	0.50	ug/L							12/23/13		
Molinate	ND	2.0	ug/L							12/23/13		
Propachlor	ND	0.50	ug/L							12/23/13		
Simazine	ND	1.0	ug/L							12/23/13		
Thiobencarb	ND	1.0	ug/L							12/23/13		
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.2*			*5.0*		*103*	*70-130*			12/23/13		
Blank Spike (A315174-BS1)												
Alachlor	0.54	1.0	ug/L	0.50		107	70-130			12/24/13		
Atrazine	0.53	0.50	ug/L	0.50		105	70-130			12/24/13		
Benzo(a)pyrene	0.13	0.10	ug/L	0.10		125	70-130			12/24/13		
Bis(2-ethylhexyl) adipate	3.0	3.0	ug/L	3.0		101	70-130			12/24/13		
Bis(2-ethylhexyl) phthalate	3.3	3.0	ug/L	3.0		108	70-130			12/24/13		
Bromacil	2.6	10	ug/L	2.0		131	70-130			12/24/13	BS	***High***
Butachlor	1.5	0.38	ug/L	1.3		117	70-130			12/24/13		
Diazinon	0.043	0.25	ug/L	0.050		86	70-130			12/24/13		

Organics Quality Control Report

EPA 525.2 - Quality Control

Batch: A315174 Prepared: 12/23/2013

Prep Method: EPA 525.2 Analyst: KHH

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A315174-BS1)											
Dimethoate	0.63	10	ug/L	0.50		124	70-130			12/24/13	
Metolachlor	3.0	0.50	ug/L	2.5		118	70-130			12/24/13	
Metribuzin	3.0	0.50	ug/L	2.5		117	70-130			12/24/13	
Molinate	2.7	2.0	ug/L	2.5		105	70-130			12/24/13	
Propachlor	2.8	0.50	ug/L	2.5		110	70-130			12/24/13	
Simazine	0.39	1.0	ug/L	0.35		111	70-130			12/24/13	
Thiobencarb	0.55	1.0	ug/L	0.50		110	70-130			12/24/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.8*			*5.0*		*96*	*70-130*			12/24/13	
Blank Spike Dup (A315174-BSD1)											
Alachlor	0.50	1.0	ug/L	0.50		101	70-130	7	30	12/23/13	
Atrazine	0.53	0.50	ug/L	0.50		106	70-130	0	30	12/23/13	
Benzo(a)pyrene	0.13	0.10	ug/L	0.10		128	70-130	1	30	12/23/13	
Bis(2-ethylhexyl) adipate	3.0	3.0	ug/L	3.0		101	70-130	1	30	12/23/13	
Bis(2-ethylhexyl) phthalate	3.3	3.0	ug/L	3.0		111	70-130	2	30	12/23/13	
Bromacil	2.3	10	ug/L	2.0		115	70-130	14	30	12/23/13	
Butachlor	1.3	0.38	ug/L	1.2		108	70-130	8	30	12/23/13	
Diazinon	0.035	0.25	ug/L	0.050		70	70-130	22	30	12/23/13	
Dimethoate	0.55	10	ug/L	0.50		111	70-130	12	30	12/23/13	
Metolachlor	2.7	0.50	ug/L	2.5		110	70-130	8	30	12/23/13	
Metribuzin	2.9	0.50	ug/L	2.5		114	70-130	4	30	12/23/13	
Molinate	2.7	2.0	ug/L	2.5		107	70-130	1	30	12/23/13	
Propachlor	2.7	0.50	ug/L	2.5		108	70-130	3	30	12/23/13	
Simazine	0.40	1.0	ug/L	0.35		115	70-130	2	30	12/23/13	
Thiobencarb	0.57	1.0	ug/L	0.50		113	70-130	2	30	12/23/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*5.0*		*100*	*70-130*			12/23/13	
Matrix Spike (A315174-MS1), Source: A3L1502-01											
Alachlor	0.53	1.0	ug/L	0.50	ND	106	70-130			12/23/13	
Atrazine	0.56	0.50	ug/L	0.50	ND	113	70-130			12/23/13	
Benzo(a)pyrene	0.12	0.10	ug/L	0.10	ND	122	70-130			12/23/13	
Bis(2-ethylhexyl) adipate	3.0	3.0	ug/L	3.0	ND	101	70-130			12/23/13	
Bis(2-ethylhexyl) phthalate	3.1	3.0	ug/L	3.0	ND	104	70-130			12/23/13	
Bromacil	2.5	10	ug/L	2.0	ND	125	70-130			12/23/13	
Butachlor	1.4	0.38	ug/L	1.2	ND	111	70-130			12/23/13	
Diazinon	0.047	0.25	ug/L	0.050	ND	94	70-130			12/23/13	
Dimethoate	0.60	10	ug/L	0.50	ND	121	70-130			12/23/13	
Metolachlor	2.8	0.50	ug/L	2.5	ND	112	70-130			12/23/13	
Metribuzin	2.9	0.50	ug/L	2.5	ND	117	70-130			12/23/13	
Molinate	2.7	2.0	ug/L	2.5	ND	109	70-130			12/23/13	
Propachlor	2.7	0.50	ug/L	2.5	ND	108	70-130			12/23/13	
Simazine	0.40	1.0	ug/L	0.35	ND	115	70-130			12/23/13	
Thiobencarb	0.54	1.0	ug/L	0.50	ND	108	70-130			12/23/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*5.0*		*100*	*70-130*			12/23/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A315323										Prepared: 12/26/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A315323-BLK1)											
3-Hydroxycarbofuran	ND	3.0	ug/L							12/27/13	
Aldicarb	ND	3.0	ug/L							12/27/13	
Aldicarb Sulfone	ND	2.0	ug/L							12/27/13	
Aldicarb Sulfoxide	ND	3.0	ug/L							12/27/13	
Carbaryl	ND	5.0	ug/L							12/27/13	
Carbofuran	ND	5.0	ug/L							12/27/13	
Methomyl	ND	2.0	ug/L							12/27/13	
Oxamyl	ND	20	ug/L							12/27/13	
Blank Spike (A315323-BS1)											
3-Hydroxycarbofuran	4.6	3.0	ug/L	4.2		110	80-120			12/27/13	
Aldicarb	4.5	3.0	ug/L	4.2		108	80-120			12/27/13	
Aldicarb Sulfone	4.6	2.0	ug/L	4.2		109	80-120			12/27/13	
Aldicarb Sulfoxide	4.6	3.0	ug/L	4.2		111	80-120			12/27/13	
Carbaryl	4.4	5.0	ug/L	4.2		105	80-120			12/27/13	
Carbofuran	4.7	5.0	ug/L	4.2		113	80-120			12/27/13	
Methomyl	4.5	2.0	ug/L	4.2		109	80-120			12/27/13	
Oxamyl	4.6	20	ug/L	4.2		111	80-120			12/27/13	
Blank Spike Dup (A315323-BSD1)											
3-Hydroxycarbofuran	4.4	3.0	ug/L	4.2		105	80-120	4	20	12/27/13	
Aldicarb	4.5	3.0	ug/L	4.2		107	80-120	1	20	12/27/13	
Aldicarb Sulfone	4.3	2.0	ug/L	4.2		103	80-120	6	20	12/27/13	
Aldicarb Sulfoxide	4.4	3.0	ug/L	4.2		104	80-120	6	20	12/27/13	
Carbaryl	4.3	5.0	ug/L	4.2		104	80-120	2	20	12/27/13	
Carbofuran	4.5	5.0	ug/L	4.2		107	80-120	6	20	12/27/13	
Methomyl	4.3	2.0	ug/L	4.2		103	80-120	5	20	12/27/13	
Oxamyl	4.4	20	ug/L	4.2		105	80-120	5	20	12/27/13	
Matrix Spike (A315323-MS1), Source: A3L1441-01											
3-Hydroxycarbofuran	5.7	3.0	ug/L	4.2	ND	137	65-135			12/27/13	MS1.0 ***High***
Aldicarb	5.6	3.0	ug/L	4.2	ND	135	65-135			12/27/13	
Aldicarb Sulfone	5.7	2.0	ug/L	4.2	ND	136	65-135			12/27/13	MS1.0 ***High***
Aldicarb Sulfoxide	5.8	3.0	ug/L	4.2	ND	139	65-135			12/27/13	MS1.0 ***High***
Carbaryl	5.6	5.0	ug/L	4.2	ND	134	65-135			12/27/13	
Carbofuran	5.9	5.0	ug/L	4.2	ND	142	65-135			12/27/13	MS1.0 ***High***
Methomyl	5.7	2.0	ug/L	4.2	ND	137	65-135			12/27/13	MS1.0 ***High***
Oxamyl	5.8	20	ug/L	4.2	ND	140	65-135			12/27/13	MS1.0 ***High***
EPA 547 - Quality Control											
Batch: A315140										Prepared: 12/21/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank (A315140-BLK1)											
Glyphosate	ND	25	ug/L							12/21/13	
Surrogate: AMPA	*100*			*100*		*101*	*70-130*			12/21/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 547 - Quality Control											
Batch: A315140										Prepared: 12/21/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank Spike (A315140-BS1)											
Glyphosate	95	25	ug/L	100		94	70-130			12/21/13	
Surrogate: AMPA	*110*			*100*		*107*	*70-130*			12/21/13	
Blank Spike Dup (A315140-BSD1)											
Glyphosate	100	25	ug/L	100		100	70-130	7	30	12/21/13	
Surrogate: AMPA	*110*			*100*		*106*	*70-130*			12/21/13	
Matrix Spike (A315140-MS1), Source: A3L1380-01											
Glyphosate	110	25	ug/L	100	ND	106	70-130			12/21/13	
Surrogate: AMPA	*110*			*100*		*108*	*70-130*			12/21/13	
Matrix Spike Dup (A315140-MSD1), Source: A3L1380-01											
Glyphosate	96	25	ug/L	100	ND	96	70-130	9	30	12/21/13	
Surrogate: AMPA	*100*			*100*		*105*	*70-130*			12/21/13	
EPA 548.1 - Quality Control											
Batch: A315322										Prepared: 12/26/2013	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A315322-BLK1)											
Endothall	ND	45	ug/L							12/27/13	
Blank Spike (A315322-BS1)											
Endothall	17	45	ug/L	20		85	60-111			12/27/13	
Blank Spike Dup (A315322-BSD1)											
Endothall	17	45	ug/L	20		86	60-111	1	46	12/27/13	
Matrix Spike (A315322-MS1), Source: A3L1635-01											
Endothall	ND	45	ug/L	20	ND	0	10-122			12/27/13	MS1.0 ***Low***
EPA 549.2 - Quality Control											
Batch: A315144										Prepared: 12/21/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A315144-BLK1)											
Diquat	ND	4.0	ug/L							12/26/13	
Blank Spike (A315144-BS1)											
Diquat	3.6	4.0	ug/L	4.0		90	70-130			12/26/13	
Blank Spike Dup (A315144-BSD1)											
Diquat	3.7	4.0	ug/L	4.0		93	70-130	4	30	12/26/13	
Matrix Spike (A315144-MS1), Source: A3L1441-01											
Diquat	3.6	4.0	ug/L	4.0	ND	91	70-130			12/26/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 549.2 - Quality Control											
Batch: A315144										Prepared: 12/21/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Matrix Spike (A315144-MS2), Source: A3L1451-01											
Diquat	3.7	4.0	ug/L	4.0	ND	92	70-130			12/26/13	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of California - ELAP	1180	State of Nevada	CA000792013-1
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA
State of California - NELAP	04227CA	State of Oregon	4017
State of Washington	C997	State of Oregon - NWTPH	4021

BSK is not accredited under the NELAC program for the following parameters:

Boron
Silica (SiO2)
Strontium
Threshold Odor

A3L1716

California American Water

Calif3295

12202013

Turnaround: Standard

Due Date: 1/6/2014

Printed: 12/20/2013 4:56:40PM

Page 1 of 1

BSK Associates
Engineers & Laboratories
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

*Required Fields

Temp: 0.2

Company/Client Name*: California American Water	Report Attention*: Travis Peterson Additional cc's: Sarp Sekeroglu, RBF Consulting	Invoice To*: Accounts Payable PO#:	Phone*: (831) 646-3295/(831) 646-3269 Fax*: (831) 333-1343 E-mail*: susan.jacobson@amwater.com,travis.peterson@amwater.com
Address*: PO Box 951	City*: Monterey	State*: CA	Zip*: 93942-0951
Project: Water Quality Analysis — MPWSP	Project #:		
Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type	How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail		
Sampler Name (Printed/Signature)*: Nathan Reynolds / [signature]	TAT* (**Surcharge): ☒ Standard - 10 Business Days ☐ **Rush: Date Needed		

Regulatory Carbon Copies: CDPH ☐ ☐ Fresno Co; Merced Co ☐ ☐ Tulare Co; Madera Co ☐ ☐ Other

Regulatory Compliance: ☐ EDT to California DPH; System Number*; ☐ Geotracker #:

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	Alkalinity, Hardness, MBAS, Color, Odor, TDS, pH, Turbidity, EC	Mass Balance-Dissolved: Cations and Anions	Dissolved Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na, Sr, silica	Total Metals: Al, As, Cu, Fe, Mn, Zn	Dissolved: Bromide, Chloride, Nitrite, Fluoride, Sulfate, Orthophosphate-P	Dissolved: Ammonia, TKN, Phosphorus	Nitrate+Nitrite as N, Nitrate-NO3,	EPA 524, 504, 505, 515, 525, 531, 547, 548, 549	EXT-Tritium, EXT-Lithium, EXT-Dissolved Iodide, EXT-Dioxin
27	ML-2 Zone #2 (90-100 ftbgs)	12-19-13	10:45	water	Seawater salinity levels.	X	X	X	X	X	X	X	X	X
					Lab to filter dissolved metals.									
					Lab to filter Diss. Ammonia, TKN, P									
					[redacted]									

Field Parameters: Temp = 16.4 °C
pH = 6.67
Sp Cond = 11,508 µS/cm
Turb = 0.72 NTU

Relinquished by (Signature and Printed Name): [signature] Nathan Reynolds	Company: GEOSCIENCE	Date: 12-19-13	Time: 13:5 pm	Received by (Signature and Printed Name): [signature]	Company: RBF
Relinquished by (Signature and Printed Name): [signature]	Company: RBF	Date: 12-19-13	Time: 1:35 pm	Received by (Signature and Printed Name):	Company:
Received for Lab by (Signature and Printed Name): [signature]		Date: 12/20/13	Time: 1500	Payment Received at Delivery: Date / Amount / PIA# / Int.	Check / Cash

Shipping Method: CHTRAC UPS GSO WALK-IN FED EX Courier
Cooling Method: Wet Blue None
Custody Seal: Y N
Chilling Process Begun: Y / N

Payment for services rendered as noted herein is due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

SR-FL-0012-05 Analytical Chain of Custody

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/ Time:	Yes No NA

Bottles Received — "–" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—	2C,1B,1A					
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—	2B					
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N	1A					
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—	2C,1A,1B					
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2C,2A					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	7V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—						
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

12/20/13

Split		Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
	S P				S P			
	S P				S P			

Comments: Out of HT.

Labeled by: JLH @ 16:23 Labels checked by: CH @ 1629 RUSH Paged by: _____ @ _____

External

A3L1716

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 01/02/14 13:21
Received Date: 12/31/13 10:45
Turnaround Time: Normal

Project: A3L1716

Phones: (559) 497-2888
Fax: (559) 485-6935

P.O. #:

Attn: Michael Ng

Client: BSK Analytical Laboratories
550 West Locust Avenue
Fresno, CA 93650

Dear Michael Ng :

Enclosed are the results of analyses for samples received 12/31/2013 with the Chain of Custody document. The samples were received in good condition, at 4.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 3L31022-01 **Sample ID:** A3L1716-01 **Matrix:** Water
Sampled by: Client **Sampled:** 12/19/13 10:45

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
1,1,1,2-Tetrachloroethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,1,1-Trichloroethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,1,2,2-Tetrachloroethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,1,2-Trichloroethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,1-Dichloroethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,1-Dichloroethene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,1-Dichloropropene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,2,3-Trichlorobenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,2,3-Trichloropropane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,2,4-Trichlorobenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,2,4-Trimethylbenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,2-Dichloroethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,2-Dichloropropane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,3,5-Trimethylbenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,3-Dichloropropane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
1,3-Dichloropropene, Total	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
2,2-Dichloropropane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
2-Butanone	ND		5.0	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
2-Chloroethyl vinyl ether	ND		1.0	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
2-Chlorotoluene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
2-Hexanone	ND		5.0	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
4-Chlorotoluene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
4-Methyl-2-pentanone	ND		5.0	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Benzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Bromobenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Bromochloromethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Bromodichloromethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	

Weck Laboratories, Inc. 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Weck Laboratories, Inc.
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Certificate of Analysis

Lab Sample ID: 3L31022-01 **Sample ID:** A3L1716-01 **Matrix:** Water
Sampled by: Client **Sampled:** 12/19/13 10:45

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Bromoform	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Bromomethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Carbon tetrachloride	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Chlorobenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Chloroethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Chloroform	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Chloromethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
cis-1,2-Dichloroethene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
cis-1,3-Dichloropropene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Dibromochloromethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Dibromomethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Dichlorodifluoromethane (Freon 12)	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Di-isopropyl ether	ND		2.0	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Ethyl tert-butyl ether	ND		2.0	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Ethylbenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Freon 113	ND		5.0	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Hexachlorobutadiene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Isopropylbenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
m,p-Xylene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
m-Dichlorobenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Methyl tert-butyl ether (MTBE)	ND		2.0	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Methylene chloride	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Naphthalene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
n-Butylbenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
n-Propylbenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
o-Dichlorobenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
o-Xylene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
p-Dichlorobenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
p-Isopropyltoluene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
sec-Butylbenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Styrene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Tert-amyl methyl ether	ND		2.0	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
tert-Butylbenzene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Tetrachloroethene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
THMs, Total	ND		2.0	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Toluene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
trans-1,2-Dichloroethene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
trans-1,3-Dichloropropene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Trichloroethene	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Trichlorofluoromethane	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Vinyl chloride	ND		0.50	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Xylenes, Total	ND		1.0	ug/l	1	EPA 524.2	12/31/13	12/31/13 14:48	W3L1469	
Surrogate: 1,2-Dichlorobenzene-d4	*78 %*		*70-130*	%		Concentration: *7.81*				
Surrogate: 4-Bromofluorobenzene	*77 %*		*70-130*	%		Concentration: *7.70*				

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Quality Control Section

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W3L1469 - EPA 524.2

Blank (W3L1469-BLK1) — **Prepared: 12/31/13 Analyzed: 12/31/13 14:17**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*10.1*		ug/l	*10.0*	*101*	*70-130*		
Surrogate: 4-Bromofluorobenzene		*10.4*		ug/l	*10.0*	*104*	*70-130*		
Dichlorodifluoromethane (Freon 12)		ND		ug/l					
Chloromethane		ND		ug/l					
Vinyl chloride		ND		ug/l					
Bromomethane		ND		ug/l					
Chloroethane		ND		ug/l					
Trichlorofluoromethane		ND		ug/l					
Freon 113		ND		ug/l					
1,1-Dichloroethene		ND		ug/l					
Methylene chloride		ND		ug/l					
trans-1,2-Dichloroethene		ND		ug/l					
Methyl tert-butyl ether (MTBE)		ND		ug/l					
1,1-Dichloroethane		ND		ug/l					
Di-isopropyl ether		ND		ug/l					
Ethyl tert-butyl ether		ND		ug/l					
2-Butanone		ND		ug/l					
2,2-Dichloropropane		ND		ug/l					
cis-1,2-Dichloroethene		ND		ug/l					
Bromochloromethane		ND		ug/l					
Chloroform		ND		ug/l					
1,1,1-Trichloroethane		ND		ug/l					
Carbon tetrachloride		ND		ug/l					
1,1-Dichloropropene		ND		ug/l					
Benzene		ND		ug/l					
1,2-Dichloroethane		ND		ug/l					
Tert-amyl methyl ether		ND		ug/l					
Trichloroethene		ND		ug/l					
1,2-Dichloropropane		ND		ug/l					
Dibromomethane		ND		ug/l					
Bromodichloromethane		ND		ug/l					
cis-1,3-Dichloropropene		ND		ug/l					
4-Methyl-2-pentanone		ND		ug/l					
2-Chloroethyl vinyl ether		ND		ug/l					
Toluene		ND		ug/l					
trans-1,3-Dichloropropene		ND		ug/l					
1,1,2-Trichloroethane		ND		ug/l					
Tetrachloroethene		ND		ug/l					
1,3-Dichloropropane		ND		ug/l					
Dibromochloromethane		ND		ug/l					
2-Hexanone		ND		ug/l					

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W3L1469 - EPA 524.2

Blank (W3L1469-BLK1) — **Prepared: 12/31/13 Analyzed: 12/31/13 14:17**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene		ND		ug/l					
1,1,1,2-Tetrachloroethane		ND		ug/l					
Ethylbenzene		ND		ug/l					
m,p-Xylene		ND		ug/l					
o-Xylene		ND		ug/l					
Styrene		ND		ug/l					
Bromoform		ND		ug/l					
Isopropylbenzene		ND		ug/l					
Bromobenzene		ND		ug/l					
1,1,2,2-Tetrachloroethane		ND		ug/l					
1,2,3-Trichloropropane		ND		ug/l					
n-Propylbenzene		ND		ug/l					
2-Chlorotoluene		ND		ug/l					
4-Chlorotoluene		ND		ug/l					
1,3,5-Trimethylbenzene		ND		ug/l					
tert-Butylbenzene		ND		ug/l					
1,2,4-Trimethylbenzene		ND		ug/l					
sec-Butylbenzene		ND		ug/l					
m-Dichlorobenzene		ND		ug/l					
p-Isopropyltoluene		ND		ug/l					
p-Dichlorobenzene		ND		ug/l					
o-Dichlorobenzene		ND		ug/l					
n-Butylbenzene		ND		ug/l					
1,2,4-Trichlorobenzene		ND		ug/l					
Hexachlorobutadiene		ND		ug/l					
Naphthalene		ND		ug/l					
1,2,3-Trichlorobenzene		ND		ug/l					
Xylenes, Total		ND		ug/l					
1,3-Dichloropropene, Total		ND		ug/l					
THMs, Total		ND		ug/l					

LCS (W3L1469-BS1) — **Prepared: 12/31/13 Analyzed: 12/31/13 12:11**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*13.6*	*S-BS*	ug/l	*10.0*	*136*	*70-130*		
Surrogate: 4-Bromofluorobenzene		*12.9*		ug/l	*10.0*	*129*	*70-130*		
Dichlorodifluoromethane (Freon 12)		6.06		ug/l	6.00	101	70-130		
Chloromethane		5.80		ug/l	6.00	97	70-130		
Vinyl chloride		5.85		ug/l	6.00	98	70-130		
Bromomethane		4.97		ug/l	6.00	83	70-130		
Chloroethane		5.29		ug/l	6.00	88	70-130		
Trichlorofluoromethane		3.98	BS-03	ug/l	6.00	66	70-130		
Freon 113		6.14		ug/l	6.00	102	70-130		
1,1-Dichloroethene		6.12		ug/l	6.00	102	70-130		
Methylene chloride		5.55		ug/l	6.00	92	70-130		

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W3L1469 - EPA 524.2

LCS (W3L1469-BS1) — **Prepared: 12/31/13 Analyzed: 12/31/13 12:11**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
trans-1,2-Dichloroethene		5.93		ug/l	6.00	99	70-130		
Methyl tert-butyl ether (MTBE)		6.77		ug/l	6.00	113	70-130		
1,1-Dichloroethane		6.06		ug/l	6.00	101	70-130		
Di-isopropyl ether		6.55		ug/l	6.00	109	70-130		
Ethyl tert-butyl ether		6.50		ug/l	6.00	108	70-130		
2-Butanone		6.41		ug/l	6.00	107	70-130		
2,2-Dichloropropane		7.05		ug/l	6.00	118	70-130		
cis-1,2-Dichloroethene		6.84		ug/l	6.00	114	70-130		
Bromochloromethane		5.94		ug/l	6.00	99	70-130		
Chloroform		5.71		ug/l	6.00	95	70-130		
1,1,1-Trichloroethane		5.73		ug/l	6.00	96	70-130		
Carbon tetrachloride		5.65		ug/l	6.00	94	70-130		
1,1-Dichloropropene		6.33		ug/l	6.00	106	70-130		
Benzene		6.16		ug/l	6.00	103	70-130		
1,2-Dichloroethane		5.77		ug/l	6.00	96	70-130		
Tert-amyl methyl ether		7.06		ug/l	6.00	118	70-130		
Trichloroethene		5.90		ug/l	6.00	98	70-130		
1,2-Dichloropropane		6.06		ug/l	6.00	101	70-130		
Dibromomethane		6.11		ug/l	6.00	102	70-130		
Bromodichloromethane		5.69		ug/l	6.00	95	70-130		
cis-1,3-Dichloropropene		6.77		ug/l	6.00	113	70-130		
4-Methyl-2-pentanone		5.12		ug/l	6.00	85	70-130		
2-Chloroethyl vinyl ether		5.93		ug/l	6.00	99	70-130		
Toluene		7.37		ug/l	6.00	123	70-130		
trans-1,3-Dichloropropene		7.03		ug/l	6.00	117	70-130		
1,1,2-Trichloroethane		6.04		ug/l	6.00	101	70-130		
Tetrachloroethene		6.34		ug/l	6.00	106	70-130		
1,3-Dichloropropane		6.21		ug/l	6.00	104	70-130		
Dibromochloromethane		6.03		ug/l	6.00	100	70-130		
2-Hexanone		5.12		ug/l	6.00	85	70-130		
Chlorobenzene		6.71		ug/l	6.00	112	70-130		
1,1,1,2-Tetrachloroethane		5.77		ug/l	6.00	96	70-130		
Ethylbenzene		6.44		ug/l	6.00	107	70-130		
m,p-Xylene		5.22		ug/l	6.00	87	70-130		
o-Xylene		5.19		ug/l	6.00	86	70-130		
Styrene		6.34		ug/l	6.00	106	70-130		
Bromoform		6.67		ug/l	6.00	111	70-130		
Isopropylbenzene		5.33		ug/l	6.00	89	70-130		
Bromobenzene		6.08		ug/l	6.00	101	70-130		
1,1,2,2-Tetrachloroethane		5.96		ug/l	6.00	99	70-130		
1,2,3-Trichloropropane		6.03		ug/l	6.00	100	70-130		
n-Propylbenzene		6.40		ug/l	6.00	107	70-130		
2-Chlorotoluene		7.27		ug/l	6.00	121	70-130		
4-Chlorotoluene		6.73		ug/l	6.00	112	70-130		

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W3L1469 - EPA 524.2

LCS (W3L1469-BS1) — **Prepared: 12/31/13 Analyzed: 12/31/13 12:11**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene		7.84	Q-08	ug/l	6.00	131	70-130		
tert-Butylbenzene		5.11		ug/l	6.00	85	70-130		
1,2,4-Trimethylbenzene		6.54		ug/l	6.00	109	70-130		
sec-Butylbenzene		7.34		ug/l	6.00	122	70-130		
m-Dichlorobenzene		6.26		ug/l	6.00	104	70-130		
p-Isopropyltoluene		5.27		ug/l	6.00	88	70-130		
p-Dichlorobenzene		6.30		ug/l	6.00	105	70-130		
o-Dichlorobenzene		5.93		ug/l	6.00	99	70-130		
n-Butylbenzene		6.70		ug/l	6.00	112	70-130		
1,2,4-Trichlorobenzene		6.57		ug/l	6.00	110	70-130		
Hexachlorobutadiene		6.97		ug/l	6.00	116	70-130		
Naphthalene		6.01		ug/l	6.00	100	70-130		
1,2,3-Trichlorobenzene		6.85		ug/l	6.00	114	70-130		

LCS Dup (W3L1469-BSD1) — **Prepared: 12/31/13 Analyzed: 12/31/13 13:14**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: 1,2-Dichlorobenzene-d4		*13.4*	S-BS	ug/l	*10.0*	*134*	*70-130*		
Surrogate: 4-Bromofluorobenzene		*12.8*		ug/l	*10.0*	*128*	*70-130*		
Dichlorodifluoromethane (Freon 12)		5.94		ug/l	6.00	99	70-130	2	30
Chloromethane		5.69		ug/l	6.00	95	70-130	2	30
Vinyl chloride		5.70		ug/l	6.00	95	70-130	3	30
Bromomethane		4.88		ug/l	6.00	81	70-130	2	30
Chloroethane		5.41		ug/l	6.00	90	70-130	2	30
Trichlorofluoromethane		4.71		ug/l	6.00	78	70-130	17	30
Freon 113		5.94		ug/l	6.00	99	70-130	3	30
1,1-Dichloroethene		6.07		ug/l	6.00	101	70-130	0.8	30
Methylene chloride		6.07		ug/l	6.00	101	70-130	9	30
trans-1,2-Dichloroethene		6.24		ug/l	6.00	104	70-130	5	30
Methyl tert-butyl ether (MTBE)		6.38		ug/l	6.00	106	70-130	6	30
1,1-Dichloroethane		5.94		ug/l	6.00	99	70-130	2	30
Di-isopropyl ether		6.20		ug/l	6.00	103	70-130	5	30
Ethyl tert-butyl ether		6.60		ug/l	6.00	110	70-130	2	30
2-Butanone		6.24		ug/l	6.00	104	70-130	3	30
2,2-Dichloropropane		6.35		ug/l	6.00	106	70-130	10	30
cis-1,2-Dichloroethene		4.75	QR-BS	ug/l	6.00	79	70-130	36	30
Bromochloromethane		5.72		ug/l	6.00	95	70-130	4	30
Chloroform		5.55		ug/l	6.00	92	70-130	3	30
1,1,1-Trichloroethane		5.70		ug/l	6.00	95	70-130	0.5	30
Carbon tetrachloride		5.77		ug/l	6.00	96	70-130	2	30
1,1-Dichloropropene		6.28		ug/l	6.00	105	70-130	0.8	30
Benzene		6.16		ug/l	6.00	103	70-130	0	30
1,2-Dichloroethane		5.81		ug/l	6.00	97	70-130	0.7	30
Tert-amyl methyl ether		7.20		ug/l	6.00	120	70-130	2	30
Trichloroethene		6.00		ug/l	6.00	100	70-130	2	30

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W3L1469 - EPA 524.2

LCS Dup (W3L1469-BSD1) — **Prepared: 12/31/13 Analyzed: 12/31/13 13:14**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane		6.03		ug/l	6.00	100	70-130	0.5	30
Dibromomethane		5.95		ug/l	6.00	99	70-130	3	30
Bromodichloromethane		5.79		ug/l	6.00	96	70-130	2	30
cis-1,3-Dichloropropene		6.81		ug/l	6.00	114	70-130	0.6	30
4-Methyl-2-pentanone		5.22		ug/l	6.00	87	70-130	2	30
2-Chloroethyl vinyl ether		5.94		ug/l	6.00	99	70-130	0.2	30
Toluene		7.50		ug/l	6.00	125	70-130	2	30
trans-1,3-Dichloropropene		6.89		ug/l	6.00	115	70-130	2	30
1,1,2-Trichloroethane		6.05		ug/l	6.00	101	70-130	0.2	30
Tetrachloroethene		6.20		ug/l	6.00	103	70-130	2	30
1,3-Dichloropropane		6.16		ug/l	6.00	103	70-130	0.8	30
Dibromochloromethane		6.00		ug/l	6.00	100	70-130	0.5	30
2-Hexanone		5.22		ug/l	6.00	87	70-130	2	30
Chlorobenzene		6.83		ug/l	6.00	114	70-130	2	30
1,1,1,2-Tetrachloroethane		5.79		ug/l	6.00	96	70-130	0.3	30
Ethylbenzene		6.53		ug/l	6.00	109	70-130	1	30
m,p-Xylene		5.30		ug/l	6.00	88	70-130	2	30
o-Xylene		5.23		ug/l	6.00	87	70-130	0.8	30
Styrene		6.50		ug/l	6.00	108	70-130	2	30
Bromoform		6.64		ug/l	6.00	111	70-130	0.5	30
Isopropylbenzene		5.48		ug/l	6.00	91	70-130	3	30
Bromobenzene		5.97		ug/l	6.00	100	70-130	2	30
1,1,2,2-Tetrachloroethane		5.88		ug/l	6.00	98	70-130	1	30
1,2,3-Trichloropropane		6.09		ug/l	6.00	102	70-130	1	30
n-Propylbenzene		6.46		ug/l	6.00	108	70-130	0.9	30
2-Chlorotoluene		7.39		ug/l	6.00	123	70-130	2	30
4-Chlorotoluene		6.84		ug/l	6.00	114	70-130	2	30
1,3,5-Trimethylbenzene		7.93	Q-09	ug/l	6.00	132	70-130	1	30
tert-Butylbenzene		5.20		ug/l	6.00	87	70-130	2	30
1,2,4-Trimethylbenzene		6.53		ug/l	6.00	109	70-130	0.2	30
sec-Butylbenzene		7.23		ug/l	6.00	120	70-130	2	30
m-Dichlorobenzene		6.27		ug/l	6.00	104	70-130	0.2	30
p-Isopropyltoluene		5.38		ug/l	6.00	90	70-130	2	30
p-Dichlorobenzene		6.13		ug/l	6.00	102	70-130	3	30
o-Dichlorobenzene		5.76		ug/l	6.00	96	70-130	3	30
n-Butylbenzene		6.91		ug/l	6.00	115	70-130	3	30
1,2,4-Trichlorobenzene		6.81		ug/l	6.00	114	70-130	4	30
Hexachlorobutadiene		7.26		ug/l	6.00	121	70-130	4	30
Naphthalene		6.29		ug/l	6.00	105	70-130	5	30
1,2,3-Trichlorobenzene		6.87		ug/l	6.00	114	70-130	0.3	30

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Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature
Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

BS-03	The recovery of this analyte in the BS/LCS was outside the control limits. The sample result was accepted based on another acceptable BS/LCS and/or MS and MSD that meet BS criteria.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
QR-BS	The RPD value for the BS/BSD (LCS/LCSD) was outside of QC acceptance limits however both recoveries were acceptable. The QC batch was accepted based on acceptable results for the recoveries of the BS (LCS) and BSD (LCSD).
S-BS	Surrogate recovery outside of control limits for LCS. The data was accepted based on valid recovery of the target analytes.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

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SUBCONTRACT ORDER

A3L1716

3L31022

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Weck Laboratories, Inc.
14859 E Clark Avenue
City of Industry, CA 91745-1396
Phone :(626) 336-2139
Fax: (626) 336-2634
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Sample Date
A3L1716-01	ML-2 Zone #2 (90-100 ftbgs)	12/19/2013 10:45

Matrix: Water

Analysis

EPA 524.2 - Subtest
~~EXT-Iodide~~
~~EXT-Miscellaneous~~
Total 1,3-Dichloropropene
Total Trihalomethanes
Total Xylenes, EPA 524.2

~~Shipped 12/23/13 Dissolved~~
~~Shipped 12/23/13 Lithium~~

Released By 12/30/13 Date Received By Date

Jamalma 12/31/13 1045 4.1°C

Released By Date Received By Date

Page 1 of 1

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Report Date: 01/07/14 13:48
Received Date: 12/24/13 08:35
Turnaround Time: Normal

Project: A3L1716

Phones: (559) 497-2888
Fax: (559) 485-6935

P.O. #:

Attn: Michael Ng

Client: BSK Analytical Laboratories
550 West Locust Avenue
Fresno, CA 93650

Dear Michael Ng :

Enclosed are the results of analyses for samples received 12/24/2013 with the Chain of Custody document. The samples were received in good condition, at 3.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 3L24019-01 **Sample ID:** A3L1716-01 **Matrix:** Water
Sampled by: Client **Sampled:** 12/19/13 10:45

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lithium, Total	78		10	ug/l	1	EPA 200.7	12/26/13	12/27/13 15:43	W3L1292	
Iodide, Dissolved	360		250	ug/l	25	EPA 9056A	1/2/14	1/2/14 19:27	W4A0050	

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Quality Control Section

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4A0050 - EPA 9056A

Blank (W4A0050-BLK1) — Prepared: 01/02/14 Analyzed: 01/02/14 19:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		ND		ug/l					

LCS (W4A0050-BS1) — Prepared: 01/02/14 Analyzed: 01/02/14 19:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		40.4		ug/l	40.0	101	85-115		

Duplicate (W4A0050-DUP1) — Source: 3L24019-01 — Prepared: 01/02/14 Analyzed: 01/02/14 19:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	362	318		ug/l				13	20

Matrix Spike (W4A0050-MS1) — Source: 3L24020-01 — Prepared: 01/02/14 Analyzed: 01/02/14 19:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	920	2640		ug/l	2000	86	80-120		

Matrix Spike Dup (W4A0050-MSD1) — Source: 3L24020-01 — Prepared: 01/02/14 Analyzed: 01/02/14 19:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	920	2820		ug/l	2000	95	80-120	6	20

Metals by EPA 200 Series Methods - Quality Control

Batch W3L1292 - EPA 200.7

Blank (W3L1292-BLK1) — Prepared: 12/26/13 Analyzed: 12/27/13 15:32

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		ND		ug/l					

LCS (W3L1292-BS1) — Prepared: 12/26/13 Analyzed: 12/27/13 15:40

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		947		ug/l	1000	95	85-115		

Matrix Spike (W3L1292-MS1) — Source: 3L26025-01 — Prepared: 12/26/13 Analyzed: 12/27/13 15:55

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	2.09	934		ug/l	1000	93	70-130		

Matrix Spike Dup (W3L1292-MSD1) — Source: 3L26025-01 — Prepared: 12/26/13 Analyzed: 12/27/13 15:58

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	2.09	943		ug/l	1000	94	70-130	0.9	30

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Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature
Contact: Kim G Tu (Project Manager)

ISO 17025

NELAP ACCREDITED TNI LABORATORY

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

January 13, 2014

Mr. Michael Ng
BSK Analytical Laboratories
1414 Stanislaus St.
Fresno, CA 93706

RE: Project: A3L1716
Pace Project No.: 30110776

Dear Mr. Ng:
Enclosed are the analytical results for sample(s) received by the laboratory on January 03, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: A3L1716
Pace Project No.: 30110776

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE SUMMARY

Project: A3L1716
Pace Project No.: 30110776

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30110776001	**A3L1716-01**	Water	12/19/13 10:45	01/03/14 10:05

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SAMPLE ANALYTE COUNT

Project: A3L1716
Pace Project No.: 30110776

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30110776001	A3L1716-01	EPA 906.0	SLA	1	PASI-PA

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PROJECT NARRATIVE

Project: A3L1716
Pace Project No.: 30110776

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: BSK Analytical Laboratories
Date: January 13, 2014

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: A3L1716
Pace Project No.: 30110776

Sample: A3L1716-01 **Lab ID: 30110776001** Collected: 12/19/13 10:45 Received: 01/03/14 10:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**32.8 ± 122 (212)**	pCi/L	01/12/14 21:35	10028-17-8	

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QUALITY CONTROL DATA

Project: A3L1716
Pace Project No.: 30110776

QC Batch: RADC/18325
QC Batch Method: EPA 906.0
Analysis Method: EPA 906.0
Analysis Description: 906.0 Tritium
Associated Lab Samples: 30110776001

METHOD BLANK: 677836
Matrix: Water
Associated Lab Samples: 30110776001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	23.8 ± 114 (200)	pCi/L	01/12/14 13:26	

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QUALIFIERS

Project: A3L1716
Pace Project No.: 30110776

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PRL - Pace Reporting Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty
(MDC) - Minimum Detectable Concentration
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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BSK Analytical Laboratories
Engineering & Laboratories

SUBCONTRACT ORDER

A3L1716

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Radiochem
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600
Fax: (724) 722-5208
Turnaround (Days): ~~Standard~~
QC Deliverables: I ~~Std~~ III IV

30110776

Sample ID	Samp Desc	Sample Date
A3L1716-01	ML-2 Zone #2 (90-100 ftbgs)	12/19/2013 10:45 001

Matrix: Water

Analysis 250 ml Au w/ none
EXT-Tritium

Non preserved glass container

Released By	Date	Received By	Date
[illegible]	12/26/13	[illegible]	12-14/1005
Released By	Date	Received By	Date

Sample Condition Upon Receipt

Pace Analytical

Client Name: BSK Project # 30110776

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 1Z 93X 911 03 6046 4317

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Styrofoam

Thermometer Used 5 6 7 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature N/A Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: MAT 1-3-14

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed MAT / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Carmo Santo **Date:** 1/3/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

page 2

Project Number: 30110776

Client Name: BAL

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
01	L	1																						

Quality Control Sample Performance Assessment

Pace Analytical

Analyst:	SLA		
Date:	1/13/2014	Method:	EPA 906.0
Worklist:	18325	SOP:	PGH-R-021
Matrix:	DW	MB Sample ID:	577836

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	23.8400	114.4000	200.1000	94.99000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	1/13/14 0:39	1/13/14 1:40				
Spike I.D.:	10-003	10-003				
Spike Concentration (pCi/L):	2503.320	2503.304				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.103	0.102				
Target Conc. (pCi/L, g, F):	2423.350	2451.576				
1.96 Sigma Uncertainty (Calculated):	66.497	67.271				
Result (pCi/L, g, F):	2280.550	1953.250				
1.96 Sigma Unc:	228.3000	204.9000				
% Recovery:	94.11%	79.67%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y
Analyte:	Tritium
Sample I.D.:	LCS18325
Duplicate Sample I.D.	LCSD18325
Sample Result (pCi/L, g, F):	2280.5500
1.96 Sigma Unc:	228.3000
Sample Duplicate Result (pCi/L, g, F):	1953.2500
Duplicate Sample 1.96 Sigma Unc.	204.9000
Either results below MDC?	NO
Relative Percent Difference:	15.46%
Assessment:	Pass
% RPD Limit:	25.00%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Analyte:	Tritium	Tritium
Sample Collection Date:	12/16/2013	12/30/2013
Sample I.D.	92183458001	30110753001
Sample MS I.D.	92183458001MS	30110753001MS
Sample MSD I.D.		
Spike I.D.:	10-003	10-003
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2514.142	2508.731
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):	0.1055	0.1041
MS Target Conc.(pCi/L, g, F):	4721.837	4821.237
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike uncertainty (calculated):	129.567	132.295
MSD Spike uncertainty (calculated):		
Sample Result:	58.260	31.280
Sample 1.96 Sigma Unc.:	123.600	116.000
Sample Matrix Spike Result:	4443.680	4304.400
Sample MS 1.96 Sigma Unc.:	296.200	295.000
Sample Matrix Spike Duplicate Result:		
Sample MSD 1.96 Sigma Unc.:		
MS % Recovery:	92.88%	88.63%
MSD % Recovery:		
MS Assessment:	Pass	Pass
MSD Assessment:		
MS/MSD Upper % Recovery Limits:	125.00%	125.00%
MS/MSD Lower % Recovery Limits:	75.00%	75.00%

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

1/13/14

Maxxam

nelac

Your Project #: A3L1716
Your C.O.C. #: na

Attention:Michael Ng

BSK Analytical Laboratories
1414 Stanislaus Street
Fresno, CA
USA 93706

Report Date: 2014/01/27
Report #: R2806455
Version: 1

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B402018
Received: 2014/01/07, 14:30

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
2,3,7,8-TCDD in Water (1613B)	1	2014/01/15	2014/01/27	BRL SOP-00410	EPA 1613B mod.

Remarks:

The lab certifies that the test results meet all requirements of NELAC, where applicable.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Marsela Wijaya
27 Jan 2014 17:48:38 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ivana Vukovic, Env Project Manager
Email: IVukovic@maxxam.ca
Phone# (905) 817-5700

==========

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Maxxam

Maxxam Job #: B402018
Report Date: 2014/01/27

BSK Analytical Laboratories
Client Project #: A3L1716

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		UL9337						
Sampling Date		2013/12/19 10:45						
COC Number		na			TOXIC EQUIVALENCY		# of	
	Units	A3L1716-01	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	0.75 U	0.75	4.2	1.00	0.750		3486907
TOTAL TOXIC EQUIVALENCY	pg/L					0.750		
Surrogate Recovery (%)								
37CL4 2378 Tetra CDD *	%	84						3486907
C13-2378 TetraCDD *	%	90						3486907

EDL = Estimated Detection Limit
RDL = Reportable Detection Limit
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin

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Maxxam

Maxxam Job #: B402018
Report Date: 2014/01/27

BSK Analytical Laboratories
Client Project #: A3L1716

GENERAL COMMENTS

Results relate only to the items tested.

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Maxxam Job #: B402018
Report Date: 2014/01/27

BSK Analytical Laboratories
Client Project #: A3L1716

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
3486907	CXU	Spiked Blank	2,3,7,8-Tetra CDD	2014/01/26		76	%	67 - 158
			37CL4 2378 Tetra CDD	2014/01/26		84	%	40 - 130
			C13-2378 TetraCDD	2014/01/26		89	%	24 - 164
3486907	CXU	Method Blank	2,3,7,8-Tetra CDD	2014/01/26	0.83, EDL=0.83		pg/L	
			37CL4 2378 Tetra CDD	2014/01/26		81	%	40 - 130
			C13-2378 TetraCDD	2014/01/26		87	%	24 - 164

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817 5700 Toll Free: 800 563 6266 Fax (905) 817 5777 www.maxxam.ca

Maxxam

Maxxam Job #: B402018
Report Date: 2014/01/27

BSK Analytical Laboratories
Client Project #: A3L1716

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Kay Shaw

Kay Shaw, C. Chem, Sr Scientific Specialist, HRMS Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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BSK Analytical Laboratories
Engineering Laboratories

SUBCONTRACT ORDER

A3L1716

7-Jan-14 14:30
Ivana Vukovic
B402018
M P ENV-906

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager Michael Ng
E-mail mng@bskinc.com

RECEIVING LABORATORY:

Maxxam Analytics
PO Box 57437, Station A
Toronto, ON M5W5M5
Phone :(905) 817-5784
Fax: -
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Sample Date
A3L1716-01	ML-2 Zone #2 (90-100 flbgs)	12/19/2013 10:45

Matrix Water

Analysis ILAG
EXT-Dioxin-DW matrix, EPA 1613 2,3,7 8 TCDD

Released By Date Received By Date

Released By Date Received By Date
MAGDALENA CCP 2014/01/07 14:30
4.1/4.4/4.1°C

Page 1 of 3

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CERTIFICATE OF ANALYSIS

Client:	California American Water-Monterey P.O.BOX 951 Monterey CA, 93942-0951	**Report Date:**	03/06/14 09:27
		Received Date:	01/14/14 09:15
		Turn Around:	Normal
Attention:	Travis Peterson	**Client Project:**	Monterey Peninsula Water Supply Project (MPWSP)
Phone:	(831) 646-3269		
Fax:	-		
Work Order(s):	4A14004		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Travis Peterson :

Enclosed are the results of analyses for samples received 01/14/14 09:15 with the Chain of Custody document. The samples were received in good condition, at 3.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Hai Van Nguyen
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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California American Water-Monterey
P.O.BOX 951
Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
ML-3 Zone # 1 (180-190 ftbgs)	Nathan Reynolds		4A14004-01	Water	01/11/14 16:00

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Carbamates and Urea Pesticides

Chlorinated Herbicides

Chlorinated Pesticides and/or PCBs

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Diquat and Paraquat by EPA 549.2

Endothall By EPA 548.1

EPA 1613B mod.

Fumigants by EPA Method 504.1

Glyphosate by EPA 547

Metals by EPA 200 Series Methods

Semivolatile Organic Compounds by GC/MS

Subcontracted Analyses

Volatile Organic Compounds by EPA Method 524.2

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Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

4A14004-01 ML-3 Zone # 1 (180-190 ftbgs)

Sampled: 01/11/14 16:00 **Sampled By:** Nathan Reynolds **Matrix:** Water

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: SM 2320B Batch: W4A0723 Prepared: 01/17/14 13:33 Analyst: ajp

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alkalinity as CaCO3	**210**	2.0	mg/l	1	01/17/14 16:43	
Alkalinity as CaCO3	**210**	2.0	mg/l	1	01/17/14 16:43	
Bicarbonate Alkalinity as HCO3	**250**	2.0	mg/l	1	01/17/14 16:43	
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l	1	01/17/14 16:43	
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l	1	01/17/14 16:43	

Method: SM 2510B Batch: W4A0928 Prepared: 01/23/14 08:26 Analyst: ajp

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Specific Conductance (EC)	**12000**	2.0	umhos/cm	1	01/23/14 10:38	

Method: SM 2540C M Batch: W4A0644 Prepared: 01/16/14 13:17 Analyst: ajw

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Total Dissolved Solids	**7400**	10	mg/l	1	01/16/14 15:10	

Method: SM 4500H+-B Batch: W4A0555 Prepared: 01/14/14 17:04 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
pH	**7.49**	0.10	Units	1	01/14/14 17:38	*

Method: SM 5540C Batch: W4A0545 Prepared: 01/14/14 14:56 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
MBAS	ND	0.050	mg/l	1	01/14/14 16:49	O-09

Method: Various Batch: [CALC] Prepared: 01/17/14 13:33 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Total Anions	**120**	1.6	meq/l	100	01/17/14 16:43	

Diquat and Paraquat by EPA 549.2

Method: EPA 549.2 Batch: W4A0444 Prepared: 01/15/14 17:01 Analyst: cwh

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Diquat	ND	4.0	ug/l	1	01/16/14 15:28	

Endothall By EPA 548.1

Method: EPA 548.1 Batch: W4A0556 Prepared: 01/14/14 17:06 Analyst: abj

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Endothall	ND	45	ug/l	1	01/18/14 21:02	

EPA 1613B mod.

Method: EPA 1613B mod. Batch: 3522182 Prepared: 02/23/14 00:00 Analyst: VCI

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
2,3,7,8-Tetra CDD	ND	4.4	pg/L	1	02/26/14 00:00	S_MAXX

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Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

4A14004-01 **ML-3 Zone # 1 (180-190 ftbgs)**

Sampled: 01/11/14 16:00 **Sampled By:** Nathan Reynolds **Matrix:** Water

EPA 1613B mod.

Method: EPA 1613B mod. Batch: 3522182 Prepared: 02/23/14 00:00 Analyst: VCI

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Surr: 37CL4 2378 Tetra CDD	*88 %*	Conc:*176*	*40-130*	%			*S_MAXX*
Surr: C13-2378 TetraCDD	*123 %*	Conc:*246*	*24-164*	%			*S_MAXX*

Fumigants by EPA Method 504.1

Method: EPA 504.1 Batch: W4A0789 Prepared: 01/20/14 11:22 Analyst: jch

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	01/22/14 16:23	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	01/22/14 16:23	

Glyphosate by EPA 547

Method: EPA 547 Batch: W4A0601 Prepared: 01/15/14 15:08 Analyst: cwh

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Glyphosate	ND	5.0	ug/l	1	01/15/14 17:04	

Metals by EPA 200 Series Methods

Method: [CALC] Batch: [CALC] Prepared: 01/15/14 14:31 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Total Cations	**120**	0.037	meq/l	1	01/17/14 09:31	

Method: EPA 200.7 Batch: [CALC] Prepared: 01/15/14 14:31 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Calcium Hardness as CaCO3	**1020**	0.250	mg/l	1	01/17/14 09:31	

Method: EPA 200.7 Batch: W4A0592 Prepared: 01/15/14 14:31 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Barium, Dissolved	**0.15**	0.0020	mg/l	1	01/17/14 09:26	
Boron, Dissolved	**500**	10	ug/l	1	01/17/14 09:26	
Calcium, Dissolved	**391**	0.100	mg/l	1	01/17/14 09:26	
Calcium, Total	**409**	0.100	mg/l	1	01/17/14 09:31	
Iron, Dissolved	ND	10	ug/l	1	01/17/14 09:26	
Iron, Total	**6.9**	0.010	mg/l	1	01/17/14 09:31	
Magnesium, Dissolved	**298**	0.100	mg/l	1	01/17/14 09:26	
Magnesium, Total	**310**	0.100	mg/l	1	01/17/14 09:31	
Manganese, Dissolved	**1400**	5.0	ug/l	1	01/17/14 09:26	
Manganese, Total	**1.5**	0.0050	mg/l	1	01/17/14 09:31	
Potassium, Dissolved	**58**	0.10	mg/l	1	01/17/14 09:26	
Potassium, Total	**60**	0.10	mg/l	1	01/17/14 09:31	
Silica as SiO2, Dissolved	**36**	0.10	mg/l	1	01/17/14 09:26	
Sodium, Dissolved	**1600**	0.50	mg/l	1	01/17/14 09:26	
Sodium, Total	**1700**	0.50	mg/l	1	01/17/14 09:31	

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Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

4A14004-01 ML-3 Zone # 1 (180-190 ftbgs)

Sampled: 01/11/14 16:00 **Sampled By:** Nathan Reynolds **Matrix:** Water

Metals by EPA 200 Series Methods

Method: EPA 200.7 Batch: W4A0592 Prepared: 01/15/14 14:31 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Strontium, Dissolved	**3100**	2.0	ug/l	1	01/17/14 09:26	

Method: EPA 200.7 Batch: W4B0893 Prepared: 02/20/14 14:04 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Lithium, Total	**110**	20	ug/l	2	02/21/14 10:46	

Method: EPA 200.8 Batch: W4A0619 Prepared: 01/16/14 09:08 Analyst: XXX

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Aluminum, Total	**950**	5.0	ug/l	1	01/20/14 19:47	
Arsenic, Total	**1.0**	0.40	ug/l	1	01/20/14 19:47	
Copper, Total	**10**	0.50	ug/l	1	01/20/14 19:47	
Zinc, Total	**240**	5.0	ug/l	1	01/20/14 19:47	

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2 Batch: W4A0574 Prepared: 01/15/14 09:58 Analyst: abj

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alachlor	ND	0.10	ug/l	1	01/23/14 05:12	
Atrazine	ND	0.10	ug/l	1	01/23/14 05:12	
Benzo (a) pyrene	ND	0.10	ug/l	1	01/23/14 05:12	
Bis(2-ethylhexyl)adipate	ND	5.0	ug/l	1	01/23/14 05:12	
Bis(2-ethylhexyl)phthalate	**4.0**	3.0	ug/l	1	01/23/14 05:12	
Bromacil	ND	0.50	ug/l	1	01/23/14 05:12	
Butachlor	ND	0.10	ug/l	1	01/23/14 05:12	
Captan	ND	1.0	ug/l	1	01/23/14 05:12	
Chloropropham	ND	0.10	ug/l	1	01/23/14 05:12	
Cyanazine	ND	0.10	ug/l	1	01/23/14 05:12	
Diazinon	ND	0.10	ug/l	1	01/23/14 05:12	
Dimethoate	ND	0.20	ug/l	1	01/23/14 05:12	
Diphenamid	ND	0.10	ug/l	1	01/23/14 05:12	
Disulfoton	ND	0.10	ug/l	1	01/23/14 05:12	
EPTC	ND	0.10	ug/l	1	01/23/14 05:12	
Metolachlor	ND	0.10	ug/l	1	01/23/14 05:12	
Metribuzin	ND	0.10	ug/l	1	01/23/14 05:12	
Molinate	ND	0.10	ug/l	1	01/23/14 05:12	
Prometon	ND	0.10	ug/l	1	01/23/14 05:12	
Prometryn	ND	0.10	ug/l	1	01/23/14 05:12	
Simazine	ND	0.10	ug/l	1	01/23/14 05:12	
Terbacil	ND	2.0	ug/l	1	01/23/14 05:12	
Thiobencarb	ND	0.10	ug/l	1	01/23/14 05:12	
Trithion	ND	0.10	ug/l	1	01/23/14 05:12	

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Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

4A14004-01 ML-3 Zone # 1 (180-190 ftbgs)

Sampled: 01/11/14 16:00 **Sampled By:** Nathan Reynolds **Matrix:** Water

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2 Batch: W4A0574 Prepared: 01/15/14 09:58 Analyst: abj

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Surr: 1,3-Dimethyl-2-nitrobenzene	*106 %*	Conc:*5.31*	*73-138*	%			
Surr: Perylene-d12	*102 %*	Conc:*5.08*	*30-118*	%			
Surr: Triphenyl phosphate	*126 %*	Conc:*6.30*	*70-149*	%			

Subcontracted Analyses

Method: EPA 906.0 Batch: W4A1172 Prepared: 01/18/14 06:40 Analyst: sub

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Tritium	**-2.52**		pCi/L	1	01/18/14 06:40	A-01
Counting Error (+/-): 125 MDA: 221						

Volatile Organic Compounds by EPA Method 524.2

Method: EPA 524.2 Batch: W4A0558 Prepared: 01/15/14 08:20 Analyst: mdt

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l	1	01/16/14 02:24	
1,1,1-Trichloroethane	ND	0.50	ug/l	1	01/16/14 02:24	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	1	01/16/14 02:24	
1,1,2-Trichloroethane	ND	0.50	ug/l	1	01/16/14 02:24	
1,1-Dichloroethane	ND	0.50	ug/l	1	01/16/14 02:24	
1,1-Dichloroethene	ND	0.50	ug/l	1	01/16/14 02:24	
1,1-Dichloropropene	ND	0.50	ug/l	1	01/16/14 02:24	
1,2,3-Trichlorobenzene	ND	0.50	ug/l	1	01/16/14 02:24	
1,2,3-Trichloropropane	ND	0.50	ug/l	1	01/16/14 02:24	
1,2,4-Trichlorobenzene	ND	0.50	ug/l	1	01/16/14 02:24	
1,2,4-Trimethylbenzene	ND	0.50	ug/l	1	01/16/14 02:24	
1,2-Dichloroethane	ND	0.50	ug/l	1	01/16/14 02:24	
1,2-Dichloropropane	ND	0.50	ug/l	1	01/16/14 02:24	
1,3,5-Trimethylbenzene	ND	0.50	ug/l	1	01/16/14 02:24	
1,3-Dichloropropane	ND	0.50	ug/l	1	01/16/14 02:24	
1,3-Dichloropropene, Total	ND	0.50	ug/l	1	01/16/14 02:24	
2,2-Dichloropropane	ND	0.50	ug/l	1	01/16/14 02:24	
2-Butanone	ND	5.0	ug/l	1	01/16/14 02:24	
2-Chloroethyl vinyl ether	ND	1.0	ug/l	1	01/16/14 02:24	
2-Chlorotoluene	ND	0.50	ug/l	1	01/16/14 02:24	
2-Hexanone	ND	5.0	ug/l	1	01/16/14 02:24	
4-Chlorotoluene	ND	0.50	ug/l	1	01/16/14 02:24	
4-Methyl-2-pentanone	ND	5.0	ug/l	1	01/16/14 02:24	
Benzene	ND	0.50	ug/l	1	01/16/14 02:24	
Bromobenzene	ND	0.50	ug/l	1	01/16/14 02:24	
Bromochloromethane	ND	0.50	ug/l	1	01/16/14 02:24	
Bromodichloromethane	ND	0.50	ug/l	1	01/16/14 02:24	

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Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

4A14004-01 **ML-3 Zone # 1 (180-190 ftbgs)**

Sampled: 01/11/14 16:00 **Sampled By:** Nathan Reynolds **Matrix:** Water

Volatile Organic Compounds by EPA Method 524.2

Method: EPA 524.2 Batch: W4A0558 Prepared: 01/15/14 08:20 Analyst: mdt

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Bromoform	ND	0.50	ug/l	1	01/16/14 02:24	
Bromomethane	ND	0.50	ug/l	1	01/16/14 02:24	
Carbon tetrachloride	ND	0.50	ug/l	1	01/16/14 02:24	
Chlorobenzene	ND	0.50	ug/l	1	01/16/14 02:24	
Chloroethane	ND	0.50	ug/l	1	01/16/14 02:24	
Chloroform	ND	0.50	ug/l	1	01/16/14 02:24	
Chloromethane	ND	0.50	ug/l	1	01/16/14 02:24	
cis-1,2-Dichloroethene	ND	0.50	ug/l	1	01/16/14 02:24	
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	01/16/14 02:24	
Dibromochloromethane	ND	0.50	ug/l	1	01/16/14 02:24	
Dibromomethane	ND	0.50	ug/l	1	01/16/14 02:24	
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l	1	01/16/14 02:24	
Di-isopropyl ether	ND	2.0	ug/l	1	01/16/14 02:24	
Ethyl tert-butyl ether	ND	2.0	ug/l	1	01/16/14 02:24	
Ethylbenzene	ND	0.50	ug/l	1	01/16/14 02:24	
Freon 113	ND	5.0	ug/l	1	01/16/14 02:24	
Hexachlorobutadiene	ND	0.50	ug/l	1	01/16/14 02:24	
Isopropylbenzene	ND	0.50	ug/l	1	01/16/14 02:24	
m,p-Xylene	ND	0.50	ug/l	1	01/16/14 02:24	
m-Dichlorobenzene	ND	0.50	ug/l	1	01/16/14 02:24	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l	1	01/16/14 02:24	
Methylene chloride	ND	0.50	ug/l	1	01/16/14 02:24	
Naphthalene	ND	0.50	ug/l	1	01/16/14 02:24	
n-Butylbenzene	ND	0.50	ug/l	1	01/16/14 02:24	
n-Propylbenzene	ND	0.50	ug/l	1	01/16/14 02:24	
o-Dichlorobenzene	ND	0.50	ug/l	1	01/16/14 02:24	
o-Xylene	ND	0.50	ug/l	1	01/16/14 02:24	
p-Dichlorobenzene	ND	0.50	ug/l	1	01/16/14 02:24	
p-Isopropyltoluene	ND	0.50	ug/l	1	01/16/14 02:24	
sec-Butylbenzene	ND	0.50	ug/l	1	01/16/14 02:24	
Styrene	ND	0.50	ug/l	1	01/16/14 02:24	
Tert-amyl methyl ether	ND	2.0	ug/l	1	01/16/14 02:24	
tert-Butylbenzene	ND	0.50	ug/l	1	01/16/14 02:24	
Tetrachloroethene	ND	0.50	ug/l	1	01/16/14 02:24	
THMs, Total	ND	2.0	ug/l	1	01/16/14 02:24	
Toluene	ND	0.50	ug/l	1	01/16/14 02:24	
trans-1,2-Dichloroethene	ND	0.50	ug/l	1	01/16/14 02:24	
trans-1,3-Dichloropropene	ND	0.50	ug/l	1	01/16/14 02:24	
Trichloroethene	ND	0.50	ug/l	1	01/16/14 02:24	
Trichlorofluoromethane	ND	0.50	ug/l	1	01/16/14 02:24	

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Date Received: 01/14/14 09:15
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4A14004-01 **ML-3 Zone # 1 (180-190 ftbgs)**

Sampled: 01/11/14 16:00 **Sampled By:** Nathan Reynolds **Matrix:** Water

Volatile Organic Compounds by EPA Method 524.2

Method: EPA 524.2 Batch: W4A0558 Prepared: 01/15/14 08:20 Analyst: mdt

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Vinyl chloride	ND		0.50	ug/l	1	01/16/14 02:24	
Xylenes, Total	ND		1.0	ug/l	1	01/16/14 02:24	
Surr: 1,2-Dichlorobenzene-d4	*97 %*	Conc:*9.69*	*70-130*	%			
Surr: 4-Bromofluorobenzene	*85 %*	Conc:*8.54*	*70-130*	%			

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QUALITY CONTROL SECTION

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Date Received: 01/14/14 09:15
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Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4A0532 - EPA 300.0

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0532-BLK1)				Analyzed: 01/14/14 11:31						
Chloride, Total	ND	0.50	mg/l							
Fluoride, Total	ND	0.10	mg/l							
Sulfate as SO4	ND	0.50	mg/l							
LCS (W4A0532-BS1)				Analyzed: 01/14/14 11:49						
Chloride, Total	3.81	0.50	mg/l	4.00		95	90-110			
Fluoride, Total	2.06	0.10	mg/l	2.00		103	90-110			
Sulfate as SO4	7.78	0.50	mg/l	8.00		97	90-110			
Matrix Spike (W4A0532-MS1)	**Source: 4A13043-05**			Analyzed: 01/14/14 12:49						
Chloride, Total	45.3	5.0	mg/l	40.0	7.51	94	76-118			
Fluoride, Total	20.3	1.0	mg/l	20.0	0.713	98	86-107			
Sulfate as SO4	92.8	5.0	mg/l	80.0	16.5	95	78-111			
Matrix Spike (W4A0532-MS2)	**Source: 4A13065-02**			Analyzed: 01/14/14 20:15						
Chloride, Total	65.9	5.0	mg/l	40.0	27.3	96	76-118			
Fluoride, Total	21.5	1.0	mg/l	20.0	0.396	105	86-107			
Sulfate as SO4	132	5.0	mg/l	80.0	56.4	95	78-111			
Matrix Spike Dup (W4A0532-MSD1)	**Source: 4A13043-05**			Analyzed: 01/14/14 13:08						
Chloride, Total	46.3	5.0	mg/l	40.0	7.51	97	76-118	2	20	
Fluoride, Total	21.3	1.0	mg/l	20.0	0.713	103	86-107	5	20	
Sulfate as SO4	92.3	5.0	mg/l	80.0	16.5	95	78-111	0.6	20	
Matrix Spike Dup (W4A0532-MSD2)	**Source: 4A13065-02**			Analyzed: 01/14/14 20:34						
Chloride, Total	65.3	5.0	mg/l	40.0	27.3	95	76-118	1	20	
Fluoride, Total	21.4	1.0	mg/l	20.0	0.396	105	86-107	0.5	20	
Sulfate as SO4	132	5.0	mg/l	80.0	56.4	94	78-111	0.7	20	

Batch W4A0844 - EPA 300.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0844-BLK1)				Analyzed: 01/21/14 15:14						
Bromide	ND	10	ug/l							
Surr: Dichloroacetate	*502*		*ug/l*	*500*		*100*	*90-115*			
LCS (W4A0844-BS1)				Analyzed: 01/21/14 15:14						
Bromide	99.2	10	ug/l	100		99	85-115			
Surr: Dichloroacetate	*490*		*ug/l*	*500*		*98*	*90-115*			
Matrix Spike (W4A0844-MS1)	**Source: 4A08035-01**			Analyzed: 01/21/14 15:14						
Bromide	757	20	ug/l	200	605	76	73-125			
Surr: Dichloroacetate	*467*		*ug/l*	*500*		*93*	*90-115*			
Matrix Spike Dup (W4A0844-MSD1)	**Source: 4A08035-01**			Analyzed: 01/21/14 15:14						
Bromide	784	20	ug/l	200	605	89	73-125	4	20	
Surr: Dichloroacetate	*487*		*ug/l*	*500*		*97*	*90-115*			

Batch W4B0889 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers

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Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4B0889 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B0889-BLK1)				Analyzed: 02/20/14 15:41						
Iodide, Dissolved	ND	10	ug/l							
LCS (W4B0889-BS1)				Analyzed: 02/20/14 15:41						
Iodide, Dissolved	40.0	10	ug/l	40.0		100	85-115			
Duplicate (W4B0889-DUP1)	**Source: 4B06015-02**			Analyzed: 02/20/14 15:41						
Iodide, Dissolved	63.0	25	ug/l		63.9			1	20	
Matrix Spike (W4B0889-MS1)	**Source: 4B06015-02**			Analyzed: 02/20/14 15:41						
Iodide, Dissolved	176	25	ug/l	100	63.9	112	80-120			
Matrix Spike Dup (W4B0889-MSD1)	**Source: 4B06015-02**			Analyzed: 02/20/14 15:41						
Iodide, Dissolved	149	25	ug/l	100	63.9	85	80-120	17	20	

Carbamates and Urea Pesticides - Quality Control

Batch W4A0802 - EPA 531.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0802-BLK1)				Analyzed: 01/20/14 23:50						
3-Hydroxycarbofuran	ND	2.0	ug/l							
Aldicarb	ND	2.0	ug/l							
Aldicarb sulfone	ND	2.0	ug/l							
Aldicarb sulfoxide	ND	2.0	ug/l							
Carbaryl	ND	2.0	ug/l							
Carbofuran	ND	2.0	ug/l							
Methiocarb	ND	2.0	ug/l							
Methomyl	ND	2.0	ug/l							
Oxamyl	ND	2.0	ug/l							
Propoxur (Baygon)	ND	2.0	ug/l							
LCS (W4A0802-BS1)				Analyzed: 01/20/14 23:50						
3-Hydroxycarbofuran	10.3	2.0	ug/l	10.0		103	80-120			
Aldicarb	11.1	2.0	ug/l	10.0		111	80-120			
Aldicarb sulfone	9.86	2.0	ug/l	10.0		99	80-120			
Aldicarb sulfoxide	10.3	2.0	ug/l	10.0		103	80-120			
Carbaryl	11.1	2.0	ug/l	10.0		111	80-120			
Carbofuran	9.64	2.0	ug/l	10.0		96	80-120			
Methiocarb	11.7	2.0	ug/l	10.0		117	80-120			
Methomyl	9.53	2.0	ug/l	10.0		95	80-120			
Oxamyl	10.1	2.0	ug/l	10.0		101	80-120			
Propoxur (Baygon)	9.79	2.0	ug/l	10.0		98	80-120			
Matrix Spike (W4A0802-MS1)	**Source: 4A13019-01**			Analyzed: 01/20/14 23:50						
3-Hydroxycarbofuran	8.26	2.0	ug/l	10.0	ND	83	65-135			
Aldicarb	10.3	2.0	ug/l	10.0	ND	103	65-135			
Aldicarb sulfone	9.41	2.0	ug/l	10.0	ND	94	65-135			
Aldicarb sulfoxide	10.3	2.0	ug/l	10.0	ND	103	65-135			

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Carbamates and Urea Pesticides - Quality Control

Batch W4A0802 - EPA 531.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike (W4A0802-MS1)	**Source: 4A13019-01**			Analyzed: 01/20/14 23:50						
Carbaryl	9.56	2.0	ug/l	10.0	ND	96	65-135			
Carbofuran	10.2	2.0	ug/l	10.0	ND	102	65-135			
Methiocarb	10.0	2.0	ug/l	10.0	ND	100	65-135			
Methomyl	9.17	2.0	ug/l	10.0	ND	92	65-135			
Oxamyl	8.48	2.0	ug/l	10.0	ND	85	65-135			
Propoxur (Baygon)	8.94	2.0	ug/l	10.0	ND	89	65-135			
Matrix Spike Dup (W4A0802-MSD1)	**Source: 4A13019-01**			Analyzed: 01/20/14 23:50						
3-Hydroxycarbofuran	8.62	2.0	ug/l	10.0	ND	86	65-135	4	30	
Aldicarb	10.1	2.0	ug/l	10.0	ND	101	65-135	2	30	
Aldicarb sulfone	9.03	2.0	ug/l	10.0	ND	90	65-135	4	30	
Aldicarb sulfoxide	10.9	2.0	ug/l	10.0	ND	109	65-135	6	30	
Carbaryl	9.23	2.0	ug/l	10.0	ND	92	65-135	4	30	
Carbofuran	8.51	2.0	ug/l	10.0	ND	85	65-135	18	30	
Methiocarb	9.94	2.0	ug/l	10.0	ND	99	65-135	1	30	
Methomyl	9.60	2.0	ug/l	10.0	ND	96	65-135	5	30	
Oxamyl	7.27	2.0	ug/l	10.0	ND	73	65-135	15	30	
Propoxur (Baygon)	8.90	2.0	ug/l	10.0	ND	89	65-135	0.4	30	

Chlorinated Herbicides - Quality Control

Batch W4A0564 - EPA 515.3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0564-BLK1)				Analyzed: 01/24/14 22:44						
2,4,5-T	ND	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.20	ug/l							
2,4-D	ND	0.40	ug/l							
2,4-DB	ND	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	1.0	ug/l							
Acifluorfen	ND	0.40	ug/l							
Bentazon	ND	2.0	ug/l							
Dalapon	ND	0.40	ug/l							
DCPA	ND	0.10	ug/l							
Dicamba	ND	0.60	ug/l							
Dichloroprop	ND	0.30	ug/l							
Dinoseb	ND	0.40	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	0.60	ug/l							
Surr: 2,4-DCAA	*9.76*		*ug/l*	*10.0*		*98*	*70-130*			
LCS (W4A0564-BS1)				Analyzed: 01/24/14 23:12						
2,4,5-T	4.09	0.20	ug/l	4.00		102	70-130			
2,4,5-TP (Silvex)	3.98	0.20	ug/l	4.00		99	70-130			
2,4-D	9.60	0.40	ug/l	8.00		120	70-130			

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Chlorinated Herbicides - Quality Control

Batch W4A0564 - EPA 515.3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0564-BS1)				Analyzed: 01/24/14 23:12						
2,4-DB	13.9	2.0	ug/l	16.0		87	70-130			
3,5-Dichlorobenzoic acid	8.32	1.0	ug/l	8.00		104	70-130			
Acifluorfen	4.36	0.40	ug/l	4.00		109	70-130			
Bentazon	15.0	2.0	ug/l	16.0		94	70-130			
Dalapon	9.17	0.40	ug/l	8.00		115	70-130			
DCPA	3.66	0.10	ug/l	4.00		92	70-130			
Dicamba	7.56	0.60	ug/l	8.00		95	70-130			
Dichloroprop	9.26	0.30	ug/l	8.00		116	70-130			
Dinoseb	4.08	0.40	ug/l	4.00		102	70-130			
Pentachlorophenol	3.85	0.20	ug/l	4.00		96	70-130			
Picloram	4.39	0.60	ug/l	4.00		110	70-130			
Surr: 2,4-DCAA	*10.4*		*ug/l*	*10.0*		*104*	*70-130*			
Matrix Spike (W4A0564-MS1)	**Source: 4A14003-01**			Analyzed: 01/24/14 23:40						
2,4,5-T	3.92	0.20	ug/l	4.00	ND	98	70-130			
2,4,5-TP (Silvex)	3.77	0.20	ug/l	4.00	ND	94	70-130			
2,4-D	9.09	0.40	ug/l	8.00	ND	114	70-130			
2,4-DB	12.1	2.0	ug/l	16.0	ND	75	70-130			
3,5-Dichlorobenzoic acid	7.35	1.0	ug/l	8.00	ND	92	70-130			
Acifluorfen	4.70	0.40	ug/l	4.00	ND	118	70-130			
Bentazon	7.01	2.0	ug/l	16.0	ND	44	70-130			MS-05
Dalapon	9.15	0.40	ug/l	8.00	ND	114	70-130			
DCPA	3.46	0.10	ug/l	4.00	ND	86	70-130			
Dicamba	7.07	0.60	ug/l	8.00	ND	88	70-130			
Dichloroprop	9.83	0.30	ug/l	8.00	ND	123	70-130			
Dinoseb	2.26	0.40	ug/l	4.00	ND	57	70-130			MS-05
Pentachlorophenol	1.51	0.20	ug/l	4.00	ND	38	70-130			MS-05
Picloram	4.30	0.60	ug/l	4.00	ND	108	70-130			
Surr: 2,4-DCAA	*9.06*		*ug/l*	*10.0*		*91*	*70-130*			
Matrix Spike Dup (W4A0564-MSD1)	**Source: 4A14003-01**			Analyzed: 01/25/14 00:08						
2,4,5-T	3.93	0.20	ug/l	4.00	ND	98	70-130	0.3	30	
2,4,5-TP (Silvex)	3.76	0.20	ug/l	4.00	ND	94	70-130	0.4	30	
2,4-D	9.31	0.40	ug/l	8.00	ND	116	70-130	2	30	
2,4-DB	12.6	2.0	ug/l	16.0	ND	79	70-130	4	30	
3,5-Dichlorobenzoic acid	7.91	1.0	ug/l	8.00	ND	99	70-130	7	30	
Acifluorfen	4.85	0.40	ug/l	4.00	ND	121	70-130	3	30	
Bentazon	7.48	2.0	ug/l	16.0	ND	47	70-130	6	30	MS-05
Dalapon	9.18	0.40	ug/l	8.00	ND	115	70-130	0.2	30	
DCPA	3.47	0.10	ug/l	4.00	ND	87	70-130	0.3	30	
Dicamba	7.51	0.60	ug/l	8.00	ND	94	70-130	6	30	
Dichloroprop	9.85	0.30	ug/l	8.00	ND	123	70-130	0.2	30	
Dinoseb	2.08	0.40	ug/l	4.00	ND	52	70-130	8	30	MS-05
Pentachlorophenol	1.57	0.20	ug/l	4.00	ND	39	70-130	4	30	MS-05
Picloram	4.46	0.60	ug/l	4.00	ND	111	70-130	3	30	
Surr: 2,4-DCAA	*9.38*		*ug/l*	*10.0*		*94*	*70-130*			

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Date Received: 01/14/14 09:15
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Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4A0617 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0617-BLK1)				Analyzed: 01/29/14 19:18						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							
Surr: Decachlorobiphenyl	*0.103*		*ug/l*	*0.100*		*103*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0743*		*ug/l*	*0.100*		*74*	*70-130*			
LCS (W4A0617-BS1)				Analyzed: 01/29/14 19:48						
4,4´-DDD	0.125	0.010	ug/l	0.100		125	55-142			
4,4´-DDE	0.111	0.010	ug/l	0.100		111	49-129			
4,4´-DDT	0.110	0.010	ug/l	0.100		110	54-160			
Aldrin	0.0542	0.010	ug/l	0.100		54	29-115			
alpha-BHC	0.0952	0.010	ug/l	0.100		95	59-131			
beta-BHC	0.0982	0.010	ug/l	0.100		98	63-136			
delta-BHC	0.101	0.010	ug/l	0.100		101	59-137			
Dieldrin	0.0796	0.010	ug/l	0.100		80	59-135			
Endosulfan I	0.0907	0.010	ug/l	0.100		91	28-138			

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Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4A0617 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0617-BS1)				Analyzed: 01/29/14 19:48						
Endosulfan II	0.103	0.010	ug/l	0.100		103	53-133			
Endosulfan sulfate	0.117	0.010	ug/l	0.100		117	58-155			
Endrin	0.0972	0.010	ug/l	0.100		97	57-148			
Endrin aldehyde	0.0318	0.010	ug/l	0.100		32	45-139			Q-02
gamma-BHC (Lindane)	0.0931	0.010	ug/l	0.100		93	59-129			
Heptachlor	0.0855	0.010	ug/l	0.100		85	42-136			
Heptachlor epoxide	0.0922	0.010	ug/l	0.100		92	59-134			
Methoxychlor	0.114	0.010	ug/l	0.100		114	56-167			
Surr: Decachlorobiphenyl	*0.103*		*ug/l*	*0.100*		*103*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0773*		*ug/l*	*0.100*		*77*	*70-130*			
LCS Dup (W4A0617-BSD1)				Analyzed: 01/29/14 20:19						
4,4´-DDD	0.140	0.010	ug/l	0.100		140	55-142	12	25	
4,4´-DDE	0.123	0.010	ug/l	0.100		123	49-129	10	25	
4,4´-DDT	0.124	0.010	ug/l	0.100		124	54-160	12	25	
Aldrin	0.0604	0.010	ug/l	0.100		60	29-115	11	25	
alpha-BHC	0.101	0.010	ug/l	0.100		101	59-131	6	25	
beta-BHC	0.107	0.010	ug/l	0.100		107	63-136	9	25	
delta-BHC	0.111	0.010	ug/l	0.100		111	59-137	9	25	
Dieldrin	0.0854	0.010	ug/l	0.100		85	59-135	7	25	
Endosulfan I	0.100	0.010	ug/l	0.100		100	28-138	10	25	
Endosulfan II	0.114	0.010	ug/l	0.100		114	53-133	11	25	
Endosulfan sulfate	0.134	0.010	ug/l	0.100		134	58-155	14	25	
Endrin	0.109	0.010	ug/l	0.100		109	57-148	11	25	
Endrin aldehyde	0.0339	0.010	ug/l	0.100		34	45-139	6	25	Q-02
gamma-BHC (Lindane)	0.100	0.010	ug/l	0.100		100	59-129	8	25	
Heptachlor	0.0935	0.010	ug/l	0.100		93	42-136	9	25	
Heptachlor epoxide	0.100	0.010	ug/l	0.100		100	59-134	8	25	
Methoxychlor	0.127	0.010	ug/l	0.100		127	56-167	11	25	
Surr: Decachlorobiphenyl	*0.101*		*ug/l*	*0.100*		*101*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0792*		*ug/l*	*0.100*		*79*	*70-130*			

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W4A0520 - EPA 180.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0520-BLK1)				Analyzed: 01/14/14 11:24						
Turbidity	ND	0.10	NTU							
LCS (W4A0520-BS1)				Analyzed: 01/14/14 11:24						
Turbidity	11.0	0.10	NTU	11.0		100	90-110			
Duplicate (W4A0520-DUP1)	**Source: 4A13062-01**			Analyzed: 01/14/14 11:24						
Turbidity	ND	0.10	NTU		ND					

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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W4A0522 - EPA 140.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Duplicate (W4A0522-DUP1)	**Source: 4A14003-01**			Analyzed: 01/14/14 11:52						
Threshold Odor Number	2.0	1.0	T.O.N.		2.0			NR	20	

Batch W4A0524 - EPA 351.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0524-BLK1)				Analyzed: 01/17/14 17:00						
TKN, Soluble	ND	0.10	mg/l							
Blank (W4A0524-BLK2)				Analyzed: 01/17/14 17:00						
TKN, Soluble	ND	0.10	mg/l							
LCS (W4A0524-BS1)				Analyzed: 01/17/14 17:00						
TKN, Soluble	0.970	0.10	mg/l	1.00		97	90-110			
LCS (W4A0524-BS2)				Analyzed: 01/17/14 17:00						
TKN, Soluble	0.963	0.10	mg/l	1.00		96	90-110			

Batch W4A0533 - SM 2120B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0533-BS1)				Analyzed: 01/14/14 13:28						
Color	10.0	3.0	Color Units	10.0		100	95-105			
Duplicate (W4A0533-DUP1)	**Source: 4A13077-04**			Analyzed: 01/14/14 13:28						
Color	ND	3.0	Color Units		0.00					

Batch W4A0535 - EPA 353.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0535-BLK1)				Analyzed: 01/14/14 15:36						
Nitrate as NO3	ND	0.50	mg/l							
NO2+NO3 as N	ND	100	ug/l							
LCS (W4A0535-BS1)				Analyzed: 01/14/14 15:38						
Nitrate as NO3	4.40	0.50	mg/l	4.43		99	90-110			
NO2+NO3 as N	994	100	ug/l	1000		99	90-110			
Matrix Spike (W4A0535-MS1)	**Source: 4A13065-02**			Analyzed: 01/14/14 15:42						
Nitrate as NO3	39.4	0.50	mg/l	8.86	30.1	104	90-110			
NO2+NO3 as N	8880	100	ug/l	2000	6800	104	90-110			
Matrix Spike (W4A0535-MS2)	**Source: 4A13065-03**			Analyzed: 01/14/14 19:38						
Nitrate as NO3	38.9	0.50	mg/l	8.86	30.3	97	90-110			
NO2+NO3 as N	8790	100	ug/l	2000	6840	97	90-110			
Matrix Spike Dup (W4A0535-MSD1)	**Source: 4A13065-02**			Analyzed: 01/14/14 15:44						
Nitrate as NO3	39.3	0.50	mg/l	8.86	30.1	104	90-110	0.06	20	
NO2+NO3 as N	8880	100	ug/l	2000	6800	104	90-110	0.06	20	
Matrix Spike Dup (W4A0535-MSD2)	**Source: 4A13065-03**			Analyzed: 01/14/14 19:41						
Nitrate as NO3	39.8	0.50	mg/l	8.86	30.3	107	90-110	2	20	

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Batch W4A0535 - EPA 353.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike Dup (W4A0535-MSD2)	**Source: 4A13065-03**			Analyzed: 01/14/14 19:41						
NO2+NO3 as N	8980	100	ug/l	2000	6840	107	90-110	2	20	

Batch W4A0544 - EPA 365.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0544-BLK1)				Analyzed: 01/14/14 15:42						
o-Phosphate as P	ND	0.0020	mg/l							
LCS (W4A0544-BS1)				Analyzed: 01/14/14 15:43						
o-Phosphate as P	0.0503	0.0020	mg/l	0.0500		101	90-110			
Matrix Spike (W4A0544-MS1)	**Source: 4A14003-01**			Analyzed: 01/14/14 15:50						
o-Phosphate as P	0.0609	0.0020	mg/l	0.0500	0.0117	98	90-110			
Matrix Spike Dup (W4A0544-MSD1)	**Source: 4A14003-01**			Analyzed: 01/14/14 15:52						
o-Phosphate as P	0.0591	0.0020	mg/l	0.0500	0.0117	95	90-110	3	20	

Batch W4A0545 - SM 5540C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0545-BLK1)				Analyzed: 01/14/14 16:49						
MBAS	ND	0.050	mg/l							
LCS (W4A0545-BS1)				Analyzed: 01/14/14 16:49						
MBAS	0.187	0.050	mg/l	0.200		94	82-115			
Matrix Spike (W4A0545-MS1)	**Source: 4A13077-04**			Analyzed: 01/14/14 16:49						
MBAS	0.205	0.050	mg/l	0.200	0.0223	91	74-123			
Matrix Spike Dup (W4A0545-MSD1)	**Source: 4A13077-04**			Analyzed: 01/14/14 16:49						
MBAS	0.209	0.050	mg/l	0.200	0.0223	93	74-123	2	20	

Batch W4A0555 - SM 4500H+-B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0555-BS1)				Analyzed: 01/14/14 17:38						
pH	7.34	0.10	Units	7.41		99	98.8-101			
Duplicate (W4A0555-DUP1)	**Source: 4A14003-01**			Analyzed: 01/14/14 17:38						
pH	7.31	0.10	Units		7.22			1	3.1	

Batch W4A0596 - EPA 350.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0596-BLK1)				Analyzed: 01/17/14 14:26						
Ammonia as N, Dissolved	ND	0.10	mg/l							
LCS (W4A0596-BS1)				Analyzed: 01/17/14 14:26						
Ammonia as N, Dissolved	0.257	0.10	mg/l	0.250		103	90-110			

Batch W4A0644 - SM 2540C M

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Batch W4A0644 - SM 2540C M

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0644-BLK1)				Analyzed: 01/16/14 15:10						
Total Dissolved Solids	ND	10	mg/l							
LCS (W4A0644-BS1)				Analyzed: 01/16/14 15:10						
Total Dissolved Solids	802	10	mg/l	824		97	96-102			
Duplicate (W4A0644-DUP1)	**Source: 4A14063-01**			Analyzed: 01/16/14 15:10						
Total Dissolved Solids	3150	10	mg/l		3170			0.8	10	

Batch W4A0723 - SM 2320B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0723-BLK1)				Analyzed: 01/17/14 16:43						
Alkalinity as CaCO3	ND	2.0	mg/l							
Alkalinity as CaCO3	ND	2.0	mg/l							
Bicarbonate Alkalinity as HCO3	ND	2.0	mg/l							
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l							
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l							
LCS (W4A0723-BS1)				Analyzed: 01/17/14 16:43						
Alkalinity as CaCO3	246	2.0	mg/l	250		98	94-108			
Alkalinity as CaCO3	246	2.0	mg/l	250		98	94-108			
Bicarbonate Alkalinity as HCO3	300	2.0	mg/l	305		98	95-108			
Duplicate (W4A0723-DUP1)	**Source: 4A14003-01**			Analyzed: 01/17/14 16:43						
Alkalinity as CaCO3	183	2.0	mg/l		185			1	15	
Alkalinity as CaCO3	183	2.0	mg/l		185			1	15	
Bicarbonate Alkalinity as HCO3	223	2.0	mg/l		226			1	15	
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l		ND					
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l		ND					

Batch W4A0809 - EPA 365.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0809-BLK1)				Analyzed: 01/23/14 10:39						
Phosphorus, Dissolved	ND	0.010	mg/l							
LCS (W4A0809-BS1)				Analyzed: 01/23/14 10:40						
Phosphorus, Dissolved	0.0485	0.010	mg/l	0.0500		97	90-110			
Duplicate (W4A0809-DUP1)	**Source: 4A14072-01**			Analyzed: 01/23/14 10:50						
Phosphorus, Dissolved	ND	0.010	mg/l		0.00300			NR	20	Q-R-01
Matrix Spike (W4A0809-MS1)	**Source: 4A14076-04**			Analyzed: 01/23/14 10:43						
Phosphorus, Dissolved	0.0622	0.010	mg/l	0.0500	0.0144	96	90-110			
Matrix Spike Dup (W4A0809-MSD1)	**Source: 4A14076-04**			Analyzed: 01/23/14 10:44						
Phosphorus, Dissolved	0.0630	0.010	mg/l	0.0500	0.0144	97	90-110	1	20	

Batch W4A0928 - SM 2510B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0928-BLK1)				Analyzed: 01/23/14 10:38						

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Batch W4A0928 - SM 2510B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Specific Conductance (EC)	ND	2.0	umhos/cm							
LCS (W4A0928-BS1)				Analyzed: 01/23/14 10:38						
Specific Conductance (EC)	5080	2.0	umhos/cm	5000		102	95-105			
Duplicate (W4A0928-DUP1)	**Source: 4A14003-01**			Analyzed: 01/23/14 10:38						
Specific Conductance (EC)	7550	2.0	umhos/cm		7780			3	5	

Diquat and Paraquat by EPA 549.2 - Quality Control

Batch W4A0444 - EPA 549.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0444-BLK1)				Analyzed: 01/16/14 15:28						
Diquat	ND	4.0	ug/l							
LCS (W4A0444-BS1)				Analyzed: 01/16/14 15:28						
Diquat	14.9	4.0	ug/l	20.0		74	48-130			
Matrix Spike (W4A0444-MS1)	**Source: 4A14004-01**			Analyzed: 01/16/14 15:28						
Diquat	12.0	4.0	ug/l	20.0	ND	60	46-122			
Matrix Spike (W4A0444-MS2)	**Source: 4A14010-01**			Analyzed: 01/16/14 15:28						
Diquat	16.1	4.0	ug/l	20.0	ND	81	46-122			
Matrix Spike Dup (W4A0444-MSD1)	**Source: 4A14004-01**			Analyzed: 01/16/14 15:28						
Diquat	11.4	4.0	ug/l	20.0	ND	57	46-122	5	30	
Matrix Spike Dup (W4A0444-MSD2)	**Source: 4A14010-01**			Analyzed: 01/16/14 15:28						
Diquat	16.8	4.0	ug/l	20.0	ND	84	46-122	4	30	

Endothall By EPA 548.1 - Quality Control

Batch W4A0556 - EPA 548.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0556-BLK1)				Analyzed: 01/18/14 18:34						
Endothall	ND	45	ug/l							
LCS (W4A0556-BS1)				Analyzed: 01/18/14 18:47						
Endothall	71.7	45	ug/l	100		72	31-117			
Matrix Spike (W4A0556-MS1)	**Source: 4A14010-01**			Analyzed: 01/18/14 19:01						
Endothall	68.3	90	ug/l	200	ND	34	0.1-109			
Matrix Spike Dup (W4A0556-MSD1)	**Source: 4A14010-01**			Analyzed: 01/18/14 19:14						
Endothall	68.4	90	ug/l	200	ND	34	0.1-109	0.2	30	

Fumigants by EPA Method 504.1 - Quality Control

Batch W4A0789 - EPA 504.1

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Fumigants by EPA Method 504.1 - Quality Control

Batch W4A0789 - EPA 504.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0789-BLK1)				Analyzed: 01/22/14 15:25						
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l							
1,2-Dibromoethane (EDB)	ND	0.020	ug/l							
LCS (W4A0789-BS1)				Analyzed: 01/22/14 16:01						
1,2-Dibromo-3-chloropropane	0.0910	0.010	ug/l	0.100		91	70-130			
1,2-Dibromoethane (EDB)	0.0780	0.020	ug/l	0.100		78	70-130			
LCS (W4A0789-BS2)				Analyzed: 01/22/14 16:38						
1,2-Dibromo-3-chloropropane	0.0180	0.010	ug/l	0.0200		90	70-130			
1,2-Dibromoethane (EDB)	0.0160	0.020	ug/l	0.0200		80	70-130			
LCS Dup (W4A0789-BSD1)				Analyzed: 01/22/14 17:08						
1,2-Dibromo-3-chloropropane	0.106	0.010	ug/l	0.100		106	70-130	15	30	
1,2-Dibromoethane (EDB)	0.100	0.020	ug/l	0.100		100	70-130	25	30	

Glyphosate by EPA 547 - Quality Control

Batch W4A0601 - EPA 547

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0601-BLK1)				Analyzed: 01/15/14 17:04						
Glyphosate	ND	5.0	ug/l							
LCS (W4A0601-BS1)				Analyzed: 01/15/14 17:04						
Glyphosate	19.9	5.0	ug/l	25.0		80	62-130			
Matrix Spike (W4A0601-MS1)	**Source: 4A14010-01**			Analyzed: 01/15/14 17:04						
Glyphosate	18.4	5.0	ug/l	25.0	ND	74	41-149			
Matrix Spike Dup (W4A0601-MSD1)	**Source: 4A14010-01**			Analyzed: 01/15/14 17:04						
Glyphosate	17.3	5.0	ug/l	25.0	ND	69	41-149	6	30	

Metals by EPA 200 Series Methods - Quality Control

Batch W4A0592 - EPA 200.7

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0592-BLK1)				Analyzed: 01/17/14 09:21						
Barium, Dissolved	ND	0.0020	mg/l							
Boron, Dissolved	ND	10	ug/l							
Calcium, Dissolved	ND	0.100	mg/l							
Calcium, Total	ND	0.100	mg/l							
Iron, Dissolved	ND	10	ug/l							
Iron, Total	ND	0.010	mg/l							
Magnesium, Dissolved	ND	0.100	mg/l							
Magnesium, Total	ND	0.100	mg/l							
Manganese, Dissolved	ND	5.0	ug/l							

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Metals by EPA 200 Series Methods - Quality Control

Batch W4A0592 - EPA 200.7

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0592-BLK1)				Analyzed: 01/17/14 09:18						
Manganese, Total	ND	0.0050	mg/l							
Potassium, Dissolved	0.301	0.10	mg/l							B-06
Potassium, Total	0.394	0.10	mg/l							B-06
Silica as SiO2, Dissolved	ND	0.10	mg/l							
Sodium, Dissolved	0.854	0.50	mg/l							B-06
Sodium, Total	ND	0.50	mg/l							
Strontium, Dissolved	ND	2.0	ug/l							
LCS (W4A0592-BS1)				Analyzed: 01/17/14 09:16						
Barium, Dissolved	0.196	0.0020	mg/l	0.200		98	85-115			
Boron, Dissolved	221	10	ug/l	200		110	85-115			
Calcium, Dissolved	50.8	0.100	mg/l	50.2		101	85-115			
Calcium, Total	50.8	0.100	mg/l	50.2		101	85-115			
Iron, Dissolved	192	10	ug/l	200		96	85-115			
Iron, Total	0.192	0.010	mg/l	0.200		96	85-115			
Magnesium, Dissolved	50.4	0.100	mg/l	50.0		101	85-115			
Magnesium, Total	50.4	0.100	mg/l	50.2		100	85-115			
Manganese, Dissolved	192	5.0	ug/l	200		96	85-115			
Manganese, Total	0.192	0.0050	mg/l	0.200		96	85-115			
Potassium, Dissolved	54.2	0.10	mg/l	52.0		104	85-115			
Potassium, Total	54.2	0.10	mg/l	52.0		104	85-115			
Silica as SiO2, Dissolved	45.8	0.10	mg/l	43.2		106	85-115			
Sodium, Dissolved	83.8	0.50	mg/l	82.6		102	85-115			
Sodium, Total	83.8	0.50	mg/l	82.6		102	85-115			
Strontium, Dissolved	993	2.0	ug/l	1000		99	85-115			
Matrix Spike (W4A0592-MS1)	**Source: 4A14064-01**			Analyzed: 01/17/14 09:46						
Calcium, Total	311	0.100	mg/l	50.2	254	113	70-130			
Iron, Total	3.44	0.010	mg/l	0.200	3.16	140	70-130			MS-02
Magnesium, Total	166	0.100	mg/l	50.2	111	110	70-130			
Manganese, Total	0.557	0.0050	mg/l	0.200	0.344	106	70-130			
Potassium, Total	78.0	0.10	mg/l	52.0	18.8	114	70-130			
Sodium, Total	427	0.50	mg/l	82.6	345	99	70-130			
Matrix Spike Dup (W4A0592-MSD1)	**Source: 4A14064-01**			Analyzed: 01/17/14 09:49						
Calcium, Total	305	0.100	mg/l	50.2	254	100	70-130	2	30	
Iron, Total	3.37	0.010	mg/l	0.200	3.16	108	70-130	2	30	
Magnesium, Total	164	0.100	mg/l	50.2	111	106	70-130	1	30	
Manganese, Total	0.548	0.0050	mg/l	0.200	0.344	102	70-130	2	30	
Potassium, Total	76.6	0.10	mg/l	52.0	18.8	111	70-130	2	30	
Sodium, Total	420	0.50	mg/l	82.6	345	92	70-130	2	30	

Batch W4A0619 - EPA 200.8

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0619-BLK1)				Analyzed: 01/20/14 19:31						
Aluminum, Total	ND	5.0	ug/l							

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Metals by EPA 200 Series Methods - Quality Control

Batch W4A0619 - EPA 200.8

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0619-BLK1)				Analyzed: 01/20/14 19:31						
Arsenic, Total	ND	0.40	ug/l							
Copper, Total	ND	0.50	ug/l							
Zinc, Total	ND	5.0	ug/l							
LCS (W4A0619-BS1)				Analyzed: 01/20/14 19:23						
Aluminum, Total	55.0	5.0	ug/l	50.0		110	85-115			
Arsenic, Total	52.4	0.40	ug/l	50.0		105	85-115			
Copper, Total	55.0	0.50	ug/l	50.0		110	85-115			
Zinc, Total	55.6	5.0	ug/l	50.0		111	85-115			
Matrix Spike (W4A0619-MS1)	**Source: 4A14003-01**			Analyzed: 01/20/14 19:55						
Aluminum, Total	148	5.0	ug/l	50.0	46.8	203	70-130			MS-02
Arsenic, Total	57.2	0.40	ug/l	50.0	5.11	104	70-130			
Copper, Total	45.6	0.50	ug/l	50.0	3.36	84	70-130			
Zinc, Total	76.9	5.0	ug/l	50.0	30.9	92	70-130			
Matrix Spike Dup (W4A0619-MSD1)	**Source: 4A14003-01**			Analyzed: 01/20/14 20:03						
Aluminum, Total	152	5.0	ug/l	50.0	46.8	210	70-130	2	30	MS-02
Arsenic, Total	56.3	0.40	ug/l	50.0	5.11	102	70-130	2	30	
Copper, Total	45.2	0.50	ug/l	50.0	3.36	84	70-130	0.8	30	
Zinc, Total	75.2	5.0	ug/l	50.0	30.9	89	70-130	2	30	

Batch W4B0893 - EPA 200.7

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B0893-BLK1)				Analyzed: 02/21/14 10:36						
Lithium, Total	ND	10	ug/l							
LCS (W4B0893-BS1)				Analyzed: 02/21/14 10:38						
Lithium, Total	1060	10	ug/l	1000		106	85-115			
Matrix Spike (W4B0893-MS1)	**Source: 3L09093-01**			Analyzed: 02/21/14 10:48						
Lithium, Total	1210	20	ug/l	1000	91.2	112	70-130			
Matrix Spike Dup (W4B0893-MSD1)	**Source: 3L09093-01**			Analyzed: 02/21/14 10:50						
Lithium, Total	1250	20	ug/l	1000	91.2	116	70-130	3	30	

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W4A0574 - EPA 525.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0574-BLK1)				Analyzed: 01/23/14 03:32						
Alachlor	ND	0.10	ug/l							
Atrazine	ND	0.10	ug/l							
Benzo (a) pyrene	ND	0.10	ug/l							
Bis(2-ethylhexyl)adipate	ND	5.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/l							

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Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W4A0574 - EPA 525.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0574-BLK1)				Analyzed: 01/23/14 03:32						
Bromacil	ND	0.50	ug/l							
Butachlor	ND	0.10	ug/l							
Captan	ND	1.0	ug/l							
Chloropropham	ND	0.10	ug/l							
Cyanazine	ND	0.10	ug/l							
Diazinon	ND	0.10	ug/l							
Dimethoate	ND	0.20	ug/l							
Diphenamid	ND	0.10	ug/l							
Disulfoton	ND	0.10	ug/l							
EPTC	ND	0.10	ug/l							
Metolachlor	ND	0.10	ug/l							
Metribuzin	ND	0.10	ug/l							
Molinate	ND	0.10	ug/l							
Prometon	ND	0.10	ug/l							
Prometryn	ND	0.10	ug/l							
Simazine	ND	0.10	ug/l							
Terbacil	ND	2.0	ug/l							
Thiobencarb	ND	0.10	ug/l							
Trithion	ND	0.10	ug/l							
Surr: 1,3-Dimethyl-2-nitrobenzene	*5.15*		*ug/l*	*5.00*		*103*	*73-138*			
Surr: Perylene-d12	*4.11*		*ug/l*	*5.00*		*82*	*30-118*			
Surr: Triphenyl phosphate	*5.59*		*ug/l*	*5.00*		*112*	*70-149*			
LCS (W4A0574-BS1)				Analyzed: 01/23/14 03:57						
Alachlor	3.52	0.10	ug/l	5.00		70	55-124			
Atrazine	5.03	0.10	ug/l	5.00		101	67-131			
Benzo (a) pyrene	4.44	0.10	ug/l	5.00		89	40-147			
Bis(2-ethylhexyl)adipate	7.42	5.0	ug/l	5.00		148	71-158			
Bis(2-ethylhexyl)phthalate	7.36	3.0	ug/l	5.00		147	68-154			
Bromacil	3.71	0.50	ug/l	5.00		74	62-139			
Butachlor	3.91	0.10	ug/l	5.00		78	61-127			
Captan	5.69	1.0	ug/l	5.00		114	14-159			
Chloropropham	5.35	0.10	ug/l	5.00		107	77-143			
Cyanazine	5.55	0.10	ug/l	5.00		111	61-129			
Diazinon	3.13	0.10	ug/l	5.00		63	30-120			
Dimethoate	3.52	0.20	ug/l	5.00		70	38-102			
Diphenamid	5.43	0.10	ug/l	5.00		109	77-124			
Disulfoton	4.47	0.10	ug/l	5.00		89	54-156			
EPTC	4.84	0.10	ug/l	5.00		97	82-116			
Metolachlor	3.72	0.10	ug/l	5.00		74	61-123			
Metribuzin	4.01	0.10	ug/l	5.00		80	50-121			
Molinate	4.99	0.10	ug/l	5.00		100	82-117			
Prometon	2.63	0.10	ug/l	5.00		53	17-101			
Prometryn	3.98	0.10	ug/l	5.00		80	57-122			
Simazine	3.54	0.10	ug/l	5.00		71	53-116			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W4A0574 - EPA 525.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0574-BS1)				Analyzed: 01/23/14 03:57						
Terbacil	5.14	2.0	ug/l	5.00		103	70-135			
Thiobencarb	3.69	0.10	ug/l	5.00		74	56-125			
Trithion	4.44	0.10	ug/l	5.00		89	60-124			
Surr: 1,3-Dimethyl-2-nitrobenzene	*4.92*		*ug/l*	*5.00*		*98*	*73-138*			
Surr: Perylene-d12	*9.45*		*ug/l*	*5.00*		*189*	*30-118*			*S-11*
Surr: Triphenyl phosphate	*6.75*		*ug/l*	*5.00*		*135*	*70-149*			
LCS Dup (W4A0574-BSD1)				Analyzed: 01/23/14 04:22						
Alachlor	3.76	0.10	ug/l	5.00		75	55-124	7	30	
Atrazine	5.39	0.10	ug/l	5.00		108	67-131	7	30	
Benzo (a) pyrene	4.25	0.10	ug/l	5.00		85	40-147	4	30	
Bis(2-ethylhexyl)adipate	7.00	5.0	ug/l	5.00		140	71-158	6	30	
Bis(2-ethylhexyl)phthalate	6.92	3.0	ug/l	5.00		138	68-154	6	30	
Bromacil	4.13	0.50	ug/l	5.00		83	62-139	11	30	
Butachlor	4.26	0.10	ug/l	5.00		85	61-127	9	30	
Captan	5.70	1.0	ug/l	5.00		114	14-159	0.2	30	
Chloropropham	5.69	0.10	ug/l	5.00		114	77-143	6	30	
Cyanazine	5.83	0.10	ug/l	5.00		117	61-129	5	30	
Diazinon	3.46	0.10	ug/l	5.00		69	30-120	10	30	
Dimethoate	4.04	0.20	ug/l	5.00		81	38-102	14	30	
Diphenamid	5.74	0.10	ug/l	5.00		115	77-124	6	30	
Disulfoton	4.75	0.10	ug/l	5.00		95	54-156	6	30	
EPTC	5.09	0.10	ug/l	5.00		102	82-116	5	30	
Metolachlor	4.15	0.10	ug/l	5.00		83	61-123	11	30	
Metribuzin	4.32	0.10	ug/l	5.00		86	50-121	7	30	
Molinate	5.40	0.10	ug/l	5.00		108	82-117	8	30	
Prometon	2.65	0.10	ug/l	5.00		53	17-101	0.8	30	
Prometryn	4.01	0.10	ug/l	5.00		80	57-122	0.8	30	
Simazine	3.91	0.10	ug/l	5.00		78	53-116	10	30	
Terbacil	5.39	2.0	ug/l	5.00		108	70-135	5	30	
Thiobencarb	3.95	0.10	ug/l	5.00		79	56-125	7	30	
Trithion	4.92	0.10	ug/l	5.00		98	60-124	10	30	
Surr: 1,3-Dimethyl-2-nitrobenzene	*5.10*		*ug/l*	*5.00*		*102*	*73-138*			
Surr: Perylene-d12	*9.13*		*ug/l*	*5.00*		*183*	*30-118*			*S-11*
Surr: Triphenyl phosphate	*6.62*		*ug/l*	*5.00*		*132*	*70-149*			

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0558-BLK1)				Analyzed: 01/15/14 17:33						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0558-BLK1)				Analyzed: 01/15/14 17:33						
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
1,1-Dichloropropene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	0.50	ug/l							
1,2,4-Trichlorobenzene	ND	0.50	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropene, Total	ND	0.50	ug/l							
2,2-Dichloropropane	ND	0.50	ug/l							
2-Butanone	ND	5.0	ug/l							
2-Chloroethyl vinyl ether	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
2-Hexanone	ND	5.0	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
4-Methyl-2-pentanone	ND	5.0	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	0.50	ug/l							
Bromomethane	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	0.50	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l							
Di-isopropyl ether	ND	2.0	ug/l							
Ethyl tert-butyl ether	ND	2.0	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Freon 113	ND	5.0	ug/l							
Hexachlorobutadiene	ND	0.50	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
m,p-Xylene	ND	0.50	ug/l							

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0558-BLK1)				Analyzed: 01/15/14 17:33						
m-Dichlorobenzene	ND	0.50	ug/l							
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l							
Methylene chloride	ND	0.50	ug/l							
Naphthalene	ND	0.50	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
o-Dichlorobenzene	ND	0.50	ug/l							
o-Xylene	ND	0.50	ug/l							
p-Dichlorobenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
Tert-amyl methyl ether	ND	2.0	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
THMs, Total	ND	2.0	ug/l							
Toluene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Surr: 1,2-Dichlorobenzene-d4	*10.1*		*ug/l*	*10.0*		*101*	*70-130*			
Surr: 4-Bromofluorobenzene	*8.88*		*ug/l*	*10.0*		*89*	*70-130*			
LCS (W4A0558-BS1)				Analyzed: 01/15/14 15:18						
1,1,1,2-Tetrachloroethane	5.90	0.50	ug/l	6.00		98	70-130			
1,1,1-Trichloroethane	6.00	0.50	ug/l	6.00		100	70-130			
1,1,2,2-Tetrachloroethane	5.87	0.50	ug/l	6.00		98	70-130			
1,1,2-Trichloroethane	6.19	0.50	ug/l	6.00		103	70-130			
1,1-Dichloroethane	6.07	0.50	ug/l	6.00		101	70-130			
1,1-Dichloroethene	6.33	0.50	ug/l	6.00		106	70-130			
1,1-Dichloropropene	5.49	0.50	ug/l	6.00		92	70-130			
1,2,3-Trichlorobenzene	5.45	0.50	ug/l	6.00		91	70-130			
1,2,3-Trichloropropane	5.78	0.50	ug/l	6.00		96	70-130			
1,2,4-Trichlorobenzene	5.47	0.50	ug/l	6.00		91	70-130			
1,2,4-Trimethylbenzene	6.19	0.50	ug/l	6.00		103	70-130			
1,2-Dichloroethane	5.97	0.50	ug/l	6.00		100	70-130			
1,2-Dichloropropane	5.37	0.50	ug/l	6.00		90	70-130			
1,3,5-Trimethylbenzene	6.52	0.50	ug/l	6.00		109	70-130			
1,3-Dichloropropane	5.43	0.50	ug/l	6.00		90	70-130			
2,2-Dichloropropane	6.32	0.50	ug/l	6.00		105	70-130			
2-Butanone	5.62	5.0	ug/l	6.00		94	70-130			
2-Chloroethyl vinyl ether	5.57	1.0	ug/l	6.00		93	70-130			

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0558-BS1)				Analyzed: 01/15/14 15:18						
2-Chlorotoluene	5.97	0.50	ug/l	6.00		100	70-130			
2-Hexanone	5.72	5.0	ug/l	6.00		95	70-130			
4-Chlorotoluene	5.53	0.50	ug/l	6.00		92	70-130			
4-Methyl-2-pentanone	5.84	5.0	ug/l	6.00		97	70-130			
Benzene	6.49	0.50	ug/l	6.00		108	70-130			
Bromobenzene	6.24	0.50	ug/l	6.00		104	70-130			
Bromochloromethane	6.19	0.50	ug/l	6.00		103	70-130			
Bromodichloromethane	5.62	0.50	ug/l	6.00		94	70-130			
Bromoform	5.38	0.50	ug/l	6.00		90	70-130			
Bromomethane	6.79	0.50	ug/l	6.00		113	70-130			
Carbon tetrachloride	5.87	0.50	ug/l	6.00		98	70-130			
Chlorobenzene	6.42	0.50	ug/l	6.00		107	70-130			
Chloroethane	6.51	0.50	ug/l	6.00		108	70-130			
Chloroform	6.18	0.50	ug/l	6.00		103	70-130			
Chloromethane	6.30	0.50	ug/l	6.00		105	70-130			
cis-1,2-Dichloroethene	6.35	0.50	ug/l	6.00		106	70-130			
cis-1,3-Dichloropropene	5.20	0.50	ug/l	6.00		87	70-130			
Dibromochloromethane	5.63	0.50	ug/l	6.00		94	70-130			
Dibromomethane	5.90	0.50	ug/l	6.00		98	70-130			
Dichlorodifluoromethane (Freon 12)	6.62	0.50	ug/l	6.00		110	70-130			
Di-isopropyl ether	5.82	2.0	ug/l	6.00		97	70-130			
Ethyl tert-butyl ether	6.29	2.0	ug/l	6.00		105	70-130			
Ethylbenzene	6.40	0.50	ug/l	6.00		107	70-130			
Freon 113	6.04	5.0	ug/l	6.00		101	70-130			
Hexachlorobutadiene	6.42	0.50	ug/l	6.00		107	70-130			
Isopropylbenzene	5.77	0.50	ug/l	6.00		96	70-130			
m,p-Xylene	6.36	0.50	ug/l	6.00		106	70-130			
m-Dichlorobenzene	6.40	0.50	ug/l	6.00		107	70-130			
Methyl tert-butyl ether (MTBE)	6.06	2.0	ug/l	6.00		101	70-130			
Methylene chloride	6.11	0.50	ug/l	6.00		102	70-130			
Naphthalene	5.17	0.50	ug/l	6.00		86	70-130			
n-Butylbenzene	5.52	0.50	ug/l	6.00		92	70-130			
n-Propylbenzene	5.78	0.50	ug/l	6.00		96	70-130			
o-Dichlorobenzene	6.15	0.50	ug/l	6.00		102	70-130			
o-Xylene	6.69	0.50	ug/l	6.00		112	70-130			
p-Dichlorobenzene	6.01	0.50	ug/l	6.00		100	70-130			
p-Isopropyltoluene	5.42	0.50	ug/l	6.00		90	70-130			
sec-Butylbenzene	5.20	0.50	ug/l	6.00		87	70-130			
Styrene	6.39	0.50	ug/l	6.00		106	70-130			
Tert-amyl methyl ether	5.86	2.0	ug/l	6.00		98	70-130			
tert-Butylbenzene	5.14	0.50	ug/l	6.00		86	70-130			
Tetrachloroethene	6.31	0.50	ug/l	6.00		105	70-130			
Toluene	6.47	0.50	ug/l	6.00		108	70-130			
trans-1,2-Dichloroethene	6.41	0.50	ug/l	6.00		107	70-130			

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Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0558-BS1)				Analyzed: 01/15/14 15:18						
trans-1,3-Dichloropropene	5.04	0.50	ug/l	6.00		84	70-130			
Trichloroethene	6.28	0.50	ug/l	6.00		105	70-130			
Trichlorofluoromethane	6.36	0.50	ug/l	6.00		106	70-130			
Vinyl chloride	6.19	0.50	ug/l	6.00		103	70-130			
Surr: 1,2-Dichlorobenzene-d4	*17.1*		*ug/l*	*10.0*		*171*	*70-130*			*S-BS*
Surr: 4-Bromofluorobenzene	*12.1*		*ug/l*	*10.0*		*121*	*70-130*			
LCS Dup (W4A0558-BSD1)				Analyzed: 01/15/14 15:51						
1,1,1,2-Tetrachloroethane	5.74	0.50	ug/l	6.00		96	70-130	3	30	
1,1,1-Trichloroethane	5.77	0.50	ug/l	6.00		96	70-130	4	30	
1,1,2,2-Tetrachloroethane	5.68	0.50	ug/l	6.00		95	70-130	3	30	
1,1,2-Trichloroethane	5.89	0.50	ug/l	6.00		98	70-130	5	30	
1,1-Dichloroethane	5.92	0.50	ug/l	6.00		99	70-130	3	30	
1,1-Dichloroethene	6.27	0.50	ug/l	6.00		104	70-130	1	30	
1,1-Dichloropropene	5.36	0.50	ug/l	6.00		89	70-130	2	30	
1,2,3-Trichlorobenzene	5.37	0.50	ug/l	6.00		90	70-130	1	30	
1,2,3-Trichloropropane	5.35	0.50	ug/l	6.00		89	70-130	8	30	
1,2,4-Trichlorobenzene	5.31	0.50	ug/l	6.00		88	70-130	3	30	
1,2,4-Trimethylbenzene	6.17	0.50	ug/l	6.00		103	70-130	0.3	30	
1,2-Dichloroethane	5.91	0.50	ug/l	6.00		98	70-130	1	30	
1,2-Dichloropropane	5.32	0.50	ug/l	6.00		89	70-130	0.9	30	
1,3,5-Trimethylbenzene	6.13	0.50	ug/l	6.00		102	70-130	6	30	
1,3-Dichloropropane	5.31	0.50	ug/l	6.00		88	70-130	2	30	
2,2-Dichloropropane	6.04	0.50	ug/l	6.00		101	70-130	5	30	
2-Butanone	5.49	5.0	ug/l	6.00		92	70-130	2	30	
2-Chloroethyl vinyl ether	5.40	1.0	ug/l	6.00		90	70-130	3	30	
2-Chlorotoluene	5.46	0.50	ug/l	6.00		91	70-130	9	30	
2-Hexanone	5.65	5.0	ug/l	6.00		94	70-130	1	30	
4-Chlorotoluene	5.32	0.50	ug/l	6.00		89	70-130	4	30	
4-Methyl-2-pentanone	5.84	5.0	ug/l	6.00		97	70-130	NR	30	
Benzene	6.28	0.50	ug/l	6.00		105	70-130	3	30	
Bromobenzene	5.55	0.50	ug/l	6.00		92	70-130	12	30	
Bromochloromethane	6.11	0.50	ug/l	6.00		102	70-130	1	30	
Bromodichloromethane	5.47	0.50	ug/l	6.00		91	70-130	3	30	
Bromoform	5.31	0.50	ug/l	6.00		88	70-130	1	30	
Bromomethane	6.89	0.50	ug/l	6.00		115	70-130	1	30	
Carbon tetrachloride	5.74	0.50	ug/l	6.00		96	70-130	2	30	
Chlorobenzene	6.27	0.50	ug/l	6.00		104	70-130	2	30	
Chloroethane	6.24	0.50	ug/l	6.00		104	70-130	4	30	
Chloroform	5.99	0.50	ug/l	6.00		100	70-130	3	30	
Chloromethane	6.40	0.50	ug/l	6.00		107	70-130	2	30	
cis-1,2-Dichloroethene	6.21	0.50	ug/l	6.00		104	70-130	2	30	
cis-1,3-Dichloropropene	5.12	0.50	ug/l	6.00		85	70-130	2	30	
Dibromochloromethane	5.45	0.50	ug/l	6.00		91	70-130	3	30	
Dibromomethane	5.84	0.50	ug/l	6.00		97	70-130	1	30	

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Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W4A0558-BSD1)				Analyzed: 01/15/14 15:51						
Dichlorodifluoromethane (Freon 12)	6.25	0.50	ug/l	6.00		104	70-130	6	30	
Di-isopropyl ether	5.81	2.0	ug/l	6.00		97	70-130	0.2	30	
Ethyl tert-butyl ether	6.30	2.0	ug/l	6.00		105	70-130	0.2	30	
Ethylbenzene	6.28	0.50	ug/l	6.00		105	70-130	2	30	
Freon 113	5.85	5.0	ug/l	6.00		98	70-130	3	30	
Hexachlorobutadiene	6.16	0.50	ug/l	6.00		103	70-130	4	30	
Isopropylbenzene	5.41	0.50	ug/l	6.00		90	70-130	6	30	
m,p-Xylene	6.18	0.50	ug/l	6.00		103	70-130	3	30	
m-Dichlorobenzene	6.36	0.50	ug/l	6.00		106	70-130	0.6	30	
Methyl tert-butyl ether (MTBE)	6.22	2.0	ug/l	6.00		104	70-130	3	30	
Methylene chloride	5.92	0.50	ug/l	6.00		99	70-130	3	30	
Naphthalene	5.05	0.50	ug/l	6.00		84	70-130	2	30	
n-Butylbenzene	5.41	0.50	ug/l	6.00		90	70-130	2	30	
n-Propylbenzene	5.22	0.50	ug/l	6.00		87	70-130	10	30	
o-Dichlorobenzene	6.01	0.50	ug/l	6.00		100	70-130	2	30	
o-Xylene	6.46	0.50	ug/l	6.00		108	70-130	3	30	
p-Dichlorobenzene	6.08	0.50	ug/l	6.00		101	70-130	1	30	
p-Isopropyltoluene	5.42	0.50	ug/l	6.00		90	70-130	NR	30	
sec-Butylbenzene	5.26	0.50	ug/l	6.00		88	70-130	1	30	
Styrene	6.22	0.50	ug/l	6.00		104	70-130	3	30	
Tert-amyl methyl ether	5.92	2.0	ug/l	6.00		99	70-130	1	30	
tert-Butylbenzene	4.72	0.50	ug/l	6.00		79	70-130	9	30	
Tetrachloroethene	6.15	0.50	ug/l	6.00		102	70-130	3	30	
Toluene	6.29	0.50	ug/l	6.00		105	70-130	3	30	
trans-1,2-Dichloroethene	6.24	0.50	ug/l	6.00		104	70-130	3	30	
trans-1,3-Dichloropropene	4.92	0.50	ug/l	6.00		82	70-130	2	30	
Trichloroethene	6.05	0.50	ug/l	6.00		101	70-130	4	30	
Trichlorofluoromethane	6.16	0.50	ug/l	6.00		103	70-130	3	30	
Vinyl chloride	6.01	0.50	ug/l	6.00		100	70-130	3	30	
Surr: 1,2-Dichlorobenzene-d4	*17.4*		*ug/l*	*10.0*		*174*	*70-130*			*S-BS*
Surr: 4-Bromofluorobenzene	*11.2*		*ug/l*	*10.0*		*112*	*70-130*			

EPA 1613B mod. - Quality Control

Batch 3522182 - EPA 1613B mod.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (3522182-BLK)				Analyzed: 02/26/14 00:00						
2,3,7,8-Tetra CDD	ND	4.2	pg/L			NR	-			S_MAXX
Surr: 37CL4 2378 Tetra CDD	*288*		*pg/L*	*200*		*144*	*40-130*			*A3826, A1, S_MAXX*
Surr: C13-2378 TetraCDD	*274*		*pg/L*	*200*		*137*	*24-164*			*S_MAXX*
LCS (3522182-LCS)				Analyzed: 02/26/14 00:00						

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Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

EPA 1613B mod. - Quality Control

Batch 3522182 - EPA 1613B mod.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (3522182-LCS)				Analyzed: 02/26/14 00:00						
2,3,7,8-Tetra CDD	194	4.2	pg/L	200		97	67-158			S_MAXX
Surr: 37CL4 2378 Tetra CDD	*166*		*pg/L*	*200*		*83*	*40-130*			*S_MAXX*
Surr: C13-2378 TetraCDD	*232*		*pg/L*	*200*		*116*	*24-164*			*S_MAXX*
LCS Dup (3522182-LCS Dup)				Analyzed: 02/26/14 00:00						
2,3,7,8-Tetra CDD	200	4.2	pg/L	200		100	67-158	2.7	25	S_MAXX
Surr: 37CL4 2378 Tetra CDD	*170*		*pg/L*	*200*		*85*	*40-130*			*S_MAXX*
Surr: C13-2378 TetraCDD	*242*		*pg/L*	*200*		*121*	*24-164*			*S_MAXX*

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Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:27

Notes and Definitions

MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
*****	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
******	The recommended holding time for field filtering is only 15 minutes. The sample was filtered as soon as possible but it was filtered past holding time. However, the sample was analyzed within holding time.
A-01	Analysis subcontracted to Pace Analytical Services, Inc. NELAP Certificate 04222CA
A1	Exceedence
A3826	Recovery of clean-up spike meets 1613 method criteria range of 42-164%
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
S_MAXX	[Undefined]
MS-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
O-09	This sample was received with the EPA recommended holding time expired.
O-14	This analysis was requested by the client after the holding time was exceeded.
Q-02	Low recovery of this analyte in the QC sample. The analysis of the low level standard produced acceptable recovery indicating that the sample result might be accurately reported as Not Detected.
Q-R-01	Analyses are not controlled on RPD values from sample concentrations less than the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
S_MAXX	Analysis subcontracted to Maxxam Analytical, Inc. NELAP Certificate 02106A
S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
S-BS	Surrogate recovery outside of control limits for LCS. The data was accepted based on valid recovery of the target analytes.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.

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ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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CERTIFICATE OF ANALYSIS

Client:	California American Water-Monterey P.O.BOX 951 Monterey CA, 93942-0951	**Report Date:**	03/06/14 09:25
		Received Date:	01/14/14 09:15
		Turn Around:	Normal
Attention:	Travis Peterson	**Client Project:**	Monterey Peninsula Water Supply Project (MPWSP)
Phone:	(831) 646-3269		
Fax:	-		
Work Order(s):	4A14003		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Travis Peterson :

Enclosed are the results of analyses for samples received 01/14/14 09:15 with the Chain of Custody document. The samples were received in good condition, at 2.6 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Hai Van Nguyen
Project Manager

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Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
ML-3 Zone # 2 (103-113 ftbgs)	Nathan Reynolds		4A14003-01	Water	01/13/14 11:45

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Carbamates and Urea Pesticides

Chlorinated Herbicides

Chlorinated Pesticides and/or PCBs

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Diquat and Paraquat by EPA 549.2

Endothall By EPA 548.1

EPA 1613B mod.

Fumigants by EPA Method 504.1

Glyphosate by EPA 547

Metals by EPA 200 Series Methods

Semivolatile Organic Compounds by GC/MS

Subcontracted Analyses

Volatile Organic Compounds by EPA Method 524.2

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Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:25

4A14003-01 ML-3 Zone # 2 (103-113 ftbgs)

Sampled: 01/13/14 11:45 **Sampled By:** Nathan Reynolds **Matrix:** Water

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 300.0 Batch: W4A0532 Prepared: 01/14/14 11:00 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chloride, Total	**2300**	50	mg/l	100	01/14/14 20:52	
Fluoride, Total	ND	1.0	mg/l	10	01/14/14 20:52	M-05
Sulfate as SO4	**190**	5.0	mg/l	10	01/14/14 20:52	

Method: EPA 300.1 Batch: W4A0844 Prepared: 01/21/14 11:17 Analyst: cwh

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Bromide	**7700**		250	ug/l	25	01/21/14 15:14	
Surr: Dichloroacetate	*101 %*	Conc:*505*	*90-115*	%			

Method: EPA 9056A Batch: W4B0889 Prepared: 02/20/14 09:30 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Iodide, Dissolved	**200**	50	ug/l	5	02/20/14 15:41	O-14

Carbamates and Urea Pesticides

Method: EPA 531.1 Batch: W4A0802 Prepared: 01/20/14 13:06 Analyst: cwh

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
3-Hydroxycarbofuran	ND	2.0	ug/l	1	01/20/14 23:50	
Aldicarb	ND	2.0	ug/l	1	01/20/14 23:50	
Aldicarb sulfone	ND	2.0	ug/l	1	01/20/14 23:50	
Aldicarb sulfoxide	ND	2.0	ug/l	1	01/20/14 23:50	
Carbaryl	ND	2.0	ug/l	1	01/20/14 23:50	
Carbofuran	ND	2.0	ug/l	1	01/20/14 23:50	
Methiocarb	ND	2.0	ug/l	1	01/20/14 23:50	
Methomyl	ND	2.0	ug/l	1	01/20/14 23:50	
Oxamyl	ND	2.0	ug/l	1	01/20/14 23:50	
Propoxur (Baygon)	ND	2.0	ug/l	1	01/20/14 23:50	

Chlorinated Herbicides

Method: EPA 515.3 Batch: W4A0564 Prepared: 01/15/14 08:23 Analyst: mxw

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
2,4,5-T	ND	0.20	ug/l	1	01/25/14 02:55	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	01/25/14 02:55	
2,4-D	ND	0.40	ug/l	1	01/25/14 02:55	
2,4-DB	ND	2.0	ug/l	1	01/25/14 02:55	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	01/25/14 02:55	
Acifluorfen	ND	0.40	ug/l	1	01/25/14 02:55	
Bentazon	ND	2.0	ug/l	1	01/25/14 02:55	
Dalapon	ND	0.40	ug/l	1	01/25/14 02:55	
DCPA	ND	0.10	ug/l	1	01/25/14 02:55	
Dicamba	ND	0.60	ug/l	1	01/25/14 02:55	

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California American Water-Monterey
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Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:25

4A14003-01 **ML-3 Zone # 2 (103-113 ftbgs)**

Sampled: 01/13/14 11:45 **Sampled By:** Nathan Reynolds **Matrix:** Water

Chlorinated Herbicides

Method: EPA 515.3 Batch: W4A0564 Prepared: 01/15/14 08:23 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Dichloroprop	ND		0.30	ug/l	1	01/25/14 02:55	
Dinoseb	ND		0.40	ug/l	1	01/25/14 02:55	
Pentachlorophenol	ND		0.20	ug/l	1	01/25/14 02:55	
Picloram	ND		0.60	ug/l	1	01/25/14 02:55	
Surr: 2,4-DCAA	*100 %*	Conc:*9.96*	*70-130*	%			

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4A0617 Prepared: 01/16/14 08:43 Analyst: mxw

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND	0.010	ug/l	1	01/29/14 21:51	
4,4´-DDE	ND	0.010	ug/l	1	01/29/14 21:51	
4,4´-DDT	ND	0.010	ug/l	1	01/29/14 21:51	
Aldrin	ND	0.010	ug/l	1	01/29/14 21:51	
alpha-BHC	ND	0.010	ug/l	1	01/29/14 21:51	
Aroclor 1016	ND	0.10	ug/l	1	01/29/14 21:51	
Aroclor 1221	ND	0.10	ug/l	1	01/29/14 21:51	
Aroclor 1232	ND	0.10	ug/l	1	01/29/14 21:51	
Aroclor 1242	ND	0.10	ug/l	1	01/29/14 21:51	
Aroclor 1248	ND	0.10	ug/l	1	01/29/14 21:51	
Aroclor 1254	ND	0.10	ug/l	1	01/29/14 21:51	
Aroclor 1260	ND	0.10	ug/l	1	01/29/14 21:51	
beta-BHC	ND	0.010	ug/l	1	01/29/14 21:51	
Chlordane (tech)	ND	0.10	ug/l	1	01/29/14 21:51	
Chlorothalonil	ND	0.050	ug/l	1	01/29/14 21:51	
delta-BHC	ND	0.010	ug/l	1	01/29/14 21:51	
Dieldrin	ND	0.010	ug/l	1	01/29/14 21:51	
Endosulfan I	ND	0.010	ug/l	1	01/29/14 21:51	
Endosulfan II	ND	0.010	ug/l	1	01/29/14 21:51	
Endosulfan sulfate	ND	0.010	ug/l	1	01/29/14 21:51	
Endrin	ND	0.010	ug/l	1	01/29/14 21:51	
Endrin aldehyde	ND	0.010	ug/l	1	01/29/14 21:51	
gamma-BHC (Lindane)	ND	0.010	ug/l	1	01/29/14 21:51	
Heptachlor	ND	0.010	ug/l	1	01/29/14 21:51	
Heptachlor epoxide	ND	0.010	ug/l	1	01/29/14 21:51	
Hexachlorobenzene	ND	0.010	ug/l	1	01/29/14 21:51	
Hexachlorocyclopentadiene	ND	0.050	ug/l	1	01/29/14 21:51	
Methoxychlor	ND	0.010	ug/l	1	01/29/14 21:51	
PCBs, Total	ND	0.50	ug/l	1	01/29/14 21:51	
Propachlor	ND	0.050	ug/l	1	01/29/14 21:51	
Toxaphene	ND	1.0	ug/l	1	01/29/14 21:51	

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Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:25

4A14003-01 ML-3 Zone # 2 (103-113 ftbgs)

Sampled: 01/13/14 11:45 **Sampled By:** Nathan Reynolds **Matrix:** Water

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W4A0617 Prepared: 01/16/14 08:43 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Trifluralin	ND		0.010	ug/l	1	01/29/14 21:51	
Surr: Decachlorobiphenyl	*30 %*	Conc:*0.0295*	*70-130*	%			*S-GC*
Surr: Tetrachloro-meta-xylene	*104 %*	Conc:*0.104*	*70-130*	%			

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: EPA 140.1 Batch: W4A0522 Prepared: 01/14/14 11:32 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Threshold Odor Number	**2.0**	1.0	T.O.N.	2	01/14/14 11:52	

Method: EPA 180.1 Batch: W4A0520 Prepared: 01/14/14 10:53 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Turbidity	**11**	0.10	NTU	1	01/14/14 11:24	

Method: EPA 350.1 Batch: W4A0596 Prepared: 01/15/14 14:35 Analyst: rjs

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Ammonia as N, Dissolved	**1.7**	0.20	mg/l	2	01/17/14 14:26	

Method: EPA 351.2 Batch: W4A0524 Prepared: 01/14/14 12:34 Analyst: rjs

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
TKN, Soluble	**1.6**	0.10	mg/l	1	01/17/14 17:00	

Method: EPA 353.2 Batch: W4A0535 Prepared: 01/14/14 13:08 Analyst: MBC

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Nitrate as NO3	ND	0.50	mg/l	1	01/14/14 16:06	
NO2+NO3 as N	ND	100	ug/l	1	01/14/14 16:06	

Method: EPA 365.1 Batch: W4A0544 Prepared: 01/14/14 14:48 Analyst: htl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
o-Phosphate as P	**0.012**	0.0020	mg/l	1	01/14/14 15:45	**

Method: EPA 365.1 Batch: W4A0809 Prepared: 01/20/14 14:19 Analyst: htl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Phosphorus, Dissolved	**0.20**	0.020	mg/l	2	01/23/14 10:57	

Method: SM 2120B Batch: W4A0533 Prepared: 01/14/14 13:03 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Color	ND	3.0	Color Units	1	01/14/14 13:28	

Method: SM 2320B Batch: W4A0723 Prepared: 01/17/14 13:33 Analyst: ajp

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier

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4A14003-01 ML-3 Zone # 2 (103-113 ftbgs)

Sampled: 01/13/14 11:45 **Sampled By:** Nathan Reynolds **Matrix:** Water

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: SM 2320B Batch: W4A0723 Prepared: 01/17/14 13:33 Analyst: ajp

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alkalinity as CaCO3	**190**	2.0	mg/l	1	01/17/14 16:43	
Alkalinity as CaCO3	**190**	2.0	mg/l	1	01/17/14 16:43	
Bicarbonate Alkalinity as HCO3	**230**	2.0	mg/l	1	01/17/14 16:43	
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l	1	01/17/14 16:43	
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l	1	01/17/14 16:43	

Method: SM 2510B Batch: W4A0928 Prepared: 01/23/14 08:26 Analyst: ajp

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Specific Conductance (EC)	**7800**	2.0	umhos/cm	1	01/23/14 10:38	

Method: SM 2540C M Batch: W4A0644 Prepared: 01/16/14 13:17 Analyst: ajw

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Total Dissolved Solids	**4200**	10	mg/l	1	01/16/14 15:10	

Method: SM 4500H+-B Batch: W4A0555 Prepared: 01/14/14 17:04 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
pH	**7.22**	0.10	Units	1	01/14/14 17:38	*

Method: SM 5540C Batch: W4A0545 Prepared: 01/14/14 14:56 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
MBAS	ND	0.050	mg/l	1	01/14/14 16:49	

Method: Various Batch: [CALC] Prepared: 01/17/14 13:33 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Total Anions	**73**	1.6	meq/l	100	01/17/14 16:43	

Diquat and Paraquat by EPA 549.2

Method: EPA 549.2 Batch: W4A0444 Prepared: 01/15/14 17:01 Analyst: cwh

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Diquat	ND	4.0	ug/l	1	01/16/14 15:28	

Endothall By EPA 548.1

Method: EPA 548.1 Batch: W4A0556 Prepared: 01/14/14 17:06 Analyst: abj

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Endothall	ND	45	ug/l	1	01/18/14 20:49	

EPA 1613B mod.

Method: EPA 1613B mod. Batch: 3522182 Prepared: 02/23/14 00:00 Analyst: VCI

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
2,3,7,8-Tetra CDD	ND	3.9	pg/L	1	02/26/14 00:00	S_MAXX

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Date Reported: 03/06/14 09:25

4A14003-01 **ML-3 Zone # 2 (103-113 ftbgs)**

Sampled: 01/13/14 11:45 **Sampled By:** Nathan Reynolds **Matrix:** Water

EPA 1613B mod.

Method: EPA 1613B mod. Batch: 3522182 Prepared: 02/23/14 00:00 Analyst: VCI

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Surr: 37CL4 2378 Tetra CDD	*83 %*	Conc:*166*	*40-130*	%			*S_MAXX*
Surr: C13-2378 TetraCDD	*111 %*	Conc:*222*	*24-164*	%			*S_MAXX*

Fumigants by EPA Method 504.1

Method: EPA 504.1 Batch: W4A0789 Prepared: 01/20/14 11:22 Analyst: jch

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	01/22/14 18:53	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	01/22/14 18:53	

Glyphosate by EPA 547

Method: EPA 547 Batch: W4A0601 Prepared: 01/15/14 15:08 Analyst: cwh

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Glyphosate	ND	5.0	ug/l	1	01/15/14 17:04	

Metals by EPA 200 Series Methods

Method: [CALC] Batch: [CALC] Prepared: 01/15/14 14:31 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Total Cations	**73**	0.037	meq/l	1	01/17/14 09:29	

Method: EPA 200.7 Batch: [CALC] Prepared: 01/15/14 14:31 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Calcium Hardness as CaCO3	**647**	0.250	mg/l	1	01/17/14 09:29	

Method: EPA 200.7 Batch: W4A0592 Prepared: 01/15/14 14:31 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Barium, Dissolved	**0.092**	0.0020	mg/l	1	01/17/14 09:24	
Boron, Dissolved	**450**	10	ug/l	1	01/17/14 09:24	
Calcium, Dissolved	**254**	0.100	mg/l	1	01/17/14 09:24	
Calcium, Total	**259**	0.100	mg/l	1	01/17/14 09:29	
Iron, Dissolved	**1700**	10	ug/l	1	01/17/14 09:24	
Iron, Total	**3.5**	0.010	mg/l	1	01/17/14 09:29	
Magnesium, Dissolved	**173**	0.100	mg/l	1	01/17/14 09:24	
Magnesium, Total	**178**	0.100	mg/l	1	01/17/14 09:29	
Manganese, Dissolved	**1300**	5.0	ug/l	1	01/17/14 09:24	
Manganese, Total	**1.4**	0.0050	mg/l	1	01/17/14 09:29	
Potassium, Dissolved	**27**	0.10	mg/l	1	01/17/14 09:24	
Potassium, Total	**27**	0.10	mg/l	1	01/17/14 09:29	
Silica as SiO2, Dissolved	**40**	0.10	mg/l	1	01/17/14 09:24	
Sodium, Dissolved	**1000**	0.50	mg/l	1	01/17/14 09:24	
Sodium, Total	**1000**	0.50	mg/l	1	01/17/14 09:29	

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4A14003-01 **ML-3 Zone # 2 (103-113 ftbgs)**

Sampled: 01/13/14 11:45 **Sampled By:** Nathan Reynolds **Matrix:** Water

Metals by EPA 200 Series Methods

Method: EPA 200.7 Batch: W4A0592 Prepared: 01/15/14 14:31 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Strontium, Dissolved	**1900**	2.0	ug/l	1	01/17/14 09:24	

Method: EPA 200.7 Batch: W4B0893 Prepared: 02/20/14 14:04 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Lithium, Total	**86**	20	ug/l	2	02/21/14 10:43	

Method: EPA 200.8 Batch: W4A0619 Prepared: 01/16/14 09:08 Analyst: XXX

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Aluminum, Total	**47**	5.0	ug/l	1	01/20/14 19:39	
Arsenic, Total	**5.1**	0.40	ug/l	1	01/20/14 19:39	
Copper, Total	**3.4**	0.50	ug/l	1	01/20/14 19:39	
Zinc, Total	**31**	5.0	ug/l	1	01/20/14 19:39	

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2 Batch: W4A0574 Prepared: 01/15/14 09:58 Analyst: abj

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alachlor	ND	0.10	ug/l	1	01/23/14 04:47	
Atrazine	ND	0.10	ug/l	1	01/23/14 04:47	
Benzo (a) pyrene	ND	0.10	ug/l	1	01/23/14 04:47	
Bis(2-ethylhexyl)adipate	ND	5.0	ug/l	1	01/23/14 04:47	
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/l	1	01/23/14 04:47	
Bromacil	ND	0.50	ug/l	1	01/23/14 04:47	
Butachlor	ND	0.10	ug/l	1	01/23/14 04:47	
Captan	ND	1.0	ug/l	1	01/23/14 04:47	
Chloropropham	ND	0.10	ug/l	1	01/23/14 04:47	
Cyanazine	ND	0.10	ug/l	1	01/23/14 04:47	
Diazinon	ND	0.10	ug/l	1	01/23/14 04:47	
Dimethoate	ND	0.20	ug/l	1	01/23/14 04:47	
Diphenamid	ND	0.10	ug/l	1	01/23/14 04:47	
Disulfoton	ND	0.10	ug/l	1	01/23/14 04:47	
EPTC	ND	0.10	ug/l	1	01/23/14 04:47	
Metolachlor	ND	0.10	ug/l	1	01/23/14 04:47	
Metribuzin	ND	0.10	ug/l	1	01/23/14 04:47	
Molinate	ND	0.10	ug/l	1	01/23/14 04:47	
Prometon	ND	0.10	ug/l	1	01/23/14 04:47	
Prometryn	ND	0.10	ug/l	1	01/23/14 04:47	
Simazine	ND	0.10	ug/l	1	01/23/14 04:47	
Terbacil	ND	2.0	ug/l	1	01/23/14 04:47	
Thiobencarb	ND	0.10	ug/l	1	01/23/14 04:47	
Trithion	ND	0.10	ug/l	1	01/23/14 04:47	

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4A14003-01 **ML-3 Zone # 2 (103-113 ftbgs)**

Sampled: 01/13/14 11:45 **Sampled By:** Nathan Reynolds **Matrix:** Water

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2 Batch: W4A0574 Prepared: 01/15/14 09:58 Analyst: abj

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Surr: 1,3-Dimethyl-2-nitrobenzene	*107 %*	Conc:*5.34*	*73-138*	%			
Surr: Perylene-d12	*95 %*	Conc:*4.75*	*30-118*	%			
Surr: Triphenyl phosphate	*122 %*	Conc:*6.10*	*70-149*	%			

Subcontracted Analyses

Method: EPA 906.0 Batch: W4A1172 Prepared: 01/18/14 05:38 Analyst: sub

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Tritium	**58.9**		pCi/L	1	01/18/14 05:38	A-01
Counting Error (+/-): 121 MDA: 207						

Volatile Organic Compounds by EPA Method 524.2

Method: EPA 524.2 Batch: W4A0558 Prepared: 01/15/14 08:20 Analyst: mdt

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l	1	01/16/14 01:51	
1,1,1-Trichloroethane	ND	0.50	ug/l	1	01/16/14 01:51	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	1	01/16/14 01:51	
1,1,2-Trichloroethane	ND	0.50	ug/l	1	01/16/14 01:51	
1,1-Dichloroethane	ND	0.50	ug/l	1	01/16/14 01:51	
1,1-Dichloroethene	ND	0.50	ug/l	1	01/16/14 01:51	
1,1-Dichloropropene	ND	0.50	ug/l	1	01/16/14 01:51	
1,2,3-Trichlorobenzene	ND	0.50	ug/l	1	01/16/14 01:51	
1,2,3-Trichloropropane	ND	0.50	ug/l	1	01/16/14 01:51	
1,2,4-Trichlorobenzene	ND	0.50	ug/l	1	01/16/14 01:51	
1,2,4-Trimethylbenzene	ND	0.50	ug/l	1	01/16/14 01:51	
1,2-Dichloroethane	ND	0.50	ug/l	1	01/16/14 01:51	
1,2-Dichloropropane	ND	0.50	ug/l	1	01/16/14 01:51	
1,3,5-Trimethylbenzene	ND	0.50	ug/l	1	01/16/14 01:51	
1,3-Dichloropropane	ND	0.50	ug/l	1	01/16/14 01:51	
1,3-Dichloropropene, Total	ND	0.50	ug/l	1	01/16/14 01:51	
2,2-Dichloropropane	ND	0.50	ug/l	1	01/16/14 01:51	
2-Butanone	ND	5.0	ug/l	1	01/16/14 01:51	
2-Chloroethyl vinyl ether	ND	1.0	ug/l	1	01/16/14 01:51	
2-Chlorotoluene	ND	0.50	ug/l	1	01/16/14 01:51	
2-Hexanone	ND	5.0	ug/l	1	01/16/14 01:51	
4-Chlorotoluene	ND	0.50	ug/l	1	01/16/14 01:51	
4-Methyl-2-pentanone	ND	5.0	ug/l	1	01/16/14 01:51	
Benzene	ND	0.50	ug/l	1	01/16/14 01:51	
Bromobenzene	ND	0.50	ug/l	1	01/16/14 01:51	
Bromochloromethane	ND	0.50	ug/l	1	01/16/14 01:51	
Bromodichloromethane	ND	0.50	ug/l	1	01/16/14 01:51	

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Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:25

4A14003-01 **ML-3 Zone # 2 (103-113 ftbgs)**

Sampled: 01/13/14 11:45 **Sampled By:** Nathan Reynolds **Matrix:** Water

Volatile Organic Compounds by EPA Method 524.2

Method: EPA 524.2 Batch: W4A0558 Prepared: 01/15/14 08:20 Analyst: mdt

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Bromoform	ND	0.50	ug/l	1	01/16/14 01:51	
Bromomethane	ND	0.50	ug/l	1	01/16/14 01:51	
Carbon tetrachloride	ND	0.50	ug/l	1	01/16/14 01:51	
Chlorobenzene	ND	0.50	ug/l	1	01/16/14 01:51	
Chloroethane	ND	0.50	ug/l	1	01/16/14 01:51	
Chloroform	ND	0.50	ug/l	1	01/16/14 01:51	
Chloromethane	ND	0.50	ug/l	1	01/16/14 01:51	
cis-1,2-Dichloroethene	ND	0.50	ug/l	1	01/16/14 01:51	
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	01/16/14 01:51	
Dibromochloromethane	ND	0.50	ug/l	1	01/16/14 01:51	
Dibromomethane	ND	0.50	ug/l	1	01/16/14 01:51	
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l	1	01/16/14 01:51	
Di-isopropyl ether	ND	2.0	ug/l	1	01/16/14 01:51	
Ethyl tert-butyl ether	ND	2.0	ug/l	1	01/16/14 01:51	
Ethylbenzene	ND	0.50	ug/l	1	01/16/14 01:51	
Freon 113	ND	5.0	ug/l	1	01/16/14 01:51	
Hexachlorobutadiene	ND	0.50	ug/l	1	01/16/14 01:51	
Isopropylbenzene	ND	0.50	ug/l	1	01/16/14 01:51	
m,p-Xylene	ND	0.50	ug/l	1	01/16/14 01:51	
m-Dichlorobenzene	ND	0.50	ug/l	1	01/16/14 01:51	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l	1	01/16/14 01:51	
Methylene chloride	ND	0.50	ug/l	1	01/16/14 01:51	
Naphthalene	ND	0.50	ug/l	1	01/16/14 01:51	
n-Butylbenzene	ND	0.50	ug/l	1	01/16/14 01:51	
n-Propylbenzene	ND	0.50	ug/l	1	01/16/14 01:51	
o-Dichlorobenzene	ND	0.50	ug/l	1	01/16/14 01:51	
o-Xylene	ND	0.50	ug/l	1	01/16/14 01:51	
p-Dichlorobenzene	ND	0.50	ug/l	1	01/16/14 01:51	
p-Isopropyltoluene	ND	0.50	ug/l	1	01/16/14 01:51	
sec-Butylbenzene	ND	0.50	ug/l	1	01/16/14 01:51	
Styrene	ND	0.50	ug/l	1	01/16/14 01:51	
Tert-amyl methyl ether	ND	2.0	ug/l	1	01/16/14 01:51	
tert-Butylbenzene	ND	0.50	ug/l	1	01/16/14 01:51	
Tetrachloroethene	ND	0.50	ug/l	1	01/16/14 01:51	
THMs, Total	ND	2.0	ug/l	1	01/16/14 01:51	
Toluene	ND	0.50	ug/l	1	01/16/14 01:51	
trans-1,2-Dichloroethene	ND	0.50	ug/l	1	01/16/14 01:51	
trans-1,3-Dichloropropene	ND	0.50	ug/l	1	01/16/14 01:51	
Trichloroethene	ND	0.50	ug/l	1	01/16/14 01:51	
Trichlorofluoromethane	ND	0.50	ug/l	1	01/16/14 01:51	

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4A14003-01 **ML-3 Zone # 2 (103-113 ftbgs)**

Sampled: 01/13/14 11:45 **Sampled By:** Nathan Reynolds **Matrix:** Water

Volatile Organic Compounds by EPA Method 524.2

Method: EPA 524.2 Batch: W4A0558 Prepared: 01/15/14 08:20 Analyst: mdt

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Vinyl chloride	ND		0.50	ug/l	1	01/16/14 01:51	
Xylenes, Total	ND		1.0	ug/l	1	01/16/14 01:51	
Surr: 1,2-Dichlorobenzene-d4	*101 %*	Conc:*10.1*	*70-130*	%			
Surr: 4-Bromofluorobenzene	*91 %*	Conc:*9.13*	*70-130*	%			

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QUALITY CONTROL SECTION

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Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4A0532 - EPA 300.0

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0532-BLK1)				Analyzed: 01/14/14 11:31						
Chloride, Total	ND	0.50	mg/l							
Fluoride, Total	ND	0.10	mg/l							
Sulfate as SO4	ND	0.50	mg/l							
LCS (W4A0532-BS1)				Analyzed: 01/14/14 11:49						
Chloride, Total	3.81	0.50	mg/l	4.00		95	90-110			
Fluoride, Total	2.06	0.10	mg/l	2.00		103	90-110			
Sulfate as SO4	7.78	0.50	mg/l	8.00		97	90-110			
Matrix Spike (W4A0532-MS1)	**Source: 4A13043-05**			Analyzed: 01/14/14 12:49						
Chloride, Total	45.3	5.0	mg/l	40.0	7.51	94	76-118			
Fluoride, Total	20.3	1.0	mg/l	20.0	0.713	98	86-107			
Sulfate as SO4	92.8	5.0	mg/l	80.0	16.5	95	78-111			
Matrix Spike (W4A0532-MS2)	**Source: 4A13065-02**			Analyzed: 01/14/14 20:15						
Chloride, Total	65.9	5.0	mg/l	40.0	27.3	96	76-118			
Fluoride, Total	21.5	1.0	mg/l	20.0	0.396	105	86-107			
Sulfate as SO4	132	5.0	mg/l	80.0	56.4	95	78-111			
Matrix Spike Dup (W4A0532-MSD1)	**Source: 4A13043-05**			Analyzed: 01/14/14 13:08						
Chloride, Total	46.3	5.0	mg/l	40.0	7.51	97	76-118	2	20	
Fluoride, Total	21.3	1.0	mg/l	20.0	0.713	103	86-107	5	20	
Sulfate as SO4	92.3	5.0	mg/l	80.0	16.5	95	78-111	0.6	20	
Matrix Spike Dup (W4A0532-MSD2)	**Source: 4A13065-02**			Analyzed: 01/14/14 20:34						
Chloride, Total	65.3	5.0	mg/l	40.0	27.3	95	76-118	1	20	
Fluoride, Total	21.4	1.0	mg/l	20.0	0.396	105	86-107	0.5	20	
Sulfate as SO4	132	5.0	mg/l	80.0	56.4	94	78-111	0.7	20	

Batch W4A0844 - EPA 300.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0844-BLK1)				Analyzed: 01/21/14 15:14						
Bromide	ND	10	ug/l							
Surr: Dichloroacetate	*502*		*ug/l*	*500*		*100*	*90-115*			
LCS (W4A0844-BS1)				Analyzed: 01/21/14 15:14						
Bromide	99.2	10	ug/l	100		99	85-115			
Surr: Dichloroacetate	*490*		*ug/l*	*500*		*98*	*90-115*			
Matrix Spike (W4A0844-MS1)	**Source: 4A08035-01**			Analyzed: 01/21/14 15:14						
Bromide	757	20	ug/l	200	605	76	73-125			
Surr: Dichloroacetate	*467*		*ug/l*	*500*		*93*	*90-115*			
Matrix Spike Dup (W4A0844-MSD1)	**Source: 4A08035-01**			Analyzed: 01/21/14 15:14						
Bromide	784	20	ug/l	200	605	89	73-125	4	20	
Surr: Dichloroacetate	*487*		*ug/l*	*500*		*97*	*90-115*			

Batch W4B0889 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers

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Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W4B0889 - EPA 9056A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B0889-BLK1)				Analyzed: 02/20/14 15:41						
Iodide, Dissolved	ND	10	ug/l							
LCS (W4B0889-BS1)				Analyzed: 02/20/14 15:41						
Iodide, Dissolved	40.0	10	ug/l	40.0		100	85-115			
Duplicate (W4B0889-DUP1)	**Source: 4B06015-02**			Analyzed: 02/20/14 15:41						
Iodide, Dissolved	63.0	25	ug/l		63.9			1	20	
Matrix Spike (W4B0889-MS1)	**Source: 4B06015-02**			Analyzed: 02/20/14 15:41						
Iodide, Dissolved	176	25	ug/l	100	63.9	112	80-120			
Matrix Spike Dup (W4B0889-MSD1)	**Source: 4B06015-02**			Analyzed: 02/20/14 15:41						
Iodide, Dissolved	149	25	ug/l	100	63.9	85	80-120	17	20	

Carbamates and Urea Pesticides - Quality Control

Batch W4A0802 - EPA 531.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0802-BLK1)				Analyzed: 01/20/14 23:50						
3-Hydroxycarbofuran	ND	2.0	ug/l							
Aldicarb	ND	2.0	ug/l							
Aldicarb sulfone	ND	2.0	ug/l							
Aldicarb sulfoxide	ND	2.0	ug/l							
Carbaryl	ND	2.0	ug/l							
Carbofuran	ND	2.0	ug/l							
Methiocarb	ND	2.0	ug/l							
Methomyl	ND	2.0	ug/l							
Oxamyl	ND	2.0	ug/l							
Propoxur (Baygon)	ND	2.0	ug/l							
LCS (W4A0802-BS1)				Analyzed: 01/20/14 23:50						
3-Hydroxycarbofuran	10.3	2.0	ug/l	10.0		103	80-120			
Aldicarb	11.1	2.0	ug/l	10.0		111	80-120			
Aldicarb sulfone	9.86	2.0	ug/l	10.0		99	80-120			
Aldicarb sulfoxide	10.3	2.0	ug/l	10.0		103	80-120			
Carbaryl	11.1	2.0	ug/l	10.0		111	80-120			
Carbofuran	9.64	2.0	ug/l	10.0		96	80-120			
Methiocarb	11.7	2.0	ug/l	10.0		117	80-120			
Methomyl	9.53	2.0	ug/l	10.0		95	80-120			
Oxamyl	10.1	2.0	ug/l	10.0		101	80-120			
Propoxur (Baygon)	9.79	2.0	ug/l	10.0		98	80-120			
Matrix Spike (W4A0802-MS1)	**Source: 4A13019-01**			Analyzed: 01/20/14 23:50						
3-Hydroxycarbofuran	8.26	2.0	ug/l	10.0	ND	83	65-135			
Aldicarb	10.3	2.0	ug/l	10.0	ND	103	65-135			
Aldicarb sulfone	9.41	2.0	ug/l	10.0	ND	94	65-135			
Aldicarb sulfoxide	10.3	2.0	ug/l	10.0	ND	103	65-135			

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Carbamates and Urea Pesticides - Quality Control

Batch W4A0802 - EPA 531.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike (W4A0802-MS1)	**Source: 4A13019-01**			Analyzed: 01/20/14 23:50						
Carbaryl	9.56	2.0	ug/l	10.0	ND	96	65-135			
Carbofuran	10.2	2.0	ug/l	10.0	ND	102	65-135			
Methiocarb	10.0	2.0	ug/l	10.0	ND	100	65-135			
Methomyl	9.17	2.0	ug/l	10.0	ND	92	65-135			
Oxamyl	8.48	2.0	ug/l	10.0	ND	85	65-135			
Propoxur (Baygon)	8.94	2.0	ug/l	10.0	ND	89	65-135			
Matrix Spike Dup (W4A0802-MSD1)	**Source: 4A13019-01**			Analyzed: 01/20/14 23:50						
3-Hydroxycarbofuran	8.62	2.0	ug/l	10.0	ND	86	65-135	4	30	
Aldicarb	10.1	2.0	ug/l	10.0	ND	101	65-135	2	30	
Aldicarb sulfone	9.03	2.0	ug/l	10.0	ND	90	65-135	4	30	
Aldicarb sulfoxide	10.9	2.0	ug/l	10.0	ND	109	65-135	6	30	
Carbaryl	9.23	2.0	ug/l	10.0	ND	92	65-135	4	30	
Carbofuran	8.51	2.0	ug/l	10.0	ND	85	65-135	18	30	
Methiocarb	9.94	2.0	ug/l	10.0	ND	99	65-135	1	30	
Methomyl	9.60	2.0	ug/l	10.0	ND	96	65-135	5	30	
Oxamyl	7.27	2.0	ug/l	10.0	ND	73	65-135	15	30	
Propoxur (Baygon)	8.90	2.0	ug/l	10.0	ND	89	65-135	0.4	30	

Chlorinated Herbicides - Quality Control

Batch W4A0564 - EPA 515.3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0564-BLK1)				Analyzed: 01/24/14 22:44						
2,4,5-T	ND	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.20	ug/l							
2,4-D	ND	0.40	ug/l							
2,4-DB	ND	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	1.0	ug/l							
Acifluorfen	ND	0.40	ug/l							
Bentazon	ND	2.0	ug/l							
Dalapon	ND	0.40	ug/l							
DCPA	ND	0.10	ug/l							
Dicamba	ND	0.60	ug/l							
Dichloroprop	ND	0.30	ug/l							
Dinoseb	ND	0.40	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	0.60	ug/l							
Surr: 2,4-DCAA	*9.76*		*ug/l*	*10.0*		*98*	*70-130*			
LCS (W4A0564-BS1)				Analyzed: 01/24/14 23:12						
2,4,5-T	4.09	0.20	ug/l	4.00		102	70-130			
2,4,5-TP (Silvex)	3.98	0.20	ug/l	4.00		99	70-130			
2,4-D	9.60	0.40	ug/l	8.00		120	70-130			

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Chlorinated Herbicides - Quality Control

Batch W4A0564 - EPA 515.3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0564-BS1)				Analyzed: 01/24/14 23:12						
2,4-DB	13.9	2.0	ug/l	16.0		87	70-130			
3,5-Dichlorobenzoic acid	8.32	1.0	ug/l	8.00		104	70-130			
Acifluorfen	4.36	0.40	ug/l	4.00		109	70-130			
Bentazon	15.0	2.0	ug/l	16.0		94	70-130			
Dalapon	9.17	0.40	ug/l	8.00		115	70-130			
DCPA	3.66	0.10	ug/l	4.00		92	70-130			
Dicamba	7.56	0.60	ug/l	8.00		95	70-130			
Dichloroprop	9.26	0.30	ug/l	8.00		116	70-130			
Dinoseb	4.08	0.40	ug/l	4.00		102	70-130			
Pentachlorophenol	3.85	0.20	ug/l	4.00		96	70-130			
Picloram	4.39	0.60	ug/l	4.00		110	70-130			
Surr: 2,4-DCAA	*10.4*		*ug/l*	*10.0*		*104*	*70-130*			
Matrix Spike (W4A0564-MS1)	**Source: 4A14003-01**			Analyzed: 01/24/14 23:40						
2,4,5-T	3.92	0.20	ug/l	4.00	ND	98	70-130			
2,4,5-TP (Silvex)	3.77	0.20	ug/l	4.00	ND	94	70-130			
2,4-D	9.09	0.40	ug/l	8.00	ND	114	70-130			
2,4-DB	12.1	2.0	ug/l	16.0	ND	75	70-130			
3,5-Dichlorobenzoic acid	7.35	1.0	ug/l	8.00	ND	92	70-130			
Acifluorfen	4.70	0.40	ug/l	4.00	ND	118	70-130			
Bentazon	7.01	2.0	ug/l	16.0	ND	44	70-130			MS-05
Dalapon	9.15	0.40	ug/l	8.00	ND	114	70-130			
DCPA	3.46	0.10	ug/l	4.00	ND	86	70-130			
Dicamba	7.07	0.60	ug/l	8.00	ND	88	70-130			
Dichloroprop	9.83	0.30	ug/l	8.00	ND	123	70-130			
Dinoseb	2.26	0.40	ug/l	4.00	ND	57	70-130			MS-05
Pentachlorophenol	1.51	0.20	ug/l	4.00	ND	38	70-130			MS-05
Picloram	4.30	0.60	ug/l	4.00	ND	108	70-130			
Surr: 2,4-DCAA	*9.06*		*ug/l*	*10.0*		*91*	*70-130*			
Matrix Spike Dup (W4A0564-MSD1)	**Source: 4A14003-01**			Analyzed: 01/25/14 00:08						
2,4,5-T	3.93	0.20	ug/l	4.00	ND	98	70-130	0.3	30	
2,4,5-TP (Silvex)	3.76	0.20	ug/l	4.00	ND	94	70-130	0.4	30	
2,4-D	9.31	0.40	ug/l	8.00	ND	116	70-130	2	30	
2,4-DB	12.6	2.0	ug/l	16.0	ND	79	70-130	4	30	
3,5-Dichlorobenzoic acid	7.91	1.0	ug/l	8.00	ND	99	70-130	7	30	
Acifluorfen	4.85	0.40	ug/l	4.00	ND	121	70-130	3	30	
Bentazon	7.48	2.0	ug/l	16.0	ND	47	70-130	6	30	MS-05
Dalapon	9.18	0.40	ug/l	8.00	ND	115	70-130	0.2	30	
DCPA	3.47	0.10	ug/l	4.00	ND	87	70-130	0.3	30	
Dicamba	7.51	0.60	ug/l	8.00	ND	94	70-130	6	30	
Dichloroprop	9.85	0.30	ug/l	8.00	ND	123	70-130	0.2	30	
Dinoseb	2.08	0.40	ug/l	4.00	ND	52	70-130	8	30	MS-05
Pentachlorophenol	1.57	0.20	ug/l	4.00	ND	39	70-130	4	30	MS-05
Picloram	4.46	0.60	ug/l	4.00	ND	111	70-130	3	30	
Surr: 2,4-DCAA	*9.38*		*ug/l*	*10.0*		*94*	*70-130*			

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Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4A0617 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0617-BLK1)				Analyzed: 01/29/14 19:18						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							
Surr: Decachlorobiphenyl	*0.103*		*ug/l*	*0.100*		*103*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0743*		*ug/l*	*0.100*		*74*	*70-130*			
LCS (W4A0617-BS1)				Analyzed: 01/29/14 19:48						
4,4´-DDD	0.125	0.010	ug/l	0.100		125	55-142			
4,4´-DDE	0.111	0.010	ug/l	0.100		111	49-129			
4,4´-DDT	0.110	0.010	ug/l	0.100		110	54-160			
Aldrin	0.0542	0.010	ug/l	0.100		54	29-115			
alpha-BHC	0.0952	0.010	ug/l	0.100		95	59-131			
beta-BHC	0.0982	0.010	ug/l	0.100		98	63-136			
delta-BHC	0.101	0.010	ug/l	0.100		101	59-137			
Dieldrin	0.0796	0.010	ug/l	0.100		80	59-135			
Endosulfan I	0.0907	0.010	ug/l	0.100		91	28-138			

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Chlorinated Pesticides and/or PCBs - Quality Control

Batch W4A0617 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0617-BS1)				Analyzed: 01/29/14 19:48						
Endosulfan II	0.103	0.010	ug/l	0.100		103	53-133			
Endosulfan sulfate	0.117	0.010	ug/l	0.100		117	58-155			
Endrin	0.0972	0.010	ug/l	0.100		97	57-148			
Endrin aldehyde	0.0318	0.010	ug/l	0.100		32	45-139			Q-02
gamma-BHC (Lindane)	0.0931	0.010	ug/l	0.100		93	59-129			
Heptachlor	0.0855	0.010	ug/l	0.100		85	42-136			
Heptachlor epoxide	0.0922	0.010	ug/l	0.100		92	59-134			
Methoxychlor	0.114	0.010	ug/l	0.100		114	56-167			
Surr: Decachlorobiphenyl	*0.103*		*ug/l*	*0.100*		*103*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0773*		*ug/l*	*0.100*		*77*	*70-130*			
LCS Dup (W4A0617-BSD1)				Analyzed: 01/29/14 20:19						
4,4´-DDD	0.140	0.010	ug/l	0.100		140	55-142	12	25	
4,4´-DDE	0.123	0.010	ug/l	0.100		123	49-129	10	25	
4,4´-DDT	0.124	0.010	ug/l	0.100		124	54-160	12	25	
Aldrin	0.0604	0.010	ug/l	0.100		60	29-115	11	25	
alpha-BHC	0.101	0.010	ug/l	0.100		101	59-131	6	25	
beta-BHC	0.107	0.010	ug/l	0.100		107	63-136	9	25	
delta-BHC	0.111	0.010	ug/l	0.100		111	59-137	9	25	
Dieldrin	0.0854	0.010	ug/l	0.100		85	59-135	7	25	
Endosulfan I	0.100	0.010	ug/l	0.100		100	28-138	10	25	
Endosulfan II	0.114	0.010	ug/l	0.100		114	53-133	11	25	
Endosulfan sulfate	0.134	0.010	ug/l	0.100		134	58-155	14	25	
Endrin	0.109	0.010	ug/l	0.100		109	57-148	11	25	
Endrin aldehyde	0.0339	0.010	ug/l	0.100		34	45-139	6	25	Q-02
gamma-BHC (Lindane)	0.100	0.010	ug/l	0.100		100	59-129	8	25	
Heptachlor	0.0935	0.010	ug/l	0.100		93	42-136	9	25	
Heptachlor epoxide	0.100	0.010	ug/l	0.100		100	59-134	8	25	
Methoxychlor	0.127	0.010	ug/l	0.100		127	56-167	11	25	
Surr: Decachlorobiphenyl	*0.101*		*ug/l*	*0.100*		*101*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0792*		*ug/l*	*0.100*		*79*	*70-130*			

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W4A0520 - EPA 180.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0520-BLK1)				Analyzed: 01/14/14 11:24						
Turbidity	ND	0.10	NTU							
LCS (W4A0520-BS1)				Analyzed: 01/14/14 11:24						
Turbidity	11.0	0.10	NTU	11.0		100	90-110			
Duplicate (W4A0520-DUP1)	**Source: 4A13062-01**			Analyzed: 01/14/14 11:24						
Turbidity	ND	0.10	NTU		ND					

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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W4A0522 - EPA 140.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Duplicate (W4A0522-DUP1)	**Source: 4A14003-01**			Analyzed: 01/14/14 11:52						
Threshold Odor Number	2.0	1.0	T.O.N.		2.0			NR	20	

Batch W4A0524 - EPA 351.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0524-BLK1)				Analyzed: 01/17/14 17:00						
TKN, Soluble	ND	0.10	mg/l							
Blank (W4A0524-BLK2)				Analyzed: 01/17/14 17:00						
TKN, Soluble	ND	0.10	mg/l							
LCS (W4A0524-BS1)				Analyzed: 01/17/14 17:00						
TKN, Soluble	0.970	0.10	mg/l	1.00		97	90-110			
LCS (W4A0524-BS2)				Analyzed: 01/17/14 17:00						
TKN, Soluble	0.963	0.10	mg/l	1.00		96	90-110			

Batch W4A0533 - SM 2120B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0533-BS1)				Analyzed: 01/14/14 13:28						
Color	10.0	3.0	Color Units	10.0		100	95-105			
Duplicate (W4A0533-DUP1)	**Source: 4A13077-04**			Analyzed: 01/14/14 13:28						
Color	ND	3.0	Color Units		0.00					

Batch W4A0535 - EPA 353.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0535-BLK1)				Analyzed: 01/14/14 15:36						
Nitrate as NO3	ND	0.50	mg/l							
NO2+NO3 as N	ND	100	ug/l							
LCS (W4A0535-BS1)				Analyzed: 01/14/14 15:38						
Nitrate as NO3	4.40	0.50	mg/l	4.43		99	90-110			
NO2+NO3 as N	994	100	ug/l	1000		99	90-110			
Matrix Spike (W4A0535-MS1)	**Source: 4A13065-02**			Analyzed: 01/14/14 15:42						
Nitrate as NO3	39.4	0.50	mg/l	8.86	30.1	104	90-110			
NO2+NO3 as N	8880	100	ug/l	2000	6800	104	90-110			
Matrix Spike (W4A0535-MS2)	**Source: 4A13065-03**			Analyzed: 01/14/14 19:38						
Nitrate as NO3	38.9	0.50	mg/l	8.86	30.3	97	90-110			
NO2+NO3 as N	8790	100	ug/l	2000	6840	97	90-110			
Matrix Spike Dup (W4A0535-MSD1)	**Source: 4A13065-02**			Analyzed: 01/14/14 15:44						
Nitrate as NO3	39.3	0.50	mg/l	8.86	30.1	104	90-110	0.06	20	
NO2+NO3 as N	8880	100	ug/l	2000	6800	104	90-110	0.06	20	
Matrix Spike Dup (W4A0535-MSD2)	**Source: 4A13065-03**			Analyzed: 01/14/14 19:41						
Nitrate as NO3	39.8	0.50	mg/l	8.86	30.3	107	90-110	2	20	

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Batch W4A0535 - EPA 353.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike Dup (W4A0535-MSD2)	**Source: 4A13065-03**			Analyzed: 01/14/14 19:41						
NO2+NO3 as N	8980	100	ug/l	2000	6840	107	90-110	2	20	

Batch W4A0544 - EPA 365.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0544-BLK1)				Analyzed: 01/14/14 15:42						
o-Phosphate as P	ND	0.0020	mg/l							
LCS (W4A0544-BS1)				Analyzed: 01/14/14 15:43						
o-Phosphate as P	0.0503	0.0020	mg/l	0.0500		101	90-110			
Matrix Spike (W4A0544-MS1)	**Source: 4A14003-01**			Analyzed: 01/14/14 15:50						
o-Phosphate as P	0.0609	0.0020	mg/l	0.0500	0.0117	98	90-110			
Matrix Spike Dup (W4A0544-MSD1)	**Source: 4A14003-01**			Analyzed: 01/14/14 15:52						
o-Phosphate as P	0.0591	0.0020	mg/l	0.0500	0.0117	95	90-110	3	20	

Batch W4A0545 - SM 5540C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0545-BLK1)				Analyzed: 01/14/14 16:49						
MBAS	ND	0.050	mg/l							
LCS (W4A0545-BS1)				Analyzed: 01/14/14 16:49						
MBAS	0.187	0.050	mg/l	0.200		94	82-115			
Matrix Spike (W4A0545-MS1)	**Source: 4A13077-04**			Analyzed: 01/14/14 16:49						
MBAS	0.205	0.050	mg/l	0.200	0.0223	91	74-123			
Matrix Spike Dup (W4A0545-MSD1)	**Source: 4A13077-04**			Analyzed: 01/14/14 16:49						
MBAS	0.209	0.050	mg/l	0.200	0.0223	93	74-123	2	20	

Batch W4A0555 - SM 4500H+-B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0555-BS1)				Analyzed: 01/14/14 17:38						
pH	7.34	0.10	Units	7.41		99	98.8-101			
Duplicate (W4A0555-DUP1)	**Source: 4A14003-01**			Analyzed: 01/14/14 17:38						
pH	7.31	0.10	Units		7.22			1	3.1	

Batch W4A0596 - EPA 350.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0596-BLK1)				Analyzed: 01/17/14 14:26						
Ammonia as N, Dissolved	ND	0.10	mg/l							
LCS (W4A0596-BS1)				Analyzed: 01/17/14 14:26						
Ammonia as N, Dissolved	0.257	0.10	mg/l	0.250		103	90-110			

Batch W4A0644 - SM 2540C M

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Batch W4A0644 - SM 2540C M

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0644-BLK1)				Analyzed: 01/16/14 15:10						
Total Dissolved Solids	ND	10	mg/l							
LCS (W4A0644-BS1)				Analyzed: 01/16/14 15:10						
Total Dissolved Solids	802	10	mg/l	824		97	96-102			
Duplicate (W4A0644-DUP1)	**Source: 4A14063-01**			Analyzed: 01/16/14 15:10						
Total Dissolved Solids	3150	10	mg/l		3170			0.8	10	

Batch W4A0723 - SM 2320B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0723-BLK1)				Analyzed: 01/17/14 16:43						
Alkalinity as CaCO3	ND	2.0	mg/l							
Alkalinity as CaCO3	ND	2.0	mg/l							
Bicarbonate Alkalinity as HCO3	ND	2.0	mg/l							
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l							
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l							
LCS (W4A0723-BS1)				Analyzed: 01/17/14 16:43						
Alkalinity as CaCO3	246	2.0	mg/l	250		98	94-108			
Alkalinity as CaCO3	246	2.0	mg/l	250		98	94-108			
Bicarbonate Alkalinity as HCO3	300	2.0	mg/l	305		98	95-108			
Duplicate (W4A0723-DUP1)	**Source: 4A14003-01**			Analyzed: 01/17/14 16:43						
Alkalinity as CaCO3	183	2.0	mg/l		185			1	15	
Alkalinity as CaCO3	183	2.0	mg/l		185			1	15	
Bicarbonate Alkalinity as HCO3	223	2.0	mg/l		226			1	15	
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l		ND					
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l		ND					

Batch W4A0809 - EPA 365.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0809-BLK1)				Analyzed: 01/23/14 10:39						
Phosphorus, Dissolved	ND	0.010	mg/l							
LCS (W4A0809-BS1)				Analyzed: 01/23/14 10:40						
Phosphorus, Dissolved	0.0485	0.010	mg/l	0.0500		97	90-110			
Duplicate (W4A0809-DUP1)	**Source: 4A14072-01**			Analyzed: 01/23/14 10:50						
Phosphorus, Dissolved	ND	0.010	mg/l		0.00300			NR	20	Q-R-01
Matrix Spike (W4A0809-MS1)	**Source: 4A14076-04**			Analyzed: 01/23/14 10:43						
Phosphorus, Dissolved	0.0622	0.010	mg/l	0.0500	0.0144	96	90-110			
Matrix Spike Dup (W4A0809-MSD1)	**Source: 4A14076-04**			Analyzed: 01/23/14 10:44						
Phosphorus, Dissolved	0.0630	0.010	mg/l	0.0500	0.0144	97	90-110	1	20	

Batch W4A0928 - SM 2510B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0928-BLK1)				Analyzed: 01/23/14 10:38						

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Batch W4A0928 - SM 2510B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Specific Conductance (EC)	ND	2.0	umhos/cm							
LCS (W4A0928-BS1)				Analyzed: 01/23/14 10:38						
Specific Conductance (EC)	5080	2.0	umhos/cm	5000		102	95-105			
Duplicate (W4A0928-DUP1)	**Source: 4A14003-01**			Analyzed: 01/23/14 10:38						
Specific Conductance (EC)	7550	2.0	umhos/cm		7780			3	5	

Diquat and Paraquat by EPA 549.2 - Quality Control

Batch W4A0444 - EPA 549.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0444-BLK1)				Analyzed: 01/16/14 15:28						
Diquat	ND	4.0	ug/l							
LCS (W4A0444-BS1)				Analyzed: 01/16/14 15:28						
Diquat	14.9	4.0	ug/l	20.0		74	48-130			
Matrix Spike (W4A0444-MS1)	**Source: 4A14004-01**			Analyzed: 01/16/14 15:28						
Diquat	12.0	4.0	ug/l	20.0	ND	60	46-122			
Matrix Spike (W4A0444-MS2)	**Source: 4A14010-01**			Analyzed: 01/16/14 15:28						
Diquat	16.1	4.0	ug/l	20.0	ND	81	46-122			
Matrix Spike Dup (W4A0444-MSD1)	**Source: 4A14004-01**			Analyzed: 01/16/14 15:28						
Diquat	11.4	4.0	ug/l	20.0	ND	57	46-122	5	30	
Matrix Spike Dup (W4A0444-MSD2)	**Source: 4A14010-01**			Analyzed: 01/16/14 15:28						
Diquat	16.8	4.0	ug/l	20.0	ND	84	46-122	4	30	

Endothall By EPA 548.1 - Quality Control

Batch W4A0556 - EPA 548.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0556-BLK1)				Analyzed: 01/18/14 18:34						
Endothall	ND	45	ug/l							
LCS (W4A0556-BS1)				Analyzed: 01/18/14 18:47						
Endothall	71.7	45	ug/l	100		72	31-117			
Matrix Spike (W4A0556-MS1)	**Source: 4A14010-01**			Analyzed: 01/18/14 19:01						
Endothall	68.3	90	ug/l	200	ND	34	0.1-109			
Matrix Spike Dup (W4A0556-MSD1)	**Source: 4A14010-01**			Analyzed: 01/18/14 19:14						
Endothall	68.4	90	ug/l	200	ND	34	0.1-109	0.2	30	

Fumigants by EPA Method 504.1 - Quality Control

Batch W4A0789 - EPA 504.1

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Fumigants by EPA Method 504.1 - Quality Control

Batch W4A0789 - EPA 504.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0789-BLK1)				Analyzed: 01/22/14 15:25						
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l							
1,2-Dibromoethane (EDB)	ND	0.020	ug/l							
LCS (W4A0789-BS1)				Analyzed: 01/22/14 16:01						
1,2-Dibromo-3-chloropropane	0.0910	0.010	ug/l	0.100		91	70-130			
1,2-Dibromoethane (EDB)	0.0780	0.020	ug/l	0.100		78	70-130			
LCS (W4A0789-BS2)				Analyzed: 01/22/14 16:38						
1,2-Dibromo-3-chloropropane	0.0180	0.010	ug/l	0.0200		90	70-130			
1,2-Dibromoethane (EDB)	0.0160	0.020	ug/l	0.0200		80	70-130			
LCS Dup (W4A0789-BSD1)				Analyzed: 01/22/14 17:08						
1,2-Dibromo-3-chloropropane	0.106	0.010	ug/l	0.100		106	70-130	15	30	
1,2-Dibromoethane (EDB)	0.100	0.020	ug/l	0.100		100	70-130	25	30	

Glyphosate by EPA 547 - Quality Control

Batch W4A0601 - EPA 547

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0601-BLK1)				Analyzed: 01/15/14 17:04						
Glyphosate	ND	5.0	ug/l							
LCS (W4A0601-BS1)				Analyzed: 01/15/14 17:04						
Glyphosate	19.9	5.0	ug/l	25.0		80	62-130			
Matrix Spike (W4A0601-MS1)	**Source: 4A14010-01**			Analyzed: 01/15/14 17:04						
Glyphosate	18.4	5.0	ug/l	25.0	ND	74	41-149			
Matrix Spike Dup (W4A0601-MSD1)	**Source: 4A14010-01**			Analyzed: 01/15/14 17:04						
Glyphosate	17.3	5.0	ug/l	25.0	ND	69	41-149	6	30	

Metals by EPA 200 Series Methods - Quality Control

Batch W4A0592 - EPA 200.7

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0592-BLK1)				Analyzed: 01/17/14 09:21						
Barium, Dissolved	ND	0.0020	mg/l							
Boron, Dissolved	ND	10	ug/l							
Calcium, Dissolved	ND	0.100	mg/l							
Calcium, Total	ND	0.100	mg/l							
Iron, Dissolved	ND	10	ug/l							
Iron, Total	ND	0.010	mg/l							
Magnesium, Dissolved	ND	0.100	mg/l							
Magnesium, Total	ND	0.100	mg/l							
Manganese, Dissolved	ND	5.0	ug/l							

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Metals by EPA 200 Series Methods - Quality Control

Batch W4A0592 - EPA 200.7

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0592-BLK1)				Analyzed: 01/17/14 09:18						
Manganese, Total	ND	0.0050	mg/l							
Potassium, Dissolved	0.301	0.10	mg/l							B-06
Potassium, Total	0.394	0.10	mg/l							B-06
Silica as SiO2, Dissolved	ND	0.10	mg/l							
Sodium, Dissolved	0.854	0.50	mg/l							B-06
Sodium, Total	ND	0.50	mg/l							
Strontium, Dissolved	ND	2.0	ug/l							
LCS (W4A0592-BS1)				Analyzed: 01/17/14 09:16						
Barium, Dissolved	0.196	0.0020	mg/l	0.200		98	85-115			
Boron, Dissolved	221	10	ug/l	200		110	85-115			
Calcium, Dissolved	50.8	0.100	mg/l	50.2		101	85-115			
Calcium, Total	50.8	0.100	mg/l	50.2		101	85-115			
Iron, Dissolved	192	10	ug/l	200		96	85-115			
Iron, Total	0.192	0.010	mg/l	0.200		96	85-115			
Magnesium, Dissolved	50.4	0.100	mg/l	50.0		101	85-115			
Magnesium, Total	50.4	0.100	mg/l	50.2		100	85-115			
Manganese, Dissolved	192	5.0	ug/l	200		96	85-115			
Manganese, Total	0.192	0.0050	mg/l	0.200		96	85-115			
Potassium, Dissolved	54.2	0.10	mg/l	52.0		104	85-115			
Potassium, Total	54.2	0.10	mg/l	52.0		104	85-115			
Silica as SiO2, Dissolved	45.8	0.10	mg/l	43.2		106	85-115			
Sodium, Dissolved	83.8	0.50	mg/l	82.6		102	85-115			
Sodium, Total	83.8	0.50	mg/l	82.6		102	85-115			
Strontium, Dissolved	993	2.0	ug/l	1000		99	85-115			
Matrix Spike (W4A0592-MS1)	**Source: 4A14064-01**			Analyzed: 01/17/14 09:46						
Calcium, Total	311	0.100	mg/l	50.2	254	113	70-130			
Iron, Total	3.44	0.010	mg/l	0.200	3.16	140	70-130			MS-02
Magnesium, Total	166	0.100	mg/l	50.2	111	110	70-130			
Manganese, Total	0.557	0.0050	mg/l	0.200	0.344	106	70-130			
Potassium, Total	78.0	0.10	mg/l	52.0	18.8	114	70-130			
Sodium, Total	427	0.50	mg/l	82.6	345	99	70-130			
Matrix Spike Dup (W4A0592-MSD1)	**Source: 4A14064-01**			Analyzed: 01/17/14 09:49						
Calcium, Total	305	0.100	mg/l	50.2	254	100	70-130	2	30	
Iron, Total	3.37	0.010	mg/l	0.200	3.16	108	70-130	2	30	
Magnesium, Total	164	0.100	mg/l	50.2	111	106	70-130	1	30	
Manganese, Total	0.548	0.0050	mg/l	0.200	0.344	102	70-130	2	30	
Potassium, Total	76.6	0.10	mg/l	52.0	18.8	111	70-130	2	30	
Sodium, Total	420	0.50	mg/l	82.6	345	92	70-130	2	30	

Batch W4A0619 - EPA 200.8

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0619-BLK1)				Analyzed: 01/20/14 19:31						
Aluminum, Total	ND	5.0	ug/l							

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Metals by EPA 200 Series Methods - Quality Control

Batch W4A0619 - EPA 200.8

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0619-BLK1)				Analyzed: 01/20/14 19:31						
Arsenic, Total	ND	0.40	ug/l							
Copper, Total	ND	0.50	ug/l							
Zinc, Total	ND	5.0	ug/l							
LCS (W4A0619-BS1)				Analyzed: 01/20/14 19:23						
Aluminum, Total	55.0	5.0	ug/l	50.0		110	85-115			
Arsenic, Total	52.4	0.40	ug/l	50.0		105	85-115			
Copper, Total	55.0	0.50	ug/l	50.0		110	85-115			
Zinc, Total	55.6	5.0	ug/l	50.0		111	85-115			
Matrix Spike (W4A0619-MS1)	**Source: 4A14003-01**			Analyzed: 01/20/14 19:55						
Aluminum, Total	148	5.0	ug/l	50.0	46.8	203	70-130			MS-02
Arsenic, Total	57.2	0.40	ug/l	50.0	5.11	104	70-130			
Copper, Total	45.6	0.50	ug/l	50.0	3.36	84	70-130			
Zinc, Total	76.9	5.0	ug/l	50.0	30.9	92	70-130			
Matrix Spike Dup (W4A0619-MSD1)	**Source: 4A14003-01**			Analyzed: 01/20/14 20:03						
Aluminum, Total	152	5.0	ug/l	50.0	46.8	210	70-130	2	30	MS-02
Arsenic, Total	56.3	0.40	ug/l	50.0	5.11	102	70-130	2	30	
Copper, Total	45.2	0.50	ug/l	50.0	3.36	84	70-130	0.8	30	
Zinc, Total	75.2	5.0	ug/l	50.0	30.9	89	70-130	2	30	

Batch W4B0893 - EPA 200.7

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4B0893-BLK1)				Analyzed: 02/21/14 10:36						
Lithium, Total	ND	10	ug/l							
LCS (W4B0893-BS1)				Analyzed: 02/21/14 10:38						
Lithium, Total	1060	10	ug/l	1000		106	85-115			
Matrix Spike (W4B0893-MS1)	**Source: 3L09093-01**			Analyzed: 02/21/14 10:48						
Lithium, Total	1210	20	ug/l	1000	91.2	112	70-130			
Matrix Spike Dup (W4B0893-MSD1)	**Source: 3L09093-01**			Analyzed: 02/21/14 10:50						
Lithium, Total	1250	20	ug/l	1000	91.2	116	70-130	3	30	

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W4A0574 - EPA 525.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0574-BLK1)				Analyzed: 01/23/14 03:32						
Alachlor	ND	0.10	ug/l							
Atrazine	ND	0.10	ug/l							
Benzo (a) pyrene	ND	0.10	ug/l							
Bis(2-ethylhexyl)adipate	ND	5.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/l							

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Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W4A0574 - EPA 525.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0574-BLK1)				Analyzed: 01/23/14 03:32						
Bromacil	ND	0.50	ug/l							
Butachlor	ND	0.10	ug/l							
Captan	ND	1.0	ug/l							
Chloropropham	ND	0.10	ug/l							
Cyanazine	ND	0.10	ug/l							
Diazinon	ND	0.10	ug/l							
Dimethoate	ND	0.20	ug/l							
Diphenamid	ND	0.10	ug/l							
Disulfoton	ND	0.10	ug/l							
EPTC	ND	0.10	ug/l							
Metolachlor	ND	0.10	ug/l							
Metribuzin	ND	0.10	ug/l							
Molinate	ND	0.10	ug/l							
Prometon	ND	0.10	ug/l							
Prometryn	ND	0.10	ug/l							
Simazine	ND	0.10	ug/l							
Terbacil	ND	2.0	ug/l							
Thiobencarb	ND	0.10	ug/l							
Trithion	ND	0.10	ug/l							
Surr: 1,3-Dimethyl-2-nitrobenzene	*5.15*		*ug/l*	*5.00*		*103*	*73-138*			
Surr: Perylene-d12	*4.11*		*ug/l*	*5.00*		*82*	*30-118*			
Surr: Triphenyl phosphate	*5.59*		*ug/l*	*5.00*		*112*	*70-149*			
LCS (W4A0574-BS1)				Analyzed: 01/23/14 03:57						
Alachlor	3.52	0.10	ug/l	5.00		70	55-124			
Atrazine	5.03	0.10	ug/l	5.00		101	67-131			
Benzo (a) pyrene	4.44	0.10	ug/l	5.00		89	40-147			
Bis(2-ethylhexyl)adipate	7.42	5.0	ug/l	5.00		148	71-158			
Bis(2-ethylhexyl)phthalate	7.36	3.0	ug/l	5.00		147	68-154			
Bromacil	3.71	0.50	ug/l	5.00		74	62-139			
Butachlor	3.91	0.10	ug/l	5.00		78	61-127			
Captan	5.69	1.0	ug/l	5.00		114	14-159			
Chloropropham	5.35	0.10	ug/l	5.00		107	77-143			
Cyanazine	5.55	0.10	ug/l	5.00		111	61-129			
Diazinon	3.13	0.10	ug/l	5.00		63	30-120			
Dimethoate	3.52	0.20	ug/l	5.00		70	38-102			
Diphenamid	5.43	0.10	ug/l	5.00		109	77-124			
Disulfoton	4.47	0.10	ug/l	5.00		89	54-156			
EPTC	4.84	0.10	ug/l	5.00		97	82-116			
Metolachlor	3.72	0.10	ug/l	5.00		74	61-123			
Metribuzin	4.01	0.10	ug/l	5.00		80	50-121			
Molinate	4.99	0.10	ug/l	5.00		100	82-117			
Prometon	2.63	0.10	ug/l	5.00		53	17-101			
Prometryn	3.98	0.10	ug/l	5.00		80	57-122			
Simazine	3.54	0.10	ug/l	5.00		71	53-116			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W4A0574 - EPA 525.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0574-BS1)				Analyzed: 01/23/14 03:57						
Terbacil	5.14	2.0	ug/l	5.00		103	70-135			
Thiobencarb	3.69	0.10	ug/l	5.00		74	56-125			
Trithion	4.44	0.10	ug/l	5.00		89	60-124			
Surr: 1,3-Dimethyl-2-nitrobenzene	*4.92*		*ug/l*	*5.00*		*98*	*73-138*			
Surr: Perylene-d12	*9.45*		*ug/l*	*5.00*		*189*	*30-118*			*S-11*
Surr: Triphenyl phosphate	*6.75*		*ug/l*	*5.00*		*135*	*70-149*			
LCS Dup (W4A0574-BSD1)				Analyzed: 01/23/14 04:22						
Alachlor	3.76	0.10	ug/l	5.00		75	55-124	7	30	
Atrazine	5.39	0.10	ug/l	5.00		108	67-131	7	30	
Benzo (a) pyrene	4.25	0.10	ug/l	5.00		85	40-147	4	30	
Bis(2-ethylhexyl)adipate	7.00	5.0	ug/l	5.00		140	71-158	6	30	
Bis(2-ethylhexyl)phthalate	6.92	3.0	ug/l	5.00		138	68-154	6	30	
Bromacil	4.13	0.50	ug/l	5.00		83	62-139	11	30	
Butachlor	4.26	0.10	ug/l	5.00		85	61-127	9	30	
Captan	5.70	1.0	ug/l	5.00		114	14-159	0.2	30	
Chloropropham	5.69	0.10	ug/l	5.00		114	77-143	6	30	
Cyanazine	5.83	0.10	ug/l	5.00		117	61-129	5	30	
Diazinon	3.46	0.10	ug/l	5.00		69	30-120	10	30	
Dimethoate	4.04	0.20	ug/l	5.00		81	38-102	14	30	
Diphenamid	5.74	0.10	ug/l	5.00		115	77-124	6	30	
Disulfoton	4.75	0.10	ug/l	5.00		95	54-156	6	30	
EPTC	5.09	0.10	ug/l	5.00		102	82-116	5	30	
Metolachlor	4.15	0.10	ug/l	5.00		83	61-123	11	30	
Metribuzin	4.32	0.10	ug/l	5.00		86	50-121	7	30	
Molinate	5.40	0.10	ug/l	5.00		108	82-117	8	30	
Prometon	2.65	0.10	ug/l	5.00		53	17-101	0.8	30	
Prometryn	4.01	0.10	ug/l	5.00		80	57-122	0.8	30	
Simazine	3.91	0.10	ug/l	5.00		78	53-116	10	30	
Terbacil	5.39	2.0	ug/l	5.00		108	70-135	5	30	
Thiobencarb	3.95	0.10	ug/l	5.00		79	56-125	7	30	
Trithion	4.92	0.10	ug/l	5.00		98	60-124	10	30	
Surr: 1,3-Dimethyl-2-nitrobenzene	*5.10*		*ug/l*	*5.00*		*102*	*73-138*			
Surr: Perylene-d12	*9.13*		*ug/l*	*5.00*		*183*	*30-118*			*S-11*
Surr: Triphenyl phosphate	*6.62*		*ug/l*	*5.00*		*132*	*70-149*			

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0558-BLK1)				Analyzed: 01/15/14 17:33						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0558-BLK1)				Analyzed: 01/15/14 17:33						
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
1,1-Dichloropropene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	0.50	ug/l							
1,2,4-Trichlorobenzene	ND	0.50	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							
1,3-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropene, Total	ND	0.50	ug/l							
2,2-Dichloropropane	ND	0.50	ug/l							
2-Butanone	ND	5.0	ug/l							
2-Chloroethyl vinyl ether	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
2-Hexanone	ND	5.0	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
4-Methyl-2-pentanone	ND	5.0	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	0.50	ug/l							
Bromomethane	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	0.50	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l							
Di-isopropyl ether	ND	2.0	ug/l							
Ethyl tert-butyl ether	ND	2.0	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Freon 113	ND	5.0	ug/l							
Hexachlorobutadiene	ND	0.50	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
m,p-Xylene	ND	0.50	ug/l							

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W4A0558-BLK1)				Analyzed: 01/15/14 17:33						
m-Dichlorobenzene	ND	0.50	ug/l							
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l							
Methylene chloride	ND	0.50	ug/l							
Naphthalene	ND	0.50	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
o-Dichlorobenzene	ND	0.50	ug/l							
o-Xylene	ND	0.50	ug/l							
p-Dichlorobenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							
Tert-amyl methyl ether	ND	2.0	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
THMs, Total	ND	2.0	ug/l							
Toluene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Surr: 1,2-Dichlorobenzene-d4	*10.1*		*ug/l*	*10.0*		*101*	*70-130*			
Surr: 4-Bromofluorobenzene	*8.88*		*ug/l*	*10.0*		*89*	*70-130*			
LCS (W4A0558-BS1)				Analyzed: 01/15/14 15:18						
1,1,1,2-Tetrachloroethane	5.90	0.50	ug/l	6.00		98	70-130			
1,1,1-Trichloroethane	6.00	0.50	ug/l	6.00		100	70-130			
1,1,2,2-Tetrachloroethane	5.87	0.50	ug/l	6.00		98	70-130			
1,1,2-Trichloroethane	6.19	0.50	ug/l	6.00		103	70-130			
1,1-Dichloroethane	6.07	0.50	ug/l	6.00		101	70-130			
1,1-Dichloroethene	6.33	0.50	ug/l	6.00		106	70-130			
1,1-Dichloropropene	5.49	0.50	ug/l	6.00		92	70-130			
1,2,3-Trichlorobenzene	5.45	0.50	ug/l	6.00		91	70-130			
1,2,3-Trichloropropane	5.78	0.50	ug/l	6.00		96	70-130			
1,2,4-Trichlorobenzene	5.47	0.50	ug/l	6.00		91	70-130			
1,2,4-Trimethylbenzene	6.19	0.50	ug/l	6.00		103	70-130			
1,2-Dichloroethane	5.97	0.50	ug/l	6.00		100	70-130			
1,2-Dichloropropane	5.37	0.50	ug/l	6.00		90	70-130			
1,3,5-Trimethylbenzene	6.52	0.50	ug/l	6.00		109	70-130			
1,3-Dichloropropane	5.43	0.50	ug/l	6.00		90	70-130			
2,2-Dichloropropane	6.32	0.50	ug/l	6.00		105	70-130			
2-Butanone	5.62	5.0	ug/l	6.00		94	70-130			
2-Chloroethyl vinyl ether	5.57	1.0	ug/l	6.00		93	70-130			

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California American Water-Monterey
P.O.BOX 951
Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:25

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0558-BS1)				Analyzed: 01/15/14 15:18						
2-Chlorotoluene	5.97	0.50	ug/l	6.00		100	70-130			
2-Hexanone	5.72	5.0	ug/l	6.00		95	70-130			
4-Chlorotoluene	5.53	0.50	ug/l	6.00		92	70-130			
4-Methyl-2-pentanone	5.84	5.0	ug/l	6.00		97	70-130			
Benzene	6.49	0.50	ug/l	6.00		108	70-130			
Bromobenzene	6.24	0.50	ug/l	6.00		104	70-130			
Bromochloromethane	6.19	0.50	ug/l	6.00		103	70-130			
Bromodichloromethane	5.62	0.50	ug/l	6.00		94	70-130			
Bromoform	5.38	0.50	ug/l	6.00		90	70-130			
Bromomethane	6.79	0.50	ug/l	6.00		113	70-130			
Carbon tetrachloride	5.87	0.50	ug/l	6.00		98	70-130			
Chlorobenzene	6.42	0.50	ug/l	6.00		107	70-130			
Chloroethane	6.51	0.50	ug/l	6.00		108	70-130			
Chloroform	6.18	0.50	ug/l	6.00		103	70-130			
Chloromethane	6.30	0.50	ug/l	6.00		105	70-130			
cis-1,2-Dichloroethene	6.35	0.50	ug/l	6.00		106	70-130			
cis-1,3-Dichloropropene	5.20	0.50	ug/l	6.00		87	70-130			
Dibromochloromethane	5.63	0.50	ug/l	6.00		94	70-130			
Dibromomethane	5.90	0.50	ug/l	6.00		98	70-130			
Dichlorodifluoromethane (Freon 12)	6.62	0.50	ug/l	6.00		110	70-130			
Di-isopropyl ether	5.82	2.0	ug/l	6.00		97	70-130			
Ethyl tert-butyl ether	6.29	2.0	ug/l	6.00		105	70-130			
Ethylbenzene	6.40	0.50	ug/l	6.00		107	70-130			
Freon 113	6.04	5.0	ug/l	6.00		101	70-130			
Hexachlorobutadiene	6.42	0.50	ug/l	6.00		107	70-130			
Isopropylbenzene	5.77	0.50	ug/l	6.00		96	70-130			
m,p-Xylene	6.36	0.50	ug/l	6.00		106	70-130			
m-Dichlorobenzene	6.40	0.50	ug/l	6.00		107	70-130			
Methyl tert-butyl ether (MTBE)	6.06	2.0	ug/l	6.00		101	70-130			
Methylene chloride	6.11	0.50	ug/l	6.00		102	70-130			
Naphthalene	5.17	0.50	ug/l	6.00		86	70-130			
n-Butylbenzene	5.52	0.50	ug/l	6.00		92	70-130			
n-Propylbenzene	5.78	0.50	ug/l	6.00		96	70-130			
o-Dichlorobenzene	6.15	0.50	ug/l	6.00		102	70-130			
o-Xylene	6.69	0.50	ug/l	6.00		112	70-130			
p-Dichlorobenzene	6.01	0.50	ug/l	6.00		100	70-130			
p-Isopropyltoluene	5.42	0.50	ug/l	6.00		90	70-130			
sec-Butylbenzene	5.20	0.50	ug/l	6.00		87	70-130			
Styrene	6.39	0.50	ug/l	6.00		106	70-130			
Tert-amyl methyl ether	5.86	2.0	ug/l	6.00		98	70-130			
tert-Butylbenzene	5.14	0.50	ug/l	6.00		86	70-130			
Tetrachloroethene	6.31	0.50	ug/l	6.00		105	70-130			
Toluene	6.47	0.50	ug/l	6.00		108	70-130			
trans-1,2-Dichloroethene	6.41	0.50	ug/l	6.00		107	70-130			

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Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:25

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W4A0558-BS1)				Analyzed: 01/15/14 15:18						
trans-1,3-Dichloropropene	5.04	0.50	ug/l	6.00		84	70-130			
Trichloroethene	6.28	0.50	ug/l	6.00		105	70-130			
Trichlorofluoromethane	6.36	0.50	ug/l	6.00		106	70-130			
Vinyl chloride	6.19	0.50	ug/l	6.00		103	70-130			
Surr: 1,2-Dichlorobenzene-d4	*17.1*		*ug/l*	*10.0*		*171*	*70-130*			*S-BS*
Surr: 4-Bromofluorobenzene	*12.1*		*ug/l*	*10.0*		*121*	*70-130*			
LCS Dup (W4A0558-BSD1)				Analyzed: 01/15/14 15:51						
1,1,1,2-Tetrachloroethane	5.74	0.50	ug/l	6.00		96	70-130	3	30	
1,1,1-Trichloroethane	5.77	0.50	ug/l	6.00		96	70-130	4	30	
1,1,2,2-Tetrachloroethane	5.68	0.50	ug/l	6.00		95	70-130	3	30	
1,1,2-Trichloroethane	5.89	0.50	ug/l	6.00		98	70-130	5	30	
1,1-Dichloroethane	5.92	0.50	ug/l	6.00		99	70-130	3	30	
1,1-Dichloroethene	6.27	0.50	ug/l	6.00		104	70-130	1	30	
1,1-Dichloropropene	5.36	0.50	ug/l	6.00		89	70-130	2	30	
1,2,3-Trichlorobenzene	5.37	0.50	ug/l	6.00		90	70-130	1	30	
1,2,3-Trichloropropane	5.35	0.50	ug/l	6.00		89	70-130	8	30	
1,2,4-Trichlorobenzene	5.31	0.50	ug/l	6.00		88	70-130	3	30	
1,2,4-Trimethylbenzene	6.17	0.50	ug/l	6.00		103	70-130	0.3	30	
1,2-Dichloroethane	5.91	0.50	ug/l	6.00		98	70-130	1	30	
1,2-Dichloropropane	5.32	0.50	ug/l	6.00		89	70-130	0.9	30	
1,3,5-Trimethylbenzene	6.13	0.50	ug/l	6.00		102	70-130	6	30	
1,3-Dichloropropane	5.31	0.50	ug/l	6.00		88	70-130	2	30	
2,2-Dichloropropane	6.04	0.50	ug/l	6.00		101	70-130	5	30	
2-Butanone	5.49	5.0	ug/l	6.00		92	70-130	2	30	
2-Chloroethyl vinyl ether	5.40	1.0	ug/l	6.00		90	70-130	3	30	
2-Chlorotoluene	5.46	0.50	ug/l	6.00		91	70-130	9	30	
2-Hexanone	5.65	5.0	ug/l	6.00		94	70-130	1	30	
4-Chlorotoluene	5.32	0.50	ug/l	6.00		89	70-130	4	30	
4-Methyl-2-pentanone	5.84	5.0	ug/l	6.00		97	70-130	NR	30	
Benzene	6.28	0.50	ug/l	6.00		105	70-130	3	30	
Bromobenzene	5.55	0.50	ug/l	6.00		92	70-130	12	30	
Bromochloromethane	6.11	0.50	ug/l	6.00		102	70-130	1	30	
Bromodichloromethane	5.47	0.50	ug/l	6.00		91	70-130	3	30	
Bromoform	5.31	0.50	ug/l	6.00		88	70-130	1	30	
Bromomethane	6.89	0.50	ug/l	6.00		115	70-130	1	30	
Carbon tetrachloride	5.74	0.50	ug/l	6.00		96	70-130	2	30	
Chlorobenzene	6.27	0.50	ug/l	6.00		104	70-130	2	30	
Chloroethane	6.24	0.50	ug/l	6.00		104	70-130	4	30	
Chloroform	5.99	0.50	ug/l	6.00		100	70-130	3	30	
Chloromethane	6.40	0.50	ug/l	6.00		107	70-130	2	30	
cis-1,2-Dichloroethene	6.21	0.50	ug/l	6.00		104	70-130	2	30	
cis-1,3-Dichloropropene	5.12	0.50	ug/l	6.00		85	70-130	2	30	
Dibromochloromethane	5.45	0.50	ug/l	6.00		91	70-130	3	30	
Dibromomethane	5.84	0.50	ug/l	6.00		97	70-130	1	30	

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Monterey CA, 93942-0951

Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:25

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W4A0558 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W4A0558-BSD1)				Analyzed: 01/15/14 15:51						
Dichlorodifluoromethane (Freon 12)	6.25	0.50	ug/l	6.00		104	70-130	6	30	
Di-isopropyl ether	5.81	2.0	ug/l	6.00		97	70-130	0.2	30	
Ethyl tert-butyl ether	6.30	2.0	ug/l	6.00		105	70-130	0.2	30	
Ethylbenzene	6.28	0.50	ug/l	6.00		105	70-130	2	30	
Freon 113	5.85	5.0	ug/l	6.00		98	70-130	3	30	
Hexachlorobutadiene	6.16	0.50	ug/l	6.00		103	70-130	4	30	
Isopropylbenzene	5.41	0.50	ug/l	6.00		90	70-130	6	30	
m,p-Xylene	6.18	0.50	ug/l	6.00		103	70-130	3	30	
m-Dichlorobenzene	6.36	0.50	ug/l	6.00		106	70-130	0.6	30	
Methyl tert-butyl ether (MTBE)	6.22	2.0	ug/l	6.00		104	70-130	3	30	
Methylene chloride	5.92	0.50	ug/l	6.00		99	70-130	3	30	
Naphthalene	5.05	0.50	ug/l	6.00		84	70-130	2	30	
n-Butylbenzene	5.41	0.50	ug/l	6.00		90	70-130	2	30	
n-Propylbenzene	5.22	0.50	ug/l	6.00		87	70-130	10	30	
o-Dichlorobenzene	6.01	0.50	ug/l	6.00		100	70-130	2	30	
o-Xylene	6.46	0.50	ug/l	6.00		108	70-130	3	30	
p-Dichlorobenzene	6.08	0.50	ug/l	6.00		101	70-130	1	30	
p-Isopropyltoluene	5.42	0.50	ug/l	6.00		90	70-130	NR	30	
sec-Butylbenzene	5.26	0.50	ug/l	6.00		88	70-130	1	30	
Styrene	6.22	0.50	ug/l	6.00		104	70-130	3	30	
Tert-amyl methyl ether	5.92	2.0	ug/l	6.00		99	70-130	1	30	
tert-Butylbenzene	4.72	0.50	ug/l	6.00		79	70-130	9	30	
Tetrachloroethene	6.15	0.50	ug/l	6.00		102	70-130	3	30	
Toluene	6.29	0.50	ug/l	6.00		105	70-130	3	30	
trans-1,2-Dichloroethene	6.24	0.50	ug/l	6.00		104	70-130	3	30	
trans-1,3-Dichloropropene	4.92	0.50	ug/l	6.00		82	70-130	2	30	
Trichloroethene	6.05	0.50	ug/l	6.00		101	70-130	4	30	
Trichlorofluoromethane	6.16	0.50	ug/l	6.00		103	70-130	3	30	
Vinyl chloride	6.01	0.50	ug/l	6.00		100	70-130	3	30	
Surr: 1,2-Dichlorobenzene-d4	*17.4*		*ug/l*	*10.0*		*174*	*70-130*			*S-BS*
Surr: 4-Bromofluorobenzene	*11.2*		*ug/l*	*10.0*		*112*	*70-130*			

EPA 1613B mod. - Quality Control

Batch 3522182 - EPA 1613B mod.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (3522182-BLK)				Analyzed: 02/26/14 00:00						
2,3,7,8-Tetra CDD	ND	4.2	pg/L			NR	-			S_MAXX
Surr: 37CL4 2378 Tetra CDD	*288*		*pg/L*	*200*		*144*	*40-130*			*A3826, A1, S_MAXX*
Surr: C13-2378 TetraCDD	*274*		*pg/L*	*200*		*137*	*24-164*			*S_MAXX*
LCS (3522182-LCS)				Analyzed: 02/26/14 00:00						

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Date Received: 01/14/14 09:15
Date Reported: 03/06/14 09:25

EPA 1613B mod. - Quality Control

Batch 3522182 - EPA 1613B mod.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (3522182-LCS)				Analyzed: 02/26/14 00:00						
2,3,7,8-Tetra CDD	194	4.2	pg/L	200		97	67-158			S_MAXX
Surr: 37CL4 2378 Tetra CDD	*166*		*pg/L*	*200*		*83*	*40-130*			*S_MAXX*
Surr: C13-2378 TetraCDD	*232*		*pg/L*	*200*		*116*	*24-164*			*S_MAXX*
LCS Dup (3522182-LCS Dup)				Analyzed: 02/26/14 00:00						
2,3,7,8-Tetra CDD	200	4.2	pg/L	200		100	67-158	2.7	25	S_MAXX
Surr: 37CL4 2378 Tetra CDD	*170*		*pg/L*	*200*		*85*	*40-130*			*S_MAXX*
Surr: C13-2378 TetraCDD	*242*		*pg/L*	*200*		*121*	*24-164*			*S_MAXX*

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Notes and Definitions

MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
*****	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
******	The recommended holding time for field filtering is only 15 minutes. The sample was filtered as soon as possible but it was filtered past holding time. However, the sample was analyzed within holding time.
A-01	Analysis subcontracted to Pace Analytical Services, Inc. NELAP Certificate 04222CA
A1	Exceedence
A3826	Recovery of clean-up spike meets 1613 method criteria range of 42-164%
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
S_MAXX	[Undefined]
MS-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
O-14	This analysis was requested by the client after the holding time was exceeded.
Q-02	Low recovery of this analyte in the QC sample. The analysis of the low level standard produced acceptable recovery indicating that the sample result might be accurately reported as Not Detected.
Q-R-01	Analyses are not controlled on RPD values from sample concentrations less than the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
S_MAXX	Analysis subcontracted to Maxxam Analytical, Inc. NELAP Certificate 02106A
S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
S-BS	Surrogate recovery outside of control limits for LCS. The data was accepted based on valid recovery of the target analytes.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.

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ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

Amended Report

Travis Peterson
California American Water
836 Carmel Ave.
Monterey, CA 93940

RE: Report for A3L0508 Water Quality Analysis

Dear Travis Peterson,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 12/6/2013. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Kasanna Coulter, Quality Assurance Manager

If additional clarification of any information is required, please contact your Project Manager, Michael Ng , at (800) 877-8310 or (559) 497-2888 x118.

Case Narrative

Project and Report Details		Invoice Details	
Client:	California American Water	**Invoice To:**	California American Water
Report To:	Travis Peterson	**Invoice Attn:**	Accounts Payable
Project #:	Water Quality Analysis-MPWSP	**Project PO#:**	-
Received:	12/06/2013 - 12:43		
Report Due:	12/20/2013		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 3.3

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Other
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Detailed Narrative

Report Amendments

Date: 01-14-14

Initials: MSN

This amended report supersedes any previous reports issued by the laboratory. Amendments to this report are as follows: ***Per Andrew Kieta (GeoScience), sample description is amended to read "ML-4 Zone #1".***

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

B2.0	Analyte present in the method blank above the method detection limit (MDL). Laboratory does not determine batch acceptance on detections below the reporting limit (RL).
B2.4	Analyte detected in associated method blank below the reporting limit. Sample concentration exceeds 10x the amount present and is not materially impacted by this condition.
BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
BS3.0	BS/BSD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
DL1.0	Sample required a dilution due to the matrix or high concentration of a non-target analyte.
DP01	Sample Duplicate RPD exceeded the method acceptance limit.
HT1.0	Holding time exceeded. Sample was received at the lab past holding time.
HT1.6	Holding time exceeded. The holding time for this analysis is a recommendation and is not mandated by any state or federal agency.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
MS1.1	Matrix spike recovery exceeds upper control limit. Reported results for parent matrix may be biased high due to matrix interferences.
MS2.1	MS/MSD RPD exceeds control limit. Reportable results in parent sample may have some degree of variability, higher than that inherent in the method.

Report Distribution

Recipient(s)	Report Format
Travis Peterson	Final.rpt
Sarp Sekeroglu	Final.rpt
Andrew Kieta	final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A3L0508-01
Sampled By: Nathan Reynolds
Sample Description: ML-4 Zone #1 (163.5-173.5 ft. bgs)

Sample Date - Time: 12/05/13 - 10:25
Matrix: Water
Sample Type: Grab

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320 B	**460**	3.0	mg/L	1	A314523	12/07/13	12/07/13	
Bicarbonate as CaCO3	SM 2320 B	**460**	3.0	mg/L	1	A314523	12/07/13	12/07/13	
Carbonate as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A314523	12/07/13	12/07/13	
Hydroxide as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A314523	12/07/13	12/07/13	
Ammonia as N	SM 4500-NH3 G	**9.5**	0.10	mg/L	1	A314798	12/13/13	12/17/13	
Bromide	EPA 300.1	**43**	1.2	mg/L	250	A314619	12/10/13	12/10/13	
Surrogate: Dichloroacetate	EPA 300.1	112 %	*Acceptable range: 90-115 %*						
Chloride	EPA 300.0	**10000**	200	mg/L	200	A314503	12/06/13	12/06/13	
Color, Apparent	SM 2120 B	**40**	1.0	CU	1	A314478	12/06/13 18:23	12/06/13	
Conductivity @ 25C	SM 2510 B	**29000**	1.0	umhos/cm	1	A314523	12/07/13	12/07/13	
Fluoride	EPA 300.0	ND	10	mg/L	100	A314711	12/12/13	12/12/13	DL1.0
Mass Balance-Anions		**320**		meq/L					
Mass Balance-Dissolved Cations		**340**		meq/L					
MBAS, Calculated as LAS, mol wt 340	SM 5540 C	ND	0.050	mg/L	1	A314485	12/06/13 15:37	12/06/13	
Nitrate as NO3	EPA 300.0	ND	200	mg/L	200	A314503	12/06/13 15:00	12/06/13	DL1.0
Nitrite as N	EPA 300.0	ND	10	mg/L	200	A314503	12/06/13 15:00	12/06/13	DL1.0
Threshold Odor	SM 2150 B	**1.0**	1.0	T.O.N.	1	A314478	12/06/13 18:23	12/06/13	HT1.0, HT1.6
Orthophosphate as P	SM 4500-P E	**0.12**	0.010	mg/L	1	A314530	12/05/13 18:30	12/05/13	
pH (1)	SM 4500-H+ B	**7.6**		pH Units	1	A314523	12/07/13	12/07/13	
pH Temperature in °C		**21.9**							
Phosphorus - Dissolved (1)	EPA 365.4	ND	0.10	mg/L	1	A314666	12/11/13	12/12/13	
Sulfate as SO4	EPA 300.0	**960**	400	mg/L	200	A314503	12/06/13	12/06/13	
Total Dissolved Solids	SM 2540C	**21000**	5.0	mg/L	1	A314595	12/10/13	12/13/13	
Total Kjeldahl Nitrogen - Dissolved (1)	EPA 351.2	**11**	1.0	mg/L	1	A314666	12/11/13	12/17/13	
Total Oxidizable Nitrogen, as N - Dissolved (1)	SM 4500-NO3 F	ND	0.10	mg/L	1	A314815	12/13/13	12/13/13	
Turbidity	SM 2130 B	**6.6**	0.10	NTU	1	A314478	12/06/13 18:23	12/06/13	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aluminum	EPA 200.7	ND	0.050	mg/L	1	A314550	12/09/13	12/10/13	
Arsenic	EPA 200.8	ND	10	ug/L	5	A314550	12/09/13	12/18/13	
Barium - Dissolved (1)	EPA 200.7	**0.084**	0.050	mg/L	1	A314641	12/10/13	12/13/13	
Boron - Dissolved (1)	EPA 200.7	**1.1**	0.10	mg/L	1	A314641	12/10/13	12/13/13	
Calcium	EPA 200.7	**860**	0.10	mg/L	1	A314550	12/09/13	12/10/13	
Calcium - Dissolved (1)	EPA 200.7	**850**	0.10	mg/L	1	A314641	12/10/13	12/13/13	
Copper	EPA 200.8	**37**	25	ug/L	5	A314550	12/09/13	12/18/13	
Hardness as CaCO3	SM 2340B	**6100**	0.41	mg/L					
Iron	EPA 200.7	**1.2**	0.030	mg/L	1	A314550	12/09/13	12/10/13	
Iron - Dissolved (1)	EPA 200.7	ND	0.030	mg/L	1	A314641	12/10/13	12/13/13	
Magnesium	EPA 200.7	**960**	0.10	mg/L	1	A314550	12/09/13	12/10/13	

Certificate of Analysis

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Matrix: Water
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Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Magnesium - Dissolved (1)	EPA 200.7	**970**	0.10	mg/L	1	A314641	12/10/13	12/13/13	
Manganese	EPA 200.7	**6.4**	0.010	mg/L	1	A314550	12/09/13	12/10/13	
Manganese - Dissolved (1)	EPA 200.7	**6.4**	0.010	mg/L	1	A314641	12/10/13	12/13/13	
Potassium - Dissolved (1)	EPA 200.7	**98**	2.0	mg/L	1	A314641	12/10/13	12/13/13	
Silica (SiO2) - Dissolved (1)	EPA 200.7	**34**	0.20	mg/L	1	A314641	12/10/13	12/13/13	
Sodium - Dissolved (1)	EPA 200.7	**5000**	10	mg/L	10	A314641	12/10/13	12/17/13	
Strontium - Dissolved (1)	EPA 200.8	**8600**	10	ug/L	10	A314641	12/10/13	12/17/13	
Zinc	EPA 200.7	ND	0.050	mg/L	1	A314550	12/09/13	12/10/13	

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A314630	12/11/13	12/13/13	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A314630	12/11/13	12/13/13	
Surrogate: TCMX	EPA 504.1	80 %	*Acceptable range: 70-130 %*						
Organohalide Pesticides and PCBs by GC-ECD									
Aldrin	EPA 505	ND	0.075	ug/L	1	A314630	12/11/13	12/13/13	
Chlordane	EPA 505	ND	0.10	ug/L	1	A314630	12/11/13	12/13/13	
Chlorothalonil	EPA 505	ND	5.0	ug/L	1	A314630	12/11/13	12/13/13	
Dieldrin	EPA 505	ND	0.020	ug/L	1	A314630	12/11/13	12/13/13	
Endrin	EPA 505	ND	0.10	ug/L	1	A314630	12/11/13	12/13/13	
Heptachlor	EPA 505	ND	0.010	ug/L	1	A314630	12/11/13	12/13/13	
Heptachlor Epoxide	EPA 505	ND	0.010	ug/L	1	A314630	12/11/13	12/13/13	
Hexachlorobenzene	EPA 505	ND	0.50	ug/L	1	A314630	12/11/13	12/13/13	
Hexachlorocyclopentadiene	EPA 505	ND	1.0	ug/L	1	A314630	12/11/13	12/13/13	
Lindane	EPA 505	ND	0.20	ug/L	1	A314630	12/11/13	12/13/13	
Methoxychlor	EPA 505	ND	10	ug/L	1	A314630	12/11/13	12/13/13	
PCB Aroclor Screen	EPA 505	ND	0.50	ug/L	1	A314630	12/11/13	12/13/13	
Toxaphene	EPA 505	ND	1.0	ug/L	1	A314630	12/11/13	12/13/13	
Trifluralin	EPA 505	ND	1.0	ug/L	1	A314630	12/11/13	12/13/13	
Surrogate: TCMX	EPA 505	80 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A314761	12/15/13	12/17/13	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A314761	12/15/13	12/17/13	
2,4-D	EPA 515.3	ND	10	ug/L	1	A314761	12/15/13	12/17/13	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A314761	12/15/13	12/17/13	
Dalapon	EPA 515.3	ND	10	ug/L	1	A314761	12/15/13	12/17/13	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A314761	12/15/13	12/17/13	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A314761	12/15/13	12/17/13	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A314761	12/15/13	12/17/13	

Certificate of Analysis

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Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chlorinated Acid Herbicides by GC-ECD									
Picloram	EPA 515.3	ND	1.0	ug/L	1	A314761	12/15/13	12/17/13	
Surrogate: DCPAA	EPA 515.3	81 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A314729	12/12/13	12/12/13	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A314729	12/12/13	12/12/13	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A314729	12/12/13	12/12/13	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A314729	12/12/13	12/12/13	BS1.0
Acetone	EPA 524.2	ND	10	ug/L	1	A314729	12/12/13	12/12/13	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	

BSK Associates Engineers & Laboratories

Certificate of Analysis

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Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A314729	12/12/13	12/12/13	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A314729	12/12/13	12/12/13	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A314729	12/12/13	12/12/13	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A314729	12/12/13	12/12/13	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A314729	12/12/13	12/12/13	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	96 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	102 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A314794	12/13/13	12/14/13	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A314794	12/13/13	12/14/13	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A314794	12/13/13	12/14/13	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A314794	12/13/13	12/14/13	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A314794	12/13/13	12/14/13	
Bromacil	EPA 525.2	ND	10	ug/L	1	A314794	12/13/13	12/14/13	
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A314794	12/13/13	12/14/13	

Certificate of Analysis

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Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Semi-Volatile Organics by GC-MS									
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A314794	12/13/13	12/14/13	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A314794	12/13/13	12/14/13	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A314794	12/13/13	12/14/13	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A314794	12/13/13	12/14/13	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A314794	12/13/13	12/14/13	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A314794	12/13/13	12/14/13	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A314794	12/13/13	12/14/13	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A314794	12/13/13	12/14/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	100 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A314582	12/09/13	12/10/13	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A314582	12/09/13	12/10/13	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A314582	12/09/13	12/10/13	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A314582	12/09/13	12/10/13	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A314582	12/09/13	12/10/13	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A314582	12/09/13	12/10/13	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A314582	12/09/13	12/10/13	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A314582	12/09/13	12/10/13	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A314544	12/09/13	12/09/13	
Surrogate: AMPA	EPA 547	94 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A314594	12/09/13	12/11/13	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A314617	12/10/13	12/16/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A314503										Prepared: 12/6/2013	
Prep Method: Method Specific Preparation										Analyst: EMH	
Blank (A314503-BLK1)											
Chloride	ND	1.0	mg/L							12/06/13	
Nitrate as NO3	ND	1.0	mg/L							12/06/13	
Nitrite as N	ND	0.050	mg/L							12/06/13	
Sulfate as SO4	ND	2.0	mg/L							12/06/13	
Blank Spike (A314503-BS1)											
Chloride	49	1.0	mg/L	50		99	90-110			12/06/13	
Nitrate as NO3	50	1.0	mg/L	50		100	90-110			12/06/13	
Nitrite as N	0.50	0.050	mg/L	0.50		100	90-110			12/06/13	
Sulfate as SO4	50	2.0	mg/L	50		100	90-110			12/06/13	
Blank Spike Dup (A314503-BSD1)											
Chloride	49	1.0	mg/L	50		99	90-110	0	20	12/06/13	
Nitrate as NO3	50	1.0	mg/L	50		100	90-110	0	20	12/06/13	
Nitrite as N	0.50	0.050	mg/L	0.50		100	90-110	0	20	12/06/13	
Sulfate as SO4	49	2.0	mg/L	50		99	90-110	1	20	12/06/13	
Matrix Spike (A314503-MS1), Source: A3L0485-01											
Chloride	120	2.0	mg/L	100	18	98	80-120			12/06/13	
Nitrate as NO3	120	2.0	mg/L	100	21	101	80-120			12/06/13	
Nitrite as N	0.97	0.10	mg/L	1.0	ND	97	80-120			12/06/13	
Sulfate as SO4	140	4.0	mg/L	100	40	97	80-120			12/06/13	
Matrix Spike (A314503-MS2), Source: A3L0511-01											
Chloride	100	2.0	mg/L	100	5.9	98	80-120			12/06/13	
Nitrate as NO3	100	2.0	mg/L	100	4.6	100	80-120			12/06/13	
Nitrite as N	0.99	0.10	mg/L	1.0	ND	99	80-120			12/06/13	
Sulfate as SO4	110	4.0	mg/L	100	6.7	99	80-120			12/06/13	
Matrix Spike Dup (A314503-MSD1), Source: A3L0485-01											
Chloride	120	2.0	mg/L	100	18	99	80-120	1	20	12/06/13	
Nitrate as NO3	120	2.0	mg/L	100	21	100	80-120	1	20	12/06/13	
Nitrite as N	0.97	0.10	mg/L	1.0	ND	97	80-120	0	20	12/06/13	
Sulfate as SO4	140	4.0	mg/L	100	40	99	80-120	1	20	12/06/13	
Matrix Spike Dup (A314503-MSD2), Source: A3L0511-01											
Chloride	100	2.0	mg/L	100	5.9	99	80-120	0	20	12/06/13	
Nitrate as NO3	110	2.0	mg/L	100	4.6	100	80-120	0	20	12/06/13	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	101	80-120	2	20	12/06/13	
Sulfate as SO4	110	4.0	mg/L	100	6.7	99	80-120	0	20	12/06/13	
EPA 300.0 - Quality Control											
Batch: A314711										Prepared: 12/11/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314711-BLK1)											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A314711										Prepared: 12/11/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314711-BLK1)											
Fluoride	ND	0.10	mg/L							12/11/13	
Blank Spike (A314711-BS1)											
Fluoride	0.51	0.10	mg/L	0.50		102	90-110			12/11/13	
Blank Spike Dup (A314711-BSD1)											
Fluoride	0.51	0.10	mg/L	0.50		101	90-110	1	10	12/11/13	
Matrix Spike (A314711-MS1), Source: A3L0459-06											
Fluoride	1.2	0.20	mg/L	1.0	0.23	100	80-120			12/12/13	
Matrix Spike (A314711-MS2), Source: A3L0518-04											
Fluoride	1.4	0.20	mg/L	1.0	0.37	99	80-120			12/12/13	
Matrix Spike Dup (A314711-MSD1), Source: A3L0459-06											
Fluoride	1.2	0.20	mg/L	1.0	0.23	102	80-120	2	10	12/12/13	
Matrix Spike Dup (A314711-MSD2), Source: A3L0518-04											
Fluoride	1.4	0.20	mg/L	1.0	0.37	101	80-120	2	10	12/12/13	
EPA 300.1 - Quality Control											
Batch: A314619										Prepared: 12/10/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314619-BLK1)											
Bromide	ND	0.0050	mg/L							12/10/13	
Surrogate: Dichloroacetate	*0.552*			*0.50*		*110*	*90-115*			12/10/13	
Blank Spike (A314619-BS1)											
Bromide	0.20	0.0050	mg/L	0.20		100	85-115			12/10/13	
Surrogate: Dichloroacetate	*0.507*			*0.50*		*101*	*90-115*			12/10/13	
Blank Spike Dup (A314619-BSD1)											
Bromide	0.20	0.0050	mg/L	0.20		100	85-115	0	10	12/10/13	
Surrogate: Dichloroacetate	*0.512*			*0.50*		*102*	*90-115*			12/10/13	
Matrix Spike (A314619-MS1), Source: A3L0575-02											
Bromide	0.23	0.010	mg/L	0.20	0.030	98	75-125			12/10/13	
Surrogate: Dichloroacetate	*1.07*			*1.0*		*107*	*90-115*			12/10/13	
Matrix Spike (A314619-MS2), Source: A3L0659-05											
Bromide	0.24	0.010	mg/L	0.20	0.041	99	75-125			12/10/13	
Surrogate: Dichloroacetate	*1.05*			*1.0*		*105*	*90-115*			12/10/13	
Matrix Spike Dup (A314619-MSD1), Source: A3L0575-02											
Bromide	0.23	0.010	mg/L	0.20	0.030	99	75-125	1	10	12/10/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.1 - Quality Control											
Batch: A314619										Prepared: 12/10/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Matrix Spike Dup (A314619-MSD1), Source: A3L0575-02											
Surrogate: Dichloroacetate	*1.11*			*1.0*		*111*	*90-115*			12/10/13	
Matrix Spike Dup (A314619-MSD2), Source: A3L0659-05											
Bromide	0.24	0.010	mg/L	0.20	0.041	100	75-125	0	10	12/10/13	
Surrogate: Dichloroacetate	*1.12*			*1.0*		*112*	*90-115*			12/10/13	
EPA 351.2 - Quality Control											
Batch: A314666										Prepared: 12/11/2013	
Prep Method: Digestion										Analyst: KKC	
Blank (A314666-BLK2)											
Total Kjeldahl Nitrogen - Dissolved (1)	ND	1.0	mg/L							12/17/13	
Blank Spike (A314666-BS2)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		102	90-110			12/17/13	
Blank Spike Dup (A314666-BSD2)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		102	90-110	0	10	12/17/13	
Matrix Spike (A314666-MS2), Source: A3L0544-09											
Total Kjeldahl Nitrogen - Dissolved (1)	8.1	1.0	mg/L	10	ND	81	90-110			12/17/13	MS1.0 ***Low***
Matrix Spike (A314666-MS3), Source: A3L0659-05											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10	ND	101	90-110			12/17/13	
Matrix Spike Dup (A314666-MSD2), Source: A3L0544-09											
Total Kjeldahl Nitrogen - Dissolved (1)	9.5	1.0	mg/L	10	ND	95	90-110	17	10	12/17/13	MS2.1
Matrix Spike Dup (A314666-MSD3), Source: A3L0659-05											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10	ND	100	90-110	2	10	12/17/13	
EPA 365.4 - Quality Control											
Batch: A314666										Prepared: 12/11/2013	
Prep Method: Digestion										Analyst: KKC	
Blank (A314666-BLK1)											
Phosphorus - Dissolved (1)	ND	0.10	mg/L							12/12/13	
Blank Spike (A314666-BS1)											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10		101	90-110			12/12/13	
Blank Spike Dup (A314666-BSD1)											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10		103	90-110	2	10	12/12/13	
Matrix Spike (A314666-MS1), Source: A3L0659-05											
Phosphorus - Dissolved (1)	9.7	0.10	mg/L	10	ND	97	90-110			12/12/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 365.4 - Quality Control											
Batch: A314666										Prepared: 12/11/2013	
Prep Method: Digestion										Analyst: KKC	
Matrix Spike Dup (A314666-MSD1), Source: A3L0659-05											
Phosphorus - Dissolved (1)	9.4	0.10	mg/L	10	ND	94	90-110	3	10	12/12/13	
SM 2120 B - Quality Control											
Batch: A314478										Prepared: 12/6/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314478-BLK1)											
Color, Apparent	ND	1.0	CU							12/06/13	
Duplicate (A314478-DUP1), Source: A3L0440-01											
Color, Apparent	ND	1.0	CU		ND				20	12/06/13	
Duplicate (A314478-DUP2), Source: A3L0508-01											
Color, Apparent	40	1.0	CU		40			0	20	12/06/13	
SM 2130 B - Quality Control											
Batch: A314478										Prepared: 12/6/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314478-BLK1)											
Turbidity	ND	0.10	NTU							12/06/13	
Duplicate (A314478-DUP1), Source: A3L0440-01											
Turbidity	ND	0.10	NTU		ND				20	12/06/13	DP01
Duplicate (A314478-DUP2), Source: A3L0508-01											
Turbidity	6.6	0.10	NTU		6.6			1	20	12/06/13	
SM 2150 B - Quality Control											
Batch: A314478										Prepared: 12/6/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314478-BLK1)											
Threshold Odor	ND	1.0	T.O.N.							12/06/13	
Duplicate (A314478-DUP1), Source: A3L0440-01											
Threshold Odor	ND	1.0	T.O.N.		ND				20	12/06/13	
Duplicate (A314478-DUP2), Source: A3L0508-01											
Threshold Odor	1.0	1.0	T.O.N.		1.0			0	20	12/06/13	
SM 2320 B - Quality Control											
Batch: A314523										Prepared: 12/6/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2320 B - Quality Control											
Batch: A314523										Prepared: 12/6/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314523-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							12/06/13	
Bicarbonate as CaCO3	ND	3.0	mg/L							12/06/13	
Carbonate as CaCO3	ND	3.0	mg/L							12/06/13	
Hydroxide as CaCO3	ND	3.0	mg/L							12/06/13	
Blank Spike (A314523-BS1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		103	80-120			12/06/13	
Blank Spike Dup (A314523-BSD1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		102	80-120	1	20	12/06/13	
Duplicate (A314523-DUP1), Source: A3L0563-03											
Alkalinity as CaCO3	23	3.0	mg/L		25			9	10	12/07/13	
Bicarbonate as CaCO3	23	3.0	mg/L		25			9	10	12/07/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	12/07/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	12/07/13	
Duplicate (A314523-DUP2), Source: A3L0508-01											
Alkalinity as CaCO3	460	3.0	mg/L		460			0	10	12/07/13	
Bicarbonate as CaCO3	460	3.0	mg/L		460			0	10	12/07/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	12/07/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	12/07/13	
SM 2510 B - Quality Control											
Batch: A314523										Prepared: 12/6/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314523-BLK1)											
Conductivity @ 25C	ND	1.0	umhos/cm							12/06/13	
Duplicate (A314523-DUP1), Source: A3L0563-03											
Conductivity @ 25C	530	1.0	umhos/cm		530			0	20	12/07/13	
Duplicate (A314523-DUP2), Source: A3L0508-01											
Conductivity @ 25C	28000	1.0	umhos/cm		29000			1	20	12/07/13	
SM 2540C - Quality Control											
Batch: A314595										Prepared: 12/10/2013	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank (A314595-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							12/13/13	
Blank Spike (A314595-BS1)											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2540C - Quality Control											
Batch: A314595										Prepared: 12/10/2013	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank Spike (A314595-BS1)											
Total Dissolved Solids	990	5.0	mg/L	1000		99	70-130			12/13/13	
Duplicate (A314595-DUP1), Source: A3L0444-02											
Total Dissolved Solids	570	5.0	mg/L		570			0	20	12/13/13	
SM 4500-H+ B - Quality Control											
Batch: A314523										Prepared: 12/7/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Duplicate (A314523-DUP1), Source: A3L0563-03											
pH (1)	7.2		pH Units		7.1			0	20	12/07/13	
Duplicate (A314523-DUP2), Source: A3L0508-01											
pH (1)	7.6		pH Units		7.6			0	20	12/07/13	
SM 4500-NH3 G - Quality Control											
Batch: A314798										Prepared: 12/13/2013	
Prep Method: Ammonia Distillation										Analyst: KKC	
Blank (A314798-BLK1)											
Ammonia as N	ND	0.10	mg/L							12/17/13	B2.0
Blank Spike (A314798-BS1)											
Ammonia as N	9.6	0.10	mg/L	10		96	80-120			12/17/13	
Blank Spike Dup (A314798-BSD1)											
Ammonia as N	9.8	0.10	mg/L	10		98	80-120	2	20	12/17/13	
Matrix Spike (A314798-MS1), Source: A3L0458-01											
Ammonia as N	10	0.10	mg/L	10	0.50	97	80-120			12/17/13	
Matrix Spike (A314798-MS2), Source: A3L0499-05											
Ammonia as N	8.6	0.10	mg/L	10	0.17	85	80-120			12/17/13	
Matrix Spike Dup (A314798-MSD1), Source: A3L0458-01											
Ammonia as N	10	0.10	mg/L	10	0.50	98	80-120	1	20	12/17/13	
Matrix Spike Dup (A314798-MSD2), Source: A3L0499-05											
Ammonia as N	9.7	0.10	mg/L	10	0.17	95	80-120	11	20	12/17/13	
SM 4500-NO3 F - Quality Control											
Batch: A314815										Prepared: 12/13/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314815-BLK1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	ND	0.10	mg/L							12/13/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-NO3 F - Quality Control											
Batch: A314815										Prepared: 12/13/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank Spike (A314815-BS1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10		101	80-120			12/13/13	
Blank Spike Dup (A314815-BSD1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10		100	80-120	0	20	12/13/13	
Matrix Spike (A314815-MS1), Source: A3L0545-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	8.9	0.10	mg/L	10	1.5	73	80-120			12/13/13	MS1.0 ***Low***
Matrix Spike (A314815-MS2), Source: A3L0508-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.3	0.10	mg/L	10	ND	92	80-120			12/13/13	
Matrix Spike Dup (A314815-MSD1), Source: A3L0545-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	8.9	0.10	mg/L	10	1.5	74	80-120	1	20	12/13/13	MS1.0 ***Low***
Matrix Spike Dup (A314815-MSD2), Source: A3L0508-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.4	0.10	mg/L	10	ND	93	80-120	1	20	12/13/13	
SM 4500-P E - Quality Control											
Batch: A314530										Prepared: 12/5/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314530-BLK1)											
Orthophosphate as P	ND	0.010	mg/L							12/05/13	
Blank Spike (A314530-BS1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		100	90-110			12/05/13	
Blank Spike Dup (A314530-BSD1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		101	90-110	0	20	12/05/13	
Matrix Spike (A314530-MS1), Source: A3L0508-01											
Orthophosphate as P	0.62	0.020	mg/L	0.50	0.12	99	80-120			12/05/13	
Matrix Spike Dup (A314530-MSD1), Source: A3L0508-01											
Orthophosphate as P	0.61	0.020	mg/L	0.50	0.12	98	80-120	1	20	12/05/13	
SM 5540 C - Quality Control											
Batch: A314485										Prepared: 12/6/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A314485-BLK1)											
MBAS, Calculated as LAS, mol wt 340	ND	0.050	mg/L							12/06/13	
Blank Spike (A314485-BS1)											
MBAS, Calculated as LAS, mol wt 340	0.92	0.050	mg/L	1.0		92	80-120			12/06/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 5540 C - Quality Control											
Batch: A314485										Prepared: 12/6/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank Spike Dup (A314485-BSD1)											
MBAS, Calculated as LAS, mol wt 340	0.93	0.050	mg/L	1.0		93	80-120	2	20	12/06/13	
Matrix Spike (A314485-MS1), Source: A3L0459-06											
MBAS, Calculated as LAS, mol wt 340	0.99	0.050	mg/L	1.0	ND	99	80-120			12/06/13	
Matrix Spike Dup (A314485-MSD1), Source: A3L0459-06											
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0	ND	103	80-120	4	20	12/06/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A314550										Prepared: 12/9/2013	
Prep Method: EPA 200.2										Analyst: NRE	
Blank (A314550-BLK2)											
Aluminum	ND	0.050	mg/L							12/10/13	
Calcium	ND	0.10	mg/L							12/10/13	
Iron	ND	0.030	mg/L							12/10/13	
Magnesium	ND	0.10	mg/L							12/10/13	
Manganese	ND	0.010	mg/L							12/10/13	
Zinc	ND	0.050	mg/L							12/10/13	
Blank Spike (A314550-BS2)											
Aluminum	0.20	0.050	mg/L	0.20		99	85-115			12/10/13	
Calcium	10	0.10	mg/L	10		104	85-115			12/10/13	
Iron	2.0	0.030	mg/L	2.0		101	85-115			12/10/13	
Magnesium	9.9	0.10	mg/L	10		99	85-115			12/10/13	
Manganese	0.20	0.010	mg/L	0.20		102	85-115			12/10/13	
Zinc	0.22	0.050	mg/L	0.20		108	85-115			12/10/13	
Blank Spike Dup (A314550-BSD2)											
Aluminum	0.21	0.050	mg/L	0.20		106	85-115	7	20	12/10/13	
Calcium	11	0.10	mg/L	10		108	85-115	3	20	12/10/13	
Iron	2.1	0.030	mg/L	2.0		104	85-115	2	20	12/10/13	
Magnesium	10	0.10	mg/L	10		101	85-115	3	20	12/10/13	
Manganese	0.21	0.010	mg/L	0.20		104	85-115	2	20	12/10/13	
Zinc	0.22	0.050	mg/L	0.20		111	85-115	2	20	12/10/13	
Matrix Spike (A314550-MS3), Source: A3L0454-01											
Aluminum	0.43	0.050	mg/L	0.20	0.19	122	70-130			12/10/13	
Calcium	13	0.10	mg/L	10	2.7	104	70-130			12/10/13	
Iron	2.3	0.030	mg/L	2.0	0.21	104	70-130			12/10/13	
Magnesium	11	0.10	mg/L	10	0.52	100	70-130			12/10/13	
Manganese	0.22	0.010	mg/L	0.20	0.013	103	70-130			12/10/13	
Zinc	0.23	0.050	mg/L	0.20	ND	113	70-130			12/10/13	
Matrix Spike (A314550-MS4), Source: A3L0456-02											
Aluminum	0.28	0.050	mg/L	0.20	0.072	105	70-130			12/10/13	
Calcium	49	0.10	mg/L	10	37	116	70-130			12/10/13	
Iron	2.3	0.030	mg/L	2.0	0.17	104	70-130			12/10/13	
Magnesium	14	0.10	mg/L	10	3.8	102	70-130			12/10/13	
Manganese	0.25	0.010	mg/L	0.20	0.045	104	70-130			12/10/13	
Zinc	0.69	0.050	mg/L	0.20	0.45	116	70-130			12/10/13	
Matrix Spike Dup (A314550-MSD3), Source: A3L0454-01											
Aluminum	0.43	0.050	mg/L	0.20	0.19	118	70-130	2	20	12/10/13	
Calcium	13	0.10	mg/L	10	2.7	104	70-130	0	20	12/10/13	
Iron	2.3	0.030	mg/L	2.0	0.21	104	70-130	0	20	12/10/13	
Magnesium	11	0.10	mg/L	10	0.52	100	70-130	0	20	12/10/13	
Manganese	0.22	0.010	mg/L	0.20	0.013	103	70-130	0	20	12/10/13	
Zinc	0.22	0.050	mg/L	0.20	ND	112	70-130	0	20	12/10/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A314550										Prepared: 12/9/2013	
Prep Method: EPA 200.2										Analyst: NRE	
Matrix Spike Dup (A314550-MSD4), Source: A3L0456-02											
Aluminum	0.28	0.050	mg/L	0.20	0.072	102	70-130	2	20	12/10/13	
Calcium	49	0.10	mg/L	10	37	112	70-130	1	20	12/10/13	
Iron	2.2	0.030	mg/L	2.0	0.17	102	70-130	2	20	12/10/13	
Magnesium	14	0.10	mg/L	10	3.8	101	70-130	1	20	12/10/13	
Manganese	0.25	0.010	mg/L	0.20	0.045	101	70-130	3	20	12/10/13	
Zinc	0.74	0.050	mg/L	0.20	0.45	142	70-130	7	20	12/10/13	MS1.1 ***High***
EPA 200.7 - Quality Control											
Batch: A314641										Prepared: 12/10/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Blank (A314641-BLK2)											
Barium - Dissolved (1)	ND	0.050	mg/L							12/13/13	
Boron - Dissolved (1)	ND	0.10	mg/L							12/13/13	
Calcium - Dissolved (1)	ND	0.10	mg/L							12/13/13	B2.4
Iron - Dissolved (1)	ND	0.030	mg/L							12/13/13	
Magnesium - Dissolved (1)	ND	0.10	mg/L							12/13/13	
Manganese - Dissolved (1)	ND	0.010	mg/L							12/13/13	
Potassium - Dissolved (1)	ND	2.0	mg/L							12/13/13	
Silica (SiO2) - Dissolved (1)	ND	0.20	mg/L							12/13/13	
Sodium - Dissolved (1)	ND	1.0	mg/L							12/13/13	
Blank Spike (A314641-BS2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		100	85-115			12/13/13	
Boron - Dissolved (1)	0.59	0.10	mg/L	0.60		99	85-115			12/13/13	
Calcium - Dissolved (1)	10	0.10	mg/L	10		102	85-115			12/13/13	
Iron - Dissolved (1)	1.9	0.030	mg/L	2.0		97	85-115			12/13/13	
Magnesium - Dissolved (1)	9.8	0.10	mg/L	10		98	85-115			12/13/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20		99	85-115			12/13/13	
Potassium - Dissolved (1)	10	2.0	mg/L	10		100	85-115			12/13/13	
Silica (SiO2) - Dissolved (1)	2.1	0.20	mg/L	2.1		97	85-115			12/13/13	
Sodium - Dissolved (1)	9.8	1.0	mg/L	10		98	85-115			12/13/13	
Blank Spike Dup (A314641-BSD2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		100	85-115	0	20	12/13/13	
Boron - Dissolved (1)	0.60	0.10	mg/L	0.60		101	85-115	2	20	12/13/13	
Calcium - Dissolved (1)	10	0.10	mg/L	10		103	85-115	1	20	12/13/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		98	85-115	1	20	12/13/13	
Magnesium - Dissolved (1)	10	0.10	mg/L	10		100	85-115	2	20	12/13/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20		99	85-115	1	20	12/13/13	
Potassium - Dissolved (1)	10	2.0	mg/L	10		101	85-115	1	20	12/13/13	
Silica (SiO2) - Dissolved (1)	2.1	0.20	mg/L	2.1		99	85-115	2	20	12/13/13	
Sodium - Dissolved (1)	10	1.0	mg/L	10		100	85-115	1	20	12/13/13	
Matrix Spike (A314641-MS3), Source: A3L0544-01											
Barium - Dissolved (1)	0.21	0.050	mg/L	0.20	ND	105	70-130			12/13/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A314641										Prepared: 12/10/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Matrix Spike (A314641-MS3), Source: A3L0544-01											
Boron - Dissolved (1)	0.62	0.10	mg/L	0.60	ND	103	70-130			12/13/13	
Calcium - Dissolved (1)	17	0.10	mg/L	10	6.5	103	70-130			12/13/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0	0.053	100	70-130			12/13/13	
Magnesium - Dissolved (1)	12	0.10	mg/L	10	2.1	100	70-130			12/13/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20	ND	102	70-130			12/13/13	
Potassium - Dissolved (1)	11	2.0	mg/L	10	ND	102	70-130			12/13/13	
Silica (SiO2) - Dissolved (1)	18	0.20	mg/L	2.1	16	105	70-130			12/13/13	
Sodium - Dissolved (1)	13	1.0	mg/L	10	3.3	100	70-130			12/13/13	
Matrix Spike (A314641-MS4), Source: A3L0544-03											
Barium - Dissolved (1)	0.23	0.050	mg/L	0.20	ND	102	70-130			12/13/13	
Boron - Dissolved (1)	0.64	0.10	mg/L	0.60	ND	106	70-130			12/13/13	
Calcium - Dissolved (1)	45	0.10	mg/L	10	35	102	70-130			12/13/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.098	99	70-130			12/13/13	
Magnesium - Dissolved (1)	23	0.10	mg/L	10	13	100	70-130			12/13/13	
Manganese - Dissolved (1)	0.21	0.010	mg/L	0.20	ND	100	70-130			12/13/13	
Potassium - Dissolved (1)	13	2.0	mg/L	10	2.7	101	70-130			12/13/13	
Silica (SiO2) - Dissolved (1)	42	0.20	mg/L	2.1	40	102	70-130			12/13/13	
Sodium - Dissolved (1)	18	1.0	mg/L	10	8.5	98	70-130			12/13/13	
Matrix Spike Dup (A314641-MSD3), Source: A3L0544-01											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20	ND	101	70-130	3	20	12/13/13	
Boron - Dissolved (1)	0.61	0.10	mg/L	0.60	ND	101	70-130	2	20	12/13/13	
Calcium - Dissolved (1)	17	0.10	mg/L	10	6.5	103	70-130	0	20	12/13/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0	0.053	98	70-130	2	20	12/13/13	
Magnesium - Dissolved (1)	12	0.10	mg/L	10	2.1	100	70-130	0	20	12/13/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20	ND	100	70-130	2	20	12/13/13	
Potassium - Dissolved (1)	11	2.0	mg/L	10	ND	101	70-130	1	20	12/13/13	
Silica (SiO2) - Dissolved (1)	18	0.20	mg/L	2.1	16	112	70-130	1	20	12/13/13	
Sodium - Dissolved (1)	13	1.0	mg/L	10	3.3	99	70-130	1	20	12/13/13	
Matrix Spike Dup (A314641-MSD4), Source: A3L0544-03											
Barium - Dissolved (1)	0.23	0.050	mg/L	0.20	ND	101	70-130	1	20	12/13/13	
Boron - Dissolved (1)	0.64	0.10	mg/L	0.60	ND	107	70-130	1	20	12/13/13	
Calcium - Dissolved (1)	45	0.10	mg/L	10	35	96	70-130	1	20	12/13/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.098	99	70-130	0	20	12/13/13	
Magnesium - Dissolved (1)	23	0.10	mg/L	10	13	98	70-130	1	20	12/13/13	
Manganese - Dissolved (1)	0.21	0.010	mg/L	0.20	ND	101	70-130	0	20	12/13/13	
Potassium - Dissolved (1)	13	2.0	mg/L	10	2.7	100	70-130	0	20	12/13/13	
Silica (SiO2) - Dissolved (1)	41	0.20	mg/L	2.1	40	76	70-130	1	20	12/13/13	
Sodium - Dissolved (1)	18	1.0	mg/L	10	8.5	96	70-130	1	20	12/13/13	
EPA 200.8 - Quality Control											
Batch: A314550										Prepared: 12/9/2013	
Prep Method: EPA 200.2										Analyst: MAS	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A314550										Prepared: 12/9/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Blank (A314550-BLK1)											
Arsenic	ND	2.0	ug/L							12/17/13	
Copper	ND	5.0	ug/L							12/17/13	
Blank Spike (A314550-BS1)											
Arsenic	200	2.0	ug/L	200		101	85-115			12/17/13	
Copper	200	5.0	ug/L	200		98	85-115			12/17/13	
Blank Spike Dup (A314550-BSD1)											
Arsenic	200	2.0	ug/L	200		102	85-115	1	20	12/17/13	
Copper	200	5.0	ug/L	200		99	85-115	1	20	12/17/13	
Matrix Spike (A314550-MS1), Source: A3L0454-01											
Arsenic	200	2.0	ug/L	200	ND	99	70-130			12/17/13	
Copper	190	5.0	ug/L	200	ND	96	70-130			12/17/13	
Matrix Spike (A314550-MS2), Source: A3L0456-02											
Arsenic	210	2.0	ug/L	200	5.9	101	70-130			12/17/13	
Copper	200	5.0	ug/L	200	10	94	70-130			12/17/13	
Matrix Spike Dup (A314550-MSD1), Source: A3L0454-01											
Arsenic	200	2.0	ug/L	200	ND	98	70-130	0	20	12/17/13	
Copper	200	5.0	ug/L	200	ND	98	70-130	2	20	12/17/13	
Matrix Spike Dup (A314550-MSD2), Source: A3L0456-02											
Arsenic	200	2.0	ug/L	200	5.9	98	70-130	3	20	12/17/13	
Copper	200	5.0	ug/L	200	10	93	70-130	1	20	12/17/13	
EPA 200.8 - Quality Control											
Batch: A314641										Prepared: 12/10/2013	
Prep Method: Filtration - Metals										Analyst: MAS	
Blank (A314641-BLK1)											
Strontium - Dissolved (1)	ND	1.0	ug/L							12/17/13	
Blank Spike (A314641-BS1)											
Strontium - Dissolved (1)	210	1.0	ug/L	200		103	85-115			12/17/13	
Blank Spike Dup (A314641-BSD1)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		101	85-115	2	20	12/17/13	
Matrix Spike (A314641-MS1), Source: A3L0544-01											
Strontium - Dissolved (1)	260	1.0	ug/L	200	59	102	70-130			12/17/13	
Matrix Spike Dup (A314641-MSD1), Source: A3L0544-01											
Strontium - Dissolved (1)	250	1.0	ug/L	200	59	98	70-130	3	20	12/17/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A314630										Prepared: 12/10/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A314630-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							12/12/13	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							12/12/13	
Surrogate: TCMX	*4.5*			*4.5*		*102*	*70-130*			12/12/13	
Blank Spike (A314630-BS1)											
Dibromochloropropane (DBCP)	0.19	0.010	ug/L	0.20		94	70-130			12/12/13	
Ethylene Dibromide (EDB)	0.17	0.020	ug/L	0.20		87	70-130			12/12/13	
Surrogate: TCMX	*4.1*			*4.5*		*93*	*70-130*			12/12/13	
Blank Spike Dup (A314630-BSD1)											
Dibromochloropropane (DBCP)	0.19	0.010	ug/L	0.20		97	70-130	3	20	12/12/13	
Ethylene Dibromide (EDB)	0.18	0.020	ug/L	0.20		89	70-130	2	20	12/12/13	
Surrogate: TCMX	*4.2*			*4.5*		*94*	*70-130*			12/12/13	
Matrix Spike (A314630-MS1), Source: A3L0420-01											
Dibromochloropropane (DBCP)	0.36	0.010	ug/L	0.21	0.18	88	65-135			12/12/13	
Ethylene Dibromide (EDB)	0.20	0.020	ug/L	0.21	ND	96	65-135			12/12/13	
Surrogate: TCMX	*4.5*			*4.6*		*98*	*70-130*			12/12/13	
Matrix Spike Dup (A314630-MSD1), Source: A3L0420-01											
Dibromochloropropane (DBCP)	0.41	0.010	ug/L	0.21	0.18	114	65-135	14	20	12/12/13	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.21	ND	99	65-135	3	20	12/12/13	
Surrogate: TCMX	*4.8*			*4.6*		*105*	*70-130*			12/12/13	
EPA 505 - Quality Control											
Batch: A314630										Prepared: 12/10/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A314630-BLK1)											
Aldrin	ND	0.075	ug/L							12/12/13	
Chlordane	ND	0.10	ug/L							12/12/13	
Chlorothalonil	ND	5.0	ug/L							12/12/13	
Dieldrin	ND	0.020	ug/L							12/12/13	
Endrin	ND	0.10	ug/L							12/12/13	
Heptachlor	ND	0.010	ug/L							12/12/13	
Heptachlor Epoxide	ND	0.010	ug/L							12/12/13	
Hexachlorobenzene	ND	0.50	ug/L							12/12/13	
Hexachlorocyclopentadiene	ND	1.0	ug/L							12/12/13	
Lindane	ND	0.20	ug/L							12/12/13	
Methoxychlor	ND	10	ug/L							12/12/13	
PCB Aroclor Screen	ND	0.50	ug/L							12/12/13	
Toxaphene	ND	1.0	ug/L							12/12/13	
Trifluralin	ND	1.0	ug/L							12/12/13	
Surrogate: TCMX	*4.5*			*4.5*		*102*	*70-130*			12/12/13	
Blank Spike (A314630-BS1)											

Organics Quality Control Report

EPA 505 - Quality Control

Batch: A314630 Prepared: 12/10/2013

Prep Method: EPA 505 Analyst: GAK

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A314630-BS1)											
Aldrin	0.89	0.075	ug/L	1.0		89	70-130			12/12/13	
Chlorothalonil	10	5.0	ug/L	10		102	70-130			12/12/13	
Dieldrin	0.41	0.020	ug/L	0.40		102	70-130			12/12/13	
Endrin	0.19	0.10	ug/L	0.20		96	70-130			12/12/13	
Heptachlor	0.18	0.010	ug/L	0.20		90	70-130			12/12/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20		100	70-130			12/12/13	
Hexachlorobenzene	1.9	0.50	ug/L	2.0		95	70-130			12/12/13	
Hexachlorocyclopentadiene	1.7	1.0	ug/L	2.0		84	70-130			12/12/13	
Lindane	0.39	0.20	ug/L	0.40		96	70-130			12/12/13	
Methoxychlor	2.2	10	ug/L	2.0		109	70-130			12/12/13	
Trifluralin	1.9	1.0	ug/L	2.0		95	70-130			12/12/13	
Surrogate: TCMX	*4.1*			*4.5*		*93*	*70-130*			12/12/13	
Blank Spike Dup (A314630-BSD1)											
Aldrin	0.88	0.075	ug/L	1.0		88	70-130	0	20	12/12/13	
Chlorothalonil	10	5.0	ug/L	10		100	70-130	2	20	12/12/13	
Dieldrin	0.40	0.020	ug/L	0.40		101	70-130	1	20	12/12/13	
Endrin	0.20	0.10	ug/L	0.20		99	70-130	3	20	12/12/13	
Heptachlor	0.18	0.010	ug/L	0.20		91	70-130	1	20	12/12/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20		98	70-130	2	20	12/12/13	
Hexachlorobenzene	1.9	0.50	ug/L	2.0		96	70-130	2	20	12/12/13	
Hexachlorocyclopentadiene	1.7	1.0	ug/L	2.0		83	70-130	1	20	12/12/13	
Lindane	0.41	0.20	ug/L	0.40		102	70-130	6	20	12/12/13	
Methoxychlor	2.1	10	ug/L	2.0		106	70-130	3	20	12/12/13	
Trifluralin	1.9	1.0	ug/L	2.0		95	70-130	0	20	12/12/13	
Surrogate: TCMX	*4.2*			*4.5*		*94*	*70-130*			12/12/13	
Matrix Spike (A314630-MS1), Source: A3L0420-01											
Aldrin	0.97	0.075	ug/L	1.0	ND	93	65-135			12/12/13	
Chlorothalonil	10	5.0	ug/L	10	ND	101	65-135			12/12/13	
Dieldrin	0.42	0.020	ug/L	0.41	ND	101	65-135			12/12/13	
Endrin	0.21	0.10	ug/L	0.21	ND	101	65-135			12/12/13	
Heptachlor	0.20	0.010	ug/L	0.21	ND	96	65-135			12/12/13	
Heptachlor Epoxide	0.21	0.010	ug/L	0.21	ND	104	65-135			12/12/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.1	ND	101	65-135			12/12/13	
Hexachlorocyclopentadiene	1.8	1.0	ug/L	2.1	ND	84	65-135			12/12/13	
Lindane	0.43	0.20	ug/L	0.41	ND	104	65-135			12/12/13	
Methoxychlor	2.2	10	ug/L	2.1	ND	107	65-135			12/12/13	
Trifluralin	2.1	1.0	ug/L	2.1	ND	100	65-135			12/12/13	
Surrogate: TCMX	*4.5*			*4.6*		*98*	*70-130*			12/12/13	
Matrix Spike Dup (A314630-MSD1), Source: A3L0420-01											
Aldrin	1.0	0.075	ug/L	1.0	ND	99	65-135	6	20	12/12/13	
Chlorothalonil	12	5.0	ug/L	10	ND	112	65-135	10	20	12/12/13	
Dieldrin	0.47	0.020	ug/L	0.42	ND	113	65-135	11	20	12/12/13	
Endrin	0.23	0.10	ug/L	0.21	ND	108	65-135	7	20	12/12/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 505 - Quality Control											
Batch: A314630										Prepared: 12/11/2013	
Prep Method: EPA 505										Analyst: GAK	
Matrix Spike Dup (A314630-MSD1), Source: A3L0420-01											
Heptachlor	0.22	0.010	ug/L	0.21	ND	105	65-135	9	20	12/12/13	
Heptachlor Epoxide	0.23	0.010	ug/L	0.21	ND	113	65-135	9	20	12/12/13	
Hexachlorobenzene	2.3	0.50	ug/L	2.1	ND	110	65-135	9	20	12/12/13	
Hexachlorocyclopentadiene	1.7	1.0	ug/L	2.1	ND	81	65-135	3	20	12/12/13	
Lindane	0.48	0.20	ug/L	0.42	ND	115	65-135	10	20	12/12/13	
Methoxychlor	2.4	10	ug/L	2.1	ND	116	65-135	8	20	12/12/13	
Trifluralin	2.2	1.0	ug/L	2.1	ND	108	65-135	8	20	12/12/13	
Surrogate: TCMX	*4.8*			*4.6*		*105*	*70-130*			12/12/13	
EPA 515.3 - Quality Control											
Batch: A314761										Prepared: 12/15/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A314761-BLK1)											
2,4,5-T	ND	1.0	ug/L							12/16/13	
2,4,5-TP (Silvex)	ND	1.0	ug/L							12/16/13	
2,4-D	ND	10	ug/L							12/16/13	
Bentazon	ND	2.0	ug/L							12/16/13	
Dalapon	ND	10	ug/L							12/16/13	
Dicamba	ND	1.5	ug/L							12/16/13	B2.0
Dinoseb	ND	2.0	ug/L							12/16/13	
Pentachlorophenol	ND	0.20	ug/L							12/16/13	
Picloram	ND	1.0	ug/L							12/16/13	
Surrogate: DCPAA	*45*			*58*		*78*	*70-130*			12/16/13	
Blank Spike (A314761-BS1)											
2,4,5-T	4.1	1.0	ug/L	4.0		102	70-130			12/16/13	
2,4,5-TP (Silvex)	0.80	1.0	ug/L	0.80		100	70-130			12/16/13	
2,4-D	0.41	10	ug/L	0.40		102	70-130			12/16/13	
Bentazon	8.4	2.0	ug/L	8.0		105	70-130			12/16/13	
Dalapon	4.0	10	ug/L	4.0		99	70-130			12/16/13	
Dicamba	5.9	1.5	ug/L	6.0		98	70-130			12/16/13	
Dinoseb	0.80	2.0	ug/L	0.80		99	70-130			12/16/13	
Pentachlorophenol	0.15	0.20	ug/L	0.16		93	70-130			12/16/13	
Picloram	0.40	1.0	ug/L	0.40		100	70-130			12/16/13	
Surrogate: DCPAA	*46*			*58*		*79*	*70-130*			12/16/13	
Blank Spike Dup (A314761-BSD1)											
2,4,5-T	3.9	1.0	ug/L	4.0		98	70-130	4	20	12/17/13	
2,4,5-TP (Silvex)	0.77	1.0	ug/L	0.80		96	70-130	3	20	12/17/13	
2,4-D	0.39	10	ug/L	0.40		97	70-130	5	20	12/17/13	
Bentazon	8.1	2.0	ug/L	8.0		101	70-130	4	20	12/17/13	
Dalapon	3.6	10	ug/L	4.0		89	70-130	11	20	12/17/13	
Dicamba	5.6	1.5	ug/L	6.0		93	70-130	6	20	12/17/13	
Dinoseb	0.79	2.0	ug/L	0.80		99	70-130	1	20	12/17/13	
Pentachlorophenol	0.15	0.20	ug/L	0.16		91	70-130	2	20	12/17/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A314761										Prepared: 12/15/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A314761-BSD1)											
Picloram	0.31	1.0	ug/L	0.40		77	70-130	26	20	12/17/13	BS3.0
Surrogate: DCPAA	*45*			*58*		*77*	*70-130*			12/17/13	
Matrix Spike (A314761-MS1), Source: A3L0661-01											
2,4,5-T	4.3	1.0	ug/L	4.0	ND	108	70-130			12/16/13	
2,4,5-TP (Silvex)	0.81	1.0	ug/L	0.80	ND	101	70-130			12/16/13	
2,4-D	0.43	10	ug/L	0.40	ND	107	70-130			12/16/13	
Bentazon	8.6	2.0	ug/L	8.0	ND	108	70-130			12/16/13	
Dalapon	4.2	10	ug/L	4.0	ND	104	70-130			12/16/13	
Dicamba	6.3	1.5	ug/L	6.0	ND	105	70-130			12/16/13	
Dinoseb	0.80	2.0	ug/L	0.80	ND	100	70-130			12/16/13	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	93	70-130			12/16/13	
Picloram	0.44	1.0	ug/L	0.40	ND	109	70-130			12/16/13	
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			12/16/13	
Matrix Spike Dup (A314761-MSD1), Source: A3L0661-01											
2,4,5-T	4.4	1.0	ug/L	4.0	ND	109	70-130	1	20	12/16/13	
2,4,5-TP (Silvex)	0.82	1.0	ug/L	0.80	ND	103	70-130	2	20	12/16/13	
2,4-D	0.43	10	ug/L	0.40	ND	108	70-130	1	20	12/16/13	
Bentazon	8.7	2.0	ug/L	8.0	ND	109	70-130	1	20	12/16/13	
Dalapon	4.6	10	ug/L	4.0	ND	115	70-130	10	20	12/16/13	
Dicamba	6.5	1.5	ug/L	6.0	ND	108	70-130	3	20	12/16/13	
Dinoseb	0.84	2.0	ug/L	0.80	ND	105	70-130	5	20	12/16/13	
Pentachlorophenol	0.15	0.20	ug/L	0.16	ND	96	70-130	3	20	12/16/13	
Picloram	0.45	1.0	ug/L	0.40	ND	111	70-130	2	20	12/16/13	
Surrogate: DCPAA	*48*			*58*		*82*	*70-130*			12/16/13	
EPA 524.2 - Quality Control											
Batch: A314729										Prepared: 12/12/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A314729-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							12/12/13	
1,1,1-Trichloroethane	ND	0.50	ug/L							12/12/13	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							12/12/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							12/12/13	
1,1,2-Trichloroethane	ND	0.50	ug/L							12/12/13	
1,1-Dichloroethane	ND	0.50	ug/L							12/12/13	
1,1-Dichloroethene	ND	0.50	ug/L							12/12/13	
1,1-Dichloropropene	ND	0.50	ug/L							12/12/13	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							12/12/13	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							12/12/13	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							12/12/13	
1,2-Dichlorobenzene	ND	0.50	ug/L							12/12/13	
1,2-Dichloroethane	ND	0.50	ug/L							12/12/13	
1,2-Dichloropropane	ND	0.50	ug/L							12/12/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A314729										Prepared: 12/12/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A314729-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	ug/L							12/12/13	
1,3-Dichlorobenzene	ND	0.50	ug/L							12/12/13	
1,3-Dichloropropane	ND	0.50	ug/L							12/12/13	
1,4-Dichlorobenzene	ND	0.50	ug/L							12/12/13	
2,2-Dichloropropane	ND	0.50	ug/L							12/12/13	
2-Butanone	ND	5.0	ug/L							12/12/13	
2-Chlorotoluene	ND	0.50	ug/L							12/12/13	
2-Hexanone	ND	10	ug/L							12/12/13	
4-Chlorotoluene	ND	0.50	ug/L							12/12/13	
4-Methyl-2-pentanone	ND	5.0	ug/L							12/12/13	
Acetone	ND	10	ug/L							12/12/13	
Benzene	ND	0.50	ug/L							12/12/13	
Bromobenzene	ND	0.50	ug/L							12/12/13	
Bromochloromethane	ND	0.50	ug/L							12/12/13	
Bromodichloromethane	ND	0.50	ug/L							12/12/13	
Bromoform	ND	0.50	ug/L							12/12/13	
Bromomethane	ND	0.50	ug/L							12/12/13	
Carbon Tetrachloride	ND	0.50	ug/L							12/12/13	
Chlorobenzene	ND	0.50	ug/L							12/12/13	
Chloroethane	ND	0.50	ug/L							12/12/13	
Chloroform	ND	0.50	ug/L							12/12/13	
Chloromethane	ND	0.50	ug/L							12/12/13	
cis-1,2-Dichloroethene	ND	0.50	ug/L							12/12/13	
cis-1,3-Dichloropropene	ND	0.50	ug/L							12/12/13	
Dibromochloromethane	ND	0.50	ug/L							12/12/13	
Dibromomethane	ND	0.50	ug/L							12/12/13	
Dichlorodifluoromethane	ND	0.50	ug/L							12/12/13	
Dichloromethane	ND	0.50	ug/L							12/12/13	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							12/12/13	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							12/12/13	
Ethylbenzene	ND	0.50	ug/L							12/12/13	
Hexachlorobutadiene	ND	0.50	ug/L							12/12/13	
Isopropylbenzene	ND	0.50	ug/L							12/12/13	
m,p-Xylenes	ND	0.50	ug/L							12/12/13	
Methyl-t-butyl ether	ND	0.50	ug/L							12/12/13	
Naphthalene	ND	0.50	ug/L							12/12/13	
n-Butylbenzene	ND	0.50	ug/L							12/12/13	
n-Propylbenzene	ND	0.50	ug/L							12/12/13	
o-Xylene	ND	0.50	ug/L							12/12/13	
p-Isopropyltoluene	ND	0.50	ug/L							12/12/13	
sec-Butylbenzene	ND	0.50	ug/L							12/12/13	
Styrene	ND	0.50	ug/L							12/12/13	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							12/12/13	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							12/12/13	
tert-Butylbenzene	ND	0.50	ug/L							12/12/13	
Tetrachloroethene (PCE)	ND	0.50	ug/L							12/12/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A314729 Prepared: 12/12/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A314729-BLK1)											
Toluene	ND	0.50	ug/L							12/12/13	
trans-1,2-Dichloroethene	ND	0.50	ug/L							12/12/13	
trans-1,3-Dichloropropene	ND	0.50	ug/L							12/12/13	
Trichloroethene (TCE)	ND	0.50	ug/L							12/12/13	
Trichlorofluoromethane	ND	5.0	ug/L							12/12/13	
Vinyl Chloride	ND	0.50	ug/L							12/12/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*97*	*70-130*			12/12/13	
Surrogate: Bromofluorobenzene	*50*			*50*		*100*	*70-130*			12/12/13	
Blank Spike (A314729-BS1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		102	70-130			12/12/13	
1,1,1-Trichloroethane	11	0.50	ug/L	10		110	70-130			12/12/13	
1,1,2,2-Tetrachloroethane	10	0.50	ug/L	10		104	70-130			12/12/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	11	10	ug/L	10		110	70-130			12/12/13	
1,1,2-Trichloroethane	10	0.50	ug/L	10		103	70-130			12/12/13	
1,1-Dichloroethane	10	0.50	ug/L	10		105	70-130			12/12/13	
1,1-Dichloroethene	11	0.50	ug/L	10		107	70-130			12/12/13	
1,1-Dichloropropene	10	0.50	ug/L	10		105	70-130			12/12/13	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		105	70-130			12/12/13	
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		108	70-130			12/12/13	
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		104	70-130			12/12/13	
1,2-Dichlorobenzene	10	0.50	ug/L	10		104	70-130			12/12/13	
1,2-Dichloroethane	11	0.50	ug/L	10		112	70-130			12/12/13	
1,2-Dichloropropane	10	0.50	ug/L	10		104	70-130			12/12/13	
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		108	70-130			12/12/13	
1,3-Dichlorobenzene	10	0.50	ug/L	10		104	70-130			12/12/13	
1,3-Dichloropropane	10	0.50	ug/L	10		104	70-130			12/12/13	
1,4-Dichlorobenzene	10	0.50	ug/L	10		105	70-130			12/12/13	
2,2-Dichloropropane	11	0.50	ug/L	10		113	70-130			12/12/13	
2-Butanone	10	5.0	ug/L	10		105	70-130			12/12/13	
2-Chlorotoluene	10	0.50	ug/L	10		105	70-130			12/12/13	
2-Hexanone	10	10	ug/L	10		102	70-130			12/12/13	
4-Chlorotoluene	11	0.50	ug/L	10		108	70-130			12/12/13	
4-Methyl-2-pentanone	13	5.0	ug/L	10		129	70-130			12/12/13	
Acetone	10	10	ug/L	10		102	70-130			12/12/13	
Benzene	11	0.50	ug/L	10		109	70-130			12/12/13	
Bromobenzene	11	0.50	ug/L	10		107	70-130			12/12/13	
Bromochloromethane	11	0.50	ug/L	10		106	70-130			12/12/13	
Bromodichloromethane	10	0.50	ug/L	10		105	70-130			12/12/13	
Bromoform	11	0.50	ug/L	10		106	70-130			12/12/13	
Bromomethane	11	0.50	ug/L	10		112	70-130			12/12/13	
Carbon Tetrachloride	11	0.50	ug/L	10		108	70-130			12/12/13	
Chlorobenzene	10	0.50	ug/L	10		104	70-130			12/12/13	
Chloroethane	11	0.50	ug/L	10		108	70-130			12/12/13	
Chloroform	11	0.50	ug/L	10		105	70-130			12/12/13	
Chloromethane	11	0.50	ug/L	10		110	70-130			12/12/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A314729 Prepared: 12/12/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A314729-BS1)											
cis-1,2-Dichloroethene	11	0.50	ug/L	10		110	70-130			12/12/13	
cis-1,3-Dichloropropene	11	0.50	ug/L	10		110	70-130			12/12/13	
Dibromochloromethane	10	0.50	ug/L	10		101	70-130			12/12/13	
Dibromomethane	11	0.50	ug/L	10		106	70-130			12/12/13	
Dichlorodifluoromethane	10	0.50	ug/L	10		104	70-130			12/12/13	
Dichloromethane	11	0.50	ug/L	10		106	70-130			12/12/13	
Di-isopropyl ether (DIPE)	10	3.0	ug/L	10		103	70-130			12/12/13	
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		105	70-130			12/12/13	
Ethylbenzene	11	0.50	ug/L	10		106	70-130			12/12/13	
Hexachlorobutadiene	11	0.50	ug/L	10		109	70-130			12/12/13	
Isopropylbenzene	10	0.50	ug/L	10		105	70-130			12/12/13	
m,p-Xylenes	21	0.50	ug/L	20		105	70-130			12/12/13	
Methyl-t-butyl ether	21	0.50	ug/L	20		104	70-130			12/12/13	
Naphthalene	10	0.50	ug/L	10		104	70-130			12/12/13	
n-Butylbenzene	11	0.50	ug/L	10		107	70-130			12/12/13	
n-Propylbenzene	11	0.50	ug/L	10		105	70-130			12/12/13	
o-Xylene	10	0.50	ug/L	10		105	70-130			12/12/13	
p-Isopropyltoluene	11	0.50	ug/L	10		105	70-130			12/12/13	
sec-Butylbenzene	11	0.50	ug/L	10		105	70-130			12/12/13	
Styrene	8.9	0.50	ug/L	10		89	70-130			12/12/13	
tert-Amyl Methyl Ether (TAME)	10	3.0	ug/L	10		104	70-130			12/12/13	
tert-Butyl alcohol (TBA)	12	2.0	ug/L	10		118	70-130			12/12/13	
tert-Butylbenzene	11	0.50	ug/L	10		105	70-130			12/12/13	
Tetrachloroethene (PCE)	11	0.50	ug/L	10		105	70-130			12/12/13	
Toluene	11	0.50	ug/L	10		106	70-130			12/12/13	
trans-1,2-Dichloroethene	11	0.50	ug/L	10		106	70-130			12/12/13	
trans-1,3-Dichloropropene	10	0.50	ug/L	10		105	70-130			12/12/13	
Trichloroethene (TCE)	10	0.50	ug/L	10		104	70-130			12/12/13	
Trichlorofluoromethane	11	5.0	ug/L	10		108	70-130			12/12/13	
Vinyl Chloride	11	0.50	ug/L	10		108	70-130			12/12/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.9*			*5.0*		*99*	*70-130*			12/12/13	
Surrogate: Bromofluorobenzene	*50*			*50*		*100*	*70-130*			12/12/13	
Blank Spike Dup (A314729-BSD1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		100	70-130	2	30	12/12/13	
1,1,1-Trichloroethane	10	0.50	ug/L	10		104	70-130	6	30	12/12/13	
1,1,2,2-Tetrachloroethane	10	0.50	ug/L	10		103	70-130	1	30	12/12/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	11	10	ug/L	10		110	70-130	0	30	12/12/13	
1,1,2-Trichloroethane	10	0.50	ug/L	10		101	70-130	2	30	12/12/13	
1,1-Dichloroethane	10	0.50	ug/L	10		102	70-130	3	30	12/12/13	
1,1-Dichloroethene	10	0.50	ug/L	10		105	70-130	2	30	12/12/13	
1,1-Dichloropropene	10	0.50	ug/L	10		104	70-130	1	30	12/12/13	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		102	70-130	3	30	12/12/13	
1,2,4-Trichlorobenzene	10	0.50	ug/L	10		104	70-130	4	30	12/12/13	
1,2,4-Trimethylbenzene	10	0.50	ug/L	10		102	70-130	2	30	12/12/13	
1,2-Dichlorobenzene	10	0.50	ug/L	10		102	70-130	2	30	12/12/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A314729 Prepared: 12/12/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A314729-BSD1)												
1,2-Dichloroethane	11	0.50	ug/L	10		108	70-130	3	30	12/12/13		
1,2-Dichloropropane	10	0.50	ug/L	10		101	70-130	2	30	12/12/13		
1,3,5-Trimethylbenzene	10	0.50	ug/L	10		105	70-130	3	30	12/12/13		
1,3-Dichlorobenzene	10	0.50	ug/L	10		101	70-130	2	30	12/12/13		
1,3-Dichloropropane	10	0.50	ug/L	10		102	70-130	2	30	12/12/13		
1,4-Dichlorobenzene	10	0.50	ug/L	10		102	70-130	3	30	12/12/13		
2,2-Dichloropropane	11	0.50	ug/L	10		106	70-130	7	30	12/12/13		
2-Butanone	11	5.0	ug/L	10		114	70-130	8	30	12/12/13		
2-Chlorotoluene	10	0.50	ug/L	10		103	70-130	2	30	12/12/13		
2-Hexanone	10	10	ug/L	10		104	70-130	2	30	12/12/13		
4-Chlorotoluene	10	0.50	ug/L	10		104	70-130	4	30	12/12/13		
4-Methyl-2-pentanone	13	5.0	ug/L	10		131	70-130	2	30	12/12/13	BS	***High***
Acetone	10	10	ug/L	10		102	70-130	1	30	12/12/13		
Benzene	11	0.50	ug/L	10		108	70-130	1	30	12/12/13		
Bromobenzene	11	0.50	ug/L	10		106	70-130	1	30	12/12/13		
Bromochloromethane	10	0.50	ug/L	10		100	70-130	6	30	12/12/13		
Bromodichloromethane	10	0.50	ug/L	10		101	70-130	3	30	12/12/13		
Bromoform	10	0.50	ug/L	10		104	70-130	2	30	12/12/13		
Bromomethane	11	0.50	ug/L	10		110	70-130	2	30	12/12/13		
Carbon Tetrachloride	11	0.50	ug/L	10		105	70-130	3	30	12/12/13		
Chlorobenzene	10	0.50	ug/L	10		102	70-130	2	30	12/12/13		
Chloroethane	10	0.50	ug/L	10		102	70-130	6	30	12/12/13		
Chloroform	10	0.50	ug/L	10		102	70-130	3	30	12/12/13		
Chloromethane	9.5	0.50	ug/L	10		95	70-130	14	30	12/12/13		
cis-1,2-Dichloroethene	11	0.50	ug/L	10		106	70-130	3	30	12/12/13		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		108	70-130	1	30	12/12/13		
Dibromochloromethane	9.9	0.50	ug/L	10		99	70-130	3	30	12/12/13		
Dibromomethane	10	0.50	ug/L	10		103	70-130	4	30	12/12/13		
Dichlorodifluoromethane	9.4	0.50	ug/L	10		94	70-130	10	30	12/12/13		
Dichloromethane	10	0.50	ug/L	10		103	70-130	3	30	12/12/13		
Di-isopropyl ether (DIPE)	10	3.0	ug/L	10		102	70-130	1	30	12/12/13		
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		104	70-130	1	30	12/12/13		
Ethylbenzene	10	0.50	ug/L	10		105	70-130	1	30	12/12/13		
Hexachlorobutadiene	11	0.50	ug/L	10		106	70-130	3	30	12/12/13		
Isopropylbenzene	10	0.50	ug/L	10		102	70-130	3	30	12/12/13		
m,p-Xylenes	21	0.50	ug/L	20		103	70-130	1	30	12/12/13		
Methyl-t-butyl ether	21	0.50	ug/L	20		103	70-130	1	30	12/12/13		
Naphthalene	10	0.50	ug/L	10		102	70-130	1	30	12/12/13		
n-Butylbenzene	10	0.50	ug/L	10		104	70-130	3	30	12/12/13		
n-Propylbenzene	10	0.50	ug/L	10		103	70-130	2	30	12/12/13		
o-Xylene	10	0.50	ug/L	10		103	70-130	2	30	12/12/13		
p-Isopropyltoluene	10	0.50	ug/L	10		103	70-130	2	30	12/12/13		
sec-Butylbenzene	10	0.50	ug/L	10		103	70-130	2	30	12/12/13		
Styrene	7.5	0.50	ug/L	10		75	70-130	17	30	12/12/13		
tert-Amyl Methyl Ether (TAME)	10	3.0	ug/L	10		104	70-130	1	30	12/12/13		
tert-Butyl alcohol (TBA)	11	2.0	ug/L	10		105	70-130	12	30	12/12/13		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A314729										Prepared: 12/12/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike Dup (A314729-BSD1)											
tert-Butylbenzene	10	0.50	ug/L	10		103	70-130	2	30	12/12/13	
Tetrachloroethene (PCE)	10	0.50	ug/L	10		104	70-130	1	30	12/12/13	
Toluene	10	0.50	ug/L	10		104	70-130	2	30	12/12/13	
trans-1,2-Dichloroethene	10	0.50	ug/L	10		103	70-130	2	30	12/12/13	
trans-1,3-Dichloropropene	10	0.50	ug/L	10		102	70-130	3	30	12/12/13	
Trichloroethene (TCE)	10	0.50	ug/L	10		104	70-130	0	30	12/12/13	
Trichlorofluoromethane	11	5.0	ug/L	10		107	70-130	1	30	12/12/13	
Vinyl Chloride	10	0.50	ug/L	10		100	70-130	8	30	12/12/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*96*	*70-130*			12/12/13	
Surrogate: Bromofluorobenzene	*50*			*50*		*99*	*70-130*			12/12/13	
EPA 525.2 - Quality Control											
Batch: A314794										Prepared: 12/13/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank (A314794-BLK1)											
Alachlor	ND	1.0	ug/L							12/14/13	
Atrazine	ND	0.50	ug/L							12/14/13	
Benzo(a)pyrene	ND	0.10	ug/L							12/14/13	
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							12/14/13	
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							12/14/13	
Bromacil	ND	1.0	ug/L							12/14/13	
Butachlor	ND	0.38	ug/L							12/14/13	
Diazinon	ND	0.25	ug/L							12/14/13	
Dimethoate	ND	10	ug/L							12/14/13	
Metolachlor	ND	0.50	ug/L							12/14/13	
Metribuzin	ND	0.50	ug/L							12/14/13	
Molinate	ND	2.0	ug/L							12/14/13	
Propachlor	ND	0.50	ug/L							12/14/13	
Simazine	ND	1.0	ug/L							12/14/13	
Thiobencarb	ND	1.0	ug/L							12/14/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*5.0*		*101*	*70-130*			12/14/13	
Blank Spike (A314794-BS1)											
Alachlor	0.53	1.0	ug/L	0.50		105	70-130			12/14/13	
Atrazine	0.56	0.50	ug/L	0.50		110	70-130			12/14/13	
Benzo(a)pyrene	0.12	0.10	ug/L	0.10		115	70-130			12/14/13	
Bis(2-ethylhexyl) adipate	3.2	3.0	ug/L	3.0		106	70-130			12/14/13	
Bis(2-ethylhexyl) phthalate	3.2	3.0	ug/L	3.0		105	70-130			12/14/13	
Bromacil	2.6	1.0	ug/L	2.0		127	70-130			12/14/13	
Butachlor	1.4	0.38	ug/L	1.3		111	70-130			12/14/13	
Diazinon	0.038	0.25	ug/L	0.050		76	70-130			12/14/13	
Dimethoate	0.63	10	ug/L	0.50		125	70-130			12/14/13	
Metolachlor	2.8	0.50	ug/L	2.5		110	70-130			12/14/13	
Metribuzin	2.9	0.50	ug/L	2.5		115	70-130			12/14/13	
Molinate	2.6	2.0	ug/L	2.5		104	70-130			12/14/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A314794										Prepared: 12/13/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank Spike (A314794-BS1)											
Propachlor	2.7	0.50	ug/L	2.5		107	70-130			12/14/13	
Simazine	0.40	1.0	ug/L	0.35		114	70-130			12/14/13	
Thiobencarb	0.61	1.0	ug/L	0.50		121	70-130			12/14/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.9*			*5.0*		*97*	*70-130*			12/14/13	
Blank Spike Dup (A314794-BSD1)											
Alachlor	0.52	1.0	ug/L	0.51		102	70-130	3	30	12/14/13	
Atrazine	0.54	0.50	ug/L	0.51		106	70-130	4	30	12/14/13	
Benzo(a)pyrene	0.12	0.10	ug/L	0.10		120	70-130	5	30	12/14/13	
Bis(2-ethylhexyl) adipate	3.2	3.0	ug/L	3.0		105	70-130	1	30	12/14/13	
Bis(2-ethylhexyl) phthalate	3.2	3.0	ug/L	3.0		105	70-130	0	30	12/14/13	
Bromacil	2.4	1.0	ug/L	2.0		119	70-130	6	30	12/14/13	
Butachlor	1.4	0.38	ug/L	1.3		113	70-130	2	30	12/14/13	
Diazinon	0.036	0.25	ug/L	0.051		72	70-130	5	30	12/14/13	
Dimethoate	0.63	10	ug/L	0.51		125	70-130	0	30	12/14/13	
Metolachlor	2.8	0.50	ug/L	2.5		109	70-130	1	30	12/14/13	
Metribuzin	2.8	0.50	ug/L	2.5		109	70-130	5	30	12/14/13	
Molinate	2.8	2.0	ug/L	2.5		110	70-130	6	30	12/14/13	
Propachlor	2.7	0.50	ug/L	2.5		109	70-130	2	30	12/14/13	
Simazine	0.39	1.0	ug/L	0.35		111	70-130	2	30	12/14/13	
Thiobencarb	0.54	1.0	ug/L	0.51		106	70-130	13	30	12/14/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.1*			*5.1*		*101*	*70-130*			12/14/13	
Matrix Spike (A314794-MS1), Source: A3L0708-01											
Alachlor	0.47	1.0	ug/L	0.50	ND	93	70-130			12/14/13	
Atrazine	0.51	0.50	ug/L	0.50	ND	101	70-130			12/14/13	
Benzo(a)pyrene	0.13	0.10	ug/L	0.10	ND	126	70-130			12/14/13	
Bis(2-ethylhexyl) adipate	3.1	3.0	ug/L	3.0	ND	103	70-130			12/14/13	
Bis(2-ethylhexyl) phthalate	3.4	3.0	ug/L	3.0	ND	112	70-130			12/14/13	
Bromacil	2.5	1.0	ug/L	2.0	ND	123	70-130			12/14/13	
Butachlor	1.3	0.38	ug/L	1.3	ND	106	70-130			12/14/13	
Diazinon	0.043	0.25	ug/L	0.050	ND	86	70-130			12/14/13	
Dimethoate	0.63	10	ug/L	0.50	ND	126	70-130			12/14/13	
Metolachlor	2.5	0.50	ug/L	2.5	ND	100	70-130			12/14/13	
Metribuzin	2.8	0.50	ug/L	2.5	ND	111	70-130			12/14/13	
Molinate	2.7	2.0	ug/L	2.5	ND	108	70-130			12/14/13	
Propachlor	2.8	0.50	ug/L	2.5	ND	112	70-130			12/14/13	
Simazine	0.39	1.0	ug/L	0.35	ND	110	70-130			12/14/13	
Thiobencarb	0.56	1.0	ug/L	0.50	ND	112	70-130			12/14/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.1*			*5.0*		*101*	*70-130*			12/14/13	
EPA 531.1 - Quality Control											
Batch: A314582										Prepared: 12/9/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A314582-BLK1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A314582										Prepared: 12/9/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A314582-BLK1)											
3-Hydroxycarbofuran	ND	3.0	ug/L							12/09/13	
Aldicarb	ND	3.0	ug/L							12/09/13	
Aldicarb Sulfone	ND	2.0	ug/L							12/09/13	
Aldicarb Sulfoxide	ND	3.0	ug/L							12/09/13	
Carbaryl	ND	5.0	ug/L							12/09/13	
Carbofuran	ND	5.0	ug/L							12/09/13	
Methomyl	ND	2.0	ug/L							12/09/13	
Oxamyl	ND	20	ug/L							12/09/13	
Blank Spike (A314582-BS1)											
3-Hydroxycarbofuran	3.9	3.0	ug/L	4.2		94	80-120			12/10/13	
Aldicarb	3.8	3.0	ug/L	4.2		91	80-120			12/10/13	
Aldicarb Sulfone	4.1	2.0	ug/L	4.2		98	80-120			12/10/13	
Aldicarb Sulfoxide	4.1	3.0	ug/L	4.2		98	80-120			12/10/13	
Carbaryl	3.9	5.0	ug/L	4.2		93	80-120			12/10/13	
Carbofuran	4.0	5.0	ug/L	4.2		95	80-120			12/10/13	
Methomyl	4.0	2.0	ug/L	4.2		96	80-120			12/10/13	
Oxamyl	4.1	20	ug/L	4.2		99	80-120			12/10/13	
Blank Spike Dup (A314582-BSD1)											
3-Hydroxycarbofuran	4.1	3.0	ug/L	4.2		98	80-120	4	20	12/10/13	
Aldicarb	4.0	3.0	ug/L	4.2		95	80-120	5	20	12/10/13	
Aldicarb Sulfone	4.1	2.0	ug/L	4.2		99	80-120	1	20	12/10/13	
Aldicarb Sulfoxide	4.2	3.0	ug/L	4.2		100	80-120	2	20	12/10/13	
Carbaryl	4.0	5.0	ug/L	4.2		97	80-120	4	20	12/10/13	
Carbofuran	4.2	5.0	ug/L	4.2		100	80-120	5	20	12/10/13	
Methomyl	4.1	2.0	ug/L	4.2		98	80-120	2	20	12/10/13	
Oxamyl	4.1	20	ug/L	4.2		99	80-120	0	20	12/10/13	
Matrix Spike (A314582-MS1), Source: A3K1962-02											
3-Hydroxycarbofuran	3.9	3.0	ug/L	4.2	ND	95	65-135			12/10/13	
Aldicarb	4.0	3.0	ug/L	4.2	ND	96	65-135			12/10/13	
Aldicarb Sulfone	4.0	2.0	ug/L	4.2	ND	96	65-135			12/10/13	
Aldicarb Sulfoxide	4.0	3.0	ug/L	4.2	ND	95	65-135			12/10/13	
Carbaryl	3.8	5.0	ug/L	4.2	ND	85	65-135			12/10/13	
Carbofuran	3.9	5.0	ug/L	4.2	ND	93	65-135			12/10/13	
Methomyl	3.8	2.0	ug/L	4.2	ND	85	65-135			12/10/13	
Oxamyl	3.9	20	ug/L	4.2	ND	91	65-135			12/10/13	
EPA 547 - Quality Control											
Batch: A314544										Prepared: 12/9/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank (A314544-BLK1)											
Glyphosate	ND	25	ug/L							12/09/13	
Surrogate: AMPA	*91*			*100*		*91*	*70-130*			12/09/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 547 - Quality Control											
Batch: A314544										Prepared: 12/9/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank Spike (A314544-BS1)											
Glyphosate	95	25	ug/L	100		95	70-130			12/09/13	
Surrogate: AMPA	*97*			*100*		*97*	*70-130*			12/09/13	
Blank Spike Dup (A314544-BSD1)											
Glyphosate	100	25	ug/L	100		100	70-130	5	30	12/09/13	
Surrogate: AMPA	*91*			*100*		*91*	*70-130*			12/09/13	
Matrix Spike (A314544-MS1), Source: A3L0226-01											
Glyphosate	100	25	ug/L	100	ND	98	70-130			12/09/13	
Surrogate: AMPA	*99*			*100*		*97*	*70-130*			12/09/13	
Matrix Spike Dup (A314544-MSD1), Source: A3L0226-01											
Glyphosate	110	25	ug/L	100	ND	104	70-130	6	30	12/09/13	
Surrogate: AMPA	*94*			*100*		*93*	*70-130*			12/09/13	
EPA 548.1 - Quality Control											
Batch: A314594										Prepared: 12/9/2013	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A314594-BLK1)											
Endothall	ND	45	ug/L							12/11/13	
Blank Spike (A314594-BS1)											
Endothall	13	45	ug/L	20		64	60-111			12/11/13	
Blank Spike Dup (A314594-BSD1)											
Endothall	15	45	ug/L	20		77	60-111	19	46	12/11/13	
Matrix Spike (A314594-MS1), Source: A3L0383-01											
Endothall	ND	45	ug/L	20	ND	0	10-122			12/11/13	MS1.0 ***Low***
EPA 549.2 - Quality Control											
Batch: A314617										Prepared: 12/10/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A314617-BLK1)											
Diquat	ND	4.0	ug/L							12/16/13	
Blank Spike (A314617-BS1)											
Diquat	3.7	4.0	ug/L	4.0		92	70-130			12/16/13	
Blank Spike Dup (A314617-BSD1)											
Diquat	3.7	4.0	ug/L	4.0		93	70-130	1	30	12/16/13	
Matrix Spike (A314617-MS1), Source: A3L0576-01											
Diquat	3.5	4.0	ug/L	4.0	ND	88	70-130			12/16/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual

EPA 549.2 - Quality Control

Batch: A314617 Prepared: 12/10/2013

Prep Method: EPA 549.2 Analyst: PYA

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of California - ELAP	1180	State of Nevada	CA000792009A
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA
State of California - NELAP	04227CA	State of Oregon	4017
State of Washington	C997	State of Oregon - NWTPH	4021

BSK is not accredited under the NELAC program for the following parameters:

Boron
Silica (SiO2)
Strontium
Threshold Odor

A3L0508

California American Water

Calif3295

12062013

Turnaround: Standard

Due Date: 12/20/2013

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BSK Associates Engineers & Laboratories
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

*Required Fields

Temp: 3.3

Company/Client Name*:	Report Attention*:	Invoice To*:	Phone*:	Fax*:
California American Water	Travis Peterson Additional cc's: Sarp Sekeroglu, RBF Consulting	Accounts Payable PO#:	(831) 646-3295/(831) 646-3269	(831) 333-1343
			E-mail*: susan.jacobson@amwater.com,travis.peterson@amwater.com	

Address*:	City*:	State*:	Zip*:
PO Box 951	Monterey	CA	93942-0951

Project: Water Quality Analysis – MPWSP

Project #:

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type:

How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail

Sampler Name (Printed/Signature)*: Nathan Reynolds

TAT* **Surcharge
☒ Standard - 10 Business Days
☐ **Rush: Date Needed

Regulatory Carbon Copies: CDPH ☐ ☐ Fresno Co; Merced Co ☐ ☐ Tulare Co; Madera Co ☐ ☐ Other:

Regulatory Compliance: ☐ EDT to California DPH; System Number*: ; ☐ Geotracker #:

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	Alkalinity, Hardness, MBAS,Color, Odor, TDS, pH, Turbidity, EC	Mass Balance-Dissolved: Cations and Anions	Dissolved Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na, Sr, silica	Total Metals: Al, As, Cu, Fe, Mn, Zn	Dissolved: Bromide, Chloride, Nitrite, Fluoride, Sulfate, Orthophosphate-P	Dissolved: Ammonia, TKN, Phosphorus	Nitrate+Nitrite as N, Nitrate-NO3,	EPA 524, 504, 505, 515, 525, 531, 547, 548, 549	EXT-Tritium, EXT-Lithium, EXT-Dissolved Iodide, EXT-Dioxin
26	ML-4 Zone #1 (163.5 – 173.5 ft bgs)	12-5-13	10:25	water	Seawater salinity levels.	X	X	X	X	X	X	X	X	X
					Lab to filter dissolved metals.									
					Lab to filter Diss. Ammonia, TKN, P									
					~~Okay to analyze out of holdtime.~~									

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Nathan Reynolds	GEOSCIENCE				
	RBF Consulting	12/5	1:50 pm		
		12/6	1243		

Payment Received at Delivery: Date: Amount: PIA#: Check / Cash Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier:

Cooling Method: Wet Blue None

Custody Seal: Y N

Chilling Process Begun: Y N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA	
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA	
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No	
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No	
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA	

Bottles Received — "—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1					
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—	2C,1B,1A					
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—	2B					
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N	1A				12/6/13	
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N					NR	
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—	2C,1B,1A					
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2C,2A					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	4V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—	1A					
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG) Kerr Jar	—	—	1C					
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: JR @ 1330 Labels checked by: [illegible] @ 13:35 RUSH Paged by: @

External

A3L0508

Maxxam

nelac

Your Project #: A3L0508
Your C.O.C. #: na

Attention:Michael Ng

BSK Analytical Laboratories
1414 Stanislaus Street
Fresno, CA
USA 93706

Report Date: 2014/01/02

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B3L4273
Received: 2013/12/11, 12:00

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
2,3,7,8-TCDD in Water (1613B)	1	2013/12/17	2013/12/20	BRL SOP-00410	EPA 1613B mod.

Remarks:

The lab certifies that the test results meet all requirements of NELAC, where applicable.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

U = Undetected at the limit of quantitation.
J = Estimated concentration between the EDL & RDL.
B = Blank Contamination.
Q = One or more quality control criteria failed.

Encryption Key

Ivana Vukovic
03 Jan 2014 10:48:30 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ivana Vukovic, Env Project Manager
Email: IVukovic@maxxam.ca
Phone# (905) 817-5700

==========

This report has been generated and distributed using a secure automated process.
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics Inc. is a NELAC accredited laboratory. Certificate # CANA001. Use of the NELAC logo however does not insure that Maxxam is accredited for all of the methods indicated. This certificate shall not be reproduced except in full, without the written approval of Maxxam Analytics Inc.

Total Cover Pages : 1

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam

Maxxam Job #: B3L4273
Report Date: 2014/01/02

BSK Analytical Laboratories
Client Project #: A3L0508

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		UG2716						
Sampling Date		2013/12/05 10:25						
COC Number		na			TOXIC EQUIVALENCY		# of	
	Units	A3L0508-01	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	1.1 U	1.1	4.1	1.00	1.10		3463429
TOTAL TOXIC EQUIVALENCY	pg/L					1.10		
Surrogate Recovery (%)								
37CL4 2378 Tetra CDD *	%	130						3463429
C13-2378 TetraCDD *	%	142						3463429

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

* CDD = Chloro Dibenzo-p-Dioxin

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Maxxam

Maxxam Job #: B3L4273
Report Date: 2014/01/02

BSK Analytical Laboratories
Client Project #: A3L0508

TEST SUMMARY

Maxxam ID: UG2716
Sample ID: A3L0508-01
Matrix: Water

Collected: 2013/12/05
Shipped:
Received: 2013/12/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
2,3,7,8-TCDD in Water (1613B)	HRMS/MS	3463429	2013/12/17	2013/12/20	Cathy Xu

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario L5N 2L8 Tel: (905) 817-5700 Toll Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam

Maxxam Job #: B3L4273
Report Date: 2014/01/02

BSK Analytical Laboratories
Client Project #: A3L0508

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817 5700 Toll Free: 800 563 6266 Fax: (905) 817 5777 www.maxxam.ca

Maxxam

Maxxam Job #: B3L4273
Report Date: 2014/01/02

BSK Analytical Laboratories
Client Project #: A3L0508

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	Units	QC Limits
3463429	CXU	Spiked Blank	2,3,7,8-Tetra CDD	2013/12/20		90	%	67 - 158
			37CL4 2378 Tetra CDD	2013/12/20		100	%	40 - 130
			C13-2378 TetraCDD	2013/12/20		101	%	24 - 164
3463429	CXU	Method Blank	2,3,7,8-Tetra CDD	2013/12/20	1.9, EDL=1.9		pg/L	
			37CL4 2378 Tetra CDD	2013/12/20		109	%	40 - 130
			C13-2378 TetraCDD	2013/12/20		114	%	24 - 164

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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Maxxam

Maxxam Job #: B3L4273
Report Date: 2014/01/02

BSK Analytical Laboratories
Client Project #: A3L0508

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Owen Cosby, BSc.C.Chem, Supervisor, HRMS Services

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Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

BSK Analytical Laboratories

SUBCONTRACT ORDER

A3L0508

11-Dec-13 12:00
Ivana Vukovic
B3L1273
FW LNV-898

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno CA 93706
Phone 559-485-2668
Fax 559-485-5835
Project Manager Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Maxxam Analytics
PO Box 574437 Station A
Toronto ON M5W5M5
Phone (905) 817-5754
Fax
Turnaround (Days) standard
QC Deliverables I Sig. III IV

Sample ID	Samp Desc	Sample Date
A3L0508-01	MW-4 Zone 3A (195.6 173.5 ft bgs.	12/05/2013 10:25

Matrix: Water

Analysis (1) ~ AL w/ None
FXT-Dioxin-DW matrix: EPA 1613 2,3,7,8-TCDF

Relinquished By _____ Date 12/10/13 Received By FANG WANG Date 2013/12/11 12:00

Relinquished By _____ Date _____ Received By _____ Date _____

3.1/3.9/4.2.2

Page 1 of 3

Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1964

Certificate of Analysis

Report Date: 12/17/13 11:09
Received Date: 12/10/13 09:45
Turnaround Time: Normal

Project: A3L0508

Phones: (559) 497-2888
Fax: (559) 485-6935

P.O. #:

Attn: Michael Ng

Client: BSK Analytical Laboratories
550 West Locust Avenue
Fresno, CA 93650

Dear Michael Ng :

Enclosed are the results of analyses for samples received 12/10/2013 with the Chain of Custody document. The samples were received in good condition, at 3.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 3L10011-01 **Sample ID:** A3L0508-01 **Matrix:** Water
Sampled by: Client **Sampled:** 12/05/13 10:25

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lithium, Total	240		10	ug/l	1	EPA 200.7	12/10/13	12/11/13 13:08	W3L0516	
Iodide, Dissolved	640		250	ug/l	25	EPA 9056A	12/12/13	12/12/13 22:54	W3L0678	

Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1954

Certificate of Analysis

Quality Control Section

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W3L0678 - EPA 9056A

Blank (W3L0678-BLK1) — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		ND		ug/l					

LCS (W3L0678-BS1) — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		38.9		ug/l	40.0	97	85-115		

Duplicate (W3L0678-DUP1) — Source: 3L03045-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	623	661		ug/l				6	20

Duplicate (W3L0678-DUP2) — Source: 3L03048-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	378	336		ug/l				12	20

Duplicate (W3L0678-DUP3) — Source: 3L10011-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	644	658		ug/l				2	20

Matrix Spike (W3L0678-MS1) — Source: 3L10011-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	644	1100		ug/l	500	92	80-120		

Matrix Spike Dup (W3L0678-MSD1) — Source: 3L10011-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	644	1100		ug/l	500	92	80-120	0.2	20

Metals by EPA 200 Series Methods - Quality Control

Batch W3L0516 - EPA 200.7

Blank (W3L0516-BLK1) — Prepared: 12/10/13 Analyzed: 12/11/13 12:56

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		ND		ug/l					

LCS (W3L0516-BS1) — Prepared: 12/10/13 Analyzed: 12/11/13 12:59

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		965		ug/l	1000	97	85-115		

Matrix Spike (W3L0516-MS1) — Source: 3L10044-04 — Prepared: 12/10/13 Analyzed: 12/11/13 13:29

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	37.3	1020		ug/l	1000	98	70-130		

Matrix Spike Dup (W3L0516-MSD1) — Source: 3L10044-04 — Prepared: 12/10/13 Analyzed: 12/11/13 13:32

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	37.3	995		ug/l	1000	96	70-130	2	30

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature
Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

BSK Analytical Laboratories
Engineers & Laboratories

SUBCONTRACT ORDER

A3L0508

3L10011

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Weck Laboratories, Inc.
14859 E Clark Avenue
City of Industry, CA 91745-1396
Phone :(626) 336-2139
Fax: (626) 336-2634
Turnaround (Days): Standard
QC Deliverables: I SIII III IV

Sample ID	Samp Desc	Sample Date
A3L0508-01	ML-4 Zone #4 (163.5-173.5 ft. bgs)	12/05/2013 10:25

Matrix: Water

Analysis (17) LP w/ none

EXT-Iodide
EXT-Miscellaneous
Dissolved
Lithium

Released By	Date	Received By	Date
	12/9/13	Ontrac	3:1
Ontrac		Jaime Gomez	12/10/13 09:45

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Sample Receipt Acknowledgement

WORK ORDER: 3L10011
Printed: 12/11/2013 11:57:33AM

Client: BSK Analytical Laboratories
Project: Metals
Project Manager: Kim G Tu
Project Number: A3L0508

Report To:
BSK Analytical Laboratories
Michael Ng
550 West Locust Avenue
Fresno, CA 93650
Phone: (559) 497-2888
Fax: (559) 485-6935

Invoice To:
BSK Analytical Laboratories
Accounts Payable - Anise Foote
550 West Locust Avenue
Fresno, CA 93650
Phone :(559) 497-2888
Fax: (559) 485-6935

Date Due: **12/24/13 15:00 (10 day TAT)**

Received By: Adrian Talabis
Date Received: 12/10/13 09:45
Logged In By: Adrian Talabis
Date Logged In: 12/10/13 11:56

Samples Received at:	**3.1°C**	All containers intact:	**Yes**	Chain of custody completed	**Yes**
Number of Ice chests/packages:		Custody seals presen		Sample labels & COC agree	**Yes**
		Custody seals intact:		Samples preserved properly	**Yes**
Appropriate Sample Containers:		Samples received on ice		Sample volume sufficient	**Yes**
		Custody Seals	**No**	Sufficient holding time for all tests	**Yes**

Analysis	TAT	Expires	Comments
3L10011-01 A3L0508-01 [Water] Sampled 12/05/13 10:25 Pacific			
Iodide water 9056M_Diss	10	01/02/14 10:25	
200.7 Li	10	06/03/14 10:25	Preserved @ lab 10:10 On 12/10/13 by JG

Comments:

Kim Tu
Authorized Signature

12/11/2013
Date

Note:
If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

January 06, 2014

Mr. Michael Ng
BSK Analytical Laboratories
1414 Stanislaus St.
Fresno, CA 93706

RE: Project: A3L0508
Pace Project No.: 30109731

Dear Mr. Ng:
Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: A3L0508
Pace Project No.: 30109731

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: A3L0508
Pace Project No.: 30109731

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30109731001	**A3L0508-01**	Water	12/05/13 10:25	12/17/13 10:30

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Greensburg, PA 15601
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SAMPLE ANALYTE COUNT

Project: A3L0508
Pace Project No.: 30109731

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30109731001	**A3L0508-01**	EPA 906.0	SLA	1	PASI-PA

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Greensburg, PA 15601
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PROJECT NARRATIVE

Project: A3L0508
Pace Project No.: 30109731

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: BSK Analytical Laboratories
Date: January 06, 2014

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: A3L0508
Pace Project No.: 30109731

Sample: A3L0508-01 **Lab ID: 30109731001** Collected: 12/05/13 10:25 Received: 12/17/13 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**-118 ± 123 (231)**	pCi/L	12/21/13 15:24	10028-17-8	

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Greensburg, PA 15601
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QUALITY CONTROL DATA

Project: A3L0508
Pace Project No.: 30109731

QC Batch: RADC/18120 Analysis Method: EPA 906.0
QC Batch Method: EPA 906.0 Analysis Description: 906.0 Tritium
Associated Lab Samples: 30109731001

METHOD BLANK: 671627 Matrix: Water
Associated Lab Samples: 30109731001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	-43.1 ± 116 (211)	pCi/L	12/21/13 09:16	

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Greensburg, PA 15601
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QUALIFIERS

Project: A3L0508
Pace Project No.: 30109731

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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BSK Analytical Laboratories

SUBCONTRACT ORDER

A3L0508

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Radiochem
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600
Fax: (724) 722-5208
Turnaround (Days): Standard
QC Deliverables: I II III IV

30109781

Sample ID	Samp Desc	Sample Date
A3L0508-01	ML-4 Zone #4 (163.5-173.5 ft. bgs)	12/05/2013 10:25 001

Matrix: Water

Analysis 250 mL Ab w/ NONE
EXT-Tritium — Non preserved glass container

Released By 12/10/13 Date — Received By Date

Released By Date — Received By Date

Sample Condition Upon Receipt

Pace Analytical

Client Name: BSC

Project # 30109731

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 12 5Y6 921 03 6191 4459

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 5 6 7 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature N/A Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: [illegible]

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed MAT / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 12/18/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

page 2

Project Number: 30109731

Client Name:

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
61	W	1																						

SCURF Back (C016-4 15May2012).xls

QA Assessment Spreadsheet
PACE Analytical Services

Quality Control Sample Performance Assessment

Pace Analytical

Analyst:	SJA		
Date:	12/23/2013	Method:	EPA 906.0
Worklist:	15120	SOP:	PGH-R-021
Matrix:	GW	MB Sample ID:	571027

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	-43.1230	116.3000	210.6000	106.270000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	12/23/13 1:31	12/23/13 2:37				
Spike I.D.:	10.002	10.003				
Spike Concentration (pCi/L):	2511.796	2511.779				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.110	0.112				
Target Conc. (pCi/L, g, F):	2285.113	2252.717				
1.96 Sigma Uncertainty (Calculated):	82.765	81.515				
Result (pCi/L, g, F):	2381.980	2053.030				
1.96 Sigma Unc.:	223.900	217.900				
% Recovery:	94.92%	81.74%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y					
Analyte:	Tritium					
Sample I.D.:	05519725					
Duplicate Sample I.D.:	LCSD13123					
Sample Result (pCi/L, g, F):	2381.8800					
1.96 Sigma Unc.:	223.9000					
Sample Duplicate Result (pCi/L, g, F):	2053.0300					
Duplicate Sample 1.96 Sigma Unc.:	217.9000					
Either results below MDC?	N					
Relative Percent Difference:	1.39%					
Assessment:	Pass					
% RPD Limit:	25.00%					

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Sample Matrix Spike Control Assessment

Analyte:	Tritium	Tritium	
Sample Collection Date:	12/6/2013	12/13/2013	
Sample I.D.	30109532001	30109729001	
Sample MS I.D.	30109532001MS	30109729001MS	
Sample MSD I.D.			
Spike I.D.:	10.003	10.002	
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2517.894	2516.037	
Spike Volume Used in MS (mL):	0.20	0.20	
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	0.1067	0.1020	
MS Target Conc.(pCi/L, g, F):	4739.576	4931.445	
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike uncertainty (calculated):	128.506	135.319	
MSD Spike uncertainty (calculated):			
Sample Result:	3490.280	38.060	
Sample 1.96 Sigma Unc.:	224.300	123.700	
Sample Matrix Spike Result:	7693.995	4546.940	
Sample MS 1.96 Sigma Unc.:	326.600	408.800	
Sample Matrix Spike Duplicate Result:			
Sample MSD 1.96 Sigma Unc.:			
MS % Recovery:	90.70%	92.88%	
MSD % Recovery:			
MS Assessment:	Pass	Pass	
MSD Assessment:			
MS/MSD Upper % Recovery Limits:	125.00%	125.00%	
MS/MSD Lower % Recovery Limits:	75.00%	75.00%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments

QC Sheet.frxg
Printed: 1/6/2014 11:44 AM

1 of 1

Rad QC Templates(2011)-2 31Aug2011.xls

QA Assessment Spreadsheet
PACE Analytical Services

Quality Control Sample Performance Assessment

Pace Analytical

Analyst:	SLA		
Date:	12/23/2013	Method:	EPA 906.0
Worklist:	16120	SOP:	PCH-R-027
Matrix:	DW	MB Sample ID:	671627

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	-42.1202	116.3000	210.8000	106.27000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	12/23/13 1:35	12/23/13 0:37				
Spike I.D.:	10-003	10-003				
Spike Concentration (pCi/L):	2510.786	2511.729				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.110	0.112				
Target Conc. (pCi/L, g, F):	2285.313	2252.717				
1.96 Sigma Uncertainty (Calculated):	62.703	61.615				
Result (pCi/L, g, F):	2061.850	2053.000				
1.96 Sigma Unc:	223.100	217.900				
% Recovery:	90.20%	91.14%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y					
Analyte:	Tritium					
Sample I.D.:	LCS16120					
Duplicate Sample I.D.	LCSD16120					
Sample Result (pCi/L, g, F):	2061.8500					
1.96 Sigma Unc.:	223.0000					
Sample Duplicate Result (pCi/L, g, F):	2053.0000					
Duplicate Sample 1.96 Sigma Unc.	217.9000					
Either results below MDC?	N					
Relative Percent Difference:	1.39%					
Assessment:	Pass					
% RPD Limit:	25.00%					

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Analyte:	Tritium	Tritium	
Sample Collection Date:	12/6/2013	12/13/2013	
Sample I.D.:	30109312001	30109322001	
Sample MS I.D.	30109312001MS	30109322001MS	
Sample MSD I.D.			
Spike I.D.	10-003	10-003	
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2517.894	2513.037	
Spike Volume Used in MS (mL):	0.20	0.20	
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	0.1007	0.1020	
MS Target Conc. (pCi/L, g, F):	4713.576	4931.445	
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike uncertainty (calculated):	129.505	135.319	
MSD Spike uncertainty (calculated):			
Sample Result:	3424.350	4356.060	
Sample 1.96 Sigma Unc.:	289.900	123.700	
Sample Matrix Spike Result:	7693.890	4566.980	
Sample MS 1.96 Sigma Unc.:	376.000	309.600	
Sample Matrix Spike Duplicate Result:			
Sample MSD 1.96 Sigma Unc.:			
MS % Recovery:	87.90%	92.98%	
MSD % Recovery:			
MS Assessment:	Pass	Pass	
MSD Assessment:			
MS/MSD Upper % Recovery Limits:	125.00%	125.00%	
MS/MSD Lower % Recovery Limits:	75.00%	75.00%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.:			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

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CERTIFICATE OF ANALYSIS

Client:	California American Water-Monterey P.O.BOX 951 Monterey CA, 93942-0951	**Report Date:**	01/06/14 12:51
		Received Date:	12/09/13 19:49
		Turn Around:	Normal
Attention:	Travis Peterson	**Client Project:**	Water Quality Analysis- MPWSP
Phone:	(831) 464-3269		
Fax:	-		
Work Order(s):	3L09093		

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Travis Peterson :

Enclosed are the results of analyses for samples received 12/09/13 19:49 with the Chain of Custody document. The samples were received in good condition, at 3.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Hai Van Nguyen
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

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California American Water-Monterey
P.O.BOX 951
Monterey CA, 93942-0951

Date Received: 12/09/13 19:49
Date Reported: 01/06/14 12:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
ML-4 Zone # 2 (74.5-84.5 ftbgs)	Nathan Reynolds		3L09093-01	Water	12/06/13 12:25

ANALYSES

Anions by IC, EPA Method 300.0/300.1/326

Carbamates and Urea Pesticides

Chlorinated Herbicides

Chlorinated Pesticides and/or PCBs

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Diquat and Paraquat by EPA 549.2

Endothall By EPA 548.1

Fumigants by EPA Method 504.1

Glyphosate by EPA 547

Metals by EPA 200 Series Methods

Semivolatile Organic Compounds by GC/MS

Subcontracted Analyses

Volatile Organic Compounds by EPA Method 524.2

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California American Water-Monterey
P.O.BOX 951
Monterey CA, 93942-0951

Date Received: 12/09/13 19:49
Date Reported: 01/06/14 12:51

3L09093-01 **ML-4 Zone # 2 (74.5-84.5 ftbgs)**

Sampled: 12/06/13 12:25 **Sampled By:** Nathan Reynolds **Matrix:** Water

Anions by IC, EPA Method 300.0/300.1/326

Method: EPA 300.0 Batch: W3L0726 Prepared: 12/13/13 15:22 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chloride, Total	**4600**	250	mg/l	500	12/13/13 21:24	
Fluoride, Total	ND	0.50	mg/l	5	12/13/13 21:24	M-05
Sulfate as SO4	**420**	250	mg/l	500	12/13/13 21:24	

Method: EPA 300.1 Batch: W3L0650 Prepared: 12/12/13 13:00 Analyst: cwh

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Bromide	**16000**		1000	ug/l	100	12/13/13 17:23	
Surr: Dichloroacetate	*96 %*	Conc:*480*	*90-115*	%			

Carbamates and Urea Pesticides

Method: EPA 531.1 Batch: W3L0819 Prepared: 12/16/13 13:19 Analyst: cwh

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
3-Hydroxycarbofuran	ND	2.0	ug/l	1	12/17/13 01:13	
Aldicarb	ND	2.0	ug/l	1	12/17/13 01:13	
Aldicarb sulfone	ND	2.0	ug/l	1	12/17/13 01:13	
Aldicarb sulfoxide	ND	2.0	ug/l	1	12/17/13 01:13	
Carbaryl	ND	2.0	ug/l	1	12/17/13 01:13	
Carbofuran	ND	2.0	ug/l	1	12/17/13 01:13	
Methiocarb	ND	2.0	ug/l	1	12/17/13 01:13	
Methomyl	ND	2.0	ug/l	1	12/17/13 01:13	
Oxamyl	ND	2.0	ug/l	1	12/17/13 01:13	
Propoxur (Baygon)	ND	2.0	ug/l	1	12/17/13 01:13	

Chlorinated Herbicides

Method: EPA 515.3 Batch: W3L0427 Prepared: 12/09/13 19:54 Analyst: mxw

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
2,4,5-T	ND	0.20	ug/l	1	12/13/13 04:55	
2,4,5-TP (Silvex)	ND	0.20	ug/l	1	12/13/13 04:55	
2,4-D	ND	0.40	ug/l	1	12/13/13 04:55	
2,4-DB	ND	2.0	ug/l	1	12/13/13 04:55	
3,5-Dichlorobenzoic acid	ND	1.0	ug/l	1	12/13/13 04:55	
Acifluorfen	ND	0.40	ug/l	1	12/13/13 04:55	
Bentazon	ND	2.0	ug/l	1	12/13/13 04:55	
Dalapon	ND	0.40	ug/l	1	12/13/13 04:55	
DCPA	ND	0.10	ug/l	1	12/13/13 04:55	
Dicamba	ND	0.60	ug/l	1	12/13/13 04:55	
Dichloroprop	ND	0.30	ug/l	1	12/13/13 04:55	
Dinoseb	ND	0.40	ug/l	1	12/13/13 04:55	
Pentachlorophenol	ND	0.20	ug/l	1	12/13/13 04:55	
Picloram	ND	0.60	ug/l	1	12/13/13 04:55	

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California American Water-Monterey
P.O.BOX 951
Monterey CA, 93942-0951

Date Received: 12/09/13 19:49
Date Reported: 01/06/14 12:51

3L09093-01 **ML-4 Zone # 2 (74.5-84.5 ftbgs)**

Sampled: 12/06/13 12:25 **Sampled By:** Nathan Reynolds **Matrix:** Water

Chlorinated Herbicides

Method: EPA 515.3 Batch: W3L0427 Prepared: 12/09/13 19:54 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Surr: 2,4-DCAA	*83 %*	Conc:*8.27*	*70-130*	%			

Chlorinated Pesticides and/or PCBs

Method: EPA 508 Batch: W3L0474 Prepared: 12/10/13 10:12 Analyst: mxw

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
4,4´-DDD	ND		0.010	ug/l	1	12/17/13 09:43	
4,4´-DDE	ND		0.010	ug/l	1	12/17/13 09:43	
4,4´-DDT	ND		0.010	ug/l	1	12/17/13 09:43	
Aldrin	ND		0.010	ug/l	1	12/17/13 09:43	
alpha-BHC	ND		0.010	ug/l	1	12/17/13 09:43	
Aroclor 1016	ND		0.10	ug/l	1	12/17/13 09:43	
Aroclor 1221	ND		0.10	ug/l	1	12/17/13 09:43	
Aroclor 1232	ND		0.10	ug/l	1	12/17/13 09:43	
Aroclor 1242	ND		0.10	ug/l	1	12/17/13 09:43	
Aroclor 1248	ND		0.10	ug/l	1	12/17/13 09:43	
Aroclor 1254	ND		0.10	ug/l	1	12/17/13 09:43	
Aroclor 1260	ND		0.10	ug/l	1	12/17/13 09:43	
beta-BHC	ND		0.010	ug/l	1	12/17/13 09:43	
Chlordane (tech)	ND		0.10	ug/l	1	12/17/13 09:43	
Chlorothalonil	ND		0.050	ug/l	1	12/17/13 09:43	
delta-BHC	ND		0.010	ug/l	1	12/17/13 09:43	
Dieldrin	ND		0.010	ug/l	1	12/17/13 09:43	
Endosulfan I	ND		0.010	ug/l	1	12/17/13 09:43	
Endosulfan II	ND		0.010	ug/l	1	12/17/13 09:43	
Endosulfan sulfate	ND		0.010	ug/l	1	12/17/13 09:43	
Endrin	ND		0.010	ug/l	1	12/17/13 09:43	
Endrin aldehyde	ND		0.010	ug/l	1	12/17/13 09:43	
gamma-BHC (Lindane)	ND		0.010	ug/l	1	12/17/13 09:43	
Heptachlor	ND		0.010	ug/l	1	12/17/13 09:43	
Heptachlor epoxide	ND		0.010	ug/l	1	12/17/13 09:43	
Hexachlorobenzene	ND		0.010	ug/l	1	12/17/13 09:43	
Hexachlorocyclopentadiene	ND		0.050	ug/l	1	12/17/13 09:43	
Methoxychlor	ND		0.010	ug/l	1	12/17/13 09:43	
PCBs, Total	ND		0.50	ug/l	1	12/17/13 09:43	
Propachlor	ND		0.050	ug/l	1	12/17/13 09:43	
Toxaphene	ND		1.0	ug/l	1	12/17/13 09:43	
Trifluralin	ND		0.010	ug/l	1	12/17/13 09:43	
Surr: Decachlorobiphenyl	*83 %*	Conc:*0.0788*	*70-130*	%			
Surr: Tetrachloro-meta-xylene	*92 %*	Conc:*0.0877*	*70-130*	%			

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Date Received: 12/09/13 19:49
Date Reported: 01/06/14 12:51

3L09093-01 ML-4 Zone # 2 (74.5-84.5 ftbgs)

Sampled: 12/06/13 12:25 **Sampled By:** Nathan Reynolds **Matrix:** Water

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: EPA 140.1 Batch: W3L0372 Prepared: 12/07/13 12:00 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Threshold Odor Number	**1.0**	1.0	T.O.N.	1	12/07/13 12:30	

Method: EPA 180.1 Batch: W3L0373 Prepared: 12/07/13 11:30 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Turbidity	**2.8**	0.10	NTU	1	12/07/13 11:55	

Method: EPA 350.1 Batch: W3L0783 Prepared: 12/16/13 10:05 Analyst: rjs

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Ammonia as N, Dissolved	**1.7**	0.20	mg/l	2	12/16/13 16:55	

Method: EPA 351.2 Batch: W3L0717 Prepared: 12/13/13 12:12 Analyst: rjs

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
TKN, Soluble	**0.15**	0.10	mg/l	1	12/19/13 12:07	

Method: EPA 353.2 Batch: W3L0369 Prepared: 12/07/13 15:00 Analyst: mbc

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Nitrate as NO3	ND	0.50	mg/l	1	12/07/13 16:24	
NO2+NO3 as N	ND	100	ug/l	1	12/07/13 15:19	

Method: EPA 365.3 Batch: W3L0379 Prepared: 12/07/13 14:45 Analyst: ajp

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
o-Phosphate as P	**0.077**	0.010	mg/l	1	12/07/13 18:32	**

Method: EPA 365.3 Batch: W3L0675 Prepared: 12/12/13 16:24 Analyst: ajp

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Phosphorus, Dissolved	**0.047**	0.010	mg/l	1	12/19/13 11:48	

Method: SM 2120B Batch: W3L0371 Prepared: 12/07/13 11:30 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Color	ND	3.0	Color Units	1	12/07/13 11:40	

Method: SM 2320B Batch: W3L0691 Prepared: 12/13/13 08:27 Analyst: ajp

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alkalinity as CaCO3	**200**	2.0	mg/l	1	12/13/13 10:54	
Alkalinity as CaCO3	**200**	2.0	mg/l	1	12/13/13 10:54	
Bicarbonate Alkalinity as HCO3	**240**	2.0	mg/l	1	12/13/13 10:54	
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l	1	12/13/13 10:54	
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l	1	12/13/13 10:54	

Method: SM 2510B Batch: W3L0862 Prepared: 12/17/13 11:10 Analyst: ajp

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Date Received: 12/09/13 19:49
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3L09093-01 ML-4 Zone # 2 (74.5-84.5 ftbgs)

Sampled: 12/06/13 12:25 **Sampled By:** Nathan Reynolds **Matrix:** Water

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: SM 2510B Batch: W3L0862 Prepared: 12/17/13 11:10 Analyst: ajp

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Specific Conductance (EC)	**13000**	2.0	umhos/cm	1	12/17/13 12:58	

Method: SM 2540C Batch: W3L0566 Prepared: 12/11/13 10:57 Analyst: ajw

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Total Dissolved Solids	**8600**	10	mg/l	1	12/11/13 13:35	

Method: SM 4500H+-B Batch: W3L0378 Prepared: 12/07/13 13:40 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
pH	**6.79**	0.10	Units	1	12/07/13 18:47	*

Method: SM 5540C Batch: W3L0375 Prepared: 12/07/13 13:53 Analyst: nra

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
MBAS	ND	0.050	mg/l	1	12/07/13 13:56	

Method: Various Batch: [CALC] Prepared: 12/13/13 15:22 Analyst: atl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Total Anions	**140**	12	meq/l	500	12/13/13 21:24	

Diquat and Paraquat by EPA 549.2

Method: EPA 549.2 Batch: W3L0464 Prepared: 12/10/13 09:23 Analyst: cwh

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Diquat	ND	4.0	ug/l	1	12/11/13 13:51	

Endothall By EPA 548.1

Method: EPA 548.1 Batch: W3L0699 Prepared: 12/13/13 09:37 Analyst: abj

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Endothall	ND	45	ug/l	1	12/23/13 11:06	

Fumigants by EPA Method 504.1

Method: EPA 504.1 Batch: W3L0818 Prepared: 12/16/13 13:07 Analyst: jch

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l	1	12/20/13 00:14	
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	12/20/13 00:14	

Glyphosate by EPA 547

Method: EPA 547 Batch: W3L0486 Prepared: 12/10/13 11:37 Analyst: cwh

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Glyphosate	ND	5.0	ug/l	1	12/10/13 13:00	

Metals by EPA 200 Series Methods

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Date Received: 12/09/13 19:49
Date Reported: 01/06/14 12:51

3L09093-01 **ML-4 Zone # 2 (74.5-84.5 ftbgs)**

Sampled: 12/06/13 12:25 **Sampled By:** Nathan Reynolds **Matrix:** Water

Metals by EPA 200 Series Methods

Method: [CALC] Batch: [CALC] Prepared: 12/20/13 16:38 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Total Cations	**140**	0.037	meq/l	1	12/24/13 10:59	

Method: EPA 200.7 Batch: [CALC] Prepared: 12/20/13 16:38 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Calcium Hardness as CaCO3	**1830**	0.250	mg/l	1	12/24/13 10:59	

Method: EPA 200.7 Batch: W3L1101 Prepared: 12/20/13 16:38 Analyst: jck

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Barium, Dissolved	**0.34**	0.0020	mg/l	1	12/24/13 10:56	
Boron, Dissolved	**190**	10	ug/l	1	12/24/13 10:56	
Calcium, Dissolved	**730**	0.100	mg/l	1	12/24/13 10:56	
Calcium, Total	**734**	0.100	mg/l	1	12/24/13 10:59	
Iron, Dissolved	ND	20	ug/l	2	12/24/13 11:06	M-04
Iron, Total	**10**	0.010	mg/l	1	12/24/13 10:59	
Magnesium, Dissolved	**507**	0.100	mg/l	1	12/24/13 10:56	
Magnesium, Total	**512**	0.100	mg/l	1	12/24/13 10:59	
Manganese, Dissolved	**5000**	5.0	ug/l	1	12/24/13 10:56	
Manganese, Total	**5.1**	0.0050	mg/l	1	12/24/13 10:59	
Potassium, Dissolved	**36**	0.10	mg/l	1	12/24/13 10:56	
Potassium, Total	**37**	0.10	mg/l	1	12/24/13 10:59	
Silica as SiO2, Dissolved	**40**	0.10	mg/l	1	12/24/13 10:56	
Sodium, Dissolved	**1400**	0.50	mg/l	1	12/24/13 10:56	
Sodium, Total	**1400**	0.50	mg/l	1	12/24/13 10:59	
Strontium, Dissolved	**5300**	2.0	ug/l	1	12/24/13 10:56	

Method: EPA 200.8 Batch: W3L1103 Prepared: 12/20/13 16:44 Analyst: rrl

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Aluminum, Total	**17**	5.0	ug/l	1	12/27/13 01:50	
Arsenic, Total	**0.71**	0.40	ug/l	1	12/27/13 01:50	
Copper, Total	**11**	0.50	ug/l	1	12/27/13 01:50	
Zinc, Total	**29**	5.0	ug/l	1	12/27/13 01:50	

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2 Batch: W3L0431 Prepared: 12/10/13 10:34 Analyst: abj

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Alachlor	ND	0.10	ug/l	1	12/13/13 20:07	
Atrazine	ND	0.10	ug/l	1	12/13/13 20:07	
Benzo (a) pyrene	ND	0.10	ug/l	1	12/13/13 20:07	
Bis(2-ethylhexyl)adipate	ND	5.0	ug/l	1	12/13/13 20:07	
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/l	1	12/13/13 20:07	

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Date Received: 12/09/13 19:49
Date Reported: 01/06/14 12:51

3L09093-01 **ML-4 Zone # 2 (74.5-84.5 ftbgs)**

Sampled: 12/06/13 12:25 **Sampled By:** Nathan Reynolds **Matrix:** Water

Semivolatile Organic Compounds by GC/MS

Method: EPA 525.2 Batch: W3L0431 Prepared: 12/10/13 10:34 Analyst: abj

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Bromacil	ND		0.50	ug/l	1	12/13/13 20:07	
Butachlor	ND		0.10	ug/l	1	12/13/13 20:07	
Captan	ND		1.0	ug/l	1	12/13/13 20:07	
Chloropropham	ND		0.10	ug/l	1	12/13/13 20:07	
Cyanazine	ND		0.10	ug/l	1	12/13/13 20:07	
Diazinon	ND		0.10	ug/l	1	12/13/13 20:07	
Dimethoate	ND		0.20	ug/l	1	12/13/13 20:07	
Diphenamid	ND		0.10	ug/l	1	12/13/13 20:07	
Disulfoton	ND		0.10	ug/l	1	12/13/13 20:07	
EPTC	ND		0.10	ug/l	1	12/13/13 20:07	
Metolachlor	ND		0.10	ug/l	1	12/13/13 20:07	
Metribuzin	ND		0.10	ug/l	1	12/13/13 20:07	
Molinate	ND		0.10	ug/l	1	12/13/13 20:07	
Prometon	ND		0.10	ug/l	1	12/13/13 20:07	
Prometryn	ND		0.10	ug/l	1	12/13/13 20:07	
Simazine	ND		0.10	ug/l	1	12/13/13 20:07	
Terbacil	ND		2.0	ug/l	1	12/13/13 20:07	
Thiobencarb	ND		0.10	ug/l	1	12/13/13 20:07	
Trithion	ND		0.10	ug/l	1	12/13/13 20:07	
Surr: 1,3-Dimethyl-2-nitrobenzene	*99 %*	Conc:*4.94*	*73-138*	%			
Surr: Perylene-d12	*28 %*	Conc:*1.38*	*30-118*	%			*S-11*
Surr: Triphenyl phosphate	*105 %*	Conc:*5.24*	*70-149*	%			

Subcontracted Analyses

Method: EPA 906.0 Batch: W4A0158 Prepared: 12/19/13 15:48 Analyst: sub

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Tritium	**-110**		pCi/L	1	12/19/13 15:48	A-01
Counting Error (+/-): 130 MDA: 240						

Volatile Organic Compounds by EPA Method 524.2

Method: EPA 524.2 Batch: W3L0452 Prepared: 12/10/13 08:29 Analyst: mdt

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l	1	12/10/13 22:45	
1,1,1-Trichloroethane	ND	0.50	ug/l	1	12/10/13 22:45	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	1	12/10/13 22:45	
1,1,2-Trichloroethane	ND	0.50	ug/l	1	12/10/13 22:45	
1,1-Dichloroethane	ND	0.50	ug/l	1	12/10/13 22:45	
1,1-Dichloroethene	ND	0.50	ug/l	1	12/10/13 22:45	
1,1-Dichloropropene	ND	0.50	ug/l	1	12/10/13 22:45	
1,2,3-Trichlorobenzene	ND	0.50	ug/l	1	12/10/13 22:45	

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Date Received: 12/09/13 19:49
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3L09093-01 **ML-4 Zone # 2 (74.5-84.5 ftbgs)**

Sampled: 12/06/13 12:25 **Sampled By:** Nathan Reynolds **Matrix:** Water

Volatile Organic Compounds by EPA Method 524.2

Method: EPA 524.2 Batch: W3L0452 Prepared: 12/10/13 08:29 Analyst: mdt

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
1,2,3-Trichloropropane	ND	0.50	ug/l	1	12/10/13 22:45	
1,2,4-Trichlorobenzene	ND	0.50	ug/l	1	12/10/13 22:45	
1,2,4-Trimethylbenzene	ND	0.50	ug/l	1	12/10/13 22:45	
1,2-Dichloroethane	ND	0.50	ug/l	1	12/10/13 22:45	
1,2-Dichloropropane	ND	0.50	ug/l	1	12/10/13 22:45	
1,3,5-Trimethylbenzene	ND	0.50	ug/l	1	12/10/13 22:45	
1,3-Dichloropropane	ND	0.50	ug/l	1	12/10/13 22:45	
1,3-Dichloropropene, Total	ND	0.50	ug/l	1	12/10/13 22:45	
2,2-Dichloropropane	ND	0.50	ug/l	1	12/10/13 22:45	
2-Butanone	ND	5.0	ug/l	1	12/10/13 22:45	
2-Chloroethyl vinyl ether	ND	1.0	ug/l	1	12/10/13 22:45	
2-Chlorotoluene	ND	0.50	ug/l	1	12/10/13 22:45	
2-Hexanone	ND	5.0	ug/l	1	12/10/13 22:45	
4-Chlorotoluene	ND	0.50	ug/l	1	12/10/13 22:45	
4-Methyl-2-pentanone	ND	5.0	ug/l	1	12/10/13 22:45	
Benzene	ND	0.50	ug/l	1	12/10/13 22:45	
Bromobenzene	ND	0.50	ug/l	1	12/10/13 22:45	
Bromochloromethane	ND	0.50	ug/l	1	12/10/13 22:45	
Bromodichloromethane	ND	0.50	ug/l	1	12/10/13 22:45	
Bromoform	ND	0.50	ug/l	1	12/10/13 22:45	
Bromomethane	ND	0.50	ug/l	1	12/10/13 22:45	
Carbon tetrachloride	ND	0.50	ug/l	1	12/10/13 22:45	
Chlorobenzene	ND	0.50	ug/l	1	12/10/13 22:45	
Chloroethane	ND	0.50	ug/l	1	12/10/13 22:45	
Chloroform	ND	0.50	ug/l	1	12/10/13 22:45	
Chloromethane	ND	0.50	ug/l	1	12/10/13 22:45	
cis-1,2-Dichloroethene	ND	0.50	ug/l	1	12/10/13 22:45	
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	12/10/13 22:45	
Dibromochloromethane	ND	0.50	ug/l	1	12/10/13 22:45	
Dibromomethane	ND	0.50	ug/l	1	12/10/13 22:45	
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l	1	12/10/13 22:45	
Di-isopropyl ether	ND	2.0	ug/l	1	12/10/13 22:45	
Ethyl tert-butyl ether	ND	2.0	ug/l	1	12/10/13 22:45	
Ethylbenzene	ND	0.50	ug/l	1	12/10/13 22:45	
Freon 113	ND	5.0	ug/l	1	12/10/13 22:45	
Hexachlorobutadiene	ND	0.50	ug/l	1	12/10/13 22:45	
Isopropylbenzene	ND	0.50	ug/l	1	12/10/13 22:45	
m,p-Xylene	ND	0.50	ug/l	1	12/10/13 22:45	
m-Dichlorobenzene	ND	0.50	ug/l	1	12/10/13 22:45	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l	1	12/10/13 22:45	

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3L09093-01 **ML-4 Zone # 2 (74.5-84.5 ftbgs)**

Sampled: 12/06/13 12:25 **Sampled By:** Nathan Reynolds **Matrix:** Water

Volatile Organic Compounds by EPA Method 524.2

Method: EPA 524.2 Batch: W3L0452 Prepared: 12/10/13 08:29 Analyst: mdt

Analyte	Result		MRL	Units	Dil	Analyzed	Qualifier
Methylene chloride	ND		0.50	ug/l	1	12/10/13 22:45	
Naphthalene	ND		0.50	ug/l	1	12/10/13 22:45	
n-Butylbenzene	ND		0.50	ug/l	1	12/10/13 22:45	
n-Propylbenzene	ND		0.50	ug/l	1	12/10/13 22:45	
o-Dichlorobenzene	ND		0.50	ug/l	1	12/10/13 22:45	
o-Xylene	ND		0.50	ug/l	1	12/10/13 22:45	
p-Dichlorobenzene	ND		0.50	ug/l	1	12/10/13 22:45	
p-Isopropyltoluene	ND		0.50	ug/l	1	12/10/13 22:45	
sec-Butylbenzene	ND		0.50	ug/l	1	12/10/13 22:45	
Styrene	ND		0.50	ug/l	1	12/10/13 22:45	
Tert-amyl methyl ether	ND		2.0	ug/l	1	12/10/13 22:45	
tert-Butylbenzene	ND		0.50	ug/l	1	12/10/13 22:45	
Tetrachloroethene	ND		0.50	ug/l	1	12/10/13 22:45	
THMs, Total	ND		2.0	ug/l	1	12/10/13 22:45	
Toluene	ND		0.50	ug/l	1	12/10/13 22:45	
trans-1,2-Dichloroethene	ND		0.50	ug/l	1	12/10/13 22:45	
trans-1,3-Dichloropropene	ND		0.50	ug/l	1	12/10/13 22:45	
Trichloroethene	ND		0.50	ug/l	1	12/10/13 22:45	
Trichlorofluoromethane	ND		0.50	ug/l	1	12/10/13 22:45	
Vinyl chloride	ND		0.50	ug/l	1	12/10/13 22:45	
Xylenes, Total	ND		1.0	ug/l	1	12/10/13 22:45	
Surr: 1,2-Dichlorobenzene-d4	*81 %*	Conc:*8.06*	*70-130*	%			
Surr: 4-Bromofluorobenzene	*97 %*	Conc:*9.69*	*70-130*	%			

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QUALITY CONTROL SECTION

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Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W3L0650 - EPA 300.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0650-BLK1)				Analyzed: 12/13/13 17:23						
Bromide	ND	10	ug/l							
Surr: Dichloroacetate	*497*		*ug/l*	*500*		*99*	*90-115*			
LCS (W3L0650-BS1)				Analyzed: 12/13/13 17:23						
Bromide	106	10	ug/l	100		106	85-115			
Surr: Dichloroacetate	*480*		*ug/l*	*500*		*96*	*90-115*			
Matrix Spike (W3L0650-MS1)	**Source: 3L10068-02**			Analyzed: 12/13/13 17:23						
Bromide	102	10	ug/l	100	ND	102	73-125			
Surr: Dichloroacetate	*489*		*ug/l*	*500*		*98*	*90-115*			
Matrix Spike Dup (W3L0650-MSD1)	**Source: 3L10068-02**			Analyzed: 12/13/13 17:23						
Bromide	103	10	ug/l	100	ND	103	73-125	0.6	20	
Surr: Dichloroacetate	*500*		*ug/l*	*500*		*100*	*90-115*			

Batch W3L0726 - EPA 300.0

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0726-BLK1)				Analyzed: 12/13/13 21:24						
Chloride, Total	ND	0.50	mg/l							
Fluoride, Total	ND	0.10	mg/l							
Sulfate as SO4	ND	0.50	mg/l							
LCS (W3L0726-BS1)				Analyzed: 12/13/13 21:24						
Chloride, Total	3.93	0.50	mg/l	4.00		98	90-110			
Fluoride, Total	1.96	0.10	mg/l	2.00		98	90-110			
Sulfate as SO4	8.54	0.50	mg/l	8.00		107	90-110			
Matrix Spike (W3L0726-MS1)	**Source: 3L11073-01**			Analyzed: 12/13/13 21:24						
Chloride, Total	166	12	mg/l	100	69.0	97	76-118			
Fluoride, Total	47.9	2.5	mg/l	50.0	1.31	93	86-107			
Sulfate as SO4	499	12	mg/l	200	304	98	78-111			
Matrix Spike Dup (W3L0726-MSD1)	**Source: 3L11073-01**			Analyzed: 12/13/13 21:24						
Chloride, Total	166	12	mg/l	100	69.0	97	76-118	0.2	20	
Fluoride, Total	48.3	2.5	mg/l	50.0	1.31	94	86-107	0.8	20	
Sulfate as SO4	515	12	mg/l	200	304	105	78-111	3	20	

Carbamates and Urea Pesticides - Quality Control

Batch W3L0819 - EPA 531.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0819-BLK1)				Analyzed: 12/17/13 01:13						
3-Hydroxycarbofuran	ND	2.0	ug/l							
Aldicarb	ND	2.0	ug/l							
Aldicarb sulfone	ND	2.0	ug/l							
Aldicarb sulfoxide	ND	2.0	ug/l							

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Carbamates and Urea Pesticides - Quality Control

Batch W3L0819 - EPA 531.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0819-BLK1)				Analyzed: 12/17/13 01:13						
Carbaryl	ND	2.0	ug/l							
Carbofuran	ND	2.0	ug/l							
Methiocarb	ND	2.0	ug/l							
Methomyl	ND	2.0	ug/l							
Oxamyl	ND	2.0	ug/l							
Propoxur (Baygon)	ND	2.0	ug/l							
LCS (W3L0819-BS1)				Analyzed: 12/17/13 01:13						
3-Hydroxycarbofuran	10.6	2.0	ug/l	10.0		106	80-120			
Aldicarb	11.1	2.0	ug/l	10.0		111	80-120			
Aldicarb sulfone	10.6	2.0	ug/l	10.0		106	80-120			
Aldicarb sulfoxide	11.4	2.0	ug/l	10.0		114	80-120			
Carbaryl	11.6	2.0	ug/l	10.0		116	80-120			
Carbofuran	11.0	2.0	ug/l	10.0		110	80-120			
Methiocarb	11.5	2.0	ug/l	10.0		115	80-120			
Methomyl	10.5	2.0	ug/l	10.0		105	80-120			
Oxamyl	11.1	2.0	ug/l	10.0		111	80-120			
Propoxur (Baygon)	10.4	2.0	ug/l	10.0		104	80-120			
Matrix Spike (W3L0819-MS1)	**Source: 3L09082-05**			Analyzed: 12/17/13 01:13						
3-Hydroxycarbofuran	8.90	2.0	ug/l	10.0	ND	89	65-135			
Aldicarb	9.90	2.0	ug/l	10.0	ND	99	65-135			
Aldicarb sulfone	7.56	2.0	ug/l	10.0	ND	76	65-135			
Aldicarb sulfoxide	8.52	2.0	ug/l	10.0	ND	85	65-135			
Carbaryl	9.23	2.0	ug/l	10.0	ND	92	65-135			
Carbofuran	9.92	2.0	ug/l	10.0	ND	99	65-135			
Methiocarb	9.54	2.0	ug/l	10.0	ND	95	65-135			
Methomyl	8.36	2.0	ug/l	10.0	ND	84	65-135			
Oxamyl	8.08	2.0	ug/l	10.0	ND	81	65-135			
Propoxur (Baygon)	7.58	2.0	ug/l	10.0	ND	76	65-135			
Matrix Spike Dup (W3L0819-MSD1)	**Source: 3L09082-05**			Analyzed: 12/17/13 01:13						
3-Hydroxycarbofuran	7.88	2.0	ug/l	10.0	ND	79	65-135	12	30	
Aldicarb	9.44	2.0	ug/l	10.0	ND	94	65-135	5	30	
Aldicarb sulfone	8.02	2.0	ug/l	10.0	ND	80	65-135	6	30	
Aldicarb sulfoxide	9.49	2.0	ug/l	10.0	ND	95	65-135	11	30	
Carbaryl	9.66	2.0	ug/l	10.0	ND	97	65-135	5	30	
Carbofuran	8.36	2.0	ug/l	10.0	ND	84	65-135	17	30	
Methiocarb	7.58	2.0	ug/l	10.0	ND	76	65-135	23	30	
Methomyl	9.07	2.0	ug/l	10.0	ND	91	65-135	8	30	
Oxamyl	9.58	2.0	ug/l	10.0	ND	96	65-135	17	30	
Propoxur (Baygon)	7.77	2.0	ug/l	10.0	ND	78	65-135	3	30	

Chlorinated Herbicides - Quality Control

Batch W3L0427 - EPA 515.3

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Chlorinated Herbicides - Quality Control

Batch W3L0427 - EPA 515.3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0427-BLK1)				Analyzed: 12/12/13 17:48						
2,4,5-T	ND	0.20	ug/l							
2,4,5-TP (Silvex)	ND	0.20	ug/l							
2,4-D	ND	0.40	ug/l							
2,4-DB	ND	2.0	ug/l							
3,5-Dichlorobenzoic acid	ND	1.0	ug/l							
Acifluorfen	ND	0.40	ug/l							
Bentazon	ND	2.0	ug/l							
Dalapon	ND	0.40	ug/l							
DCPA	ND	0.10	ug/l							
Dicamba	ND	0.60	ug/l							
Dichloroprop	ND	0.30	ug/l							
Dinoseb	ND	0.40	ug/l							
Pentachlorophenol	ND	0.20	ug/l							
Picloram	ND	0.60	ug/l							
Surr: 2,4-DCAA	*7.91*		*ug/l*	*10.0*		*79*	*70-130*			
LCS (W3L0427-BS1)				Analyzed: 12/12/13 18:16						
2,4,5-T	3.65	0.20	ug/l	4.00		91	70-130			
2,4,5-TP (Silvex)	3.68	0.20	ug/l	4.00		92	70-130			
2,4-D	8.45	0.40	ug/l	8.00		106	70-130			
2,4-DB	12.3	2.0	ug/l	16.0		77	70-130			
3,5-Dichlorobenzoic acid	8.17	1.0	ug/l	8.00		102	70-130			
Acifluorfen	3.09	0.40	ug/l	4.00		77	70-130			
Bentazon	13.4	2.0	ug/l	16.0		84	70-130			
Dalapon	7.70	0.40	ug/l	8.00		96	70-130			
DCPA	3.36	0.10	ug/l	4.00		84	70-130			
Dicamba	7.08	0.60	ug/l	8.00		88	70-130			
Dichloroprop	8.47	0.30	ug/l	8.00		106	70-130			
Dinoseb	2.98	0.40	ug/l	4.00		74	70-130			
Pentachlorophenol	3.45	0.20	ug/l	4.00		86	70-130			
Picloram	3.81	0.60	ug/l	4.00		95	70-130			
Surr: 2,4-DCAA	*8.85*		*ug/l*	*10.0*		*89*	*70-130*			
Matrix Spike (W3L0427-MS1)	**Source: 3L04018-01**			Analyzed: 12/12/13 18:44						
2,4,5-T	3.55	0.20	ug/l	4.00	ND	89	70-130			
2,4,5-TP (Silvex)	3.59	0.20	ug/l	4.00	ND	90	70-130			
2,4-D	8.23	0.40	ug/l	8.00	ND	103	70-130			
2,4-DB	15.1	2.0	ug/l	16.0	ND	94	70-130			
3,5-Dichlorobenzoic acid	6.67	1.0	ug/l	8.00	ND	83	70-130			
Acifluorfen	2.74	0.40	ug/l	4.00	ND	68	70-130			MS-05
Bentazon	12.9	2.0	ug/l	16.0	ND	80	70-130			
Dalapon	7.67	0.40	ug/l	8.00	ND	96	70-130			
DCPA	3.25	0.10	ug/l	4.00	ND	81	70-130			
Dicamba	6.73	0.60	ug/l	8.00	ND	84	70-130			
Dichloroprop	8.23	0.30	ug/l	8.00	ND	103	70-130			
Dinoseb	2.87	0.40	ug/l	4.00	ND	72	70-130			

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Chlorinated Herbicides - Quality Control

Batch W3L0427 - EPA 515.3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike (W3L0427-MS1)	**Source: 3L04018-01**			Analyzed: 12/12/13 18:44						
Pentachlorophenol	3.36	0.20	ug/l	4.00	ND	84	70-130			
Picloram	3.14	0.60	ug/l	4.00	ND	78	70-130			
Surr: 2,4-DCAA	*8.49*		*ug/l*	*10.0*		*85*	*70-130*			
Matrix Spike (W3L0427-MS2)	**Source: 3L09001-01**			Analyzed: 12/12/13 19:39						
2,4,5-T	3.74	0.20	ug/l	4.00	ND	94	70-130			
2,4,5-TP (Silvex)	3.40	0.20	ug/l	4.00	ND	85	70-130			
2,4-D	9.62	0.40	ug/l	8.00	ND	120	70-130			
2,4-DB	15.9	2.0	ug/l	16.0	ND	99	70-130			
3,5-Dichlorobenzoic acid	6.65	1.0	ug/l	8.00	ND	83	70-130			
Acifluorfen	5.46	0.40	ug/l	4.00	ND	137	70-130			MS-05
Bentazon	13.5	2.0	ug/l	16.0	ND	84	70-130			
Dalapon	7.43	0.40	ug/l	8.00	ND	93	70-130			
DCPA	3.32	0.10	ug/l	4.00	ND	83	70-130			
Dicamba	6.79	0.60	ug/l	8.00	ND	85	70-130			
Dichloroprop	8.61	0.30	ug/l	8.00	ND	108	70-130			
Dinoseb	3.42	0.40	ug/l	4.00	ND	86	70-130			
Pentachlorophenol	3.58	0.20	ug/l	4.00	0.253	83	70-130			
Picloram	4.12	0.60	ug/l	4.00	ND	103	70-130			
Surr: 2,4-DCAA	*9.21*		*ug/l*	*10.0*		*92*	*70-130*			
Matrix Spike Dup (W3L0427-MSD1)	**Source: 3L04018-01**			Analyzed: 12/12/13 19:11						
2,4,5-T	3.56	0.20	ug/l	4.00	ND	89	70-130	0.3	30	
2,4,5-TP (Silvex)	3.60	0.20	ug/l	4.00	ND	90	70-130	0.3	30	
2,4-D	8.31	0.40	ug/l	8.00	ND	104	70-130	1	30	
2,4-DB	15.1	2.0	ug/l	16.0	ND	94	70-130	0.06	30	
3,5-Dichlorobenzoic acid	6.74	1.0	ug/l	8.00	ND	84	70-130	1	30	
Acifluorfen	2.83	0.40	ug/l	4.00	ND	71	70-130	4	30	
Bentazon	12.9	2.0	ug/l	16.0	ND	81	70-130	0.5	30	
Dalapon	7.75	0.40	ug/l	8.00	ND	97	70-130	1	30	
DCPA	3.21	0.10	ug/l	4.00	ND	80	70-130	1	30	
Dicamba	6.80	0.60	ug/l	8.00	ND	85	70-130	1	30	
Dichloroprop	8.21	0.30	ug/l	8.00	ND	103	70-130	0.2	30	
Dinoseb	2.93	0.40	ug/l	4.00	ND	73	70-130	2	30	
Pentachlorophenol	3.37	0.20	ug/l	4.00	ND	84	70-130	0.6	30	
Picloram	3.16	0.60	ug/l	4.00	ND	79	70-130	0.8	30	
Surr: 2,4-DCAA	*8.70*		*ug/l*	*10.0*		*87*	*70-130*			
Matrix Spike Dup (W3L0427-MSD2)	**Source: 3L09001-01**			Analyzed: 12/12/13 20:07						
2,4,5-T	3.81	0.20	ug/l	4.00	ND	95	70-130	2	30	
2,4,5-TP (Silvex)	3.42	0.20	ug/l	4.00	ND	86	70-130	0.8	30	
2,4-D	9.76	0.40	ug/l	8.00	ND	122	70-130	2	30	
2,4-DB	15.8	2.0	ug/l	16.0	ND	99	70-130	0.3	30	
3,5-Dichlorobenzoic acid	6.78	1.0	ug/l	8.00	ND	85	70-130	2	30	
Acifluorfen	5.94	0.40	ug/l	4.00	ND	149	70-130	8	30	MS-05
Bentazon	13.6	2.0	ug/l	16.0	ND	85	70-130	1	30	
Dalapon	7.46	0.40	ug/l	8.00	ND	93	70-130	0.4	30	

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Chlorinated Herbicides - Quality Control

Batch W3L0427 - EPA 515.3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike Dup (W3L0427-MSD2)	**Source: 3L09001-01**			Analyzed: 12/12/13 20:07						
DCPA	3.30	0.10	ug/l	4.00	ND	82	70-130	0.6	30	
Dicamba	7.00	0.60	ug/l	8.00	ND	88	70-130	3	30	
Dichloroprop	8.71	0.30	ug/l	8.00	ND	109	70-130	1	30	
Dinoseb	3.80	0.40	ug/l	4.00	ND	95	70-130	10	30	
Pentachlorophenol	3.57	0.20	ug/l	4.00	0.253	83	70-130	0.3	30	
Picloram	3.70	0.60	ug/l	4.00	ND	92	70-130	11	30	
Surr: 2,4-DCAA	*9.36*		*ug/l*	*10.0*		*94*	*70-130*			

Batch W3L0474 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0474-BLK1)				Analyzed: 12/14/13 02:44						
4,4´-DDD	ND	0.010	ug/l							
4,4´-DDE	ND	0.010	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.010	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.10	ug/l							
Aroclor 1221	ND	0.10	ug/l							
Aroclor 1232	ND	0.10	ug/l							
Aroclor 1242	ND	0.10	ug/l							
Aroclor 1248	ND	0.10	ug/l							
Aroclor 1254	ND	0.10	ug/l							
Aroclor 1260	ND	0.10	ug/l							
beta-BHC	ND	0.010	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
Chlorothalonil	ND	0.050	ug/l							
delta-BHC	ND	0.010	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.010	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.010	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Hexachlorobenzene	ND	0.010	ug/l							
Hexachlorocyclopentadiene	ND	0.050	ug/l							
Methoxychlor	ND	0.010	ug/l							
PCBs, Total	ND	0.50	ug/l							
Propachlor	ND	0.050	ug/l							
Toxaphene	ND	1.0	ug/l							
Trifluralin	ND	0.010	ug/l							

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Chlorinated Pesticides and/or PCBs - Quality Control

Batch W3L0474 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0474-BLK1)				Analyzed: 12/14/13 02:44						
Surr: Decachlorobiphenyl	*0.0758*		*ug/l*	*0.100*		*76*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0860*		*ug/l*	*0.100*		*86*	*70-130*			
Blank (W3L0474-BLK2)				Analyzed: 12/16/13 16:26						
4,4´-DDD	ND	0.010	ug/l							QC-2
4,4´-DDE	ND	0.010	ug/l							QC-2
4,4´-DDT	ND	0.010	ug/l							QC-2
Aldrin	ND	0.010	ug/l							QC-2
alpha-BHC	ND	0.010	ug/l							QC-2
Aroclor 1016	ND	0.10	ug/l							QC-2
Aroclor 1221	ND	0.10	ug/l							QC-2
Aroclor 1232	ND	0.10	ug/l							QC-2
Aroclor 1242	ND	0.10	ug/l							QC-2
Aroclor 1248	ND	0.10	ug/l							QC-2
Aroclor 1254	ND	0.10	ug/l							QC-2
Aroclor 1260	ND	0.10	ug/l							QC-2
beta-BHC	ND	0.010	ug/l							QC-2
Chlordane (tech)	ND	0.10	ug/l							QC-2
Chlorothalonil	ND	0.050	ug/l							QC-2
delta-BHC	ND	0.010	ug/l							QC-2
Dieldrin	ND	0.010	ug/l							QC-2
Endosulfan I	ND	0.010	ug/l							QC-2
Endosulfan II	ND	0.010	ug/l							QC-2
Endosulfan sulfate	ND	0.010	ug/l							QC-2
Endrin	ND	0.010	ug/l							QC-2
Endrin aldehyde	ND	0.010	ug/l							QC-2
gamma-BHC (Lindane)	ND	0.010	ug/l							QC-2
Heptachlor	ND	0.010	ug/l							QC-2
Heptachlor epoxide	ND	0.010	ug/l							QC-2
Hexachlorobenzene	ND	0.010	ug/l							QC-2
Hexachlorocyclopentadiene	ND	0.050	ug/l							QC-2
Methoxychlor	ND	0.010	ug/l							QC-2
PCBs, Total	ND	0.50	ug/l							QC-2
Propachlor	ND	0.050	ug/l							QC-2
Toxaphene	ND	1.0	ug/l							QC-2
Trifluralin	ND	0.010	ug/l							QC-2
Surr: Decachlorobiphenyl	*0.0786*		*ug/l*	*0.100*		*79*	*70-130*			*QC-2*
Surr: Tetrachloro-meta-xylene	*0.0916*		*ug/l*	*0.100*		*92*	*70-130*			*QC-2*
LCS (W3L0474-BS1)				Analyzed: 12/14/13 03:15						
4,4´-DDD	0.0844	0.010	ug/l	0.100		84	55-142			
4,4´-DDE	0.0833	0.010	ug/l	0.100		83	49-129			
4,4´-DDT	0.0958	0.010	ug/l	0.100		96	54-160			
Aldrin	0.0750	0.010	ug/l	0.100		75	29-115			
alpha-BHC	0.0818	0.010	ug/l	0.100		82	59-131			
beta-BHC	0.0807	0.010	ug/l	0.100		81	63-136			

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Date Received: 12/09/13 19:49
Date Reported: 01/06/14 12:51

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W3L0474 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W3L0474-BS1)				Analyzed: 12/14/13 03:15						
delta-BHC	0.0861	0.010	ug/l	0.100		86	59-137			
Dieldrin	0.0787	0.010	ug/l	0.100		79	59-135			
Endosulfan I	0.0644	0.010	ug/l	0.100		64	28-138			
Endosulfan II	0.0689	0.010	ug/l	0.100		69	53-133			
Endosulfan sulfate	0.0870	0.010	ug/l	0.100		87	58-155			
Endrin	0.0775	0.010	ug/l	0.100		77	57-148			
Endrin aldehyde	0.0951	0.010	ug/l	0.100		95	45-139			
gamma-BHC (Lindane)	0.0811	0.010	ug/l	0.100		81	59-129			
Heptachlor	0.0826	0.010	ug/l	0.100		83	42-136			
Heptachlor epoxide	0.0774	0.010	ug/l	0.100		77	59-134			
Methoxychlor	0.0831	0.010	ug/l	0.100		83	56-167			
Surr: Decachlorobiphenyl	*0.0808*		*ug/l*	*0.100*		*81*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0895*		*ug/l*	*0.100*		*90*	*70-130*			
LCS (W3L0474-BS2)				Analyzed: 12/16/13 16:57						
4,4´-DDD	0.0877	0.010	ug/l	0.100		88	55-142			QC-2
4,4´-DDE	0.0905	0.010	ug/l	0.100		90	49-129			QC-2
4,4´-DDT	0.102	0.010	ug/l	0.100		102	54-160			QC-2
Aldrin	0.0805	0.010	ug/l	0.100		80	29-115			QC-2
alpha-BHC	0.0887	0.010	ug/l	0.100		89	59-131			QC-2
beta-BHC	0.0887	0.010	ug/l	0.100		89	63-136			QC-2
delta-BHC	0.0969	0.010	ug/l	0.100		97	59-137			QC-2
Dieldrin	0.0841	0.010	ug/l	0.100		84	59-135			QC-2
Endosulfan I	0.0699	0.010	ug/l	0.100		70	28-138			QC-2
Endosulfan II	0.0749	0.010	ug/l	0.100		75	53-133			QC-2
Endosulfan sulfate	0.0959	0.010	ug/l	0.100		96	58-155			QC-2
Endrin	0.0820	0.010	ug/l	0.100		82	57-148			QC-2
Endrin aldehyde	0.0946	0.010	ug/l	0.100		95	45-139			QC-2
gamma-BHC (Lindane)	0.0883	0.010	ug/l	0.100		88	59-129			QC-2
Heptachlor	0.0856	0.010	ug/l	0.100		86	42-136			QC-2
Heptachlor epoxide	0.0842	0.010	ug/l	0.100		84	59-134			QC-2
Methoxychlor	0.0853	0.010	ug/l	0.100		85	56-167			QC-2
Surr: Decachlorobiphenyl	*0.0871*		*ug/l*	*0.100*		*87*	*70-130*			*QC-2*
Surr: Tetrachloro-meta-xylene	*0.0971*		*ug/l*	*0.100*		*97*	*70-130*			*QC-2*
LCS Dup (W3L0474-BSD1)				Analyzed: 12/14/13 03:45						
4,4´-DDD	0.0883	0.010	ug/l	0.100		88	55-142	4	25	
4,4´-DDE	0.0854	0.010	ug/l	0.100		85	49-129	2	25	
4,4´-DDT	0.0999	0.010	ug/l	0.100		100	54-160	4	25	
Aldrin	0.0751	0.010	ug/l	0.100		75	29-115	0.2	25	
alpha-BHC	0.0823	0.010	ug/l	0.100		82	59-131	0.5	25	
beta-BHC	0.0831	0.010	ug/l	0.100		83	63-136	3	25	
delta-BHC	0.0922	0.010	ug/l	0.100		92	59-137	7	25	
Dieldrin	0.0797	0.010	ug/l	0.100		80	59-135	1	25	
Endosulfan I	0.0652	0.010	ug/l	0.100		65	28-138	1	25	
Endosulfan II	0.0702	0.010	ug/l	0.100		70	53-133	2	25	

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Date Received: 12/09/13 19:49
Date Reported: 01/06/14 12:51

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W3L0474 - EPA 508

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W3L0474-BSD1)				Analyzed: 12/14/13 03:45						
Endosulfan sulfate	0.0899	0.010	ug/l	0.100		90	58-155	3	25	
Endrin	0.0784	0.010	ug/l	0.100		78	57-148	1	25	
Endrin aldehyde	0.0991	0.010	ug/l	0.100		99	45-139	4	25	
gamma-BHC (Lindane)	0.0824	0.010	ug/l	0.100		82	59-129	2	25	
Heptachlor	0.0846	0.010	ug/l	0.100		85	42-136	2	25	
Heptachlor epoxide	0.0780	0.010	ug/l	0.100		78	59-134	0.9	25	
Methoxychlor	0.0852	0.010	ug/l	0.100		85	56-167	3	25	
Surr: Decachlorobiphenyl	*0.0775*		*ug/l*	*0.100*		*78*	*70-130*			
Surr: Tetrachloro-meta-xylene	*0.0852*		*ug/l*	*0.100*		*85*	*70-130*			
LCS Dup (W3L0474-BSD2)				Analyzed: 12/16/13 17:27						
4,4´-DDD	0.0838	0.010	ug/l	0.100		84	55-142	5	25	QC-2
4,4´-DDE	0.0873	0.010	ug/l	0.100		87	49-129	4	25	QC-2
4,4´-DDT	0.0975	0.010	ug/l	0.100		98	54-160	5	25	QC-2
Aldrin	0.0803	0.010	ug/l	0.100		80	29-115	0.2	25	QC-2
alpha-BHC	0.0872	0.010	ug/l	0.100		87	59-131	2	25	QC-2
beta-BHC	0.0863	0.010	ug/l	0.100		86	63-136	3	25	QC-2
delta-BHC	0.0944	0.010	ug/l	0.100		94	59-137	3	25	QC-2
Dieldrin	0.0831	0.010	ug/l	0.100		83	59-135	1	25	QC-2
Endosulfan I	0.0689	0.010	ug/l	0.100		69	28-138	1	25	QC-2
Endosulfan II	0.0730	0.010	ug/l	0.100		73	53-133	3	25	QC-2
Endosulfan sulfate	0.0911	0.010	ug/l	0.100		91	58-155	5	25	QC-2
Endrin	0.0793	0.010	ug/l	0.100		79	57-148	3	25	QC-2
Endrin aldehyde	0.100	0.010	ug/l	0.100		100	45-139	6	25	QC-2
gamma-BHC (Lindane)	0.0866	0.010	ug/l	0.100		87	59-129	2	25	QC-2
Heptachlor	0.0849	0.010	ug/l	0.100		85	42-136	0.9	25	QC-2
Heptachlor epoxide	0.0827	0.010	ug/l	0.100		83	59-134	2	25	QC-2
Methoxychlor	0.0783	0.010	ug/l	0.100		78	56-167	9	25	QC-2
Surr: Decachlorobiphenyl	*0.0765*		*ug/l*	*0.100*		*77*	*70-130*			*QC-2*
Surr: Tetrachloro-meta-xylene	*0.0900*		*ug/l*	*0.100*		*90*	*70-130*			*QC-2*

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W3L0369 - EPA 353.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0369-BLK1)				Analyzed: 12/07/13 16:23						
Nitrate as NO3	ND	0.50	mg/l							B-07
NO2+NO3 as N	ND	100	ug/l							B-07
LCS (W3L0369-BS1)				Analyzed: 12/07/13 15:14						
Nitrate as NO3	4.74	0.50	mg/l	4.43		107	90-110			
NO2+NO3 as N	1070	100	ug/l	1000		107	90-110			
Matrix Spike (W3L0369-MS1)	**Source: 3L09093-01**			Analyzed: 12/07/13 15:21						
Nitrate as NO3	9.04	0.50	mg/l	8.86	0.322	98	90-110			

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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W3L0369 - EPA 353.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike (W3L0369-MS1)	**Source: 3L09093-01**			Analyzed: 12/07/13 15:21						
NO2+NO3 as N	2040	100	ug/l	2000	73.0	98	90-110			
Matrix Spike Dup (W3L0369-MSD1)	**Source: 3L09093-01**			Analyzed: 12/07/13 15:23						
Nitrate as NO3	8.87	0.50	mg/l	8.86	0.322	96	90-110	2	20	
NO2+NO3 as N	2000	100	ug/l	2000	73.0	96	90-110	2	20	

Batch W3L0371 - SM 2120B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W3L0371-BS1)				Analyzed: 12/07/13 11:40						
Color	10.0	3.0	Color Units	10.0		100	95-105			
Duplicate (W3L0371-DUP1)	**Source: 3L09093-01**			Analyzed: 12/07/13 11:40						
Color	ND	3.0	Color Units		0.00					

Batch W3L0372 - EPA 140.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Duplicate (W3L0372-DUP1)	**Source: 3L09093-01**			Analyzed: 12/07/13 12:30						
Threshold Odor Number	1.0	1.0	T.O.N.		1.0			NR	20	

Batch W3L0373 - EPA 180.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0373-BLK1)				Analyzed: 12/07/13 11:55						
Turbidity	ND	0.10	NTU							
LCS (W3L0373-BS1)				Analyzed: 12/07/13 11:55						
Turbidity	11.1	0.10	NTU	11.0		101	90-110			
Duplicate (W3L0373-DUP1)	**Source: 3L09093-01**			Analyzed: 12/07/13 11:55						
Turbidity	2.78	0.10	NTU		2.78			NR	10	

Batch W3L0375 - SM 5540C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0375-BLK1)				Analyzed: 12/07/13 13:56						
MBAS	ND	0.050	mg/l							
LCS (W3L0375-BS1)				Analyzed: 12/07/13 13:56						
MBAS	0.204	0.050	mg/l	0.200		102	82-115			
Matrix Spike (W3L0375-MS1)	**Source: 3L09093-01**			Analyzed: 12/07/13 13:56						
MBAS	0.249	0.050	mg/l	0.200	0.0375	106	74-123			
Matrix Spike Dup (W3L0375-MSD1)	**Source: 3L09093-01**			Analyzed: 12/07/13 13:56						
MBAS	0.233	0.050	mg/l	0.200	0.0375	98	74-123	7	20	

Batch W3L0378 - SM 4500H+-B

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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W3L0378 - SM 4500H+-B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W3L0378-BS1)				Analyzed: 12/07/13 18:47						
pH	7.34	0.10	Units	7.41		99	98.8-101			
Duplicate (W3L0378-DUP1)	**Source: 3L09050-01**			Analyzed: 12/07/13 18:47						
pH	7.46	0.10	Units		7.55			1	3.1	

Batch W3L0379 - EPA 365.3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0379-BLK1)				Analyzed: 12/07/13 18:32						
o-Phosphate as P	ND	0.010	mg/l							
LCS (W3L0379-BS1)				Analyzed: 12/07/13 18:32						
o-Phosphate as P	0.202	0.010	mg/l	0.200		101	88-111			
Matrix Spike (W3L0379-MS1)	**Source: 3L09093-01**			Analyzed: 12/07/13 18:32						
o-Phosphate as P	0.263	0.010	mg/l	0.200	0.0767	93	85-112			
Matrix Spike Dup (W3L0379-MSD1)	**Source: 3L09093-01**			Analyzed: 12/07/13 18:32						
o-Phosphate as P	0.280	0.010	mg/l	0.200	0.0767	102	85-112	6	20	

Batch W3L0566 - SM 2540C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0566-BLK1)				Analyzed: 12/11/13 13:35						
Total Dissolved Solids	ND	10	mg/l							
LCS (W3L0566-BS1)				Analyzed: 12/11/13 13:35						
Total Dissolved Solids	823	10	mg/l	824		100	96-102			
Duplicate (W3L0566-DUP1)	**Source: 3L09015-01**			Analyzed: 12/11/13 13:35						
Total Dissolved Solids	748	10	mg/l		802			7	10	
Duplicate (W3L0566-DUP2)	**Source: 3L09021-01**			Analyzed: 12/11/13 13:35						
Total Dissolved Solids	97.0	10	mg/l		97.0			NR	10	

Batch W3L0675 - EPA 365.3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0675-BLK1)				Analyzed: 12/19/13 11:48						
Phosphorus, Dissolved	ND	0.010	mg/l							
LCS (W3L0675-BS1)				Analyzed: 12/19/13 11:48						
Phosphorus, Dissolved	0.191	0.010	mg/l	0.200		95	90-110			
Matrix Spike (W3L0675-MS1)	**Source: 3L09093-01**			Analyzed: 12/19/13 11:48						
Phosphorus, Dissolved	0.251	0.010	mg/l	0.200	0.0467	102	85-108			
Matrix Spike Dup (W3L0675-MSD1)	**Source: 3L09093-01**			Analyzed: 12/19/13 11:48						
Phosphorus, Dissolved	0.258	0.010	mg/l	0.200	0.0467	106	85-108	3	20	

Batch W3L0691 - SM 2320B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers

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Date Received: 12/09/13 19:49
Date Reported: 01/06/14 12:51

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W3L0691 - SM 2320B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0691-BLK1)				Analyzed: 12/13/13 10:54						
Alkalinity as CaCO3	ND	2.0	mg/l							
Alkalinity as CaCO3	ND	2.0	mg/l							
Bicarbonate Alkalinity as HCO3	ND	2.0	mg/l							
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l							
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l							
LCS (W3L0691-BS1)				Analyzed: 12/13/13 10:54						
Alkalinity as CaCO3	255	2.0	mg/l	250		102	94-108			
Alkalinity as CaCO3	255	2.0	mg/l	250		102	94-108			
Bicarbonate Alkalinity as HCO3	311	2.0	mg/l	305		102	95-108			
Duplicate (W3L0691-DUP1)	**Source: 3L09001-03RE1**			Analyzed: 12/13/13 10:54						
Alkalinity as CaCO3	109	2.0	mg/l		108			0.6	15	
Alkalinity as CaCO3	109	2.0	mg/l		108			0.6	15	
Bicarbonate Alkalinity as HCO3	133	2.0	mg/l		132			0.6	15	
Carbonate Alkalinity as CaCO3	ND	2.0	mg/l		ND					
Hydroxide Alkalinity as CaCO3	ND	2.0	mg/l		ND					

Batch W3L0717 - EPA 351.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0717-BLK1)				Analyzed: 12/19/13 12:07						
TKN, Soluble	ND	0.10	mg/l							
Blank (W3L0717-BLK2)				Analyzed: 12/19/13 12:07						
TKN, Soluble	ND	0.10	mg/l							
LCS (W3L0717-BS1)				Analyzed: 12/19/13 12:07						
TKN, Soluble	1.01	0.10	mg/l	1.00		101	90-110			
LCS (W3L0717-BS2)				Analyzed: 12/19/13 12:07						
TKN, Soluble	1.02	0.10	mg/l	1.00		102	90-110			
Matrix Spike (W3L0717-MS1)	**Source: 3L09015-01**			Analyzed: 12/19/13 12:07						
TKN, Soluble	30.2	1.0	mg/l	10.0	19.5	107	90-110			
Matrix Spike (W3L0717-MS2)	**Source: 3L09027-02**			Analyzed: 12/19/13 12:07						
TKN, Soluble	5.46	0.40	mg/l	4.00	1.28	104	90-110			
Matrix Spike Dup (W3L0717-MSD1)	**Source: 3L09015-01**			Analyzed: 12/19/13 12:07						
TKN, Soluble	30.2	1.0	mg/l	10.0	19.5	107	90-110	0.04	10	
Matrix Spike Dup (W3L0717-MSD2)	**Source: 3L09027-02**			Analyzed: 12/19/13 12:07						
TKN, Soluble	5.42	0.40	mg/l	4.00	1.28	104	90-110	0.7	10	

Batch W3L0783 - EPA 350.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0783-BLK1)				Analyzed: 12/16/13 16:55						
Ammonia as N, Dissolved	ND	0.10	mg/l							
LCS (W3L0783-BS1)				Analyzed: 12/16/13 16:55						
Ammonia as N, Dissolved	0.271	0.10	mg/l	0.250		109	90-110			

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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W3L0783 - EPA 350.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike (W3L0783-MS1)	**Source: 3L12030-01**			Analyzed: 12/16/13 16:55						
Ammonia as N, Dissolved	0.306	0.10	mg/l	0.250	0.0584	99	90-110			
Matrix Spike Dup (W3L0783-MSD1)	**Source: 3L12030-01**			Analyzed: 12/16/13 16:55						
Ammonia as N, Dissolved	0.304	0.10	mg/l	0.250	0.0584	98	90-110	0.8	15	

Batch W3L0862 - SM 2510B

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0862-BLK1)				Analyzed: 12/17/13 12:58						
Specific Conductance (EC)	ND	2.0	umhos/cm							
LCS (W3L0862-BS1)				Analyzed: 12/17/13 12:58						
Specific Conductance (EC)	5000	2.0	umhos/cm	5000		100	95-105			
Duplicate (W3L0862-DUP1)	**Source: 3L09001-07**			Analyzed: 12/17/13 12:58						
Specific Conductance (EC)	9630	2.0	umhos/cm		9620			0.1	5	

Diquat and Paraquat by EPA 549.2 - Quality Control

Batch W3L0464 - EPA 549.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0464-BLK1)				Analyzed: 12/11/13 13:51						
Diquat	ND	4.0	ug/l							
LCS (W3L0464-BS1)				Analyzed: 12/11/13 13:51						
Diquat	10.1	4.0	ug/l	20.0		51	48-130			
Matrix Spike (W3L0464-MS1)	**Source: 3L05081-01**			Analyzed: 12/11/13 13:51						
Diquat	18.4	4.0	ug/l	20.0	ND	92	46-122			
Matrix Spike Dup (W3L0464-MSD1)	**Source: 3L05081-01**			Analyzed: 12/11/13 13:51						
Diquat	19.3	4.0	ug/l	20.0	ND	96	46-122	5	30	

Endothall By EPA 548.1 - Quality Control

Batch W3L0699 - EPA 548.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0699-BLK1)				Analyzed: 12/23/13 10:05						
Endothall	ND	45	ug/l							
LCS (W3L0699-BS1)				Analyzed: 12/23/13 10:25						
Endothall	97.1	45	ug/l	100		97	31-117			
Matrix Spike (W3L0699-MS1)	**Source: 3L09093-01**			Analyzed: 12/23/13 10:39						
Endothall	ND	45	ug/l	100	ND	NR	0.1-109			MS-05
Matrix Spike Dup (W3L0699-MSD1)	**Source: 3L09093-01**			Analyzed: 12/23/13 10:53						
Endothall	ND	45	ug/l	100	ND	NR	0.1-109			MS-05

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Fumigants by EPA Method 504.1 - Quality Control

Batch W3L0818 - EPA 504.1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0818-BLK1)				Analyzed: 12/19/13 21:50						
1,2-Dibromo-3-chloropropane	ND	0.010	ug/l							
1,2-Dibromoethane (EDB)	ND	0.020	ug/l							
LCS (W3L0818-BS1)				Analyzed: 12/19/13 22:19						
1,2-Dibromo-3-chloropropane	0.0980	0.010	ug/l	0.100		98	70-130			
1,2-Dibromoethane (EDB)	0.113	0.020	ug/l	0.100		113	70-130			
LCS (W3L0818-BS2)				Analyzed: 12/19/13 22:49						
1,2-Dibromo-3-chloropropane	0.0180	0.010	ug/l	0.0200		90	70-130			
1,2-Dibromoethane (EDB)	0.0170	0.020	ug/l	0.0200		85	70-130			
Matrix Spike (W3L0818-MS1)	**Source: 3L12021-04**			Analyzed: 12/19/13 23:17						
1,2-Dibromo-3-chloropropane	0.0990	0.010	ug/l	0.100	ND	99	65-135			
1,2-Dibromoethane (EDB)	0.113	0.020	ug/l	0.100	ND	113	65-135			
Matrix Spike Dup (W3L0818-MSD1)	**Source: 3L12021-04**			Analyzed: 12/19/13 23:46						
1,2-Dibromo-3-chloropropane	0.110	0.010	ug/l	0.100	ND	110	65-135	11	30	
1,2-Dibromoethane (EDB)	0.109	0.020	ug/l	0.100	ND	109	65-135	4	30	

Glyphosate by EPA 547 - Quality Control

Batch W3L0486 - EPA 547

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0486-BLK1)				Analyzed: 12/10/13 13:00						
Glyphosate	ND	5.0	ug/l							
LCS (W3L0486-BS1)				Analyzed: 12/10/13 13:00						
Glyphosate	26.4	5.0	ug/l	25.0		106	62-130			
Matrix Spike (W3L0486-MS1)	**Source: 3L09082-02**			Analyzed: 12/10/13 13:00						
Glyphosate	18.7	5.0	ug/l	25.0	9.51	37	41-149			MS-05
Matrix Spike Dup (W3L0486-MSD1)	**Source: 3L09082-02**			Analyzed: 12/10/13 13:00						
Glyphosate	20.8	5.0	ug/l	25.0	9.51	45	41-149	11	30	

Metals by EPA 200 Series Methods - Quality Control

Batch W3L1101 - EPA 200.7

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L1101-BLK1)				Analyzed: 12/24/13 10:53						
Barium, Dissolved	ND	0.0020	mg/l							
Boron, Dissolved	ND	10	ug/l							
Calcium, Dissolved	ND	0.100	mg/l							
Calcium, Total	ND	0.100	mg/l							
Iron, Dissolved	ND	10	ug/l							
Iron, Total	ND	0.010	mg/l							

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Metals by EPA 200 Series Methods - Quality Control

Batch W3L1101 - EPA 200.7

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L1101-BLK1)				Analyzed: 12/24/13 10:53						
Magnesium, Dissolved	ND	0.100	mg/l							
Magnesium, Total	ND	0.100	mg/l							
Manganese, Dissolved	ND	5.0	ug/l							
Manganese, Total	ND	0.0050	mg/l							
Potassium, Dissolved	ND	0.10	mg/l							
Potassium, Total	ND	0.10	mg/l							
Silica as SiO2, Dissolved	ND	0.10	mg/l							
Sodium, Dissolved	ND	0.50	mg/l							
Sodium, Total	ND	0.50	mg/l							
Strontium, Dissolved	ND	2.0	ug/l							
LCS (W3L1101-BS1)				Analyzed: 12/24/13 11:04						
Barium, Dissolved	0.191	0.0020	mg/l	0.200		95	85-115			
Boron, Dissolved	211	10	ug/l	200		105	85-115			
Calcium, Dissolved	50.9	0.100	mg/l	50.2		101	85-115			
Calcium, Total	50.9	0.100	mg/l	50.2		101	85-115			
Iron, Dissolved	199	10	ug/l	200		100	85-115			
Iron, Total	0.199	0.010	mg/l	0.200		100	85-115			
Magnesium, Dissolved	50.1	0.100	mg/l	50.0		100	85-115			
Magnesium, Total	50.1	0.100	mg/l	50.2		100	85-115			
Manganese, Dissolved	198	5.0	ug/l	200		99	85-115			
Manganese, Total	0.198	0.0050	mg/l	0.200		99	85-115			
Potassium, Dissolved	52.2	0.10	mg/l	52.0		100	85-115			
Potassium, Total	52.2	0.10	mg/l	52.0		100	85-115			
Silica as SiO2, Dissolved	47.6	0.10	mg/l	43.3		110	85-115			
Sodium, Dissolved	82.7	0.50	mg/l	82.6		100	85-115			
Sodium, Total	82.7	0.50	mg/l	82.6		100	85-115			
Strontium, Dissolved	987	2.0	ug/l	1000		99	85-115			
Matrix Spike (W3L1101-MS1)	**Source: 3L13055-03**			Analyzed: 12/24/13 11:31						
Calcium, Total	78.1	0.200	mg/l	50.2	28.5	99	70-130			
Iron, Total	0.692	0.020	mg/l	0.200	0.492	100	70-130			
Magnesium, Total	51.4	0.200	mg/l	50.2	5.24	92	70-130			
Manganese, Total	0.248	0.010	mg/l	0.200	0.0503	99	70-130			
Potassium, Total	315	0.20	mg/l	52.0	246	132	70-130			MS-02
Sodium, Total	14000	1.0	mg/l	82.6	14000	2	70-130			MS-02
Matrix Spike Dup (W3L1101-MSD1)	**Source: 3L13055-03**			Analyzed: 12/24/13 11:34						
Calcium, Total	78.0	0.200	mg/l	50.2	28.5	99	70-130	0.1	30	
Iron, Total	0.694	0.020	mg/l	0.200	0.492	101	70-130	0.3	30	
Magnesium, Total	51.1	0.200	mg/l	50.2	5.24	91	70-130	0.6	30	
Manganese, Total	0.246	0.010	mg/l	0.200	0.0503	98	70-130	0.9	30	
Potassium, Total	320	0.20	mg/l	52.0	246	143	70-130	2	30	MS-02
Sodium, Total	14300	1.0	mg/l	82.6	14000	366	70-130	2	30	MS-02

Batch W3L1103 - EPA 200.8

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Metals by EPA 200 Series Methods - Quality Control

Batch W3L1103 - EPA 200.8

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L1103-BLK1)				Analyzed: 12/27/13 01:17						
Aluminum, Total	ND	5.0	ug/l							
Arsenic, Total	ND	0.40	ug/l							
Copper, Total	ND	0.50	ug/l							
Zinc, Total	ND	5.0	ug/l							
LCS (W3L1103-BS1)				Analyzed: 12/27/13 01:25						
Aluminum, Total	49.4	5.0	ug/l	50.0		99	85-115			
Arsenic, Total	48.1	0.40	ug/l	50.0		96	85-115			
Copper, Total	50.8	0.50	ug/l	50.0		102	85-115			
Zinc, Total	50.4	5.0	ug/l	50.0		101	85-115			
Matrix Spike (W3L1103-MS1)	**Source: 3L09093-01**			Analyzed: 12/27/13 02:14						
Aluminum, Total	84.1	5.0	ug/l	50.0	17.5	133	70-130			MS-02
Arsenic, Total	50.2	0.40	ug/l	50.0	0.710	99	70-130			
Copper, Total	48.6	0.50	ug/l	50.0	11.3	75	70-130			
Zinc, Total	71.2	5.0	ug/l	50.0	29.3	84	70-130			
Matrix Spike Dup (W3L1103-MSD1)	**Source: 3L09093-01**			Analyzed: 12/27/13 02:22						
Aluminum, Total	84.3	5.0	ug/l	50.0	17.5	134	70-130	0.2	30	MS-02
Arsenic, Total	51.5	0.40	ug/l	50.0	0.710	102	70-130	3	30	
Copper, Total	49.2	0.50	ug/l	50.0	11.3	76	70-130	1	30	
Zinc, Total	72.5	5.0	ug/l	50.0	29.3	86	70-130	2	30	

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3L0431 - EPA 525.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0431-BLK1)				Analyzed: 12/13/13 12:12						
Alachlor	ND	0.10	ug/l							
Atrazine	ND	0.10	ug/l							
Benzo (a) pyrene	ND	0.10	ug/l							
Bis(2-ethylhexyl)adipate	ND	5.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	3.0	ug/l							
Bromacil	ND	0.50	ug/l							
Butachlor	ND	0.10	ug/l							
Captan	ND	1.0	ug/l							
Chloropropham	ND	0.10	ug/l							
Cyanazine	ND	0.10	ug/l							
Diazinon	ND	0.10	ug/l							
Dimethoate	ND	0.20	ug/l							
Diphenamid	ND	0.10	ug/l							
Disulfoton	ND	0.10	ug/l							
EPTC	ND	0.10	ug/l							
Metolachlor	ND	0.10	ug/l							
Metribuzin	ND	0.10	ug/l							

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Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3L0431 - EPA 525.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0431-BLK1)				Analyzed: 12/13/13 12:12						
Molinate	ND	0.10	ug/l							
Prometon	ND	0.10	ug/l							
Prometryn	ND	0.10	ug/l							
Simazine	ND	0.10	ug/l							
Terbacil	ND	2.0	ug/l							
Thiobencarb	ND	0.10	ug/l							
Trithion	ND	0.10	ug/l							
Surr: 1,3-Dimethyl-2-nitrobenzene	*5.16*		*ug/l*	*5.00*		*103*	*73-138*			
Surr: Perylene-d12	*3.65*		*ug/l*	*5.00*		*73*	*30-118*			
Surr: Triphenyl phosphate	*4.82*		*ug/l*	*5.00*		*96*	*70-149*			
LCS (W3L0431-BS1)				Analyzed: 12/13/13 12:37						
Alachlor	3.57	0.10	ug/l	5.00		71	55-124			
Atrazine	5.00	0.10	ug/l	5.00		100	67-131			
Benzo (a) pyrene	4.54	0.10	ug/l	5.00		91	40-147			
Bis(2-ethylhexyl)adipate	6.30	5.0	ug/l	5.00		126	71-158			
Bis(2-ethylhexyl)phthalate	5.88	3.0	ug/l	5.00		118	68-154			
Bromacil	4.64	0.50	ug/l	5.00		93	62-139			
Butachlor	4.05	0.10	ug/l	5.00		81	61-127			
Captan	3.94	1.0	ug/l	5.00		79	14-159			
Chloropropham	6.53	0.10	ug/l	5.00		131	77-143			
Cyanazine	5.45	0.10	ug/l	5.00		109	61-129			
Diazinon	3.53	0.10	ug/l	5.00		71	30-120			
Dimethoate	4.75	0.20	ug/l	5.00		95	38-102			
Diphenamid	5.32	0.10	ug/l	5.00		106	77-124			
Disulfoton	5.83	0.10	ug/l	5.00		117	54-156			
EPTC	5.40	0.10	ug/l	5.00		108	82-116			
Metolachlor	4.08	0.10	ug/l	5.00		82	61-123			
Metribuzin	4.14	0.10	ug/l	5.00		83	50-121			
Molinate	5.45	0.10	ug/l	5.00		109	82-117			
Prometon	2.02	0.10	ug/l	5.00		40	17-101			
Prometryn	3.74	0.10	ug/l	5.00		75	57-122			
Simazine	3.82	0.10	ug/l	5.00		76	53-116			
Terbacil	5.79	2.0	ug/l	5.00		116	70-135			
Thiobencarb	4.02	0.10	ug/l	5.00		80	56-125			
Trithion	4.54	0.10	ug/l	5.00		91	60-124			
Surr: 1,3-Dimethyl-2-nitrobenzene	*5.15*		*ug/l*	*5.00*		*103*	*73-138*			
Surr: Perylene-d12	*6.65*		*ug/l*	*5.00*		*133*	*30-118*			*S-11*
Surr: Triphenyl phosphate	*5.29*		*ug/l*	*5.00*		*106*	*70-149*			
LCS Dup (W3L0431-BSD1)				Analyzed: 12/13/13 13:02						
Alachlor	3.79	0.10	ug/l	5.00		76	55-124	6	30	
Atrazine	5.49	0.10	ug/l	5.00		110	67-131	9	30	
Benzo (a) pyrene	4.74	0.10	ug/l	5.00		95	40-147	4	30	
Bis(2-ethylhexyl)adipate	6.70	5.0	ug/l	5.00		134	71-158	6	30	
Bis(2-ethylhexyl)phthalate	6.05	3.0	ug/l	5.00		121	68-154	3	30	

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Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3L0431 - EPA 525.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W3L0431-BSD1)				Analyzed: 12/13/13 13:02						
Bromacil	5.04	0.50	ug/l	5.00		101	62-139	8	30	
Butachlor	4.22	0.10	ug/l	5.00		84	61-127	4	30	
Captan	3.94	1.0	ug/l	5.00		79	14-159	NR	30	
Chloropropham	6.72	0.10	ug/l	5.00		134	77-143	3	30	
Cyanazine	5.25	0.10	ug/l	5.00		105	61-129	4	30	
Diazinon	3.64	0.10	ug/l	5.00		73	30-120	3	30	
Dimethoate	5.23	0.20	ug/l	5.00		105	38-102	10	30	Q-08
Diphenamid	5.17	0.10	ug/l	5.00		103	77-124	3	30	
Disulfoton	5.97	0.10	ug/l	5.00		119	54-156	2	30	
EPTC	5.64	0.10	ug/l	5.00		113	82-116	4	30	
Metolachlor	4.21	0.10	ug/l	5.00		84	61-123	3	30	
Metribuzin	4.25	0.10	ug/l	5.00		85	50-121	3	30	
Molinate	5.70	0.10	ug/l	5.00		114	82-117	4	30	
Prometon	2.18	0.10	ug/l	5.00		44	17-101	8	30	
Prometryn	3.90	0.10	ug/l	5.00		78	57-122	4	30	
Simazine	3.88	0.10	ug/l	5.00		78	53-116	2	30	
Terbacil	5.51	2.0	ug/l	5.00		110	70-135	5	30	
Thiobencarb	4.06	0.10	ug/l	5.00		81	56-125	1	30	
Trithion	4.74	0.10	ug/l	5.00		95	60-124	4	30	
Surr: 1,3-Dimethyl-2-nitrobenzene	*5.24*		*ug/l*	*5.00*		*105*	*73-138*			
Surr: Perylene-d12	*6.74*		*ug/l*	*5.00*		*135*	*30-118*			*S-11*
Surr: Triphenyl phosphate	*5.32*		*ug/l*	*5.00*		*106*	*70-149*			

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W3L0452 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0452-BLK1)				Analyzed: 12/10/13 12:17						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,1-Trichloroethane	ND	0.50	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/l							
1,1,2-Trichloroethane	ND	0.50	ug/l							
1,1-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	0.50	ug/l							
1,1-Dichloropropene	ND	0.50	ug/l							
1,2,3-Trichlorobenzene	ND	0.50	ug/l							
1,2,3-Trichloropropane	ND	0.50	ug/l							
1,2,4-Trichlorobenzene	ND	0.50	ug/l							
1,2,4-Trimethylbenzene	ND	0.50	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,2-Dichloropropane	ND	0.50	ug/l							
1,3,5-Trimethylbenzene	ND	0.50	ug/l							

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Monterey CA, 93942-0951

Date Received: 12/09/13 19:49
Date Reported: 01/06/14 12:51

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W3L0452 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0452-BLK1)				Analyzed: 12/10/13 12:17						
1,3-Dichloropropane	ND	0.50	ug/l							
1,3-Dichloropropene, Total	ND	0.50	ug/l							
2,2-Dichloropropane	ND	0.50	ug/l							
2-Butanone	ND	5.0	ug/l							
2-Chloroethyl vinyl ether	ND	1.0	ug/l							
2-Chlorotoluene	ND	0.50	ug/l							
2-Hexanone	ND	5.0	ug/l							
4-Chlorotoluene	ND	0.50	ug/l							
4-Methyl-2-pentanone	ND	5.0	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	0.50	ug/l							
Bromochloromethane	ND	0.50	ug/l							
Bromodichloromethane	ND	0.50	ug/l							
Bromoform	ND	0.50	ug/l							
Bromomethane	ND	0.50	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	0.50	ug/l							
Chloroethane	ND	0.50	ug/l							
Chloroform	ND	0.50	ug/l							
Chloromethane	ND	0.50	ug/l							
cis-1,2-Dichloroethene	ND	0.50	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
Dibromochloromethane	ND	0.50	ug/l							
Dibromomethane	ND	0.50	ug/l							
Dichlorodifluoromethane (Freon 12)	ND	0.50	ug/l							
Di-isopropyl ether	ND	2.0	ug/l							
Ethyl tert-butyl ether	ND	2.0	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Freon 113	ND	5.0	ug/l							
Hexachlorobutadiene	ND	0.50	ug/l							
Isopropylbenzene	ND	0.50	ug/l							
m,p-Xylene	ND	0.50	ug/l							
m-Dichlorobenzene	ND	0.50	ug/l							
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/l							
Methylene chloride	ND	0.50	ug/l							
Naphthalene	ND	0.50	ug/l							
n-Butylbenzene	ND	0.50	ug/l							
n-Propylbenzene	ND	0.50	ug/l							
o-Dichlorobenzene	ND	0.50	ug/l							
o-Xylene	ND	0.50	ug/l							
p-Dichlorobenzene	ND	0.50	ug/l							
p-Isopropyltoluene	ND	0.50	ug/l							
sec-Butylbenzene	ND	0.50	ug/l							
Styrene	ND	0.50	ug/l							

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W3L0452 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3L0452-BLK1)				Analyzed: 12/10/13 12:17						
Tert-amyl methyl ether	ND	2.0	ug/l							
tert-Butylbenzene	ND	0.50	ug/l							
Tetrachloroethene	ND	0.50	ug/l							
THMs, Total	ND	2.0	ug/l							
Toluene	ND	0.50	ug/l							
trans-1,2-Dichloroethene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Trichloroethene	ND	0.50	ug/l							
Trichlorofluoromethane	ND	0.50	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Surr: 1,2-Dichlorobenzene-d4	*8.39*		*ug/l*	*10.0*		*84*	*70-130*			
Surr: 4-Bromofluorobenzene	*9.68*		*ug/l*	*10.0*		*97*	*70-130*			
LCS (W3L0452-BS1)				Analyzed: 12/10/13 10:05						
1,1,1,2-Tetrachloroethane	6.23	0.50	ug/l	6.00		104	70-130			
1,1,1-Trichloroethane	6.56	0.50	ug/l	6.00		109	70-130			
1,1,2,2-Tetrachloroethane	6.20	0.50	ug/l	6.00		103	70-130			
1,1,2-Trichloroethane	6.68	0.50	ug/l	6.00		111	70-130			
1,1-Dichloroethane	6.80	0.50	ug/l	6.00		113	70-130			
1,1-Dichloroethene	6.39	0.50	ug/l	6.00		106	70-130			
1,1-Dichloropropene	7.46	0.50	ug/l	6.00		124	70-130			
1,2,3-Trichlorobenzene	6.04	0.50	ug/l	6.00		101	70-130			
1,2,3-Trichloropropane	7.44	0.50	ug/l	6.00		124	70-130			
1,2,4-Trichlorobenzene	5.86	0.50	ug/l	6.00		98	70-130			
1,2,4-Trimethylbenzene	6.91	0.50	ug/l	6.00		115	70-130			
1,2-Dichloroethane	6.93	0.50	ug/l	6.00		116	70-130			
1,2-Dichloropropane	7.30	0.50	ug/l	6.00		122	70-130			
1,3,5-Trimethylbenzene	6.67	0.50	ug/l	6.00		111	70-130			
1,3-Dichloropropane	7.39	0.50	ug/l	6.00		123	70-130			
2,2-Dichloropropane	5.65	0.50	ug/l	6.00		94	70-130			
2-Butanone	5.54	5.0	ug/l	6.00		92	70-130			
2-Chloroethyl vinyl ether	5.62	1.0	ug/l	6.00		94	70-130			
2-Chlorotoluene	6.80	0.50	ug/l	6.00		113	70-130			
2-Hexanone	5.59	5.0	ug/l	6.00		93	70-130			
4-Chlorotoluene	7.82	0.50	ug/l	6.00		130	70-130			
4-Methyl-2-pentanone	5.48	5.0	ug/l	6.00		91	70-130			
Benzene	6.56	0.50	ug/l	6.00		109	70-130			
Bromobenzene	6.45	0.50	ug/l	6.00		108	70-130			
Bromochloromethane	6.78	0.50	ug/l	6.00		113	70-130			
Bromodichloromethane	6.29	0.50	ug/l	6.00		105	70-130			
Bromoform	6.31	0.50	ug/l	6.00		105	70-130			
Bromomethane	6.81	0.50	ug/l	6.00		114	70-130			
Carbon tetrachloride	6.82	0.50	ug/l	6.00		114	70-130			
Chlorobenzene	6.57	0.50	ug/l	6.00		110	70-130			

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W3L0452 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W3L0452-BS1)				Analyzed: 12/10/13 10:05						
Chloroethane	6.64	0.50	ug/l	6.00		111	70-130			
Chloroform	7.03	0.50	ug/l	6.00		117	70-130			
Chloromethane	6.04	0.50	ug/l	6.00		101	70-130			
cis-1,2-Dichloroethene	6.46	0.50	ug/l	6.00		108	70-130			
cis-1,3-Dichloropropene	5.98	0.50	ug/l	6.00		100	70-130			
Dibromochloromethane	5.78	0.50	ug/l	6.00		96	70-130			
Dibromomethane	6.67	0.50	ug/l	6.00		111	70-130			
Dichlorodifluoromethane (Freon 12)	5.87	0.50	ug/l	6.00		98	70-130			
Di-isopropyl ether	6.23	2.0	ug/l	6.00		104	70-130			
Ethyl tert-butyl ether	5.29	2.0	ug/l	6.00		88	70-130			
Ethylbenzene	6.37	0.50	ug/l	6.00		106	70-130			
Freon 113	7.75	5.0	ug/l	6.00		129	70-130			
Hexachlorobutadiene	6.81	0.50	ug/l	6.00		114	70-130			
Isopropylbenzene	7.24	0.50	ug/l	6.00		121	70-130			
m,p-Xylene	6.41	0.50	ug/l	6.00		107	70-130			
m-Dichlorobenzene	7.35	0.50	ug/l	6.00		122	70-130			
Methyl tert-butyl ether (MTBE)	5.51	2.0	ug/l	6.00		92	70-130			
Methylene chloride	6.84	0.50	ug/l	6.00		114	70-130			
Naphthalene	5.37	0.50	ug/l	6.00		90	70-130			
n-Butylbenzene	6.65	0.50	ug/l	6.00		111	70-130			
n-Propylbenzene	7.50	0.50	ug/l	6.00		125	70-130			
o-Dichlorobenzene	7.33	0.50	ug/l	6.00		122	70-130			
o-Xylene	6.32	0.50	ug/l	6.00		105	70-130			
p-Dichlorobenzene	7.14	0.50	ug/l	6.00		119	70-130			
p-Isopropyltoluene	6.86	0.50	ug/l	6.00		114	70-130			
sec-Butylbenzene	7.67	0.50	ug/l	6.00		128	70-130			
Styrene	6.46	0.50	ug/l	6.00		108	70-130			
Tert-amyl methyl ether	5.37	2.0	ug/l	6.00		90	70-130			
tert-Butylbenzene	7.29	0.50	ug/l	6.00		122	70-130			
Tetrachloroethene	6.99	0.50	ug/l	6.00		116	70-130			
Toluene	6.36	0.50	ug/l	6.00		106	70-130			
trans-1,2-Dichloroethene	6.42	0.50	ug/l	6.00		107	70-130			
trans-1,3-Dichloropropene	5.74	0.50	ug/l	6.00		96	70-130			
Trichloroethene	6.96	0.50	ug/l	6.00		116	70-130			
Trichlorofluoromethane	7.02	0.50	ug/l	6.00		117	70-130			
Vinyl chloride	6.39	0.50	ug/l	6.00		106	70-130			
Surr: 1,2-Dichlorobenzene-d4	*11.5*		*ug/l*	*10.0*		*115*	*70-130*			
Surr: 4-Bromofluorobenzene	*10.2*		*ug/l*	*10.0*		*102*	*70-130*			
LCS Dup (W3L0452-BSD1)				Analyzed: 12/10/13 10:38						
1,1,1,2-Tetrachloroethane	6.43	0.50	ug/l	6.00		107	70-130	3	30	
1,1,1-Trichloroethane	6.70	0.50	ug/l	6.00		112	70-130	2	30	
1,1,2,2-Tetrachloroethane	6.72	0.50	ug/l	6.00		112	70-130	8	30	
1,1,2-Trichloroethane	6.93	0.50	ug/l	6.00		116	70-130	4	30	
1,1-Dichloroethane	6.88	0.50	ug/l	6.00		115	70-130	1	30	

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W3L0452 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W3L0452-BSD1)				Analyzed: 12/10/13 10:38						
1,1-Dichloroethene	6.52	0.50	ug/l	6.00		109	70-130	2	30	
1,1-Dichloropropene	7.51	0.50	ug/l	6.00		125	70-130	0.7	30	
1,2,3-Trichlorobenzene	6.39	0.50	ug/l	6.00		106	70-130	6	30	
1,2,3-Trichloropropane	8.00	0.50	ug/l	6.00		133	70-130	7	30	BS-03
1,2,4-Trichlorobenzene	5.81	0.50	ug/l	6.00		97	70-130	0.9	30	
1,2,4-Trimethylbenzene	6.88	0.50	ug/l	6.00		115	70-130	0.4	30	
1,2-Dichloroethane	7.20	0.50	ug/l	6.00		120	70-130	4	30	
1,2-Dichloropropane	7.45	0.50	ug/l	6.00		124	70-130	2	30	
1,3,5-Trimethylbenzene	6.71	0.50	ug/l	6.00		112	70-130	0.6	30	
1,3-Dichloropropane	7.54	0.50	ug/l	6.00		126	70-130	2	30	
2,2-Dichloropropane	5.82	0.50	ug/l	6.00		97	70-130	3	30	
2-Butanone	5.75	5.0	ug/l	6.00		96	70-130	4	30	
2-Chloroethyl vinyl ether	5.80	1.0	ug/l	6.00		97	70-130	3	30	
2-Chlorotoluene	7.06	0.50	ug/l	6.00		118	70-130	4	30	
2-Hexanone	6.17	5.0	ug/l	6.00		103	70-130	10	30	
4-Chlorotoluene	7.89	0.50	ug/l	6.00		132	70-130	0.9	30	BS-03
4-Methyl-2-pentanone	5.77	5.0	ug/l	6.00		96	70-130	5	30	
Benzene	6.62	0.50	ug/l	6.00		110	70-130	0.9	30	
Bromobenzene	6.64	0.50	ug/l	6.00		111	70-130	3	30	
Bromochloromethane	6.96	0.50	ug/l	6.00		116	70-130	3	30	
Bromodichloromethane	6.56	0.50	ug/l	6.00		109	70-130	4	30	
Bromoform	6.76	0.50	ug/l	6.00		113	70-130	7	30	
Bromomethane	6.64	0.50	ug/l	6.00		111	70-130	3	30	
Carbon tetrachloride	6.95	0.50	ug/l	6.00		116	70-130	2	30	
Chlorobenzene	6.68	0.50	ug/l	6.00		111	70-130	2	30	
Chloroethane	6.65	0.50	ug/l	6.00		111	70-130	0.2	30	
Chloroform	7.13	0.50	ug/l	6.00		119	70-130	1	30	
Chloromethane	5.85	0.50	ug/l	6.00		98	70-130	3	30	
cis-1,2-Dichloroethene	6.56	0.50	ug/l	6.00		109	70-130	2	30	
cis-1,3-Dichloropropene	6.20	0.50	ug/l	6.00		103	70-130	4	30	
Dibromochloromethane	6.13	0.50	ug/l	6.00		102	70-130	6	30	
Dibromomethane	6.96	0.50	ug/l	6.00		116	70-130	4	30	
Dichlorodifluoromethane (Freon 12)	6.01	0.50	ug/l	6.00		100	70-130	2	30	
Di-isopropyl ether	6.57	2.0	ug/l	6.00		110	70-130	5	30	
Ethyl tert-butyl ether	5.47	2.0	ug/l	6.00		91	70-130	3	30	
Ethylbenzene	6.39	0.50	ug/l	6.00		106	70-130	0.3	30	
Freon 113	7.72	5.0	ug/l	6.00		129	70-130	0.4	30	
Hexachlorobutadiene	6.66	0.50	ug/l	6.00		111	70-130	2	30	
Isopropylbenzene	7.28	0.50	ug/l	6.00		121	70-130	0.6	30	
m,p-Xylene	6.45	0.50	ug/l	6.00		108	70-130	0.6	30	
m-Dichlorobenzene	7.35	0.50	ug/l	6.00		122	70-130	NR	30	
Methyl tert-butyl ether (MTBE)	5.85	2.0	ug/l	6.00		98	70-130	6	30	
Methylene chloride	6.98	0.50	ug/l	6.00		116	70-130	2	30	
Naphthalene	5.58	0.50	ug/l	6.00		93	70-130	4	30	

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Batch W3L0452 - EPA 524.2

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS Dup (W3L0452-BSD1)				Analyzed: 12/10/13 10:38						
n-Butylbenzene	6.50	0.50	ug/l	6.00		108	70-130	2	30	
n-Propylbenzene	7.65	0.50	ug/l	6.00		128	70-130	2	30	
o-Dichlorobenzene	7.43	0.50	ug/l	6.00		124	70-130	1	30	
o-Xylene	6.45	0.50	ug/l	6.00		108	70-130	2	30	
p-Dichlorobenzene	7.11	0.50	ug/l	6.00		118	70-130	0.4	30	
p-Isopropyltoluene	6.82	0.50	ug/l	6.00		114	70-130	0.6	30	
sec-Butylbenzene	7.68	0.50	ug/l	6.00		128	70-130	0.1	30	
Styrene	6.59	0.50	ug/l	6.00		110	70-130	2	30	
Tert-amyl methyl ether	5.60	2.0	ug/l	6.00		93	70-130	4	30	
tert-Butylbenzene	7.49	0.50	ug/l	6.00		125	70-130	3	30	
Tetrachloroethene	7.09	0.50	ug/l	6.00		118	70-130	1	30	
Toluene	6.43	0.50	ug/l	6.00		107	70-130	1	30	
trans-1,2-Dichloroethene	6.64	0.50	ug/l	6.00		111	70-130	3	30	
trans-1,3-Dichloropropene	6.03	0.50	ug/l	6.00		100	70-130	5	30	
Trichloroethene	7.00	0.50	ug/l	6.00		117	70-130	0.6	30	
Trichlorofluoromethane	7.14	0.50	ug/l	6.00		119	70-130	2	30	
Vinyl chloride	6.54	0.50	ug/l	6.00		109	70-130	2	30	
Surr: 1,2-Dichlorobenzene-d4	*11.4*		*ug/l*	*10.0*		*114*	*70-130*			
Surr: 4-Bromofluorobenzene	*10.4*		*ug/l*	*10.0*		*104*	*70-130*			

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Notes and Definitions

S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
MS-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
BS-03	The recovery of this analyte in the BS/LCS was outside the control limits. The sample result was accepted based on another acceptable BS/LCS and/or MS and MSD that meet BS criteria.
B-07	This analyte was found in the method blank at levels above the MDL but below the reporting limit.
A-01	Analysis subcontracted to Pace Analytical, NELAP Certified 04222CA
****	The recommended holding time for field filtering is only 15 minutes. The sample was filtered as soon as possible but it was filtered past holding time. However, the sample was analyzed within holding time.
*	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reportable
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

BSK Associates Engineers & Laboratories

~~[illegible] Stanislaus St, Fresno, CA 93706~~
~~(559) 497-2888 Fax: (559) 497-2893~~
~~www.bskassociates.com~~

Weck Laboratories Inc.
14859 East Clark Avenue
City of Industry, CA 91745
Weck Project Manager: Marilyn Romero

3L09093

Appendix G

ANALYTICAL CHAIN OF CUSTODY

*Required Fields

Temp:

Company/Client Name*:	Report Attention*:	Invoice To*:	Phone*: / Fax*:
California American Water	Travis Peterson Additional cc's: Sarp Sekeroglu, RBF Consulting	Accounts Payable PO#:	(831) 646-3295/(831) 646-3269 (831) 333-1343 E-mail*: susan.jacobson@amwater.com,travis.peterson@amwater.com

Address*:	City*:	State*:	Zip*:
PO Box 951	Monterey	CA	93942-0951

Project: Water Quality Analysis – MPWSP

Project #:

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type:

How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail

Sampler Name (Printed/Signature)*: Nathan Reynolds / [signature]

TAT* **Surcharge
☒ Standard - 10 Business Days
☐ **Rush: Date Needed

Regulatory Carbon Copies: CDPH ☐ ☐ Fresno Co; Merced Co ☐ ☐ Tulare Co; Madera Co ☐ ☐ Other:

Regulatory Compliance: ☐ EDT to California DPH; System Number*: ; ☐ Geotracker #:

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	Alkalinity, Hardness, MBAS, Color, Odor, TDS, pH, Turbidity, EC	Mass Balance-Dissolved: Cations and Anions	Dissolved Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na, Sr, silica	Total Metals: Al, As, Cu, Fe, Mn, Zn	Dissolved: Bromide, Chloride, Nitrite, Fluoride, Sulfate, Orthophosphate-P	Dissolved: Ammonia, TKN, Phosphorus	Nitrate+Nitrite as N, Nitrate-NO3,	EPA 524, 504, 505, 515, 525, 531, 547, 548, 549	EXT-Tritium, EXT-Lithium, EXT-Dissolved Iodide, EXT-Dioxin
30	ML-4 Zone #2 (74.5 - 84.5 Abgs)	12-6-13	12:25	water	Seawater salinity levels.	X	X	X	X	X	X	X	X	X
					Lab to filter dissolved metals.									
					Lab to filter Diss. Ammonia, TKN, P									
					~~Okay to analyze out of hold time.~~									
					Please run dissolved and Total Mass Balance.									
					Field Parameters: Temp = 17.7 °C									
					pH = 6.57									
					Sp Cond = 12,933 uS/cm									
					Turb = 0.94 NTU									

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
[signature] Nathan Reynolds	GEOSCIENCE			[signature] 12-7-13 8:30 3.4°C	
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: PIA#:	Check / Cash Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier:

Cooling Method: Wet Blue None

Custody Seal: Y / N

Chilling Process Begun: Y / N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

SR-FL-0012-05 Analytical Chain of Custody

12/4/2013 10:10 AM

BSK Associates
Bottle Order Form

Appendix G

Date Needed: 12/5/2013

Client: RBF Consulting

Attention: Sarp Sekeroglu

Address: 3180 Imjin Rd Suite 110

City: Marina State, Zip: CA, 93933

Email: ssekeroglu@rbf.com

Phone: (858) 401-3988 Requested By: MSN

Fax: Date Requested: 12/4/2013

Prepared By: FQ

Date Shipped: 12-4-13

Special Instructions:

Ship Via

ONTRAC

Shipping Details

Box with Ice Chest

Blue Ice

ONTRAC Return Label

COC - Prepared

Tests	Description	Preservative	Sets	Lot Number
Metals: Inorganic / Gen Min.	500mL Plastic red lid / label	HNO3	2	
Chlorite, Bromate, Bromide, Chlorate	250mL AG brown label	EDA	1	
Odor: General Physical	500mL AG	None	1	
Non-Metals: Alk, F, Res. Cl, pH,CO2, Solids, SO4	500mL Plastic white lid / label	None	1	
Gen Mineral/Inorganic; BOD, Pb&Cu,TDS, TSS	1L Plastic white lid / label	None	2	
Ammonia, TKN, Phosphorus Nitrate + Nitrite N	250mL Plastic yellow lid / label	H2SO4	1	
EPA 524.2 & 1,2,3-TCP - Raw Water	3 X 40mL VOAs	HCl	1	
EPA 504 / 505	3 X 40mL VOAs	Na2S2O3	2	
EPA 515	250mL AG blue label	Na2S2O3	1	
EPA 525	2 X 1L AG blue label	Na2S2O3	1	
EPA 531.1	1 x 40mL VOA orange label	MCAA + Na2S2O3	1	
EPA 547-Glyphosate	1 x 40mL VOA blue label	Na2S2O3	1	
EPA 548-Endothall	250mL AG blue label	Na2S2O3	1	
EPA 549-Diquat	1L Plastic (Brown)	Na2S2O3	1	
Dioxin	2 X 1L AG	-	1	
Iodide	250 mL Plastic	None	1	
Tritium	250 mL AG	None	1	

Pace Analytical Services, Inc.
1638 Roseytown Road, Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 23, 2013

Mr. Hai Van Nguyen
Weck Laboratories, Inc.
14859 East Clark Avenue
Hacienda Heights, CA 917451396

RE: Project: 3L09093
Pace Project No.: 30109445

Dear Mr. Nguyen:
Enclosed are the analytical results for sample(s) received by the laboratory on December 11, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road, Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 3L09093
Pace Project No.: 30109445

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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1638 Roseytown Road, Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 3L09093
Pace Project No.: 30109445

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30109445001	**3L09093-01**	Water	12/06/13 12:25	12/11/13 11:00

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Greensburg, PA 15601
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Appendix G

SAMPLE ANALYTE COUNT

Project: 3L09093
Pace Project No.: 30109445

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30109445001	**3L09093-01**	EPA 906.0	SLA	1

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Greensburg, PA 15601
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Appendix G

ANALYTICAL RESULTS

Project: 3L09093
Pace Project No.: 30109445

Sample: 3L09093-01 **Lab ID: 30109445001** Collected: 12/06/13 12:25 Received: 12/11/13 11:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**-110 ± 130 (240)**	pCi/L	12/19/13 15:48	10028-17-8	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 3L09093
Pace Project No.: 30109445

QC Batch: RADC/18077 Analysis Method: EPA 906.0
QC Batch Method: EPA 906.0 Analysis Description: 906.0 Tritium
Associated Lab Samples: 30109445001

METHOD BLANK: 670612 Matrix: Water
Associated Lab Samples: 30109445001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	4.89 ± 127 (224)	pCi/L	12/18/13 22:27	

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 3L09093
Pace Project No.: 30109445

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

SUBCONTRACT ORDER

Subcontract Laboratory:
Pace Analytical Services - Greenburg PA
1638 Roseytown Road Ste 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600
Fax: (724) 722-5208

Turn Around Time: Normal
Project Manager: Hai Van Nguyen
Name of Sampler:
Sampler Employed by:

30109445

Sample ID: 3L09093-01 **Sample ID:** ML-4 Zone # 2 (74.5-84.5 ftbgs) **Matrix:** Water **Date Sampled:** 12/06/13 **Time Sampled:** 12:25
Sample comment:

Analysis	Expires	Comments
Tritium-SUB	06/04/14 12:25	
Containers Supplied:		
125 mL Amber Glass (AF)		

Remarks / Special Comments:

Sample Condition:
Temperature: 0.0
Preserved: Yes / No
Evidence Seal Intact: Yes / No
Container Attacked: Yes / No
Preserved at Lab: Yes / No

Relinquished By	Date / Time:	Received By	Date / Time:
Guangliang	12/10/13 12:20	Fedex	
Relinquished by	Date / Time:	Received By	Date / Time:
			12-11-13 11:00

Appendix G

Sample Condition Upon Receipt

Pace Analytical

Client Name: Weck Laboratories Project # 30109445

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 7473 6334 6814

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used (5) 6 7 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 0.0 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: MRC 12-11-13

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed MRC / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: RaCollins **Date:** 12/12/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

Project Number: 30109445

Client Name: Weck Laboratories

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
C01	WT	1 (Amber)																						

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

Travis Peterson
California American Water
836 Carmel Ave.
Monterey, CA 93940

RE: Report for A3K1920 Water Quality Analysis

Dear Travis Peterson,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 11/26/2013. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michael Ng, Project Manager

If additional clarification of any information is required, please contact your Project Manager, Michael Ng , at (800) 877-8310 or (559) 497-2888 x118.

Case Narrative

Project and Report Details		Invoice Details	
Client:	California American Water	**Invoice To:**	California American Water
Report To:	Travis Peterson	**Invoice Attn:**	Accounts Payable
Project #:	Water Quality Analysis	**Project PO#:**	-
Received:	11/26/2013 - 10:30		
Report Due:	12/12/2013		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 2.2

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Sample(s) were received in temperature range.
Initial receipt at BSK-SAC

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
BS3.0	BS/BSD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
BS4.0	BS/BSD RPD exceeded the method acceptance limit as one of the blank spikes recovered outside limits.
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
DL1.0	Sample required a dilution due to the matrix or high concentration of a non-target analyte.
HT1.0	Holding time exceeded. Sample was received at the lab past holding time.
HT1.6	Holding time exceeded. The holding time for this analysis is a recommendation and is not mandated by any state or federal agency.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
X.0	BS/BSD RPD is outside of acceptance limits

Report Distribution

Recipient(s)	Report Format
Travis Peterson	Final.rpt
Sarp Sekeroglu	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A3K1920-01
Sampled By: Nathan Reynolds
Sample Description: MPWSP ML-6 Zone #1 (152-162 ft bgs)

Sample Date - Time: 11/22/13 - 13:35
Matrix: Water
Sample Type: Grab

Field Data: pH=6.63 Temp=16.5 ºC Turb. =1.26 ntu

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320 B	**560**	30	mg/L	10	A314185	11/27/13	11/27/13	
Bicarbonate as CaCO3	SM 2320 B	**560**	30	mg/L	10	A314185	11/27/13	11/27/13	
Carbonate as CaCO3	SM 2320 B	ND	30	mg/L	10	A314185	11/27/13	11/27/13	
Hydroxide as CaCO3	SM 2320 B	ND	30	mg/L	10	A314185	11/27/13	11/27/13	
Ammonia as N	SM 4500-NH3 G	**6.8**	0.10	mg/L	1	A314346	12/04/13	12/09/13	
Bromide	EPA 300.1	**68**	1.2	mg/L	250	A314117	11/26/13	11/26/13	
Surrogate: Dichloroacetate	EPA 300.1	106 %	*Acceptable range: 90-115 %*						
Chloride	EPA 300.0	**19000**	200	mg/L	200	A314172	11/27/13	11/27/13	
Color, Apparent	SM 2120 B	**20**	1.0	CU	1	A314113	11/26/13 19:02	11/26/13	HT1.0
Conductivity @ 25C	SM 2510 B	**43000**	1.0	umhos/cm	1	A314132	11/26/13	11/26/13	
Fluoride	EPA 300.0	ND	2.0	mg/L	20	A314220	11/27/13	11/27/13	DL1.0
Mass Balance-Anions		**590**		meq/L					
Mass Balance-Dissolved Cations		**550**		meq/L					
MBAS, Calculated as LAS, mol wt 340	SM 5540 C	ND	0.10	mg/L	2	A314153	11/27/13 15:20	11/27/13	DL1.0, HT1.0
Nitrate as NO3	EPA 300.0	ND	200	mg/L	200	A314172	11/27/13 15:52	11/27/13	DL1.0, HT1.0
Nitrite as N	EPA 300.0	ND	10	mg/L	200	A314172	11/27/13 15:52	11/27/13	DL1.0, HT1.0
Threshold Odor	SM 2150 B	ND	1.0	T.O.N.	1	A314113	11/26/13 19:02	11/26/13	HT1.6
Orthophosphate as P	SM 4500-P E	**0.14**	0.010	mg/L	1	A314203	11/27/13 18:38	11/27/13	HT1.0
pH (1)	SM 4500-H+ B	**7.4**		pH Units	1	A314132	11/26/13	11/26/13	
pH Temperature in °C		**21.4**							
Phosphorus - Dissolved (1)	EPA 365.4	ND	0.10	mg/L	1	A314666	12/11/13	12/12/13	
Sulfate as SO4	EPA 300.0	**2000**	400	mg/L	200	A314172	11/27/13	11/27/13	
Total Dissolved Solids	SM 2540C	**34000**	5.0	mg/L	1	A314178	11/27/13	12/02/13	
Total Kjeldahl Nitrogen - Dissolved (1)	EPA 351.2	**7.3**	1.0	mg/L	1	A314282	12/03/13	12/05/13	
Total Oxidizable Nitrogen, as N - Dissolved (1)	SM 4500-NO3 F	ND	0.10	mg/L	1	A314432	12/05/13	12/05/13	
Turbidity	SM 2130 B	**6.5**	0.10	NTU	1	A314113	11/26/13 19:02	11/26/13	HT1.0

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aluminum	EPA 200.7	**0.052**	0.050	mg/L	1	A314146	11/26/13	12/04/13	
Arsenic	EPA 200.8	**4.5**	4.0	ug/L	2	A314146	11/26/13	12/02/13	
Barium - Dissolved (1)	EPA 200.7	ND	0.050	mg/L	1	A314514	12/06/13	12/10/13	
Boron - Dissolved (1)	EPA 200.7	**4.0**	0.10	mg/L	1	A314514	12/06/13	12/10/13	
Calcium	EPA 200.7	**550**	0.10	mg/L	1	A314146	11/26/13	12/04/13	
Calcium - Dissolved (1)	EPA 200.7	**570**	0.10	mg/L	1	A314514	12/06/13	12/10/13	
Copper	EPA 200.8	**58**	10	ug/L	2	A314146	11/26/13	12/02/13	
Hardness as CaCO3	SM 2340B	**6400**	0.41	mg/L					
Iron	EPA 200.7	**3.9**	0.030	mg/L	1	A314146	11/26/13	12/04/13	

Certificate of Analysis

Sample ID: A3K1920-01
Sampled By: Nathan Reynolds
Sample Description: MPWSP ML-6 Zone #1 (152-162 ft bgs)

Sample Date - Time: 11/22/13 - 13:35
Matrix: Water
Sample Type: Grab

Field Data: pH=6.63 Temp=16.5 ºC Turb. =1.26 ntu

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Iron - Dissolved (1)	EPA 200.7	ND	0.030	mg/L	1	A314514	12/06/13	12/10/13	
Magnesium	EPA 200.7	**1200**	0.10	mg/L	1	A314146	11/26/13	12/04/13	
Magnesium - Dissolved (1)	EPA 200.7	**1200**	0.10	mg/L	1	A314514	12/06/13	12/10/13	
Manganese	EPA 200.7	**3.8**	0.010	mg/L	1	A314146	11/26/13	12/04/13	
Manganese - Dissolved (1)	EPA 200.7	**3.9**	0.010	mg/L	1	A314514	12/06/13	12/10/13	
Potassium - Dissolved (1)	EPA 200.7	**250**	2.0	mg/L	1	A314514	12/06/13	12/10/13	
Silica (SiO2) - Dissolved (1)	EPA 200.7	**32**	0.20	mg/L	1	A314514	12/06/13	12/10/13	
Sodium - Dissolved (1)	EPA 200.7	**9400**	20	mg/L	20	A314514	12/06/13	12/10/13	
Strontium - Dissolved (1)	EPA 200.8	**12000**	10	ug/L	10	A314514	12/06/13	12/10/13	
Zinc	EPA 200.7	ND	0.050	mg/L	1	A314146	11/26/13	12/04/13	

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A314194	11/27/13	11/28/13	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A314194	11/27/13	11/28/13	
Surrogate: TCMX	EPA 504.1	103 %	*Acceptable range: 70-130 %*						
Organohalide Pesticides and PCBs by GC-ECD									
Aldrin	EPA 505	ND	0.075	ug/L	1	A314194	11/27/13	11/28/13	
Chlordane	EPA 505	ND	0.10	ug/L	1	A314194	11/27/13	11/28/13	
Chlorothalonil	EPA 505	ND	5.0	ug/L	1	A314194	11/27/13	11/28/13	
Dieldrin	EPA 505	ND	0.020	ug/L	1	A314194	11/27/13	11/28/13	
Endrin	EPA 505	ND	0.10	ug/L	1	A314194	11/27/13	11/28/13	
Heptachlor	EPA 505	ND	0.010	ug/L	1	A314194	11/27/13	11/28/13	
Heptachlor Epoxide	EPA 505	ND	0.010	ug/L	1	A314194	11/27/13	11/28/13	
Hexachlorobenzene	EPA 505	ND	0.50	ug/L	1	A314194	11/27/13	11/28/13	
Hexachlorocyclopentadiene	EPA 505	ND	1.0	ug/L	1	A314194	11/27/13	11/28/13	
Lindane	EPA 505	ND	0.20	ug/L	1	A314194	11/27/13	11/28/13	
Methoxychlor	EPA 505	ND	10	ug/L	1	A314194	11/27/13	11/28/13	
PCB Aroclor Screen	EPA 505	ND	0.50	ug/L	1	A314194	11/27/13	11/28/13	
Toxaphene	EPA 505	ND	1.0	ug/L	1	A314194	11/27/13	11/28/13	
Trifluralin	EPA 505	ND	1.0	ug/L	1	A314194	11/27/13	11/28/13	
Surrogate: TCMX	EPA 505	103 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A314421	12/05/13	12/08/13	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A314421	12/05/13	12/08/13	
2,4-D	EPA 515.3	ND	10	ug/L	1	A314421	12/05/13	12/08/13	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A314421	12/05/13	12/08/13	
Dalapon	EPA 515.3	ND	10	ug/L	1	A314421	12/05/13	12/08/13	

Certificate of Analysis

Sample ID: A3K1920-01
Sampled By: Nathan Reynolds
Sample Description: MPWSP ML-6 Zone #1 (152-162 ft bgs)

Sample Date - Time: 11/22/13 - 13:35
Matrix: Water
Sample Type: Grab

Field Data: pH=6.63 Temp=16.5 ºC Turb. =1.26 ntu

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chlorinated Acid Herbicides by GC-ECD									
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A314421	12/05/13	12/08/13	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A314421	12/05/13	12/08/13	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A314421	12/05/13	12/08/13	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A314421	12/05/13	12/08/13	
Surrogate: DCPAA	EPA 515.3	80 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A314277	12/03/13	12/04/13	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A314277	12/03/13	12/04/13	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A314277	12/03/13	12/04/13	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A314277	12/03/13	12/04/13	
Acetone	EPA 524.2	ND	10	ug/L	1	A314277	12/03/13	12/04/13	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	

Certificate of Analysis

Sample ID: A3K1920-01
Sampled By: Nathan Reynolds
Sample Description: MPWSP ML-6 Zone #1 (152-162 ft bgs)

Sample Date - Time: 11/22/13 - 13:35
Matrix: Water
Sample Type: Grab

Field Data: pH=6.63 Temp=16.5 ºC Turb. =1.26 ntu

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A314277	12/03/13	12/04/13	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A314277	12/03/13	12/04/13	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A314277	12/03/13	12/04/13	BS1.0, CV0.0
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A314277	12/03/13	12/04/13	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	93 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	104 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A314276	12/03/13	12/04/13	

Certificate of Analysis

Sample ID: A3K1920-01
Sampled By: Nathan Reynolds
Sample Description: MPWSP ML-6 Zone #1 (152-162 ft bgs)

Sample Date - Time: 11/22/13 - 13:35
Matrix: Water
Sample Type: Grab

Field Data: pH=6.63 Temp=16.5 ºC Turb. =1.26 ntu

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Semi-Volatile Organics by GC-MS									
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A314276	12/03/13	12/04/13	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A314276	12/03/13	12/04/13	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A314276	12/03/13	12/04/13	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A314276	12/03/13	12/04/13	
Bromacil	EPA 525.2	ND	10	ug/L	1	A314276	12/03/13	12/04/13	
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A314276	12/03/13	12/04/13	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A314276	12/03/13	12/04/13	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A314276	12/03/13	12/04/13	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A314276	12/03/13	12/04/13	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A314276	12/03/13	12/04/13	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A314276	12/03/13	12/04/13	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A314276	12/03/13	12/04/13	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A314276	12/03/13	12/04/13	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A314276	12/03/13	12/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	100 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A314122	11/26/13	11/26/13	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A314122	11/26/13	11/26/13	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A314122	11/26/13	11/26/13	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A314122	11/26/13	11/26/13	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A314122	11/26/13	11/26/13	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A314122	11/26/13	11/26/13	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A314122	11/26/13	11/26/13	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A314122	11/26/13	11/26/13	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A314204	12/01/13	12/01/13	
Surrogate: AMPA	EPA 547	104 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A314043	11/27/13	11/29/13	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A314169	11/27/13	12/03/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A314172										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: EMH	
Blank (A314172-BLK1)											
Chloride	ND	1.0	mg/L							11/27/13	
Nitrate as NO3	ND	1.0	mg/L							11/27/13	
Nitrite as N	ND	0.050	mg/L							11/27/13	
Sulfate as SO4	ND	2.0	mg/L							11/27/13	
Blank Spike (A314172-BS1)											
Chloride	50	1.0	mg/L	50		99	90-110			11/27/13	
Nitrate as NO3	50	1.0	mg/L	50		99	90-110			11/27/13	
Nitrite as N	0.51	0.050	mg/L	0.50		102	90-110			11/27/13	
Sulfate as SO4	50	2.0	mg/L	50		99	90-110			11/27/13	
Blank Spike Dup (A314172-BSD1)											
Chloride	48	1.0	mg/L	50		97	90-110	3	20	11/27/13	
Nitrate as NO3	48	1.0	mg/L	50		97	90-110	2	20	11/27/13	
Nitrite as N	0.50	0.050	mg/L	0.50		100	90-110	2	20	11/27/13	
Sulfate as SO4	48	2.0	mg/L	50		97	90-110	2	20	11/27/13	
Matrix Spike (A314172-MS1), Source: A3K1922-04											
Chloride	120	2.0	mg/L	100	20	99	80-120			11/27/13	
Nitrate as NO3	100	2.0	mg/L	100	4.8	99	80-120			11/27/13	
Nitrite as N	1.0	0.10	mg/L	1.0		101	80-120			11/27/13	
Sulfate as SO4	100	4.0	mg/L	100	ND	98	80-120			11/27/13	
Matrix Spike (A314172-MS2), Source: A3K1953-01											
Chloride	110	2.0	mg/L	100	8.7	100	80-120			11/27/13	
Nitrate as NO3	110	2.0	mg/L	100	11	101	80-120			11/27/13	
Nitrite as N	0.98	0.10	mg/L	1.0	ND	98	80-120			11/27/13	
Sulfate as SO4	110	4.0	mg/L	100	11	101	80-120			11/27/13	
Matrix Spike Dup (A314172-MSD1), Source: A3K1922-04											
Chloride	120	2.0	mg/L	100	20	100	80-120	1	20	11/27/13	
Nitrate as NO3	100	2.0	mg/L	100	4.8	99	80-120	0	20	11/27/13	
Nitrite as N	1.0	0.10	mg/L	1.0		100	80-120	1	20	11/27/13	
Sulfate as SO4	100	4.0	mg/L	100	ND	97	80-120	1	20	11/27/13	
Matrix Spike Dup (A314172-MSD2), Source: A3K1953-01											
Chloride	110	2.0	mg/L	100	8.7	98	80-120	2	20	11/27/13	
Nitrate as NO3	110	2.0	mg/L	100	11	100	80-120	1	20	11/27/13	
Nitrite as N	0.97	0.10	mg/L	1.0	ND	97	80-120	1	20	11/27/13	
Sulfate as SO4	110	4.0	mg/L	100	11	98	80-120	2	20	11/27/13	
EPA 300.0 - Quality Control											
Batch: A314220										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314220-BLK1)											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A314220										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314220-BLK1)											
Fluoride	ND	0.10	mg/L							11/27/13	
Blank Spike (A314220-BS1)											
Fluoride	0.50	0.10	mg/L	0.50		99	90-110			11/27/13	
Blank Spike Dup (A314220-BSD1)											
Fluoride	0.49	0.10	mg/L	0.50		99	90-110	1	10	11/27/13	
Matrix Spike (A314220-MS1), Source: A3K1732-04											
Fluoride	0.98	0.20	mg/L	1.0	ND	88	80-120			11/27/13	
Matrix Spike (A314220-MS2), Source: A3K1891-02											
Fluoride	1.3	0.20	mg/L	1.0	0.30	99	80-120			11/27/13	
Matrix Spike Dup (A314220-MSD1), Source: A3K1732-04											
Fluoride	0.99	0.20	mg/L	1.0	ND	89	80-120	1	10	11/27/13	
Matrix Spike Dup (A314220-MSD2), Source: A3K1891-02											
Fluoride	1.3	0.20	mg/L	1.0	0.30	100	80-120	1	10	11/27/13	
EPA 300.1 - Quality Control											
Batch: A314117										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314117-BLK1)											
Bromide	ND	0.0050	mg/L							11/26/13	
Surrogate: Dichloroacetate	*0.451*			*0.50*		*90*	*90-115*			11/26/13	
Blank Spike (A314117-BS1)											
Bromide	0.18	0.0050	mg/L	0.20		92	85-115			11/26/13	
Surrogate: Dichloroacetate	*0.465*			*0.50*		*93*	*90-115*			11/26/13	
Blank Spike Dup (A314117-BSD1)											
Bromide	0.18	0.0050	mg/L	0.20		92	85-115	1	10	11/26/13	
Surrogate: Dichloroacetate	*0.476*			*0.50*		*95*	*90-115*			11/26/13	
Matrix Spike (A314117-MS1), Source: A3K1815-03											
Bromide	1.1	0.050	mg/L	1.0	0.14	95	75-125			11/26/13	
Surrogate: Dichloroacetate	*5.02*			*5.0*		*100*	*90-115*			11/26/13	
Matrix Spike Dup (A314117-MSD1), Source: A3K1815-03											
Bromide	1.1	0.050	mg/L	1.0	0.14	94	75-125	1	10	11/26/13	
Surrogate: Dichloroacetate	*5.30*			*5.0*		*106*	*90-115*			11/26/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 351.2 - Quality Control											
Batch: A314282										Prepared: 12/3/2013	
Prep Method: Digestion										Analyst: KKC	
Blank (A314282-BLK1)											
Total Kjeldahl Nitrogen - Dissolved (1)	ND	1.0	mg/L							12/05/13	
Blank Spike (A314282-BS1)											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10		106	90-110			12/05/13	
Blank Spike Dup (A314282-BSD1)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		102	90-110	4	10	12/05/13	
Matrix Spike (A314282-MS1), Source: A3K2014-02											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10	ND	109	90-110			12/05/13	
Matrix Spike Dup (A314282-MSD1), Source: A3K2014-02											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10	ND	106	90-110	3	10	12/05/13	
EPA 365.4 - Quality Control											
Batch: A314666										Prepared: 12/11/2013	
Prep Method: Digestion										Analyst: KKC	
Blank (A314666-BLK1)											
Phosphorus - Dissolved (1)	ND	0.10	mg/L							12/12/13	
Blank Spike (A314666-BS1)											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10		101	90-110			12/12/13	
Blank Spike Dup (A314666-BSD1)											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10		103	90-110	2	10	12/12/13	
Matrix Spike (A314666-MS1), Source: A3L0659-05											
Phosphorus - Dissolved (1)	9.7	0.10	mg/L	10	ND	97	90-110			12/12/13	
Matrix Spike Dup (A314666-MSD1), Source: A3L0659-05											
Phosphorus - Dissolved (1)	9.4	0.10	mg/L	10	ND	94	90-110	3	10	12/12/13	
SM 2120 B - Quality Control											
Batch: A314113										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314113-BLK1)											
Color, Apparent	ND	1.0	CU							11/26/13	
Duplicate (A314113-DUP1), Source: A3K1910-01											
Color, Apparent	10	1.0	CU		10			0	20	11/26/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2130 B - Quality Control											
Batch: A314113										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314113-BLK1)											
Turbidity	ND	0.10	NTU							11/26/13	
Duplicate (A314113-DUP1), Source: A3K1910-01											
Turbidity	1.6	0.10	NTU		1.6			4	20	11/26/13	
SM 2150 B - Quality Control											
Batch: A314113										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314113-BLK1)											
Threshold Odor	ND	1.0	T.O.N.							11/26/13	
Duplicate (A314113-DUP1), Source: A3K1910-01											
Threshold Odor	ND	1.0	T.O.N.		ND				20	11/26/13	
SM 2320 B - Quality Control											
Batch: A314185										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314185-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							11/27/13	
Bicarbonate as CaCO3	ND	3.0	mg/L							11/27/13	
Carbonate as CaCO3	ND	3.0	mg/L							11/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L							11/27/13	
Blank Spike (A314185-BS1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		102	80-120			11/27/13	
Blank Spike Dup (A314185-BSD1)											
Alkalinity as CaCO3	96	3.0	mg/L	100		96	80-120	6	20	11/27/13	
Duplicate (A314185-DUP1), Source: A3K1958-01											
Alkalinity as CaCO3	340	3.0	mg/L		340			0	10	11/27/13	
Bicarbonate as CaCO3	320	3.0	mg/L		320			0	10	11/27/13	
Carbonate as CaCO3	17	3.0	mg/L		18			6	10	11/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	11/27/13	
Duplicate (A314185-DUP2), Source: A3K1962-02											
Alkalinity as CaCO3	260	3.0	mg/L		250			5	10	11/27/13	
Bicarbonate as CaCO3	260	3.0	mg/L		250			5	10	11/27/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	11/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	11/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2510 B - Quality Control											
Batch: A314132										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314132-BLK1)											
Conductivity @ 25C	ND	1.0	umhos/cm							11/26/13	
Duplicate (A314132-DUP1), Source: A3K1885-01											
Conductivity @ 25C	1400	1.0	umhos/cm		1400			0	20	11/26/13	
Duplicate (A314132-DUP2), Source: A3K1922-06											
Conductivity @ 25C	210	1.0	umhos/cm		210			0	20	11/26/13	
SM 2540C - Quality Control											
Batch: A314178										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank (A314178-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							12/02/13	
Blank Spike (A314178-BS1)											
Total Dissolved Solids	990	5.0	mg/L	1000		99	70-130			12/02/13	
Duplicate (A314178-DUP1), Source: A3K1910-01											
Total Dissolved Solids	29000	5.0	mg/L		28000			5	20	12/02/13	
SM 4500-H+ B - Quality Control											
Batch: A314132										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Duplicate (A314132-DUP1), Source: A3K1885-01											
pH (1)	8.1		pH Units		8.1			0	20	11/26/13	
Duplicate (A314132-DUP2), Source: A3K1922-06											
pH (1)	7.9		pH Units		7.9			0	20	11/26/13	
SM 4500-NH3 G - Quality Control											
Batch: A314346										Prepared: 12/4/2013	
Prep Method: Ammonia Distillation										Analyst: KKC	
Blank (A314346-BLK1)											
Ammonia as N	ND	0.10	mg/L							12/09/13	
Blank Spike (A314346-BS1)											
Ammonia as N	9.9	0.10	mg/L	10		99	80-120			12/09/13	
Blank Spike Dup (A314346-BSD1)											
Ammonia as N	10	0.10	mg/L	10		102	80-120	2	20	12/09/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-NH3 G - Quality Control											
Batch: A314346										Prepared: 12/4/2013	
Prep Method: Ammonia Distillation										Analyst: KKC	
Matrix Spike (A314346-MS1), Source: A3K1829-06											
Ammonia as N	9.9	0.10	mg/L	10	0.41	94	80-120			12/09/13	
Matrix Spike (A314346-MS2), Source: A3K1880-10											
Ammonia as N	9.3	0.10	mg/L	10	ND	92	80-120			12/09/13	
Matrix Spike Dup (A314346-MSD1), Source: A3K1829-06											
Ammonia as N	10	0.10	mg/L	10	0.41	99	80-120	5	20	12/09/13	
Matrix Spike Dup (A314346-MSD2), Source: A3K1880-10											
Ammonia as N	9.9	0.10	mg/L	10	ND	98	80-120	6	20	12/09/13	
SM 4500-NO3 F - Quality Control											
Batch: A314432										Prepared: 12/5/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314432-BLK1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	ND	0.10	mg/L							12/05/13	
Blank Spike (A314432-BS1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.4	0.10	mg/L	10		94	80-120			12/05/13	
Blank Spike Dup (A314432-BSD1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.5	0.10	mg/L	10		95	80-120	1	20	12/05/13	
Matrix Spike (A314432-MS1), Source: A3K1854-02											
Total Oxidizable Nitrogen, as N - Dissolved (1)	14	0.10	mg/L	10	4.9	96	80-120			12/05/13	
Matrix Spike (A314432-MS2), Source: A3K1910-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	8.7	0.10	mg/L	10	ND	87	80-120			12/05/13	
Matrix Spike Dup (A314432-MSD1), Source: A3K1854-02											
Total Oxidizable Nitrogen, as N - Dissolved (1)	15	0.10	mg/L	10	4.9	96	80-120	0	20	12/05/13	
Matrix Spike Dup (A314432-MSD2), Source: A3K1910-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.2	0.10	mg/L	10	ND	92	80-120	5	20	12/05/13	
SM 4500-P E - Quality Control											
Batch: A314203										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314203-BLK1)											
Orthophosphate as P	ND	0.010	mg/L							11/27/13	
Blank Spike (A314203-BS1)											
Orthophosphate as P	0.23	0.010	mg/L	0.25		93	90-110			11/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-P E - Quality Control											
Batch: A314203										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank Spike Dup (A314203-BSD1)											
Orthophosphate as P	0.23	0.010	mg/L	0.25		92	90-110	1	20	11/27/13	
Matrix Spike (A314203-MS1), Source: A3K1964-02											
Orthophosphate as P	0.31	0.010	mg/L	0.25	0.082	91	80-120			11/27/13	
Matrix Spike Dup (A314203-MSD1), Source: A3K1964-02											
Orthophosphate as P	0.31	0.010	mg/L	0.25	0.082	92	80-120	1	20	11/27/13	
SM 5540 C - Quality Control											
Batch: A314153										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A314153-BLK1)											
MBAS, Calculated as LAS, mol wt 340	ND	0.050	mg/L							11/27/13	
Blank Spike (A314153-BS1)											
MBAS, Calculated as LAS, mol wt 340	0.90	0.050	mg/L	1.0		90	80-120			11/27/13	
Blank Spike Dup (A314153-BSD1)											
MBAS, Calculated as LAS, mol wt 340	0.93	0.050	mg/L	1.0		93	80-120	3	20	11/27/13	
Matrix Spike (A314153-MS1), Source: A3K1904-01											
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0	ND	99	80-120			11/27/13	
Matrix Spike Dup (A314153-MSD1), Source: A3K1904-01											
MBAS, Calculated as LAS, mol wt 340	0.97	0.050	mg/L	1.0	ND	93	80-120	6	20	11/27/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A314146										Prepared: 11/26/2013	
Prep Method: EPA 200.2										Analyst: NRE	
Blank (A314146-BLK2)											
Aluminum	ND	0.050	mg/L							12/04/13	
Calcium	ND	0.10	mg/L							12/04/13	
Iron	ND	0.030	mg/L							12/04/13	
Magnesium	ND	0.10	mg/L							12/04/13	
Manganese	ND	0.010	mg/L							12/04/13	
Zinc	ND	0.050	mg/L							12/04/13	
Blank Spike (A314146-BS2)											
Aluminum	0.19	0.050	mg/L	0.20		94	85-115			12/04/13	
Calcium	10	0.10	mg/L	10		100	85-115			12/04/13	
Iron	1.9	0.030	mg/L	2.0		97	85-115			12/04/13	
Magnesium	9.9	0.10	mg/L	10		99	85-115			12/04/13	
Manganese	0.20	0.010	mg/L	0.20		98	85-115			12/04/13	
Zinc	0.21	0.050	mg/L	0.20		103	85-115			12/04/13	
Blank Spike Dup (A314146-BSD2)											
Aluminum	0.18	0.050	mg/L	0.20		91	85-115	3	20	12/04/13	
Calcium	10	0.10	mg/L	10		102	85-115	1	20	12/04/13	
Iron	2.0	0.030	mg/L	2.0		98	85-115	0	20	12/04/13	
Magnesium	9.9	0.10	mg/L	10		99	85-115	1	20	12/04/13	
Manganese	0.20	0.010	mg/L	0.20		98	85-115	0	20	12/04/13	
Zinc	0.21	0.050	mg/L	0.20		103	85-115	0	20	12/04/13	
Matrix Spike (A314146-MS3), Source: A3K1935-01											
Aluminum	0.72	0.050	mg/L	0.20	0.42	150	70-130			12/04/13	MS1.0 ***High***
Calcium	53	0.10	mg/L	10	43	101	70-130			12/04/13	
Iron	2.5	0.030	mg/L	2.0	0.52	99	70-130			12/04/13	
Magnesium	11	0.10	mg/L	10	0.68	99	70-130			12/04/13	
Manganese	0.21	0.010	mg/L	0.20	0.020	97	70-130			12/04/13	
Zinc	0.21	0.050	mg/L	0.20	ND	107	70-130			12/04/13	
Matrix Spike Dup (A314146-MSD3), Source: A3K1935-01											
Aluminum	0.71	0.050	mg/L	0.20	0.42	144	70-130	1	20	12/04/13	MS1.0 ***High***
Calcium	52	0.10	mg/L	10	43	92	70-130	2	20	12/04/13	
Iron	2.5	0.030	mg/L	2.0	0.52	99	70-130	0	20	12/04/13	
Magnesium	11	0.10	mg/L	10	0.68	99	70-130	0	20	12/04/13	
Manganese	0.21	0.010	mg/L	0.20	0.020	97	70-130	0	20	12/04/13	
Zinc	0.21	0.050	mg/L	0.20	ND	104	70-130	3	20	12/04/13	
EPA 200.7 - Quality Control											
Batch: A314514										Prepared: 12/6/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Blank (A314514-BLK2)											
Barium - Dissolved (1)	ND	0.050	mg/L							12/10/13	
Boron - Dissolved (1)	ND	0.10	mg/L							12/10/13	

Metals Quality Control Report

EPA 200.7 - Quality Control

Batch: A314514 Prepared: 12/6/2013

Prep Method: Filtration - Metals Analyst: NRE

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A314514-BLK2)											
Calcium - Dissolved (1)	ND	0.10	mg/L							12/10/13	
Iron - Dissolved (1)	ND	0.030	mg/L							12/10/13	
Magnesium - Dissolved (1)	ND	0.10	mg/L							12/10/13	
Manganese - Dissolved (1)	ND	0.010	mg/L							12/10/13	
Potassium - Dissolved (1)	ND	2.0	mg/L							12/10/13	
Silica (SiO2) - Dissolved (1)	ND	0.20	mg/L							12/10/13	
Sodium - Dissolved (1)	ND	1.0	mg/L							12/10/13	
Blank Spike (A314514-BS2)											
Barium - Dissolved (1)	0.21	0.050	mg/L	0.20		106	85-115			12/10/13	
Boron - Dissolved (1)	0.63	0.10	mg/L	0.60		106	85-115			12/10/13	
Calcium - Dissolved (1)	11	0.10	mg/L	10		108	85-115			12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0		104	85-115			12/10/13	
Magnesium - Dissolved (1)	10	0.10	mg/L	10		105	85-115			12/10/13	
Manganese - Dissolved (1)	0.21	0.010	mg/L	0.20		104	85-115			12/10/13	
Potassium - Dissolved (1)	11	2.0	mg/L	10		105	85-115			12/10/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		102	85-115			12/10/13	
Sodium - Dissolved (1)	11	1.0	mg/L	10		106	85-115			12/10/13	
Blank Spike Dup (A314514-BSD2)											
Barium - Dissolved (1)	0.21	0.050	mg/L	0.20		105	85-115	1	20	12/10/13	
Boron - Dissolved (1)	0.63	0.10	mg/L	0.60		105	85-115	1	20	12/10/13	
Calcium - Dissolved (1)	11	0.10	mg/L	10		107	85-115	1	20	12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0		104	85-115	0	20	12/10/13	
Magnesium - Dissolved (1)	10	0.10	mg/L	10		104	85-115	1	20	12/10/13	
Manganese - Dissolved (1)	0.21	0.010	mg/L	0.20		103	85-115	1	20	12/10/13	
Potassium - Dissolved (1)	10	2.0	mg/L	10		103	85-115	2	20	12/10/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		101	85-115	1	20	12/10/13	
Sodium - Dissolved (1)	10	1.0	mg/L	10		104	85-115	2	20	12/10/13	
Matrix Spike (A314514-MS3), Source: A3K1890-01											
Barium - Dissolved (1)	0.22	0.050	mg/L	0.20	ND	110	70-130			12/10/13	
Boron - Dissolved (1)	1.1	0.10	mg/L	0.60	0.48	102	70-130			12/10/13	
Calcium - Dissolved (1)	13	0.10	mg/L	10	2.2	106	70-130			12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.089	103	70-130			12/10/13	
Magnesium - Dissolved (1)	11	0.10	mg/L	10	0.27	103	70-130			12/10/13	
Manganese - Dissolved (1)	0.30	0.010	mg/L	0.20	0.091	102	70-130			12/10/13	
Potassium - Dissolved (1)	12	2.0	mg/L	10	ND	103	70-130			12/10/13	
Silica (SiO2) - Dissolved (1)	57	0.20	mg/L	2.1	55	123	70-130			12/10/13	
Sodium - Dissolved (1)	150	1.0	mg/L	10	140	105	70-130			12/10/13	
Matrix Spike (A314514-MS4), Source: A3L0185-01											
Barium - Dissolved (1)	0.21	0.050	mg/L	0.20	ND	107	70-130			12/10/13	
Boron - Dissolved (1)	1.1	0.10	mg/L	0.60	0.52	103	70-130			12/10/13	
Calcium - Dissolved (1)	13	0.10	mg/L	10	2.7	106	70-130			12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.051	103	70-130			12/10/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A314514										Prepared: 12/6/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Matrix Spike (A314514-MS4), Source: A3L0185-01											
Magnesium - Dissolved (1)	10	0.10	mg/L	10	0.29	101	70-130			12/10/13	
Manganese - Dissolved (1)	0.21	0.010	mg/L	0.20	ND	105	70-130			12/10/13	
Potassium - Dissolved (1)	12	2.0	mg/L	10	ND	102	70-130			12/10/13	
Silica (SiO2) - Dissolved (1)	59	0.20	mg/L	2.1	57	116	70-130			12/10/13	
Sodium - Dissolved (1)	160	1.0	mg/L	10	150	124	70-130			12/10/13	
Matrix Spike Dup (A314514-MSD3), Source: A3K1890-01											
Barium - Dissolved (1)	0.22	0.050	mg/L	0.20	ND	111	70-130	1	20	12/10/13	
Boron - Dissolved (1)	1.1	0.10	mg/L	0.60	0.48	102	70-130	0	20	12/10/13	
Calcium - Dissolved (1)	13	0.10	mg/L	10	2.2	104	70-130	1	20	12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.089	103	70-130	0	20	12/10/13	
Magnesium - Dissolved (1)	10	0.10	mg/L	10	0.27	102	70-130	1	20	12/10/13	
Manganese - Dissolved (1)	0.29	0.010	mg/L	0.20	0.091	102	70-130	0	20	12/10/13	
Potassium - Dissolved (1)	12	2.0	mg/L	10	ND	103	70-130	0	20	12/10/13	
Silica (SiO2) - Dissolved (1)	57	0.20	mg/L	2.1	55	126	70-130	0	20	12/10/13	
Sodium - Dissolved (1)	150	1.0	mg/L	10	140	110	70-130	0	20	12/10/13	
Matrix Spike Dup (A314514-MSD4), Source: A3L0185-01											
Barium - Dissolved (1)	0.22	0.050	mg/L	0.20	ND	109	70-130	2	20	12/10/13	
Boron - Dissolved (1)	1.2	0.10	mg/L	0.60	0.52	107	70-130	2	20	12/10/13	
Calcium - Dissolved (1)	14	0.10	mg/L	10	2.7	109	70-130	2	20	12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.051	104	70-130	1	20	12/10/13	
Magnesium - Dissolved (1)	10	0.10	mg/L	10	0.29	101	70-130	0	20	12/10/13	
Manganese - Dissolved (1)	0.21	0.010	mg/L	0.20	ND	105	70-130	0	20	12/10/13	
Potassium - Dissolved (1)	12	2.0	mg/L	10	ND	105	70-130	2	20	12/10/13	
Silica (SiO2) - Dissolved (1)	61	0.20	mg/L	2.1	57	221	70-130	4	20	12/10/13	MS1.0 ***High***
Sodium - Dissolved (1)	160	1.0	mg/L	10	150	166	70-130	3	20	12/10/13	MS1.0 ***High***
EPA 200.8 - Quality Control											
Batch: A314146										Prepared: 11/26/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Blank (A314146-BLK1)											
Arsenic	ND	2.0	ug/L							11/27/13	
Copper	ND	5.0	ug/L							11/27/13	
Blank Spike (A314146-BS1)											
Arsenic	190	2.0	ug/L	200		95	85-115			11/27/13	
Copper	180	5.0	ug/L	200		92	85-115			11/27/13	
Blank Spike Dup (A314146-BSD1)											
Arsenic	190	2.0	ug/L	200		93	85-115	2	20	11/27/13	
Copper	180	5.0	ug/L	200		89	85-115	3	20	11/27/13	
Matrix Spike (A314146-MS1), Source: A3K1935-01											
Arsenic	200	2.0	ug/L	200	10	95	70-130			11/27/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A314146										Prepared: 11/26/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Matrix Spike (A314146-MS1), Source: A3K1935-01											
Copper	180	5.0	ug/L	200	ND	87	70-130			11/27/13	
Matrix Spike (A314146-MS2), Source: A3K1935-02											
Arsenic	210	2.0	ug/L	200	13	99	70-130			11/27/13	
Copper	180	5.0	ug/L	200	ND	91	70-130			11/27/13	
Matrix Spike Dup (A314146-MSD1), Source: A3K1935-01											
Arsenic	200	2.0	ug/L	200	10	96	70-130	1	20	11/27/13	
Copper	180	5.0	ug/L	200	ND	88	70-130	0	20	11/27/13	
Matrix Spike Dup (A314146-MSD2), Source: A3K1935-02											
Arsenic	210	2.0	ug/L	200	13	98	70-130	1	20	11/27/13	
Copper	180	5.0	ug/L	200	ND	91	70-130	0	20	11/27/13	
EPA 200.8 - Quality Control											
Batch: A314514										Prepared: 12/6/2013	
Prep Method: Filtration - Metals										Analyst: MAS	
Blank (A314514-BLK1)											
Strontium - Dissolved (1)	ND	1.0	ug/L							12/10/13	
Blank Spike (A314514-BS1)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		99	85-115			12/10/13	
Blank Spike Dup (A314514-BSD1)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		98	85-115	1	20	12/10/13	
Matrix Spike (A314514-MS1), Source: A3K1890-01											
Strontium - Dissolved (1)	220	1.0	ug/L	200	23	101	70-130			12/10/13	
Matrix Spike Dup (A314514-MSD1), Source: A3K1890-01											
Strontium - Dissolved (1)	220	1.0	ug/L	200	23	96	70-130	4	20	12/10/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A314194										Prepared: 11/27/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A314194-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							11/27/13	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							11/27/13	
Surrogate: TCMX	*4.2*			*4.5*		*94*	*70-130*			11/27/13	
Blank Spike (A314194-BS1)											
Dibromochloropropane (DBCP)	0.21	0.010	ug/L	0.20		107	70-130			11/27/13	
Ethylene Dibromide (EDB)	0.22	0.020	ug/L	0.20		108	70-130			11/27/13	
Surrogate: TCMX	*4.2*			*4.5*		*93*	*70-130*			11/27/13	
Blank Spike Dup (A314194-BSD1)											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20		108	70-130	1	20	11/28/13	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.20		105	70-130	3	20	11/28/13	
Surrogate: TCMX	*4.2*			*4.5*		*95*	*70-130*			11/28/13	
Matrix Spike (A314194-MS1), Source: A3K1596-06											
Dibromochloropropane (DBCP)	0.23	0.010	ug/L	0.20	ND	113	65-135			11/27/13	
Ethylene Dibromide (EDB)	0.20	0.020	ug/L	0.20	ND	98	65-135			11/27/13	
Surrogate: TCMX	*4.0*			*4.5*		*88*	*70-130*			11/27/13	
Matrix Spike Dup (A314194-MSD1), Source: A3K1596-06											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20	ND	111	65-135	1	20	11/27/13	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.20	ND	105	65-135	7	20	11/27/13	
Surrogate: TCMX	*4.1*			*4.5*		*90*	*70-130*			11/27/13	
EPA 505 - Quality Control											
Batch: A314194										Prepared: 11/27/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A314194-BLK1)											
Aldrin	ND	0.075	ug/L							11/27/13	
Chlordane	ND	0.10	ug/L							11/27/13	
Chlorothalonil	ND	5.0	ug/L							11/27/13	
Dieldrin	ND	0.020	ug/L							11/27/13	
Endrin	ND	0.10	ug/L							11/27/13	
Heptachlor	ND	0.010	ug/L							11/27/13	
Heptachlor Epoxide	ND	0.010	ug/L							11/27/13	
Hexachlorobenzene	ND	0.50	ug/L							11/27/13	
Hexachlorocyclopentadiene	ND	1.0	ug/L							11/27/13	
Lindane	ND	0.20	ug/L							11/27/13	
Methoxychlor	ND	10	ug/L							11/27/13	
PCB Aroclor Screen	ND	0.50	ug/L							11/27/13	
Toxaphene	ND	1.0	ug/L							11/27/13	
Trifluralin	ND	1.0	ug/L							11/27/13	
Surrogate: TCMX	*4.2*			*4.5*		*94*	*70-130*			11/27/13	
Blank Spike (A314194-BS1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 505 - Quality Control											
Batch: A314194										Prepared: 11/27/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank Spike (A314194-BS1)											
Aldrin	1.0	0.075	ug/L	1.0		101	70-130			11/27/13	
Chlorothalonil	9.8	5.0	ug/L	10		98	70-130			11/27/13	
Dieldrin	0.47	0.020	ug/L	0.40		117	70-130			11/27/13	
Endrin	0.23	0.10	ug/L	0.20		115	70-130			11/27/13	
Heptachlor	0.23	0.010	ug/L	0.20		115	70-130			11/27/13	
Heptachlor Epoxide	0.23	0.010	ug/L	0.20		113	70-130			11/27/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0		103	70-130			11/27/13	
Hexachlorocyclopentadiene	2.0	1.0	ug/L	2.0		99	70-130			11/27/13	
Lindane	0.47	0.20	ug/L	0.40		117	70-130			11/27/13	
Methoxychlor	2.5	10	ug/L	2.0		124	70-130			11/27/13	
Trifluralin	2.3	1.0	ug/L	2.0		116	70-130			11/27/13	
Surrogate: TCMX	*4.2*			*4.5*		*93*	*70-130*			11/27/13	
Blank Spike Dup (A314194-BSD1)											
Aldrin	0.98	0.075	ug/L	1.0		98	70-130	3	20	11/28/13	
Chlorothalonil	9.9	5.0	ug/L	10		99	70-130	1	20	11/28/13	
Dieldrin	0.47	0.020	ug/L	0.40		116	70-130	0	20	11/28/13	
Endrin	0.23	0.10	ug/L	0.20		114	70-130	1	20	11/28/13	
Heptachlor	0.23	0.010	ug/L	0.20		113	70-130	2	20	11/28/13	
Heptachlor Epoxide	0.24	0.010	ug/L	0.20		119	70-130	6	20	11/28/13	
Hexachlorobenzene	2.0	0.50	ug/L	2.0		100	70-130	3	20	11/28/13	
Hexachlorocyclopentadiene	1.8	1.0	ug/L	2.0		88	70-130	11	20	11/28/13	
Lindane	0.47	0.20	ug/L	0.40		118	70-130	1	20	11/28/13	
Methoxychlor	2.5	10	ug/L	2.0		125	70-130	1	20	11/28/13	
Trifluralin	2.3	1.0	ug/L	2.0		114	70-130	1	20	11/28/13	
Surrogate: TCMX	*4.2*			*4.5*		*95*	*70-130*			11/28/13	
Matrix Spike (A314194-MS1), Source: A3K1596-06											
Aldrin	0.91	0.075	ug/L	1.0	ND	90	65-135			11/27/13	
Chlorothalonil	10	5.0	ug/L	10	ND	99	65-135			11/27/13	
Dieldrin	0.46	0.020	ug/L	0.40	ND	113	65-135			11/27/13	
Endrin	0.24	0.10	ug/L	0.20	ND	118	65-135			11/27/13	
Heptachlor	0.21	0.010	ug/L	0.20	ND	104	65-135			11/27/13	
Heptachlor Epoxide	0.23	0.010	ug/L	0.20	ND	114	65-135			11/27/13	
Hexachlorobenzene	1.9	0.50	ug/L	2.0	ND	96	65-135			11/27/13	
Hexachlorocyclopentadiene	1.6	1.0	ug/L	2.0	ND	77	65-135			11/27/13	
Lindane	0.47	0.20	ug/L	0.40	ND	117	65-135			11/27/13	
Methoxychlor	2.5	10	ug/L	2.0	ND	126	65-135			11/27/13	
Trifluralin	2.0	1.0	ug/L	2.0	ND	101	65-135			11/27/13	
Surrogate: TCMX	*4.0*			*4.5*		*88*	*70-130*			11/27/13	
Matrix Spike Dup (A314194-MSD1), Source: A3K1596-06											
Aldrin	1.0	0.075	ug/L	1.0	ND	100	65-135	10	20	11/27/13	
Chlorothalonil	10	5.0	ug/L	10	ND	102	65-135	3	20	11/27/13	
Dieldrin	0.47	0.020	ug/L	0.40	ND	117	65-135	4	20	11/27/13	
Endrin	0.24	0.10	ug/L	0.20	ND	119	65-135	1	20	11/27/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 505 - Quality Control											
Batch: A314194										Prepared: 11/27/2013	
Prep Method: EPA 505										Analyst: GAK	
Matrix Spike Dup (A314194-MSD1), Source: A3K1596-06											
Heptachlor	0.23	0.010	ug/L	0.20	ND	114	65-135	9	20	11/27/13	
Heptachlor Epoxide	0.24	0.010	ug/L	0.20	ND	119	65-135	4	20	11/27/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0	ND	104	65-135	8	20	11/27/13	
Hexachlorocyclopentadiene	1.8	1.0	ug/L	2.0	ND	90	65-135	15	20	11/27/13	
Lindane	0.48	0.20	ug/L	0.40	ND	118	65-135	1	20	11/27/13	
Methoxychlor	2.6	10	ug/L	2.0	ND	130	65-135	4	20	11/27/13	
Trifluralin	2.1	1.0	ug/L	2.0	ND	106	65-135	5	20	11/27/13	
Surrogate: TCMX	*4.1*			*4.5*		*90*	*70-130*			11/27/13	
EPA 515.3 - Quality Control											
Batch: A314421										Prepared: 12/5/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A314421-BLK1)											
2,4,5-T	ND	1.0	ug/L							12/08/13	
2,4,5-TP (Silvex)	ND	1.0	ug/L							12/08/13	
2,4-D	ND	10	ug/L							12/08/13	
Bentazon	ND	2.0	ug/L							12/08/13	
Dalapon	ND	10	ug/L							12/08/13	
Dicamba	ND	1.5	ug/L							12/08/13	
Dinoseb	ND	2.0	ug/L							12/08/13	
Pentachlorophenol	ND	0.20	ug/L							12/08/13	
Picloram	ND	1.0	ug/L							12/08/13	
Surrogate: DCPAA	*43*			*58*		*73*	*70-130*			12/08/13	
Blank Spike (A314421-BS1)											
2,4,5-T	4.2	1.0	ug/L	4.0		104	70-130			12/08/13	
2,4,5-TP (Silvex)	4.1	1.0	ug/L	4.0		104	70-130			12/08/13	
2,4-D	41	10	ug/L	40		103	70-130			12/08/13	
Bentazon	8.7	2.0	ug/L	8.0		109	70-130			12/08/13	
Dalapon	40	10	ug/L	40		99	70-130			12/08/13	
Dicamba	6.1	1.5	ug/L	6.0		101	70-130			12/08/13	
Dinoseb	7.8	2.0	ug/L	8.0		97	70-130			12/08/13	
Pentachlorophenol	0.81	0.20	ug/L	0.80		101	70-130			12/08/13	
Picloram	3.8	1.0	ug/L	4.0		96	70-130			12/08/13	
Surrogate: DCPAA	*45*			*58*		*78*	*70-130*			12/08/13	
Blank Spike Dup (A314421-BSD1)											
2,4,5-T	4.1	1.0	ug/L	4.0		102	70-130	3	20	12/08/13	
2,4,5-TP (Silvex)	4.1	1.0	ug/L	4.0		101	70-130	2	20	12/08/13	
2,4-D	40	10	ug/L	40		100	70-130	3	20	12/08/13	
Bentazon	8.7	2.0	ug/L	8.0		109	70-130	0	20	12/08/13	
Dalapon	39	10	ug/L	40		99	70-130	0	20	12/08/13	
Dicamba	5.9	1.5	ug/L	6.0		98	70-130	3	20	12/08/13	
Dinoseb	7.6	2.0	ug/L	8.0		95	70-130	2	20	12/08/13	
Pentachlorophenol	0.80	0.20	ug/L	0.80		100	70-130	1	20	12/08/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A314421										Prepared: 12/5/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A314421-BSD1)											
Picloram	3.9	1.0	ug/L	4.0		97	70-130	1	20	12/08/13	
Surrogate: DCPAA	*45*			*58*		*78*	*70-130*			12/08/13	
Matrix Spike (A314421-MS1), Source: A3K1910-01											
2,4,5-T	4.2	1.0	ug/L	4.0	ND	104	70-130			12/08/13	
2,4,5-TP (Silvex)	4.1	1.0	ug/L	4.0	ND	102	70-130			12/08/13	
2,4-D	42	10	ug/L	40	ND	105	70-130			12/08/13	
Bentazon	8.7	2.0	ug/L	8.0	ND	109	70-130			12/08/13	
Dalapon	41	10	ug/L	40	ND	102	70-130			12/08/13	
Dicamba	6.2	1.5	ug/L	6.0	ND	103	70-130			12/08/13	
Dinoseb	7.5	2.0	ug/L	8.0	ND	93	70-130			12/08/13	
Pentachlorophenol	0.80	0.20	ug/L	0.80	ND	100	70-130			12/08/13	
Picloram	4.3	1.0	ug/L	4.0	ND	102	70-130			12/08/13	
Surrogate: DCPAA	*46*			*58*		*80*	*70-130*			12/08/13	
Matrix Spike Dup (A314421-MSD1), Source: A3K1910-01											
2,4,5-T	4.2	1.0	ug/L	4.0	ND	104	70-130	0	20	12/08/13	
2,4,5-TP (Silvex)	4.1	1.0	ug/L	4.0	ND	103	70-130	1	20	12/08/13	
2,4-D	42	10	ug/L	40	ND	106	70-130	1	20	12/08/13	
Bentazon	8.7	2.0	ug/L	8.0	ND	109	70-130	0	20	12/08/13	
Dalapon	41	10	ug/L	40	ND	104	70-130	2	20	12/08/13	
Dicamba	6.2	1.5	ug/L	6.0	ND	104	70-130	1	20	12/08/13	
Dinoseb	7.5	2.0	ug/L	8.0	ND	94	70-130	0	20	12/08/13	
Pentachlorophenol	0.80	0.20	ug/L	0.80	ND	100	70-130	1	20	12/08/13	
Picloram	4.3	1.0	ug/L	4.0	ND	103	70-130	1	20	12/08/13	
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			12/08/13	
EPA 524.2 - Quality Control											
Batch: A314277										Prepared: 12/3/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A314277-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							12/04/13	
1,1,1-Trichloroethane	ND	0.50	ug/L							12/04/13	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							12/04/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							12/04/13	
1,1,2-Trichloroethane	ND	0.50	ug/L							12/04/13	
1,1-Dichloroethane	ND	0.50	ug/L							12/04/13	
1,1-Dichloroethene	ND	0.50	ug/L							12/04/13	
1,1-Dichloropropene	ND	0.50	ug/L							12/04/13	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							12/04/13	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							12/04/13	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							12/04/13	
1,2-Dichlorobenzene	ND	0.50	ug/L							12/04/13	
1,2-Dichloroethane	ND	0.50	ug/L							12/04/13	
1,2-Dichloropropane	ND	0.50	ug/L							12/04/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A314277 Prepared: 12/3/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A314277-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	ug/L							12/04/13	
1,3-Dichlorobenzene	ND	0.50	ug/L							12/04/13	
1,3-Dichloropropane	ND	0.50	ug/L							12/04/13	
1,4-Dichlorobenzene	ND	0.50	ug/L							12/04/13	
2,2-Dichloropropane	ND	0.50	ug/L							12/04/13	
2-Butanone	ND	5.0	ug/L							12/04/13	
2-Chlorotoluene	ND	0.50	ug/L							12/04/13	
2-Hexanone	ND	10	ug/L							12/04/13	
4-Chlorotoluene	ND	0.50	ug/L							12/04/13	
4-Methyl-2-pentanone	ND	5.0	ug/L							12/04/13	
Acetone	ND	10	ug/L							12/04/13	
Benzene	ND	0.50	ug/L							12/04/13	
Bromobenzene	ND	0.50	ug/L							12/04/13	
Bromochloromethane	ND	0.50	ug/L							12/04/13	
Bromodichloromethane	ND	0.50	ug/L							12/04/13	
Bromoform	ND	0.50	ug/L							12/04/13	
Bromomethane	ND	0.50	ug/L							12/04/13	
Carbon Tetrachloride	ND	0.50	ug/L							12/04/13	
Chlorobenzene	ND	0.50	ug/L							12/04/13	
Chloroethane	ND	0.50	ug/L							12/04/13	
Chloroform	ND	0.50	ug/L							12/04/13	
Chloromethane	ND	0.50	ug/L							12/04/13	
cis-1,2-Dichloroethene	ND	0.50	ug/L							12/04/13	
cis-1,3-Dichloropropene	ND	0.50	ug/L							12/04/13	
Dibromochloromethane	ND	0.50	ug/L							12/04/13	
Dibromomethane	ND	0.50	ug/L							12/04/13	
Dichlorodifluoromethane	ND	0.50	ug/L							12/04/13	
Dichloromethane	ND	0.50	ug/L							12/04/13	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							12/04/13	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							12/04/13	
Ethylbenzene	ND	0.50	ug/L							12/04/13	
Hexachlorobutadiene	ND	0.50	ug/L							12/04/13	
Isopropylbenzene	ND	0.50	ug/L							12/04/13	
m,p-Xylenes	ND	0.50	ug/L							12/04/13	
Methyl-t-butyl ether	ND	0.50	ug/L							12/04/13	
Naphthalene	ND	0.50	ug/L							12/04/13	
n-Butylbenzene	ND	0.50	ug/L							12/04/13	
n-Propylbenzene	ND	0.50	ug/L							12/04/13	
o-Xylene	ND	0.50	ug/L							12/04/13	
p-Isopropyltoluene	ND	0.50	ug/L							12/04/13	
sec-Butylbenzene	ND	0.50	ug/L							12/04/13	
Styrene	ND	0.50	ug/L							12/04/13	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							12/04/13	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							12/04/13	
tert-Butylbenzene	ND	0.50	ug/L							12/04/13	
Tetrachloroethene (PCE)	ND	0.50	ug/L							12/04/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A314277 Prepared: 12/3/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank (A314277-BLK1)												
Toluene	ND	0.50	ug/L							12/04/13		
trans-1,2-Dichloroethene	ND	0.50	ug/L							12/04/13		
trans-1,3-Dichloropropene	ND	0.50	ug/L							12/04/13		
Trichloroethene (TCE)	ND	0.50	ug/L							12/04/13		
Trichlorofluoromethane	ND	5.0	ug/L							12/04/13		
Vinyl Chloride	ND	0.50	ug/L							12/04/13		
Surrogate: 1,2-Dichlorobenzene-d4	*4.5*			*5.0*		*90*	*70-130*			12/04/13		
Surrogate: Bromofluorobenzene	*51*			*50*		*101*	*70-130*			12/04/13		
Blank Spike (A314277-BS1)												
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		104	70-130			12/04/13		
1,1,1-Trichloroethane	12	0.50	ug/L	10		117	70-130			12/04/13		
1,1,2,2-Tetrachloroethane	10	0.50	ug/L	10		103	70-130			12/04/13		
1,1,2-Trichloro-1,2,2-trifluoroethane	10	10	ug/L	10		102	70-130			12/04/13		
1,1,2-Trichloroethane	10	0.50	ug/L	10		102	70-130			12/04/13		
1,1-Dichloroethane	11	0.50	ug/L	10		112	70-130			12/04/13		
1,1-Dichloroethene	11	0.50	ug/L	10		112	70-130			12/04/13		
1,1-Dichloropropene	11	0.50	ug/L	10		106	70-130			12/04/13		
1,2,3-Trichlorobenzene	11	0.50	ug/L	10		112	70-130			12/04/13		
1,2,4-Trichlorobenzene	12	0.50	ug/L	10		116	70-130			12/04/13		
1,2,4-Trimethylbenzene	11	0.50	ug/L	10		112	70-130			12/04/13		
1,2-Dichlorobenzene	11	0.50	ug/L	10		112	70-130			12/04/13		
1,2-Dichloroethane	12	0.50	ug/L	10		118	70-130			12/04/13		
1,2-Dichloropropane	10	0.50	ug/L	10		103	70-130			12/04/13		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		107	70-130			12/04/13		
1,3-Dichlorobenzene	12	0.50	ug/L	10		121	70-130			12/04/13		
1,3-Dichloropropane	10	0.50	ug/L	10		104	70-130			12/04/13		
1,4-Dichlorobenzene	11	0.50	ug/L	10		111	70-130			12/04/13		
2,2-Dichloropropane	12	0.50	ug/L	10		121	70-130			12/04/13		
2-Butanone	11	5.0	ug/L	10		107	70-130			12/04/13		
2-Chlorotoluene	12	0.50	ug/L	10		116	70-130			12/04/13		
2-Hexanone	11	10	ug/L	10		112	70-130			12/04/13		
4-Chlorotoluene	12	0.50	ug/L	10		120	70-130			12/04/13		
4-Methyl-2-pentanone	8.5	5.0	ug/L	10		85	70-130			12/04/13		
Acetone	12	10	ug/L	10		120	70-130			12/04/13		
Benzene	10	0.50	ug/L	10		105	70-130			12/04/13		
Bromobenzene	11	0.50	ug/L	10		109	70-130			12/04/13		
Bromochloromethane	11	0.50	ug/L	10		112	70-130			12/04/13		
Bromodichloromethane	11	0.50	ug/L	10		112	70-130			12/04/13		
Bromoform	10	0.50	ug/L	10		102	70-130			12/04/13		
Bromomethane	15	0.50	ug/L	10		152	70-130			12/04/13	BS	***High***
Carbon Tetrachloride	11	0.50	ug/L	10		114	70-130			12/04/13		
Chlorobenzene	11	0.50	ug/L	10		107	70-130			12/04/13		
Chloroethane	11	0.50	ug/L	10		110	70-130			12/04/13		
Chloroform	11	0.50	ug/L	10		114	70-130			12/04/13		
Chloromethane	12	0.50	ug/L	10		116	70-130			12/04/13		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A314277 Prepared: 12/3/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A314277-BS1)												
cis-1,2-Dichloroethene	11	0.50	ug/L	10		109	70-130			12/04/13		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		113	70-130			12/04/13		
Dibromochloromethane	10	0.50	ug/L	10		103	70-130			12/04/13		
Dibromomethane	11	0.50	ug/L	10		111	70-130			12/04/13		
Dichlorodifluoromethane	11	0.50	ug/L	10		107	70-130			12/04/13		
Dichloromethane	11	0.50	ug/L	10		110	70-130			12/04/13		
Di-isopropyl ether (DIPE)	10	3.0	ug/L	10		104	70-130			12/04/13		
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		105	70-130			12/04/13		
Ethylbenzene	11	0.50	ug/L	10		112	70-130			12/04/13		
Hexachlorobutadiene	12	0.50	ug/L	10		120	70-130			12/04/13		
Isopropylbenzene	10	0.50	ug/L	10		105	70-130			12/04/13		
m,p-Xylenes	22	0.50	ug/L	20		108	70-130			12/04/13		
Methyl-t-butyl ether	21	0.50	ug/L	20		107	70-130			12/04/13		
Naphthalene	9.7	0.50	ug/L	10		97	70-130			12/04/13		
n-Butylbenzene	11	0.50	ug/L	10		109	70-130			12/04/13		
n-Propylbenzene	12	0.50	ug/L	10		116	70-130			12/04/13		
o-Xylene	11	0.50	ug/L	10		114	70-130			12/04/13		
p-Isopropyltoluene	12	0.50	ug/L	10		117	70-130			12/04/13		
sec-Butylbenzene	12	0.50	ug/L	10		119	70-130			12/04/13		
Styrene	7.8	0.50	ug/L	10		78	70-130			12/04/13		
tert-Amyl Methyl Ether (TAME)	9.8	3.0	ug/L	10		98	70-130			12/04/13		
tert-Butyl alcohol (TBA)	14	2.0	ug/L	10		135	70-130			12/04/13	BS	***High***
tert-Butylbenzene	12	0.50	ug/L	10		117	70-130			12/04/13		
Tetrachloroethene (PCE)	11	0.50	ug/L	10		109	70-130			12/04/13		
Toluene	11	0.50	ug/L	10		106	70-130			12/04/13		
trans-1,2-Dichloroethene	11	0.50	ug/L	10		114	70-130			12/04/13		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		111	70-130			12/04/13		
Trichloroethene (TCE)	11	0.50	ug/L	10		106	70-130			12/04/13		
Trichlorofluoromethane	11	5.0	ug/L	10		107	70-130			12/04/13		
Vinyl Chloride	11	0.50	ug/L	10		110	70-130			12/04/13		
Surrogate: 1,2-Dichlorobenzene-d4	*5.4*			*5.0*		*108*	*70-130*			12/04/13		
Surrogate: Bromofluorobenzene	*53*			*50*		*106*	*70-130*			12/04/13		
Blank Spike Dup (A314277-BSD1)												
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		104	70-130	1	30	12/04/13		
1,1,1-Trichloroethane	12	0.50	ug/L	10		123	70-130	5	30	12/04/13		
1,1,2,2-Tetrachloroethane	12	0.50	ug/L	10		123	70-130	18	30	12/04/13		
1,1,2-Trichloro-1,2,2-trifluoroethane	12	10	ug/L	10		118	70-130	14	30	12/04/13		
1,1,2-Trichloroethane	12	0.50	ug/L	10		120	70-130	17	30	12/04/13		
1,1-Dichloroethane	10	0.50	ug/L	10		104	70-130	8	30	12/04/13		
1,1-Dichloroethene	13	0.50	ug/L	10		128	70-130	14	30	12/04/13		
1,1-Dichloropropene	12	0.50	ug/L	10		124	70-130	16	30	12/04/13		
1,2,3-Trichlorobenzene	11	0.50	ug/L	10		108	70-130	3	30	12/04/13		
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		111	70-130	4	30	12/04/13		
1,2,4-Trimethylbenzene	12	0.50	ug/L	10		120	70-130	7	30	12/04/13		
1,2-Dichlorobenzene	12	0.50	ug/L	10		123	70-130	9	30	12/04/13		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A314277 Prepared: 12/3/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A314277-BSD1)												
1,2-Dichloroethane	11	0.50	ug/L	10		109	70-130	9	30	12/04/13		
1,2-Dichloropropane	9.7	0.50	ug/L	10		97	70-130	6	30	12/04/13		
1,3,5-Trimethylbenzene	12	0.50	ug/L	10		117	70-130	9	30	12/04/13		
1,3-Dichlorobenzene	13	0.50	ug/L	10		126	70-130	4	30	12/04/13		
1,3-Dichloropropane	11	0.50	ug/L	10		105	70-130	2	30	12/04/13		
1,4-Dichlorobenzene	12	0.50	ug/L	10		122	70-130	9	30	12/04/13		
2,2-Dichloropropane	13	0.50	ug/L	10		131	70-130	8	30	12/04/13	BS	***High***
2-Butanone	9.3	5.0	ug/L	10		93	70-130	15	30	12/04/13		
2-Chlorotoluene	13	0.50	ug/L	10		130	70-130	11	30	12/04/13		
2-Hexanone	11	10	ug/L	10		113	70-130	1	30	12/04/13		
4-Chlorotoluene	13	0.50	ug/L	10		130	70-130	9	30	12/04/13		
4-Methyl-2-pentanone	11	5.0	ug/L	10		110	70-130	26	30	12/04/13		
Acetone	11	10	ug/L	10		114	70-130	5	30	12/04/13		
Benzene	10	0.50	ug/L	10		102	70-130	3	30	12/04/13		
Bromobenzene	13	0.50	ug/L	10		130	70-130	18	30	12/04/13		
Bromochloromethane	12	0.50	ug/L	10		117	70-130	4	30	12/04/13		
Bromodichloromethane	12	0.50	ug/L	10		117	70-130	5	30	12/04/13		
Bromoform	11	0.50	ug/L	10		110	70-130	8	30	12/04/13		
Bromomethane	28	0.50	ug/L	10		275	70-130	58	30	12/04/13	BS, X.0	***High***
Carbon Tetrachloride	12	0.50	ug/L	10		125	70-130	9	30	12/04/13		
Chlorobenzene	10	0.50	ug/L	10		103	70-130	4	30	12/04/13		
Chloroethane	12	0.50	ug/L	10		122	70-130	11	30	12/04/13		
Chloroform	13	0.50	ug/L	10		128	70-130	12	30	12/04/13		
Chloromethane	14	0.50	ug/L	10		135	70-130	15	30	12/04/13	BS	***High***
cis-1,2-Dichloroethene	11	0.50	ug/L	10		113	70-130	3	30	12/04/13		
cis-1,3-Dichloropropene	12	0.50	ug/L	10		118	70-130	4	30	12/04/13		
Dibromochloromethane	11	0.50	ug/L	10		113	70-130	9	30	12/04/13		
Dibromomethane	11	0.50	ug/L	10		106	70-130	4	30	12/04/13		
Dichlorodifluoromethane	14	0.50	ug/L	10		139	70-130	26	30	12/04/13	BS	***High***
Dichloromethane	12	0.50	ug/L	10		121	70-130	9	30	12/04/13		
Di-isopropyl ether (DIPE)	9.7	3.0	ug/L	10		97	70-130	7	30	12/04/13		
Ethyl tert-Butyl Ether (ETBE)	12	0.50	ug/L	10		119	70-130	13	30	12/04/13		
Ethylbenzene	12	0.50	ug/L	10		121	70-130	8	30	12/04/13		
Hexachlorobutadiene	12	0.50	ug/L	10		120	70-130	0	30	12/04/13		
Isopropylbenzene	13	0.50	ug/L	10		131	70-130	22	30	12/04/13	BS	***High***
m,p-Xylenes	23	0.50	ug/L	20		116	70-130	7	30	12/04/13		
Methyl-t-butyl ether	26	0.50	ug/L	20		132	70-130	21	30	12/04/13	BS	***High***
Naphthalene	8.8	0.50	ug/L	10		88	70-130	10	30	12/04/13		
n-Butylbenzene	11	0.50	ug/L	10		109	70-130	0	30	12/04/13		
n-Propylbenzene	13	0.50	ug/L	10		134	70-130	14	30	12/04/13	BS	***High***
o-Xylene	14	0.50	ug/L	10		144	70-130	23	30	12/04/13	BS	***High***
p-Isopropyltoluene	12	0.50	ug/L	10		122	70-130	4	30	12/04/13		
sec-Butylbenzene	12	0.50	ug/L	10		124	70-130	4	30	12/04/13		
Styrene	8.5	0.50	ug/L	10		85	70-130	8	30	12/04/13		
tert-Amyl Methyl Ether (TAME)	8.9	3.0	ug/L	10		89	70-130	9	30	12/04/13		
tert-Butyl alcohol (TBA)	8.1	2.0	ug/L	10		81	70-130	50	30	12/04/13	BS4.0	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A314277										Prepared: 12/3/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike Dup (A314277-BSD1)											
tert-Butylbenzene	12	0.50	ug/L	10		122	70-130	4	30	12/04/13	
Tetrachloroethene (PCE)	10	0.50	ug/L	10		104	70-130	4	30	12/04/13	
Toluene	12	0.50	ug/L	10		120	70-130	12	30	12/04/13	
trans-1,2-Dichloroethene	13	0.50	ug/L	10		126	70-130	10	30	12/04/13	
trans-1,3-Dichloropropene	12	0.50	ug/L	10		119	70-130	7	30	12/04/13	
Trichloroethene (TCE)	10	0.50	ug/L	10		105	70-130	1	30	12/04/13	
Trichlorofluoromethane	12	5.0	ug/L	10		123	70-130	13	30	12/04/13	
Vinyl Chloride	13	0.50	ug/L	10		129	70-130	16	30	12/04/13	
Surrogate: 1,2-Dichlorobenzene-d4	*6.1*			*5.0*		*121*	*70-130*			12/04/13	
Surrogate: Bromofluorobenzene	*64*			*50*		*129*	*70-130*			12/04/13	
EPA 525.2 - Quality Control											
Batch: A314276										Prepared: 12/3/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank (A314276-BLK1)											
Alachlor	ND	1.0	ug/L							12/03/13	
Atrazine	ND	0.50	ug/L							12/03/13	
Benzo(a)pyrene	ND	0.10	ug/L							12/03/13	
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							12/03/13	
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							12/03/13	
Bromacil	ND	10	ug/L							12/03/13	
Butachlor	ND	0.38	ug/L							12/03/13	
Diazinon	ND	0.25	ug/L							12/03/13	
Dimethoate	ND	10	ug/L							12/03/13	
Metolachlor	ND	0.50	ug/L							12/03/13	
Metribuzin	ND	0.50	ug/L							12/03/13	
Molinate	ND	2.0	ug/L							12/03/13	
Propachlor	ND	0.50	ug/L							12/03/13	
Simazine	ND	1.0	ug/L							12/03/13	
Thiobencarb	ND	1.0	ug/L							12/03/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.6*			*5.0*		*91*	*70-130*			12/03/13	
Blank Spike (A314276-BS1)											
Alachlor	0.54	1.0	ug/L	0.51		105	70-130			12/03/13	
Atrazine	0.52	0.50	ug/L	0.51		102	70-130			12/03/13	
Benzo(a)pyrene	0.11	0.10	ug/L	0.10		109	70-130			12/03/13	
Bis(2-ethylhexyl) adipate	3.4	3.0	ug/L	3.1		109	70-130			12/03/13	
Bis(2-ethylhexyl) phthalate	3.4	3.0	ug/L	3.1		111	70-130			12/03/13	
Bromacil	2.5	10	ug/L	2.0		120	70-130			12/03/13	
Butachlor	1.5	0.38	ug/L	1.3		114	70-130			12/03/13	
Diazinon	0.045	0.25	ug/L	0.051		88	70-130			12/03/13	
Dimethoate	0.60	10	ug/L	0.51		118	70-130			12/03/13	
Metolachlor	2.9	0.50	ug/L	2.6		114	70-130			12/03/13	
Metribuzin	2.8	0.50	ug/L	2.6		110	70-130			12/03/13	
Molinate	2.7	2.0	ug/L	2.6		107	70-130			12/03/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A314276										Prepared: 12/3/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank Spike (A314276-BS1)											
Propachlor	2.9	0.50	ug/L	2.6		113	70-130			12/03/13	
Simazine	0.41	1.0	ug/L	0.36		116	70-130			12/03/13	
Thiobencarb	0.59	1.0	ug/L	0.51		115	70-130			12/03/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.6*			*5.1*		*91*	*70-130*			12/03/13	
Blank Spike Dup (A314276-BSD1)											
Alachlor	0.52	1.0	ug/L	0.49		106	70-130	2	30	12/03/13	
Atrazine	0.52	0.50	ug/L	0.49		106	70-130	0	30	12/03/13	
Benzo(a)pyrene	0.11	0.10	ug/L	0.098		113	70-130	0	30	12/03/13	
Bis(2-ethylhexyl) adipate	3.1	3.0	ug/L	3.0		103	70-130	9	30	12/03/13	
Bis(2-ethylhexyl) phthalate	3.2	3.0	ug/L	3.0		108	70-130	6	30	12/03/13	
Bromacil	2.4	10	ug/L	2.0		120	70-130	4	30	12/03/13	
Butachlor	1.4	0.38	ug/L	1.2		110	70-130	7	30	12/03/13	
Diazinon	0.041	0.25	ug/L	0.049		84	70-130	8	30	12/03/13	
Dimethoate	0.59	10	ug/L	0.49		119	70-130	3	30	12/03/13	
Metolachlor	2.7	0.50	ug/L	2.5		111	70-130	7	30	12/03/13	
Metribuzin	2.7	0.50	ug/L	2.5		108	70-130	5	30	12/03/13	
Molinate	2.6	2.0	ug/L	2.5		106	70-130	5	30	12/03/13	
Propachlor	2.5	0.50	ug/L	2.5		101	70-130	15	30	12/03/13	
Simazine	0.38	1.0	ug/L	0.34		111	70-130	8	30	12/03/13	
Thiobencarb	0.56	1.0	ug/L	0.49		113	70-130	5	30	12/03/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.6*			*4.9*		*94*	*70-130*			12/03/13	
Matrix Spike (A314276-MS1), Source: A3K1830-01											
Alachlor	0.54	1.0	ug/L	0.50	ND	109	70-130			12/03/13	
Atrazine	0.53	0.50	ug/L	0.50	ND	108	70-130			12/03/13	
Benzo(a)pyrene	0.13	0.10	ug/L	0.099	ND	131	70-130			12/03/13	MS1.0 ***High***
Bis(2-ethylhexyl) adipate	3.5	3.0	ug/L	3.0	ND	117	70-130			12/03/13	
Bis(2-ethylhexyl) phthalate	3.2	3.0	ug/L	3.0	ND	106	70-130			12/03/13	
Bromacil	2.4	10	ug/L	2.0	ND	124	70-130			12/03/13	
Butachlor	1.4	0.38	ug/L	1.2	ND	111	70-130			12/03/13	
Diazinon	0.049	0.25	ug/L	0.050	ND	98	70-130			12/03/13	
Dimethoate	0.56	10	ug/L	0.50	ND	114	70-130			12/03/13	
Metolachlor	2.8	0.50	ug/L	2.5	ND	113	70-130			12/03/13	
Metribuzin	2.7	0.50	ug/L	2.5	ND	109	70-130			12/03/13	
Molinate	2.6	2.0	ug/L	2.5	ND	106	70-130			12/03/13	
Propachlor	2.7	0.50	ug/L	2.5	ND	109	70-130			12/03/13	
Simazine	0.39	1.0	ug/L	0.35	ND	113	70-130			12/03/13	
Thiobencarb	0.56	1.0	ug/L	0.50	ND	114	70-130			12/03/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.6*			*5.0*		*92*	*70-130*			12/03/13	
EPA 531.1 - Quality Control											
Batch: A314122										Prepared: 11/26/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A314122-BLK1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A314122										Prepared: 11/26/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A314122-BLK1)											
3-Hydroxycarbofuran	ND	3.0	ug/L							11/26/13	
Aldicarb	ND	3.0	ug/L							11/26/13	
Aldicarb Sulfone	ND	2.0	ug/L							11/26/13	
Aldicarb Sulfoxide	ND	3.0	ug/L							11/26/13	
Carbaryl	ND	5.0	ug/L							11/26/13	
Carbofuran	ND	5.0	ug/L							11/26/13	
Methomyl	ND	2.0	ug/L							11/26/13	
Oxamyl	ND	20	ug/L							11/26/13	
Blank Spike (A314122-BS1)											
3-Hydroxycarbofuran	4.0	3.0	ug/L	4.2		97	80-120			11/26/13	
Aldicarb	4.5	3.0	ug/L	4.2		108	80-120			11/26/13	
Aldicarb Sulfone	4.4	2.0	ug/L	4.2		106	80-120			11/26/13	
Aldicarb Sulfoxide	4.5	3.0	ug/L	4.2		109	80-120			11/26/13	
Carbaryl	4.2	5.0	ug/L	4.2		102	80-120			11/26/13	
Carbofuran	4.5	5.0	ug/L	4.2		109	80-120			11/26/13	
Methomyl	4.5	2.0	ug/L	4.2		109	80-120			11/26/13	
Oxamyl	4.5	20	ug/L	4.2		107	80-120			11/26/13	
Blank Spike Dup (A314122-BSD1)											
3-Hydroxycarbofuran	4.3	3.0	ug/L	4.2		104	80-120	7	20	11/26/13	
Aldicarb	4.5	3.0	ug/L	4.2		107	80-120	1	20	11/26/13	
Aldicarb Sulfone	4.3	2.0	ug/L	4.2		104	80-120	2	20	11/26/13	
Aldicarb Sulfoxide	4.4	3.0	ug/L	4.2		105	80-120	4	20	11/26/13	
Carbaryl	4.3	5.0	ug/L	4.2		103	80-120	2	20	11/26/13	
Carbofuran	4.5	5.0	ug/L	4.2		107	80-120	2	20	11/26/13	
Methomyl	4.6	2.0	ug/L	4.2		110	80-120	1	20	11/26/13	
Oxamyl	4.4	20	ug/L	4.2		106	80-120	1	20	11/26/13	
Matrix Spike (A314122-MS1), Source: A3K1656-01											
3-Hydroxycarbofuran	3.8	3.0	ug/L	4.2	ND	92	65-135			11/26/13	
Aldicarb	4.7	3.0	ug/L	4.2	ND	105	65-135			11/26/13	
Aldicarb Sulfone	4.3	2.0	ug/L	4.2	ND	103	65-135			11/26/13	
Aldicarb Sulfoxide	4.3	3.0	ug/L	4.2	ND	104	65-135			11/26/13	
Carbaryl	4.2	5.0	ug/L	4.2	ND	102	65-135			11/26/13	
Carbofuran	4.3	5.0	ug/L	4.2	ND	97	65-135			11/26/13	
Methomyl	4.4	2.0	ug/L	4.2	ND	100	65-135			11/26/13	
Oxamyl	4.4	20	ug/L	4.2	ND	104	65-135			11/26/13	
EPA 547 - Quality Control											
Batch: A314204										Prepared: 12/1/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank (A314204-BLK1)											
Glyphosate	ND	25	ug/L							12/01/13	
Surrogate: AMPA	*100*			*100*		*103*	*70-130*			12/01/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 547 - Quality Control											
Batch: A314204										Prepared: 12/1/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank Spike (A314204-BS1)											
Glyphosate	100	25	ug/L	100		100	70-130			12/01/13	
Surrogate: AMPA	*100*			*100*		*104*	*70-130*			12/01/13	
Blank Spike Dup (A314204-BSD1)											
Glyphosate	110	25	ug/L	100		106	70-130	6	30	12/01/13	
Surrogate: AMPA	*100*			*100*		*102*	*70-130*			12/01/13	
Matrix Spike (A314204-MS1), Source: A3K1910-01											
Glyphosate	100	25	ug/L	100	ND	100	70-130			12/01/13	
Surrogate: AMPA	*100*			*100*		*98*	*70-130*			12/01/13	
EPA 548.1 - Quality Control											
Batch: A314043										Prepared: 11/27/2013	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A314043-BLK1)											
Endothall	ND	45	ug/L							11/29/13	
Blank Spike (A314043-BS1)											
Endothall	12	45	ug/L	20		61	60-111			11/29/13	
Blank Spike Dup (A314043-BSD1)											
Endothall	22	45	ug/L	20		108	60-111	55	46	11/29/13	BS3.0
Matrix Spike (A314043-MS1), Source: A3K1568-06											
Endothall	ND	45	ug/L	20	ND	0	10-122			11/29/13	MS1.0 ***Low***
EPA 549.2 - Quality Control											
Batch: A314169										Prepared: 11/27/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A314169-BLK1)											
Diquat	ND	4.0	ug/L							12/03/13	
Blank Spike (A314169-BS1)											
Diquat	3.4	4.0	ug/L	4.0		85	70-130			12/03/13	
Blank Spike Dup (A314169-BSD1)											
Diquat	3.4	4.0	ug/L	4.0		86	70-130	1	30	12/03/13	
Matrix Spike (A314169-MS1), Source: A3K1719-01											
Diquat	3.4	4.0	ug/L	4.0	ND	84	70-130			12/03/13	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of California - ELAP	1180	State of Nevada	CA000792009A
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA
State of California - NELAP	04227CA	State of Oregon	4017
State of Washington	C997	State of Oregon - NWTPH	4021

BSK is not accredited under the NELAC program for the following parameters:

Boron
Silica (SiO2)
Strontium
Threshold Odor

A3K1920

California American Water

Calif3295

11262013

Turnaround: Standard

Due Date: 12/12/2013

Printed: 11/26/2013 5:26:32PM

Page 1 of 1

BSK Associates
Engineers & Laboratories
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

A3K1920
Calif3295

Appendix G 11/26/2013
10

*Required Fields

Temp: 2.2

Company/Client Name*:	Report Attention*:	Invoice To*:	Phone*:	Fax*:
California American Water	Travis Peterson Additional cc's: Sarp Sekeroglu, RBF Consulting	Accounts Payable PO#:	(831) 646-3295/(831) 646-3269	(831) 333-1343
			E-mail*: susan.jacobson@amwater.com,travis.peterson@amwater.com	

Address*:	City*:	State*:	Zip*:
PO Box 951	Monterey	CA	93942-0951

Project: Water Quality Analysis
Project #:

Regulatory Carbon Copies: CDPH ☐ ☐ Fresno Co; Merced Co ☐ ☐ Tulare Co; Madera Co ☐ ☐ Other: ____

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type: ____

How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail

Regulatory Compliance: ☐ EDT to California DPH; System Number*: ____; ☐ Geotracker #: ____

Sampler Name (Printed/Signature)*: Nathan Reynolds

TAT* **Surcharge: ☒ Standard - 10 Business Days; ☐ **Rush: Date Needed ____

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	Alkalinity, Hardness, MBAS,Color, Odor, TDS, pH, Turbidity, EC	Mass Balance-Dissolved: Cations and Anions	Dissolved Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na, Sr, silica	Total Metals: Al, As, Cu, Fe, Mn, Zn	Dissolved: Bromide, Chloride, Nitrite, Fluoride, Sulfate, Orthophosphate-P	Dissolved: Ammonia, TKN, Phosphorus	Nitrate+Nitrite as N, Nitrate-NO3,	EPA 524, 504, 505, 515, 525, 531, 547, 548, 549	EXT-Tritium, EXT-Lithium, EXT-Dissolved Iodide, EXT-Dioxin
27	MPWSP ML-6 Zone #1 (152-162 ft bgs)	11-22-13	13:35	water	Seawater salinity levels.	X	X	X	X	X	X	X	X	X
					Lab to filter dissolved metals.									
					Lab to filter Diss. Ammonia, TKN, P									
					Okay to analyze out of hold time.									

Field parameters: Temp = 16.5 °C
pH = 6.63
TDS = 31,284.5 mg/L
Turb = 1.26 NTU

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Nathan Reynolds	GEOSCIENCE	11/25	8:45 AM	Shelley Jeggo	RBF Consulting
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company

Received for Lab by: (Signature and Printed Name): Lafoy Cobb — Date: 11/25/13 — Time: 1030

Payment Received at Delivery: Date: ____ Amount: ____ PIA#: ____ Check / Cash Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier: ____

Cooling Method: Wet Blue None

Custody Seal: Y/N

Chilling Process Begun: Y/N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

bw

SR-FL-0012-05 Analytical Chain of Custody

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received — "—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—	2C, 1B, 1A					
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—	2B					
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N	1A					
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—	1A, 2C, 1B					
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2A, 2C					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	6V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—	1A					
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: NC @ 1611 Labels checked by: EG @ 1612 RUSH Paged by:

External

A3K1920

Maxxam

nelac

Your Project #: A3K1920
Your C.O.C. #: na, 3

Attention:Michael Ng

BSK Analytical Laboratories
1414 Stanislaus Street
Fresno, CA
USA 93706

Report Date: 2013/12/11

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B3K9585
Received: 2013/12/04, 13:00

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
2,3,7,8-TCDD in Water (1613B)	1	2013/12/07	2013/12/10	BRL SOP-00410	EPA 1613B mod.

Remarks:

The lab certifies that the test results meet all requirements of NELAC, where applicable.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
U = Undetected at the limit of quantitation.
J = Estimated concentration between the EDL & RDL.
B – Blank Contamination.
Q = One or more quality control criteria failed.

Encryption Key

Ivana Vukovic
12 Dec 2013 14:19:48 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ivana Vukovic, Env Project Manager
Email: IVukovic@maxxam.ca
Phone# (905) 817-5700

This report has been generated and distributed using a secure automated process.
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam

Maxxam Job #: B3K9585
Report Date: 2013/12/11

BSK Analytical Laboratories
Client Project #: A3K1920

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		UD8443						
Sampling Date		2013/11/22 13:35						
COC Number		3			TOXIC EQUIVALENCY		# of	
	Units	A3K1920-01	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	0.98 U	0.98	4.1	1.00	0.980		3452001
TOTAL TOXIC EQUIVALENCY	pg/L					0.980		
Surrogate Recovery (%)								
37CL4 2378 Tetra CDD *	%	76						3452001
C13-2378 TetraCDD *	%	86						3452001

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

* CDD = Chloro Dibenzo-p-Dioxin

Maxxam Analytics International Corporation c/o Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam

Maxxam Job #: B3K9585
Report Date: 2013/12/11

BSK Analytical Laboratories
Client Project #: A3K1920

TEST SUMMARY

Maxxam ID: UD8443
Sample ID: A3K1920-01
Matrix: Water

Collected: 2013/11/22
Shipped:
Received: 2013/12/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
2,3,7,8-TCDD in Water (1613B)	HRMS/MS	3452001	2013/12/07	2013/12/10	Vica Cioranic

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Maxxam

Maxxam Job #: B3K9585
Report Date: 2013/12/11

BSK Analytical Laboratories
Client Project #: A3K1920

GENERAL COMMENTS

Results relate only to the items tested.

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Maxxam

Maxxam Job #: B3K9585
Report Date: 2013/12/11

BSK Analytical Laboratories
Client Project #: A3K1920

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	Units	QC Limits
3452001	VCI	Spiked Blank	2,3,7,8-Tetra CDD	2013/12/10		83	%	67 - 158
	VCI	Spiked Blank	37CL4 2378 Tetra CDD	2013/12/10		71	%	40 - 130
			C13-2378 TetraCDD	2013/12/10		90	%	24 - 164
		Method Blank	2,3,7,8-Tetra CDD	2013/12/10	0.92, EDL=0.92		pg/L	
			37CL4 2378 Tetra CDD	2013/12/10		80	%	40 - 130
			C13-2378 TetraCDD	2013/12/10		81	%	24 - 164

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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Maxxam

Maxxam Job #: B3K9585
Report Date: 2013/12/11

BSK Analytical Laboratories
Client Project #: A3K1920

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Owen Cosby, BSc.C.Chem, Supervisor, HRMS Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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BSK Analytical Laboratories

SUBCONTRACT ORDER

A3K1920

4-Dec-13 13:00

Diana Vukovic

B3K9585

MLP ENV1700

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559 497 2888
Fax: 559-495-6935
Project Manager: Jamison Ng
e-mail: jng@bskinc.com

RECEIVING LABORATORY:

Maxxam Analytics
PO Box 57457, Station A
Toronto, ON M5W5M5
Phone: (905) 817 5784
Fax: -
Turnaround Date: Standard T
Delivery Mode: Standard

Sample ID	Samp Desc	Sample Date
A3K1920-01	NPDES Mixing Zone #1 (152, 152 & pos)	11/22/2013 13:35

Matrix: Water

Analysis: [illegible]
EPA Dioxin DW matrix, EPA 1613 2,3,7,8-TCDD

Relinquished By	Date	Received By	Date
		[illegible]	[illegible]
Relinquished By	Date	Received By	Date

3.0, 0.4, 5.3°C
3.0, 3.2, 0.1°C

Page 1 of 1

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1954

Certificate of Analysis

Report Date: 12/17/13 11:10
Received Date: 12/03/13 12:30
Turnaround Time: Normal

Project: A3K1920

Phones: (559) 497-2888
Fax: (559) 485-6935

P.O. #:

Attn: Michael Ng

Client: BSK Analytical Laboratories
550 West Locust Avenue
Fresno, CA 93650

Dear Michael Ng :

Enclosed are the results of analyses for samples received 12/3/2013 with the Chain of Custody document. The samples were received in good condition, at 3.0 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 3L03045-01 **Sample ID:** A3K1920-01 **Matrix:** Water
Sampled by: Client **Sampled:** 11/22/13 13:35

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lithium, Total	**390**		10	ug/l	1	EPA 200.7	12/10/13	12/11/13 13:01	W3L0516	
Iodide, Dissolved	**620**		250	ug/l	25	EPA 9056A	12/12/13	12/12/13 22:54	W3L0678	

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Certificate of Analysis

Quality Control Section

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W3L0678 - EPA 9056A

Blank (W3L0678-BLK1) — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		ND		ug/l					

LCS (W3L0678-BS1) — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		38.9		ug/l	40.0	97	85-115		

Duplicate (W3L0678-DUP1) — Source: 3L03045-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	623	661		ug/l				6	20

Duplicate (W3L0678-DUP2) — Source: 3L03048-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	378	336		ug/l				12	20

Duplicate (W3L0678-DUP3) — Source: 3L10011-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	644	658		ug/l				2	20

Matrix Spike (W3L0678-MS1) — Source: 3L10011-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	644	1100		ug/l	500	92	80-120		

Matrix Spike Dup (W3L0678-MSD1) — Source: 3L10011-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	644	1100		ug/l	500	92	80-120	0.2	20

Metals by EPA 200 Series Methods - Quality Control

Batch W3L0516 - EPA 200.7

Blank (W3L0516-BLK1) — Prepared: 12/10/13 Analyzed: 12/11/13 12:56

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		ND		ug/l					

LCS (W3L0516-BS1) — Prepared: 12/10/13 Analyzed: 12/11/13 12:59

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		965		ug/l	1000	97	85-115		

Matrix Spike (W3L0516-MS1) — Source: 3L10044-04 — Prepared: 12/10/13 Analyzed: 12/11/13 13:29

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	37.3	1020		ug/l	1000	98	70-130		

Matrix Spike Dup (W3L0516-MSD1) — Source: 3L10044-04 — Prepared: 12/10/13 Analyzed: 12/11/13 13:32

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	37.3	995		ug/l	1000	96	70-130	2	30

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Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature
Contact: Kim G Tu (Project Manager)

ISO 17025

NELAP ACCREDITED TNI LABORATORY

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

Weck Laboratories, Inc. 14859 East Clark Avenue City of Industry, CA 91745-1029 (626) 336-2139 FAX (626) 336-2634
www.weclab.com

BSK Analytical Laboratories
Engineers & Laboratories

SUBCONTRACT ORDER

A3K1920

3L03045

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Weck Laboratories, Inc.
14859 E Clark Avenue
City of Industry, CA 91745-1396
Phone :(626) 336-2139
Fax: (626) 336-2634
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Sample Date
A3K1920-01	MPWSP ML-6 Zone #1 (152-162 ft bgs)	11/22/2013 13:35

Matrix: Water

Analysis 500 ml P w/ NON *
EXT-Iodide
EXT-Miscellaneous 500 ml P w/ HNO3

Dissolved
Lithium

Released By	Date	Received By	Date
[signature]	12/2/13	Ontrac	
Ontrac		Jaime Gomez 12/3/13 12:30	3.0°C
Released By	Date	Received By	Date

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Sample Receipt Acknowledgement

WORK ORDER: 3L03045
Printed: 12/4/2013 2:25:29PM

Client: BSK Analytical Laboratories
Project: Metals
Project Manager: Kim G Tu
Project Number: A3K1920

Report To:
BSK Analytical Laboratories
Michael Ng
550 West Locust Avenue
Fresno, CA 93650
Phone: (559) 497-2888
Fax: (559) 485-6935

Invoice To:
BSK Analytical Laboratories
Accounts Payable - Anise Foote
550 West Locust Avenue
Fresno, CA 93650
Phone :(559) 497-2888
Fax: (559) 485-6935

Date Due: **12/17/13 15:00 (10 day TAT)**

Received By: Jaime Gomez
Date Received: 12/03/13 12:30
Logged In By: Jaime Gomez
Date Logged In: 12/03/13 14:52

Samples Received at:	**3°C**	All containers intact:	**Yes**	Chain of custody completed	**Yes**
Number of Ice chests/packages:		Custody seals presen		Sample labels & COC agree	**Yes**
		Custody seals intact:		Samples preserved properly	**Yes**
Appropriate Sample Containers:		Samples received on ice		Sample volume sufficient	**Yes**
		Custody Seals	**No**	Sufficient holding time for all tests	**Yes**

Analysis	TAT	Expires	Comments
3L03045-01 A3K1920-01 [Water] Sampled 11/22/13 13:35 Pacific			
Iodide water 9056M_Diss	10	12/20/13 13:35	
200.7 Li	10	05/21/14 13:35	

Comments:

Authorized Signature
12/4/2013
Date

Note:
If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

January 06, 2014

Mr. Michael Ng
BSK Analytical Laboratories
1414 Stanislaus St.
Fresno, CA 93706

RE: Project: A3K1920
Pace Project No.: 30109474

Dear Mr. Ng:
Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

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Greensburg, PA 15601
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CERTIFICATIONS

Project: A3K1920
Pace Project No.: 30109474

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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Greensburg, PA 15601
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SAMPLE SUMMARY

Project: A3K1920
Pace Project No.: 30109474

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30109474001	**A3K1920-01**	Water	11/22/13 13:35	12/12/13 10:50

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SAMPLE ANALYTE COUNT

Project: A3K1920
Pace Project No.: 30109474

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30109474001	**A3K1920-01**	EPA 906.0	SLA	1	PASI-PA

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Greensburg, PA 15601
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PROJECT NARRATIVE

Project: A3K1920
Pace Project No.: 30109474

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: BSK Analytical Laboratories
Date: January 06, 2014

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: A3K1920
Pace Project No.: 30109474

Sample: A3K1920-01 **Lab ID: 30109474001** Collected: 11/22/13 13:35 Received: 12/12/13 10:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**10.3 ± 129 (226)**	pCi/L	12/21/13 11:19	10028-17-8	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: A3K1920
Pace Project No.: 30109474

QC Batch: RADC/18120 Analysis Method: EPA 906.0
QC Batch Method: EPA 906 0 Analysis Description: 906.0 Tritium
Associated Lab Samples: 30109474001

METHOD BLANK: 671627 Matrix: Water
Associated Lab Samples: 30109474001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	-43.1 ± 116 (211)	pCi/L	12/21/13 09:16	

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: A3K1920
Pace Project No.: 30109474

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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BSK Analytical Laboratories
Engineering Laboratories

SUBCONTRACT ORDER

A3K1920

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Radiochem
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600
Fax: (724) 722-5208
Turnaround (Days): Standard
QC Deliverables: I Std III IV

30109474

Sample ID	Samp Desc	Sample Date
A3K1920-01	MPWSP ML-6 Zone #1 (152-162 ft bgs)	11/22/2013 13:35 001

Matrix: Water

Analysis 250 mL Air w/ MeOH
EXT-Tritium — Non preserved glass container

Released By	Date	Received By	Date
[signature]	12/5/13	[signature]	12-12-13 1050

Page 2 of 13

Sample Condition Upon Receipt

Pace Analytical

Client Name: BSK Project # 30109474

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 1Z 93Y 921 03 6157 4770

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Styrofoam, Plastic Bag

Thermometer Used 5 6 7 Type of Ice: Wet Blue (None) ☐ Samples on ice, cooling process has begun

Cooler Temperature N A Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: RAC 12-12-13

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☒No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13. ~~Pres~~ sample is unpreserved
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☒No	Initial when completed RAC / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☒No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Page 10 of 11

F-ALL-C003-6 SCURF front 2Apr12012.xls

Pace Analytical

page 2

Project Number: 30104 74

Client Name: BSK

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT																							

SCURF Back (0016-4 15May2012).xls

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

Travis Peterson
California American Water
836 Carmel Ave.
Monterey, CA 93940

RE: Report for A3K1910 Water Quality Analysis

Dear Travis Peterson,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 11/26/2013. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michael Ng, Project Manager

If additional clarification of any information is required, please contact your Project Manager, Michael Ng , at (800) 877-8310 or (559) 497-2888 x118.

Case Narrative

Project and Report Details		Invoice Details	
Client:	California American Water	**Invoice To:**	California American Water
Report To:	Travis Peterson	**Invoice Attn:**	Accounts Payable
Project #:	Water Quality Analysis	**Project PO#:**	-
Received:	11/26/2013 - 10:30		
Report Due:	12/12/2013		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 0.7

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Sample(s) were received in temperature range.
Initial receipt at BSK-SAC

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

B2.0	Analyte present in the method blank above the method detection limit (MDL). Laboratory does not determine batch acceptance on detections below the reporting limit (RL).
BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
BS3.0	BS/BSD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
BS4.0	BS/BSD RPD exceeded the method acceptance limit as one of the blank spikes recovered outside limits.
CV0.0	CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
DL1.0	Sample required a dilution due to the matrix or high concentration of a non-target analyte.
HT1.0	Holding time exceeded. Sample was received at the lab past holding time.
HT1.6	Holding time exceeded. The holding time for this analysis is a recommendation and is not mandated by any state or federal agency.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
X.0	BS/BSD RPD is outside of acceptance limits

Report Distribution

Recipient(s)	Report Format
Travis Peterson	Final.rpt
Sarp Sekeroglu	Final.rpt

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A3K1910-01
Sampled By: Nathan Reynolds
Sample Description: MPWSP ML-6 Zone #2 (100-110 ft bgs)

Sample Date - Time: 11/23/13 - 13:00
Matrix: Water
Sample Type: Grab

Field Data: pH=6.58 Temp=15.9 ºC Turb. =1.73 ntu

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320 B	**410**	3.0	mg/L	1	A314132	11/26/13	11/26/13	
Bicarbonate as CaCO3	SM 2320 B	**410**	3.0	mg/L	1	A314132	11/26/13	11/26/13	
Carbonate as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A314132	11/26/13	11/26/13	
Hydroxide as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A314132	11/26/13	11/26/13	
Ammonia as N	SM 4500-NH3 G	**1.9**	0.10	mg/L	1	A314346	12/04/13	12/09/13	
Bromide	EPA 300.1	**59**	1.2	mg/L	250	A314117	11/26/13	11/26/13	
Surrogate: Dichloroacetate	EPA 300.1	105 %	*Acceptable range: 90-115 %*						
Chloride	EPA 300.0	**16000**	200	mg/L	200	A314134	11/26/13	11/26/13	
Color, Apparent	SM 2120 B	**10**	1.0	CU	1	A314113	11/26/13 18:58	11/26/13	HT1.0
Conductivity @ 25C	SM 2510 B	**38000**	1.0	umhos/cm	1	A314132	11/26/13	11/26/13	
Fluoride	EPA 300.0	ND	2.0	mg/L	20	A314220	11/27/13	11/27/13	DL1.0
Mass Balance-Anions		**500**		meq/L					
Mass Balance-Dissolved Cations		**480**		meq/L					
MBAS, Calculated as LAS, mol wt 340	SM 5540 C	ND	0.050	mg/L	1	A314153	11/27/13 15:20	11/27/13	HT1.0
Nitrate as NO3	EPA 300.0	ND	200	mg/L	200	A314134	11/26/13 23:04	11/26/13	DL1.0
Nitrite as N	EPA 300.0	ND	10	mg/L	200	A314134	11/26/13 23:04	11/26/13	DL1.0, HT1.0
Threshold Odor	SM 2150 B	ND	1.0	T.O.N.	1	A314113	11/26/13 18:58	11/26/13	HT1.6
Orthophosphate as P	SM 4500-P E	**0.14**	0.010	mg/L	1	A314203	11/27/13 18:38	11/27/13	HT1.0
pH (1)	SM 4500-H+ B	**7.4**		pH Units	1	A314132	11/26/13	11/26/13	
pH Temperature in °C		**21.0**							
Phosphorus - Dissolved (1)	EPA 365.4	**0.12**	0.10	mg/L	1	A314666	12/11/13	12/12/13	
Sulfate as SO4	EPA 300.0	**1900**	400	mg/L	200	A314134	11/26/13	11/26/13	
Total Dissolved Solids	SM 2540C	**28000**	5.0	mg/L	1	A314178	11/27/13	12/02/13	
Total Kjeldahl Nitrogen - Dissolved (1)	EPA 351.2	**2.3**	1.0	mg/L	1	A314282	12/03/13	12/05/13	
Total Oxidizable Nitrogen, as N - Dissolved (1)	SM 4500-NO3 F	ND	0.10	mg/L	1	A314432	12/05/13	12/05/13	
Turbidity	SM 2130 B	**1.6**	0.10	NTU	1	A314113	11/26/13 18:58	11/26/13	HT1.0

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aluminum	EPA 200.7	ND	0.050	mg/L	1	A314146	11/26/13	12/04/13	
Arsenic	EPA 200.8	**4.3**	4.0	ug/L	2	A314146	11/26/13	12/02/13	
Barium - Dissolved (1)	EPA 200.7	**0.089**	0.050	mg/L	1	A314514	12/06/13	12/10/13	
Boron - Dissolved (1)	EPA 200.7	**3.3**	0.10	mg/L	1	A314514	12/06/13	12/10/13	
Calcium	EPA 200.7	**580**	0.10	mg/L	1	A314146	11/26/13	12/04/13	
Calcium - Dissolved (1)	EPA 200.7	**600**	0.10	mg/L	1	A314514	12/06/13	12/10/13	
Copper	EPA 200.8	**58**	10	ug/L	2	A314146	11/26/13	12/02/13	
Hardness as CaCO3	SM 2340B	**6000**	0.41	mg/L					
Iron	EPA 200.7	**0.56**	0.030	mg/L	1	A314146	11/26/13	12/04/13	
Iron - Dissolved (1)	EPA 200.7	ND	0.030	mg/L	1	A314514	12/06/13	12/10/13	

Certificate of Analysis

Sample ID: A3K1910-01
Sampled By: Nathan Reynolds
Sample Description: MPWSP ML-6 Zone #2 (100-110 ft bgs)

Sample Date - Time: 11/23/13 - 13:00
Matrix: Water
Sample Type: Grab

Field Data: pH=6.58 Temp=15.9 ºC Turb. =1.73 ntu

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Magnesium	EPA 200.7	**1100**	0.10	mg/L	1	A314146	11/26/13	12/04/13	
Magnesium - Dissolved (1)	EPA 200.7	**1100**	0.10	mg/L	1	A314514	12/06/13	12/10/13	
Manganese	EPA 200.7	**3.5**	0.010	mg/L	1	A314146	11/26/13	12/04/13	
Manganese - Dissolved (1)	EPA 200.7	**3.6**	0.010	mg/L	1	A314514	12/06/13	12/10/13	
Potassium - Dissolved (1)	EPA 200.7	**270**	2.0	mg/L	1	A314514	12/06/13	12/10/13	
Silica (SiO2) - Dissolved (1)	EPA 200.7	**32**	0.20	mg/L	1	A314514	12/06/13	12/10/13	
Sodium - Dissolved (1)	EPA 200.7	**8100**	20	mg/L	20	A314514	12/06/13	12/10/13	
Strontium - Dissolved (1)	EPA 200.8	**10000**	10	ug/L	10	A314514	12/06/13	12/10/13	
Zinc	EPA 200.7	ND	0.050	mg/L	1	A314146	11/26/13	12/04/13	

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A314194	11/27/13	11/28/13	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A314194	11/27/13	11/28/13	
Surrogate: TCMX	EPA 504.1	103 %	*Acceptable range: 70-130 %*						
Organohalide Pesticides and PCBs by GC-ECD									
Aldrin	EPA 505	ND	0.075	ug/L	1	A314194	11/27/13	11/28/13	
Chlordane	EPA 505	ND	0.10	ug/L	1	A314194	11/27/13	11/28/13	
Chlorothalonil	EPA 505	ND	5.0	ug/L	1	A314194	11/27/13	11/28/13	
Dieldrin	EPA 505	ND	0.020	ug/L	1	A314194	11/27/13	11/28/13	
Endrin	EPA 505	ND	0.10	ug/L	1	A314194	11/27/13	11/28/13	
Heptachlor	EPA 505	ND	0.010	ug/L	1	A314194	11/27/13	11/28/13	
Heptachlor Epoxide	EPA 505	ND	0.010	ug/L	1	A314194	11/27/13	11/28/13	
Hexachlorobenzene	EPA 505	ND	0.50	ug/L	1	A314194	11/27/13	11/28/13	
Hexachlorocyclopentadiene	EPA 505	ND	1.0	ug/L	1	A314194	11/27/13	11/28/13	
Lindane	EPA 505	ND	0.20	ug/L	1	A314194	11/27/13	11/28/13	
Methoxychlor	EPA 505	ND	10	ug/L	1	A314194	11/27/13	11/28/13	
PCB Aroclor Screen	EPA 505	ND	0.50	ug/L	1	A314194	11/27/13	11/28/13	
Toxaphene	EPA 505	ND	1.0	ug/L	1	A314194	11/27/13	11/28/13	
Trifluralin	EPA 505	ND	1.0	ug/L	1	A314194	11/27/13	11/28/13	
Surrogate: TCMX	EPA 505	103 %	*Acceptable range: 70-130 %*						
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A314421	12/05/13	12/08/13	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A314421	12/05/13	12/08/13	
2,4-D	EPA 515.3	ND	10	ug/L	1	A314421	12/05/13	12/08/13	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A314421	12/05/13	12/08/13	
Dalapon	EPA 515.3	ND	10	ug/L	1	A314421	12/05/13	12/08/13	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A314421	12/05/13	12/08/13	

BSK Associates Engineers & Laboratories

Certificate of Analysis

Sample ID: A3K1910-01
Sampled By: Nathan Reynolds
Sample Description: MPWSP ML-6 Zone #2 (100-110 ft bgs)

Sample Date - Time: 11/23/13 - 13:00
Matrix: Water
Sample Type: Grab

Field Data: pH=6.58 Temp=15.9 ºC Turb. =1.73 ntu

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chlorinated Acid Herbicides by GC-ECD									
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A314421	12/05/13	12/08/13	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A314421	12/05/13	12/08/13	
Picloram	EPA 515.3	ND	1.0	ug/L	1	A314421	12/05/13	12/08/13	
Surrogate: DCPAA	EPA 515.3	80 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A314277	12/03/13	12/04/13	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A314277	12/03/13	12/04/13	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A314277	12/03/13	12/04/13	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A314277	12/03/13	12/04/13	
Acetone	EPA 524.2	ND	10	ug/L	1	A314277	12/03/13	12/04/13	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	

Certificate of Analysis

Sample ID: A3K1910-01
Sampled By: Nathan Reynolds
Sample Description: MPWSP ML-6 Zone #2 (100-110 ft bgs)

Sample Date - Time: 11/23/13 - 13:00
Matrix: Water
Sample Type: Grab

Field Data: pH=6.58 Temp=15.9 ºC Turb. =1.73 ntu

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A314277	12/03/13	12/04/13	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	BS1.0
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A314277	12/03/13	12/04/13	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A314277	12/03/13	12/04/13	BS1.0, CV0.0
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A314277	12/03/13	12/04/13	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A314277	12/03/13	12/04/13	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	96 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	106 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A314276	12/03/13	12/04/13	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A314276	12/03/13	12/04/13	

Certificate of Analysis

Sample ID: A3K1910-01
Sampled By: Nathan Reynolds
Sample Description: MPWSP ML-6 Zone #2 (100-110 ft bgs)

Sample Date - Time: 11/23/13 - 13:00
Matrix: Water
Sample Type: Grab

Field Data: pH=6.58 Temp=15.9 ºC Turb. =1.73 ntu

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Semi-Volatile Organics by GC-MS									
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A314276	12/03/13	12/04/13	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A314276	12/03/13	12/04/13	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A314276	12/03/13	12/04/13	
Bromacil	EPA 525.2	ND	10	ug/L	1	A314276	12/03/13	12/04/13	
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A314276	12/03/13	12/04/13	
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A314276	12/03/13	12/04/13	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A314276	12/03/13	12/04/13	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A314276	12/03/13	12/04/13	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A314276	12/03/13	12/04/13	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A314276	12/03/13	12/04/13	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A314276	12/03/13	12/04/13	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A314276	12/03/13	12/04/13	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A314276	12/03/13	12/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	97 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A314122	11/26/13	11/26/13	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A314122	11/26/13	11/26/13	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A314122	11/26/13	11/26/13	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A314122	11/26/13	11/26/13	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A314122	11/26/13	11/26/13	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A314122	11/26/13	11/26/13	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A314122	11/26/13	11/26/13	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A314122	11/26/13	11/26/13	
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A314204	12/01/13	12/01/13	
Surrogate: AMPA	EPA 547	95 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A314043	11/27/13	11/29/13	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A314169	11/27/13	12/03/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A314134										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: EMH	
Blank (A314134-BLK1)											
Chloride	ND	1.0	mg/L							11/26/13	B2.0
Nitrate as NO3	ND	1.0	mg/L							11/26/13	
Nitrite as N	ND	0.050	mg/L							11/26/13	
Sulfate as SO4	ND	2.0	mg/L							11/26/13	B2.0
Blank Spike (A314134-BS1)											
Chloride	51	1.0	mg/L	50		101	90-110			11/26/13	
Nitrate as NO3	51	1.0	mg/L	50		101	90-110			11/26/13	
Nitrite as N	0.53	0.050	mg/L	0.50		105	90-110			11/26/13	
Sulfate as SO4	51	2.0	mg/L	50		103	90-110			11/26/13	
Blank Spike Dup (A314134-BSD1)											
Chloride	51	1.0	mg/L	50		102	90-110	1	20	11/26/13	
Nitrate as NO3	51	1.0	mg/L	50		103	90-110	1	20	11/26/13	
Nitrite as N	0.53	0.050	mg/L	0.50		106	90-110	1	20	11/26/13	
Sulfate as SO4	52	2.0	mg/L	50		103	90-110	1	20	11/26/13	
Matrix Spike (A314134-MS1), Source: A3K1880-02											
Chloride	110	2.0	mg/L	100	9.2	105	80-120			11/26/13	
Nitrate as NO3	120	2.0	mg/L	100	16	104	80-120			11/26/13	
Nitrite as N	0.98	0.10	mg/L	1.0	ND	98	80-120			11/26/13	
Sulfate as SO4	120	4.0	mg/L	100	17	106	80-120			11/26/13	
Matrix Spike (A314134-MS2), Source: A3K1891-02											
Chloride	100	2.0	mg/L	100	ND	102	80-120			11/27/13	
Nitrate as NO3	100	2.0	mg/L	100	ND	101	80-120			11/27/13	
Nitrite as N	0.97	0.10	mg/L	1.0	ND	97	80-120			11/27/13	
Sulfate as SO4	100	4.0	mg/L	100	ND	102	80-120			11/27/13	
Matrix Spike Dup (A314134-MSD1), Source: A3K1880-02											
Chloride	110	2.0	mg/L	100	9.2	103	80-120	2	20	11/26/13	
Nitrate as NO3	120	2.0	mg/L	100	16	102	80-120	2	20	11/26/13	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	103	80-120	5	20	11/26/13	
Sulfate as SO4	120	4.0	mg/L	100	17	103	80-120	2	20	11/26/13	
Matrix Spike Dup (A314134-MSD2), Source: A3K1891-02											
Chloride	100	2.0	mg/L	100	ND	103	80-120	1	20	11/27/13	
Nitrate as NO3	100	2.0	mg/L	100	ND	103	80-120	1	20	11/27/13	
Nitrite as N	0.99	0.10	mg/L	1.0	ND	99	80-120	1	20	11/27/13	
Sulfate as SO4	100	4.0	mg/L	100	ND	103	80-120	1	20	11/27/13	
EPA 300.0 - Quality Control											
Batch: A314220										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314220-BLK1)											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A314220										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314220-BLK1)											
Fluoride	ND	0.10	mg/L							11/27/13	
Blank Spike (A314220-BS1)											
Fluoride	0.50	0.10	mg/L	0.50		99	90-110			11/27/13	
Blank Spike Dup (A314220-BSD1)											
Fluoride	0.49	0.10	mg/L	0.50		99	90-110	1	10	11/27/13	
Matrix Spike (A314220-MS1), Source: A3K1732-04											
Fluoride	0.98	0.20	mg/L	1.0	ND	88	80-120			11/27/13	
Matrix Spike (A314220-MS2), Source: A3K1891-02											
Fluoride	1.3	0.20	mg/L	1.0	0.30	99	80-120			11/27/13	
Matrix Spike Dup (A314220-MSD1), Source: A3K1732-04											
Fluoride	0.99	0.20	mg/L	1.0	ND	89	80-120	1	10	11/27/13	
Matrix Spike Dup (A314220-MSD2), Source: A3K1891-02											
Fluoride	1.3	0.20	mg/L	1.0	0.30	100	80-120	1	10	11/27/13	
EPA 300.1 - Quality Control											
Batch: A314117										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314117-BLK1)											
Bromide	ND	0.0050	mg/L							11/26/13	
Surrogate: Dichloroacetate	*0.451*			*0.50*		*90*	*90-115*			11/26/13	
Blank Spike (A314117-BS1)											
Bromide	0.18	0.0050	mg/L	0.20		92	85-115			11/26/13	
Surrogate: Dichloroacetate	*0.465*			*0.50*		*93*	*90-115*			11/26/13	
Blank Spike Dup (A314117-BSD1)											
Bromide	0.18	0.0050	mg/L	0.20		92	85-115	1	10	11/26/13	
Surrogate: Dichloroacetate	*0.476*			*0.50*		*95*	*90-115*			11/26/13	
Matrix Spike (A314117-MS1), Source: A3K1815-03											
Bromide	1.1	0.050	mg/L	1.0	0.14	95	75-125			11/26/13	
Surrogate: Dichloroacetate	*5.02*			*5.0*		*100*	*90-115*			11/26/13	
Matrix Spike Dup (A314117-MSD1), Source: A3K1815-03											
Bromide	1.1	0.050	mg/L	1.0	0.14	94	75-125	1	10	11/26/13	
Surrogate: Dichloroacetate	*5.30*			*5.0*		*106*	*90-115*			11/26/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 351.2 - Quality Control											
Batch: A314282										Prepared: 12/3/2013	
Prep Method: Digestion										Analyst: KKC	
Blank (A314282-BLK1)											
Total Kjeldahl Nitrogen - Dissolved (1)	ND	1.0	mg/L							12/05/13	
Blank Spike (A314282-BS1)											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10		106	90-110			12/05/13	
Blank Spike Dup (A314282-BSD1)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		102	90-110	4	10	12/05/13	
Matrix Spike (A314282-MS1), Source: A3K2014-02											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10	ND	109	90-110			12/05/13	
Matrix Spike Dup (A314282-MSD1), Source: A3K2014-02											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10	ND	106	90-110	3	10	12/05/13	
EPA 365.4 - Quality Control											
Batch: A314666										Prepared: 12/11/2013	
Prep Method: Digestion										Analyst: KKC	
Blank (A314666-BLK1)											
Phosphorus - Dissolved (1)	ND	0.10	mg/L							12/12/13	
Blank Spike (A314666-BS1)											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10		101	90-110			12/12/13	
Blank Spike Dup (A314666-BSD1)											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10		103	90-110	2	10	12/12/13	
Matrix Spike (A314666-MS1), Source: A3L0659-05											
Phosphorus - Dissolved (1)	9.7	0.10	mg/L	10	ND	97	90-110			12/12/13	
Matrix Spike Dup (A314666-MSD1), Source: A3L0659-05											
Phosphorus - Dissolved (1)	9.4	0.10	mg/L	10	ND	94	90-110	3	10	12/12/13	
SM 2120 B - Quality Control											
Batch: A314113										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314113-BLK1)											
Color, Apparent	ND	1.0	CU							11/26/13	
Duplicate (A314113-DUP1), Source: A3K1910-01											
Color, Apparent	10	1.0	CU		10			0	20	11/26/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2130 B - Quality Control											
Batch: A314113										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314113-BLK1)											
Turbidity	ND	0.10	NTU							11/26/13	
Duplicate (A314113-DUP1), Source: A3K1910-01											
Turbidity	1.6	0.10	NTU		1.6			4	20	11/26/13	
SM 2150 B - Quality Control											
Batch: A314113										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314113-BLK1)											
Threshold Odor	ND	1.0	T.O.N.							11/26/13	
Duplicate (A314113-DUP1), Source: A3K1910-01											
Threshold Odor	ND	1.0	T.O.N.		ND				20	11/26/13	
SM 2320 B - Quality Control											
Batch: A314132										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314132-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							11/26/13	
Bicarbonate as CaCO3	ND	3.0	mg/L							11/26/13	
Carbonate as CaCO3	ND	3.0	mg/L							11/26/13	
Hydroxide as CaCO3	ND	3.0	mg/L							11/26/13	
Blank Spike (A314132-BS1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		100	80-120			11/26/13	
Blank Spike Dup (A314132-BSD1)											
Alkalinity as CaCO3	98	3.0	mg/L	100		98	80-120	2	20	11/26/13	
Duplicate (A314132-DUP1), Source: A3K1885-01											
Alkalinity as CaCO3	230	3.0	mg/L		240			1	10	11/26/13	
Bicarbonate as CaCO3	230	3.0	mg/L		240			1	10	11/26/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	11/26/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	11/26/13	
Duplicate (A314132-DUP2), Source: A3K1922-06											
Alkalinity as CaCO3	72	3.0	mg/L		72			1	10	11/26/13	
Bicarbonate as CaCO3	72	3.0	mg/L		72			1	10	11/26/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	11/26/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	11/26/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2510 B - Quality Control											
Batch: A314132										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A314132-BLK1)											
Conductivity @ 25C	ND	1.0	umhos/cm							11/26/13	
Duplicate (A314132-DUP1), Source: A3K1885-01											
Conductivity @ 25C	1400	1.0	umhos/cm		1400			0	20	11/26/13	
Duplicate (A314132-DUP2), Source: A3K1922-06											
Conductivity @ 25C	210	1.0	umhos/cm		210			0	20	11/26/13	
SM 2540C - Quality Control											
Batch: A314178										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank (A314178-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							12/02/13	
Blank Spike (A314178-BS1)											
Total Dissolved Solids	990	5.0	mg/L	1000		99	70-130			12/02/13	
Duplicate (A314178-DUP1), Source: A3K1910-01											
Total Dissolved Solids	29000	5.0	mg/L		28000			5	20	12/02/13	
SM 4500-H+ B - Quality Control											
Batch: A314132										Prepared: 11/26/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Duplicate (A314132-DUP1), Source: A3K1885-01											
pH (1)	8.1		pH Units		8.1			0	20	11/26/13	
Duplicate (A314132-DUP2), Source: A3K1922-06											
pH (1)	7.9		pH Units		7.9			0	20	11/26/13	
SM 4500-NH3 G - Quality Control											
Batch: A314346										Prepared: 12/4/2013	
Prep Method: Ammonia Distillation										Analyst: KKC	
Blank (A314346-BLK1)											
Ammonia as N	ND	0.10	mg/L							12/09/13	
Blank Spike (A314346-BS1)											
Ammonia as N	9.9	0.10	mg/L	10		99	80-120			12/09/13	
Blank Spike Dup (A314346-BSD1)											
Ammonia as N	10	0.10	mg/L	10		102	80-120	2	20	12/09/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-NH3 G - Quality Control											
Batch: A314346										Prepared: 12/4/2013	
Prep Method: Ammonia Distillation										Analyst: KKC	
Matrix Spike (A314346-MS1), Source: A3K1829-06											
Ammonia as N	9.9	0.10	mg/L	10	0.41	94	80-120			12/09/13	
Matrix Spike (A314346-MS2), Source: A3K1880-10											
Ammonia as N	9.3	0.10	mg/L	10	ND	92	80-120			12/09/13	
Matrix Spike Dup (A314346-MSD1), Source: A3K1829-06											
Ammonia as N	10	0.10	mg/L	10	0.41	99	80-120	5	20	12/09/13	
Matrix Spike Dup (A314346-MSD2), Source: A3K1880-10											
Ammonia as N	9.9	0.10	mg/L	10	ND	98	80-120	6	20	12/09/13	
SM 4500-NO3 F - Quality Control											
Batch: A314432										Prepared: 12/5/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314432-BLK1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	ND	0.10	mg/L							12/05/13	
Blank Spike (A314432-BS1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.4	0.10	mg/L	10		94	80-120			12/05/13	
Blank Spike Dup (A314432-BSD1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.5	0.10	mg/L	10		95	80-120	1	20	12/05/13	
Matrix Spike (A314432-MS1), Source: A3K1854-02											
Total Oxidizable Nitrogen, as N - Dissolved (1)	14	0.10	mg/L	10	4.9	96	80-120			12/05/13	
Matrix Spike (A314432-MS2), Source: A3K1910-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	8.7	0.10	mg/L	10	ND	87	80-120			12/05/13	
Matrix Spike Dup (A314432-MSD1), Source: A3K1854-02											
Total Oxidizable Nitrogen, as N - Dissolved (1)	15	0.10	mg/L	10	4.9	96	80-120	0	20	12/05/13	
Matrix Spike Dup (A314432-MSD2), Source: A3K1910-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.2	0.10	mg/L	10	ND	92	80-120	5	20	12/05/13	
SM 4500-P E - Quality Control											
Batch: A314203										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank (A314203-BLK1)											
Orthophosphate as P	ND	0.010	mg/L							11/27/13	
Blank Spike (A314203-BS1)											
Orthophosphate as P	0.23	0.010	mg/L	0.25		93	90-110			11/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-P E - Quality Control											
Batch: A314203										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: KKC	
Blank Spike Dup (A314203-BSD1)											
Orthophosphate as P	0.23	0.010	mg/L	0.25		92	90-110	1	20	11/27/13	
Matrix Spike (A314203-MS1), Source: A3K1964-02											
Orthophosphate as P	0.31	0.010	mg/L	0.25	0.082	91	80-120			11/27/13	
Matrix Spike Dup (A314203-MSD1), Source: A3K1964-02											
Orthophosphate as P	0.31	0.010	mg/L	0.25	0.082	92	80-120	1	20	11/27/13	
SM 5540 C - Quality Control											
Batch: A314153										Prepared: 11/27/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A314153-BLK1)											
MBAS, Calculated as LAS, mol wt 340	ND	0.050	mg/L							11/27/13	
Blank Spike (A314153-BS1)											
MBAS, Calculated as LAS, mol wt 340	0.90	0.050	mg/L	1.0		90	80-120			11/27/13	
Blank Spike Dup (A314153-BSD1)											
MBAS, Calculated as LAS, mol wt 340	0.93	0.050	mg/L	1.0		93	80-120	3	20	11/27/13	
Matrix Spike (A314153-MS1), Source: A3K1904-01											
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0	ND	99	80-120			11/27/13	
Matrix Spike Dup (A314153-MSD1), Source: A3K1904-01											
MBAS, Calculated as LAS, mol wt 340	0.97	0.050	mg/L	1.0	ND	93	80-120	6	20	11/27/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A314146										Prepared: 11/26/2013	
Prep Method: EPA 200.2										Analyst: NRE	
Blank (A314146-BLK2)											
Aluminum	ND	0.050	mg/L							12/04/13	
Calcium	ND	0.10	mg/L							12/04/13	
Iron	ND	0.030	mg/L							12/04/13	
Magnesium	ND	0.10	mg/L							12/04/13	
Manganese	ND	0.010	mg/L							12/04/13	
Zinc	ND	0.050	mg/L							12/04/13	
Blank Spike (A314146-BS2)											
Aluminum	0.19	0.050	mg/L	0.20		94	85-115			12/04/13	
Calcium	10	0.10	mg/L	10		100	85-115			12/04/13	
Iron	1.9	0.030	mg/L	2.0		97	85-115			12/04/13	
Magnesium	9.9	0.10	mg/L	10		99	85-115			12/04/13	
Manganese	0.20	0.010	mg/L	0.20		98	85-115			12/04/13	
Zinc	0.21	0.050	mg/L	0.20		103	85-115			12/04/13	
Blank Spike Dup (A314146-BSD2)											
Aluminum	0.18	0.050	mg/L	0.20		91	85-115	3	20	12/04/13	
Calcium	10	0.10	mg/L	10		102	85-115	1	20	12/04/13	
Iron	2.0	0.030	mg/L	2.0		98	85-115	0	20	12/04/13	
Magnesium	9.9	0.10	mg/L	10		99	85-115	1	20	12/04/13	
Manganese	0.20	0.010	mg/L	0.20		98	85-115	0	20	12/04/13	
Zinc	0.21	0.050	mg/L	0.20		103	85-115	0	20	12/04/13	
Matrix Spike (A314146-MS3), Source: A3K1935-01											
Aluminum	0.72	0.050	mg/L	0.20	0.42	150	70-130			12/04/13	MS1.0 ***High***
Calcium	53	0.10	mg/L	10	43	101	70-130			12/04/13	
Iron	2.5	0.030	mg/L	2.0	0.52	99	70-130			12/04/13	
Magnesium	11	0.10	mg/L	10	0.68	99	70-130			12/04/13	
Manganese	0.21	0.010	mg/L	0.20	0.020	97	70-130			12/04/13	
Zinc	0.21	0.050	mg/L	0.20	ND	107	70-130			12/04/13	
Matrix Spike Dup (A314146-MSD3), Source: A3K1935-01											
Aluminum	0.71	0.050	mg/L	0.20	0.42	144	70-130	1	20	12/04/13	MS1.0 ***High***
Calcium	52	0.10	mg/L	10	43	92	70-130	2	20	12/04/13	
Iron	2.5	0.030	mg/L	2.0	0.52	99	70-130	0	20	12/04/13	
Magnesium	11	0.10	mg/L	10	0.68	99	70-130	0	20	12/04/13	
Manganese	0.21	0.010	mg/L	0.20	0.020	97	70-130	0	20	12/04/13	
Zinc	0.21	0.050	mg/L	0.20	ND	104	70-130	3	20	12/04/13	
EPA 200.7 - Quality Control											
Batch: A314514										Prepared: 12/6/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Blank (A314514-BLK2)											
Barium - Dissolved (1)	ND	0.050	mg/L							12/10/13	
Boron - Dissolved (1)	ND	0.10	mg/L							12/10/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A314514										Prepared: 12/6/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Blank (A314514-BLK2)											
Calcium - Dissolved (1)	ND	0.10	mg/L							12/10/13	
Iron - Dissolved (1)	ND	0.030	mg/L							12/10/13	
Magnesium - Dissolved (1)	ND	0.10	mg/L							12/10/13	
Manganese - Dissolved (1)	ND	0.010	mg/L							12/10/13	
Potassium - Dissolved (1)	ND	2.0	mg/L							12/10/13	
Silica (SiO2) - Dissolved (1)	ND	0.20	mg/L							12/10/13	
Sodium - Dissolved (1)	ND	1.0	mg/L							12/10/13	
Blank Spike (A314514-BS2)											
Barium - Dissolved (1)	0.21	0.050	mg/L	0.20		106	85-115			12/10/13	
Boron - Dissolved (1)	0.63	0.10	mg/L	0.60		106	85-115			12/10/13	
Calcium - Dissolved (1)	11	0.10	mg/L	10		108	85-115			12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0		104	85-115			12/10/13	
Magnesium - Dissolved (1)	10	0.10	mg/L	10		105	85-115			12/10/13	
Manganese - Dissolved (1)	0.21	0.010	mg/L	0.20		104	85-115			12/10/13	
Potassium - Dissolved (1)	11	2.0	mg/L	10		105	85-115			12/10/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		102	85-115			12/10/13	
Sodium - Dissolved (1)	11	1.0	mg/L	10		106	85-115			12/10/13	
Blank Spike Dup (A314514-BSD2)											
Barium - Dissolved (1)	0.21	0.050	mg/L	0.20		105	85-115	1	20	12/10/13	
Boron - Dissolved (1)	0.63	0.10	mg/L	0.60		105	85-115	1	20	12/10/13	
Calcium - Dissolved (1)	11	0.10	mg/L	10		107	85-115	1	20	12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0		104	85-115	0	20	12/10/13	
Magnesium - Dissolved (1)	10	0.10	mg/L	10		104	85-115	1	20	12/10/13	
Manganese - Dissolved (1)	0.21	0.010	mg/L	0.20		103	85-115	1	20	12/10/13	
Potassium - Dissolved (1)	10	2.0	mg/L	10		103	85-115	2	20	12/10/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		101	85-115	1	20	12/10/13	
Sodium - Dissolved (1)	10	1.0	mg/L	10		104	85-115	2	20	12/10/13	
Matrix Spike (A314514-MS3), Source: A3K1890-01											
Barium - Dissolved (1)	0.22	0.050	mg/L	0.20	ND	110	70-130			12/10/13	
Boron - Dissolved (1)	1.1	0.10	mg/L	0.60	0.48	102	70-130			12/10/13	
Calcium - Dissolved (1)	13	0.10	mg/L	10	2.2	106	70-130			12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.089	103	70-130			12/10/13	
Magnesium - Dissolved (1)	11	0.10	mg/L	10	0.27	103	70-130			12/10/13	
Manganese - Dissolved (1)	0.30	0.010	mg/L	0.20	0.091	102	70-130			12/10/13	
Potassium - Dissolved (1)	12	2.0	mg/L	10	ND	103	70-130			12/10/13	
Silica (SiO2) - Dissolved (1)	57	0.20	mg/L	2.1	55	123	70-130			12/10/13	
Sodium - Dissolved (1)	150	1.0	mg/L	10	140	105	70-130			12/10/13	
Matrix Spike (A314514-MS4), Source: A3L0185-01											
Barium - Dissolved (1)	0.21	0.050	mg/L	0.20	ND	107	70-130			12/10/13	
Boron - Dissolved (1)	1.1	0.10	mg/L	0.60	0.52	103	70-130			12/10/13	
Calcium - Dissolved (1)	13	0.10	mg/L	10	2.7	106	70-130			12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.051	103	70-130			12/10/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A314514										Prepared: 12/6/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Matrix Spike (A314514-MS4), Source: A3L0185-01											
Magnesium - Dissolved (1)	10	0.10	mg/L	10	0.29	101	70-130			12/10/13	
Manganese - Dissolved (1)	0.21	0.010	mg/L	0.20	ND	105	70-130			12/10/13	
Potassium - Dissolved (1)	12	2.0	mg/L	10	ND	102	70-130			12/10/13	
Silica (SiO2) - Dissolved (1)	59	0.20	mg/L	2.1	57	116	70-130			12/10/13	
Sodium - Dissolved (1)	160	1.0	mg/L	10	150	124	70-130			12/10/13	
Matrix Spike Dup (A314514-MSD3), Source: A3K1890-01											
Barium - Dissolved (1)	0.22	0.050	mg/L	0.20	ND	111	70-130	1	20	12/10/13	
Boron - Dissolved (1)	1.1	0.10	mg/L	0.60	0.48	102	70-130	0	20	12/10/13	
Calcium - Dissolved (1)	13	0.10	mg/L	10	2.2	104	70-130	1	20	12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.089	103	70-130	0	20	12/10/13	
Magnesium - Dissolved (1)	10	0.10	mg/L	10	0.27	102	70-130	1	20	12/10/13	
Manganese - Dissolved (1)	0.29	0.010	mg/L	0.20	0.091	102	70-130	0	20	12/10/13	
Potassium - Dissolved (1)	12	2.0	mg/L	10	ND	103	70-130	0	20	12/10/13	
Silica (SiO2) - Dissolved (1)	57	0.20	mg/L	2.1	55	126	70-130	0	20	12/10/13	
Sodium - Dissolved (1)	150	1.0	mg/L	10	140	110	70-130	0	20	12/10/13	
Matrix Spike Dup (A314514-MSD4), Source: A3L0185-01											
Barium - Dissolved (1)	0.22	0.050	mg/L	0.20	ND	109	70-130	2	20	12/10/13	
Boron - Dissolved (1)	1.2	0.10	mg/L	0.60	0.52	107	70-130	2	20	12/10/13	
Calcium - Dissolved (1)	14	0.10	mg/L	10	2.7	109	70-130	2	20	12/10/13	
Iron - Dissolved (1)	2.1	0.030	mg/L	2.0	0.051	104	70-130	1	20	12/10/13	
Magnesium - Dissolved (1)	10	0.10	mg/L	10	0.29	101	70-130	0	20	12/10/13	
Manganese - Dissolved (1)	0.21	0.010	mg/L	0.20	ND	105	70-130	0	20	12/10/13	
Potassium - Dissolved (1)	12	2.0	mg/L	10	ND	105	70-130	2	20	12/10/13	
Silica (SiO2) - Dissolved (1)	61	0.20	mg/L	2.1	57	221	70-130	4	20	12/10/13	MS1.0 ***High***
Sodium - Dissolved (1)	160	1.0	mg/L	10	150	166	70-130	3	20	12/10/13	MS1.0 ***High***
EPA 200.8 - Quality Control											
Batch: A314146										Prepared: 11/26/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Blank (A314146-BLK1)											
Arsenic	ND	2.0	ug/L							11/27/13	
Copper	ND	5.0	ug/L							11/27/13	
Blank Spike (A314146-BS1)											
Arsenic	190	2.0	ug/L	200		95	85-115			11/27/13	
Copper	180	5.0	ug/L	200		92	85-115			11/27/13	
Blank Spike Dup (A314146-BSD1)											
Arsenic	190	2.0	ug/L	200		93	85-115	2	20	11/27/13	
Copper	180	5.0	ug/L	200		89	85-115	3	20	11/27/13	
Matrix Spike (A314146-MS1), Source: A3K1935-01											
Arsenic	200	2.0	ug/L	200	10	95	70-130			11/27/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A314146										Prepared: 11/26/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Matrix Spike (A314146-MS1), Source: A3K1935-01											
Copper	180	5.0	ug/L	200	ND	87	70-130			11/27/13	
Matrix Spike (A314146-MS2), Source: A3K1935-02											
Arsenic	210	2.0	ug/L	200	13	99	70-130			11/27/13	
Copper	180	5.0	ug/L	200	ND	91	70-130			11/27/13	
Matrix Spike Dup (A314146-MSD1), Source: A3K1935-01											
Arsenic	200	2.0	ug/L	200	10	96	70-130	1	20	11/27/13	
Copper	180	5.0	ug/L	200	ND	88	70-130	0	20	11/27/13	
Matrix Spike Dup (A314146-MSD2), Source: A3K1935-02											
Arsenic	210	2.0	ug/L	200	13	98	70-130	1	20	11/27/13	
Copper	180	5.0	ug/L	200	ND	91	70-130	0	20	11/27/13	
EPA 200.8 - Quality Control											
Batch: A314514										Prepared: 12/6/2013	
Prep Method: Filtration - Metals										Analyst: MAS	
Blank (A314514-BLK1)											
Strontium - Dissolved (1)	ND	1.0	ug/L							12/10/13	
Blank Spike (A314514-BS1)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		99	85-115			12/10/13	
Blank Spike Dup (A314514-BSD1)											
Strontium - Dissolved (1)	200	1.0	ug/L	200		98	85-115	1	20	12/10/13	
Matrix Spike (A314514-MS1), Source: A3K1890-01											
Strontium - Dissolved (1)	220	1.0	ug/L	200	23	101	70-130			12/10/13	
Matrix Spike Dup (A314514-MSD1), Source: A3K1890-01											
Strontium - Dissolved (1)	220	1.0	ug/L	200	23	96	70-130	4	20	12/10/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A314194										Prepared: 11/27/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A314194-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							11/27/13	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							11/27/13	
Surrogate: TCMX	*4.2*			*4.5*		*94*	*70-130*			11/27/13	
Blank Spike (A314194-BS1)											
Dibromochloropropane (DBCP)	0.21	0.010	ug/L	0.20		107	70-130			11/27/13	
Ethylene Dibromide (EDB)	0.22	0.020	ug/L	0.20		108	70-130			11/27/13	
Surrogate: TCMX	*4.2*			*4.5*		*93*	*70-130*			11/27/13	
Blank Spike Dup (A314194-BSD1)											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20		108	70-130	1	20	11/28/13	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.20		105	70-130	3	20	11/28/13	
Surrogate: TCMX	*4.2*			*4.5*		*95*	*70-130*			11/28/13	
Matrix Spike (A314194-MS1), Source: A3K1596-06											
Dibromochloropropane (DBCP)	0.23	0.010	ug/L	0.20	ND	113	65-135			11/27/13	
Ethylene Dibromide (EDB)	0.20	0.020	ug/L	0.20	ND	98	65-135			11/27/13	
Surrogate: TCMX	*4.0*			*4.5*		*88*	*70-130*			11/27/13	
Matrix Spike Dup (A314194-MSD1), Source: A3K1596-06											
Dibromochloropropane (DBCP)	0.22	0.010	ug/L	0.20	ND	111	65-135	1	20	11/27/13	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.20	ND	105	65-135	7	20	11/27/13	
Surrogate: TCMX	*4.1*			*4.5*		*90*	*70-130*			11/27/13	
EPA 505 - Quality Control											
Batch: A314194										Prepared: 11/27/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A314194-BLK1)											
Aldrin	ND	0.075	ug/L							11/27/13	
Chlordane	ND	0.10	ug/L							11/27/13	
Chlorothalonil	ND	5.0	ug/L							11/27/13	
Dieldrin	ND	0.020	ug/L							11/27/13	
Endrin	ND	0.10	ug/L							11/27/13	
Heptachlor	ND	0.010	ug/L							11/27/13	
Heptachlor Epoxide	ND	0.010	ug/L							11/27/13	
Hexachlorobenzene	ND	0.50	ug/L							11/27/13	
Hexachlorocyclopentadiene	ND	1.0	ug/L							11/27/13	
Lindane	ND	0.20	ug/L							11/27/13	
Methoxychlor	ND	10	ug/L							11/27/13	
PCB Aroclor Screen	ND	0.50	ug/L							11/27/13	
Toxaphene	ND	1.0	ug/L							11/27/13	
Trifluralin	ND	1.0	ug/L							11/27/13	
Surrogate: TCMX	*4.2*			*4.5*		*94*	*70-130*			11/27/13	
Blank Spike (A314194-BS1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 505 - Quality Control											
Batch: A314194										Prepared: 11/27/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank Spike (A314194-BS1)											
Aldrin	1.0	0.075	ug/L	1.0		101	70-130			11/27/13	
Chlorothalonil	9.8	5.0	ug/L	10		98	70-130			11/27/13	
Dieldrin	0.47	0.020	ug/L	0.40		117	70-130			11/27/13	
Endrin	0.23	0.10	ug/L	0.20		115	70-130			11/27/13	
Heptachlor	0.23	0.010	ug/L	0.20		115	70-130			11/27/13	
Heptachlor Epoxide	0.23	0.010	ug/L	0.20		113	70-130			11/27/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0		103	70-130			11/27/13	
Hexachlorocyclopentadiene	2.0	1.0	ug/L	2.0		99	70-130			11/27/13	
Lindane	0.47	0.20	ug/L	0.40		117	70-130			11/27/13	
Methoxychlor	2.5	10	ug/L	2.0		124	70-130			11/27/13	
Trifluralin	2.3	1.0	ug/L	2.0		116	70-130			11/27/13	
Surrogate: TCMX	*4.2*			*4.5*		*93*	*70-130*			11/27/13	
Blank Spike Dup (A314194-BSD1)											
Aldrin	0.98	0.075	ug/L	1.0		98	70-130	3	20	11/28/13	
Chlorothalonil	9.9	5.0	ug/L	10		99	70-130	1	20	11/28/13	
Dieldrin	0.47	0.020	ug/L	0.40		116	70-130	0	20	11/28/13	
Endrin	0.23	0.10	ug/L	0.20		114	70-130	1	20	11/28/13	
Heptachlor	0.23	0.010	ug/L	0.20		113	70-130	2	20	11/28/13	
Heptachlor Epoxide	0.24	0.010	ug/L	0.20		119	70-130	6	20	11/28/13	
Hexachlorobenzene	2.0	0.50	ug/L	2.0		100	70-130	3	20	11/28/13	
Hexachlorocyclopentadiene	1.8	1.0	ug/L	2.0		88	70-130	11	20	11/28/13	
Lindane	0.47	0.20	ug/L	0.40		118	70-130	1	20	11/28/13	
Methoxychlor	2.5	10	ug/L	2.0		125	70-130	1	20	11/28/13	
Trifluralin	2.3	1.0	ug/L	2.0		114	70-130	1	20	11/28/13	
Surrogate: TCMX	*4.2*			*4.5*		*95*	*70-130*			11/28/13	
Matrix Spike (A314194-MS1), Source: A3K1596-06											
Aldrin	0.91	0.075	ug/L	1.0	ND	90	65-135			11/27/13	
Chlorothalonil	10	5.0	ug/L	10	ND	99	65-135			11/27/13	
Dieldrin	0.46	0.020	ug/L	0.40	ND	113	65-135			11/27/13	
Endrin	0.24	0.10	ug/L	0.20	ND	118	65-135			11/27/13	
Heptachlor	0.21	0.010	ug/L	0.20	ND	104	65-135			11/27/13	
Heptachlor Epoxide	0.23	0.010	ug/L	0.20	ND	114	65-135			11/27/13	
Hexachlorobenzene	1.9	0.50	ug/L	2.0	ND	96	65-135			11/27/13	
Hexachlorocyclopentadiene	1.6	1.0	ug/L	2.0	ND	77	65-135			11/27/13	
Lindane	0.47	0.20	ug/L	0.40	ND	117	65-135			11/27/13	
Methoxychlor	2.5	10	ug/L	2.0	ND	126	65-135			11/27/13	
Trifluralin	2.0	1.0	ug/L	2.0	ND	101	65-135			11/27/13	
Surrogate: TCMX	*4.0*			*4.5*		*88*	*70-130*			11/27/13	
Matrix Spike Dup (A314194-MSD1), Source: A3K1596-06											
Aldrin	1.0	0.075	ug/L	1.0	ND	100	65-135	10	20	11/27/13	
Chlorothalonil	10	5.0	ug/L	10	ND	102	65-135	3	20	11/27/13	
Dieldrin	0.47	0.020	ug/L	0.40	ND	117	65-135	4	20	11/27/13	
Endrin	0.24	0.10	ug/L	0.20	ND	119	65-135	1	20	11/27/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 505 - Quality Control											
Batch: A314194										Prepared: 11/27/2013	
Prep Method: EPA 505										Analyst: GAK	
Matrix Spike Dup (A314194-MSD1), Source: A3K1596-06											
Heptachlor	0.23	0.010	ug/L	0.20	ND	114	65-135	9	20	11/27/13	
Heptachlor Epoxide	0.24	0.010	ug/L	0.20	ND	119	65-135	4	20	11/27/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0	ND	104	65-135	8	20	11/27/13	
Hexachlorocyclopentadiene	1.8	1.0	ug/L	2.0	ND	90	65-135	15	20	11/27/13	
Lindane	0.48	0.20	ug/L	0.40	ND	118	65-135	1	20	11/27/13	
Methoxychlor	2.6	10	ug/L	2.0	ND	130	65-135	4	20	11/27/13	
Trifluralin	2.1	1.0	ug/L	2.0	ND	106	65-135	5	20	11/27/13	
Surrogate: TCMX	*4.1*			*4.5*		*90*	*70-130*			11/27/13	
EPA 515.3 - Quality Control											
Batch: A314421										Prepared: 12/5/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A314421-BLK1)											
2,4,5-T	ND	1.0	ug/L							12/08/13	
2,4,5-TP (Silvex)	ND	1.0	ug/L							12/08/13	
2,4-D	ND	10	ug/L							12/08/13	
Bentazon	ND	2.0	ug/L							12/08/13	
Dalapon	ND	10	ug/L							12/08/13	
Dicamba	ND	1.5	ug/L							12/08/13	
Dinoseb	ND	2.0	ug/L							12/08/13	
Pentachlorophenol	ND	0.20	ug/L							12/08/13	
Picloram	ND	1.0	ug/L							12/08/13	
Surrogate: DCPAA	*43*			*58*		*73*	*70-130*			12/08/13	
Blank Spike (A314421-BS1)											
2,4,5-T	4.2	1.0	ug/L	4.0		104	70-130			12/08/13	
2,4,5-TP (Silvex)	4.1	1.0	ug/L	4.0		104	70-130			12/08/13	
2,4-D	41	10	ug/L	40		103	70-130			12/08/13	
Bentazon	8.7	2.0	ug/L	8.0		109	70-130			12/08/13	
Dalapon	40	10	ug/L	40		99	70-130			12/08/13	
Dicamba	6.1	1.5	ug/L	6.0		101	70-130			12/08/13	
Dinoseb	7.8	2.0	ug/L	8.0		97	70-130			12/08/13	
Pentachlorophenol	0.81	0.20	ug/L	0.80		101	70-130			12/08/13	
Picloram	3.8	1.0	ug/L	4.0		96	70-130			12/08/13	
Surrogate: DCPAA	*45*			*58*		*78*	*70-130*			12/08/13	
Blank Spike Dup (A314421-BSD1)											
2,4,5-T	4.1	1.0	ug/L	4.0		102	70-130	3	20	12/08/13	
2,4,5-TP (Silvex)	4.1	1.0	ug/L	4.0		101	70-130	2	20	12/08/13	
2,4-D	40	10	ug/L	40		100	70-130	3	20	12/08/13	
Bentazon	8.7	2.0	ug/L	8.0		109	70-130	0	20	12/08/13	
Dalapon	39	10	ug/L	40		99	70-130	0	20	12/08/13	
Dicamba	5.9	1.5	ug/L	6.0		98	70-130	3	20	12/08/13	
Dinoseb	7.6	2.0	ug/L	8.0		95	70-130	2	20	12/08/13	
Pentachlorophenol	0.80	0.20	ug/L	0.80		100	70-130	1	20	12/08/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A314421										Prepared: 12/5/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A314421-BSD1)											
Picloram	3.9	1.0	ug/L	4.0		97	70-130	1	20	12/08/13	
Surrogate: DCPAA	*45*			*58*		*78*	*70-130*			12/08/13	
Matrix Spike (A314421-MS1), Source: A3K1910-01											
2,4,5-T	4.2	1.0	ug/L	4.0	ND	104	70-130			12/08/13	
2,4,5-TP (Silvex)	4.1	1.0	ug/L	4.0	ND	102	70-130			12/08/13	
2,4-D	42	10	ug/L	40	ND	105	70-130			12/08/13	
Bentazon	8.7	2.0	ug/L	8.0	ND	109	70-130			12/08/13	
Dalapon	41	10	ug/L	40	ND	102	70-130			12/08/13	
Dicamba	6.2	1.5	ug/L	6.0	ND	103	70-130			12/08/13	
Dinoseb	7.5	2.0	ug/L	8.0	ND	93	70-130			12/08/13	
Pentachlorophenol	0.80	0.20	ug/L	0.80	ND	100	70-130			12/08/13	
Picloram	4.3	1.0	ug/L	4.0	ND	102	70-130			12/08/13	
Surrogate: DCPAA	*46*			*58*		*80*	*70-130*			12/08/13	
Matrix Spike Dup (A314421-MSD1), Source: A3K1910-01											
2,4,5-T	4.2	1.0	ug/L	4.0	ND	104	70-130	0	20	12/08/13	
2,4,5-TP (Silvex)	4.1	1.0	ug/L	4.0	ND	103	70-130	1	20	12/08/13	
2,4-D	42	10	ug/L	40	ND	106	70-130	1	20	12/08/13	
Bentazon	8.7	2.0	ug/L	8.0	ND	109	70-130	0	20	12/08/13	
Dalapon	41	10	ug/L	40	ND	104	70-130	2	20	12/08/13	
Dicamba	6.2	1.5	ug/L	6.0	ND	104	70-130	1	20	12/08/13	
Dinoseb	7.5	2.0	ug/L	8.0	ND	94	70-130	0	20	12/08/13	
Pentachlorophenol	0.80	0.20	ug/L	0.80	ND	100	70-130	1	20	12/08/13	
Picloram	4.3	1.0	ug/L	4.0	ND	103	70-130	1	20	12/08/13	
Surrogate: DCPAA	*47*			*58*		*81*	*70-130*			12/08/13	
EPA 524.2 - Quality Control											
Batch: A314277										Prepared: 12/3/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A314277-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							12/04/13	
1,1,1-Trichloroethane	ND	0.50	ug/L							12/04/13	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							12/04/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							12/04/13	
1,1,2-Trichloroethane	ND	0.50	ug/L							12/04/13	
1,1-Dichloroethane	ND	0.50	ug/L							12/04/13	
1,1-Dichloroethene	ND	0.50	ug/L							12/04/13	
1,1-Dichloropropene	ND	0.50	ug/L							12/04/13	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							12/04/13	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							12/04/13	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							12/04/13	
1,2-Dichlorobenzene	ND	0.50	ug/L							12/04/13	
1,2-Dichloroethane	ND	0.50	ug/L							12/04/13	
1,2-Dichloropropane	ND	0.50	ug/L							12/04/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A314277 Prepared: 12/3/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A314277-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	ug/L							12/04/13	
1,3-Dichlorobenzene	ND	0.50	ug/L							12/04/13	
1,3-Dichloropropane	ND	0.50	ug/L							12/04/13	
1,4-Dichlorobenzene	ND	0.50	ug/L							12/04/13	
2,2-Dichloropropane	ND	0.50	ug/L							12/04/13	
2-Butanone	ND	5.0	ug/L							12/04/13	
2-Chlorotoluene	ND	0.50	ug/L							12/04/13	
2-Hexanone	ND	10	ug/L							12/04/13	
4-Chlorotoluene	ND	0.50	ug/L							12/04/13	
4-Methyl-2-pentanone	ND	5.0	ug/L							12/04/13	
Acetone	ND	10	ug/L							12/04/13	
Benzene	ND	0.50	ug/L							12/04/13	
Bromobenzene	ND	0.50	ug/L							12/04/13	
Bromochloromethane	ND	0.50	ug/L							12/04/13	
Bromodichloromethane	ND	0.50	ug/L							12/04/13	
Bromoform	ND	0.50	ug/L							12/04/13	
Bromomethane	ND	0.50	ug/L							12/04/13	
Carbon Tetrachloride	ND	0.50	ug/L							12/04/13	
Chlorobenzene	ND	0.50	ug/L							12/04/13	
Chloroethane	ND	0.50	ug/L							12/04/13	
Chloroform	ND	0.50	ug/L							12/04/13	
Chloromethane	ND	0.50	ug/L							12/04/13	
cis-1,2-Dichloroethene	ND	0.50	ug/L							12/04/13	
cis-1,3-Dichloropropene	ND	0.50	ug/L							12/04/13	
Dibromochloromethane	ND	0.50	ug/L							12/04/13	
Dibromomethane	ND	0.50	ug/L							12/04/13	
Dichlorodifluoromethane	ND	0.50	ug/L							12/04/13	
Dichloromethane	ND	0.50	ug/L							12/04/13	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							12/04/13	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							12/04/13	
Ethylbenzene	ND	0.50	ug/L							12/04/13	
Hexachlorobutadiene	ND	0.50	ug/L							12/04/13	
Isopropylbenzene	ND	0.50	ug/L							12/04/13	
m,p-Xylenes	ND	0.50	ug/L							12/04/13	
Methyl-t-butyl ether	ND	0.50	ug/L							12/04/13	
Naphthalene	ND	0.50	ug/L							12/04/13	
n-Butylbenzene	ND	0.50	ug/L							12/04/13	
n-Propylbenzene	ND	0.50	ug/L							12/04/13	
o-Xylene	ND	0.50	ug/L							12/04/13	
p-Isopropyltoluene	ND	0.50	ug/L							12/04/13	
sec-Butylbenzene	ND	0.50	ug/L							12/04/13	
Styrene	ND	0.50	ug/L							12/04/13	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							12/04/13	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							12/04/13	
tert-Butylbenzene	ND	0.50	ug/L							12/04/13	
Tetrachloroethene (PCE)	ND	0.50	ug/L							12/04/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A314277 Prepared: 12/3/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank (A314277-BLK1)												
Toluene	ND	0.50	ug/L							12/04/13		
trans-1,2-Dichloroethene	ND	0.50	ug/L							12/04/13		
trans-1,3-Dichloropropene	ND	0.50	ug/L							12/04/13		
Trichloroethene (TCE)	ND	0.50	ug/L							12/04/13		
Trichlorofluoromethane	ND	5.0	ug/L							12/04/13		
Vinyl Chloride	ND	0.50	ug/L							12/04/13		
Surrogate: 1,2-Dichlorobenzene-d4	*4.5*			*5.0*		*90*	*70-130*			12/04/13		
Surrogate: Bromofluorobenzene	*51*			*50*		*101*	*70-130*			12/04/13		
Blank Spike (A314277-BS1)												
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		104	70-130			12/04/13		
1,1,1-Trichloroethane	12	0.50	ug/L	10		117	70-130			12/04/13		
1,1,2,2-Tetrachloroethane	10	0.50	ug/L	10		103	70-130			12/04/13		
1,1,2-Trichloro-1,2,2-trifluoroethane	10	10	ug/L	10		102	70-130			12/04/13		
1,1,2-Trichloroethane	10	0.50	ug/L	10		102	70-130			12/04/13		
1,1-Dichloroethane	11	0.50	ug/L	10		112	70-130			12/04/13		
1,1-Dichloroethene	11	0.50	ug/L	10		112	70-130			12/04/13		
1,1-Dichloropropene	11	0.50	ug/L	10		106	70-130			12/04/13		
1,2,3-Trichlorobenzene	11	0.50	ug/L	10		112	70-130			12/04/13		
1,2,4-Trichlorobenzene	12	0.50	ug/L	10		116	70-130			12/04/13		
1,2,4-Trimethylbenzene	11	0.50	ug/L	10		112	70-130			12/04/13		
1,2-Dichlorobenzene	11	0.50	ug/L	10		112	70-130			12/04/13		
1,2-Dichloroethane	12	0.50	ug/L	10		118	70-130			12/04/13		
1,2-Dichloropropane	10	0.50	ug/L	10		103	70-130			12/04/13		
1,3,5-Trimethylbenzene	11	0.50	ug/L	10		107	70-130			12/04/13		
1,3-Dichlorobenzene	12	0.50	ug/L	10		121	70-130			12/04/13		
1,3-Dichloropropane	10	0.50	ug/L	10		104	70-130			12/04/13		
1,4-Dichlorobenzene	11	0.50	ug/L	10		111	70-130			12/04/13		
2,2-Dichloropropane	12	0.50	ug/L	10		121	70-130			12/04/13		
2-Butanone	11	5.0	ug/L	10		107	70-130			12/04/13		
2-Chlorotoluene	12	0.50	ug/L	10		116	70-130			12/04/13		
2-Hexanone	11	10	ug/L	10		112	70-130			12/04/13		
4-Chlorotoluene	12	0.50	ug/L	10		120	70-130			12/04/13		
4-Methyl-2-pentanone	8.5	5.0	ug/L	10		85	70-130			12/04/13		
Acetone	12	10	ug/L	10		120	70-130			12/04/13		
Benzene	10	0.50	ug/L	10		105	70-130			12/04/13		
Bromobenzene	11	0.50	ug/L	10		109	70-130			12/04/13		
Bromochloromethane	11	0.50	ug/L	10		112	70-130			12/04/13		
Bromodichloromethane	11	0.50	ug/L	10		112	70-130			12/04/13		
Bromoform	10	0.50	ug/L	10		102	70-130			12/04/13		
Bromomethane	15	0.50	ug/L	10		152	70-130			12/04/13	BS	***High***
Carbon Tetrachloride	11	0.50	ug/L	10		114	70-130			12/04/13		
Chlorobenzene	11	0.50	ug/L	10		107	70-130			12/04/13		
Chloroethane	11	0.50	ug/L	10		110	70-130			12/04/13		
Chloroform	11	0.50	ug/L	10		114	70-130			12/04/13		
Chloromethane	12	0.50	ug/L	10		116	70-130			12/04/13		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A314277 Prepared: 12/3/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike (A314277-BS1)												
cis-1,2-Dichloroethene	11	0.50	ug/L	10		109	70-130			12/04/13		
cis-1,3-Dichloropropene	11	0.50	ug/L	10		113	70-130			12/04/13		
Dibromochloromethane	10	0.50	ug/L	10		103	70-130			12/04/13		
Dibromomethane	11	0.50	ug/L	10		111	70-130			12/04/13		
Dichlorodifluoromethane	11	0.50	ug/L	10		107	70-130			12/04/13		
Dichloromethane	11	0.50	ug/L	10		110	70-130			12/04/13		
Di-isopropyl ether (DIPE)	10	3.0	ug/L	10		104	70-130			12/04/13		
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		105	70-130			12/04/13		
Ethylbenzene	11	0.50	ug/L	10		112	70-130			12/04/13		
Hexachlorobutadiene	12	0.50	ug/L	10		120	70-130			12/04/13		
Isopropylbenzene	10	0.50	ug/L	10		105	70-130			12/04/13		
m,p-Xylenes	22	0.50	ug/L	20		108	70-130			12/04/13		
Methyl-t-butyl ether	21	0.50	ug/L	20		107	70-130			12/04/13		
Naphthalene	9.7	0.50	ug/L	10		97	70-130			12/04/13		
n-Butylbenzene	11	0.50	ug/L	10		109	70-130			12/04/13		
n-Propylbenzene	12	0.50	ug/L	10		116	70-130			12/04/13		
o-Xylene	11	0.50	ug/L	10		114	70-130			12/04/13		
p-Isopropyltoluene	12	0.50	ug/L	10		117	70-130			12/04/13		
sec-Butylbenzene	12	0.50	ug/L	10		119	70-130			12/04/13		
Styrene	7.8	0.50	ug/L	10		78	70-130			12/04/13		
tert-Amyl Methyl Ether (TAME)	9.8	3.0	ug/L	10		98	70-130			12/04/13		
tert-Butyl alcohol (TBA)	14	2.0	ug/L	10		135	70-130			12/04/13	BS	***High***
tert-Butylbenzene	12	0.50	ug/L	10		117	70-130			12/04/13		
Tetrachloroethene (PCE)	11	0.50	ug/L	10		109	70-130			12/04/13		
Toluene	11	0.50	ug/L	10		106	70-130			12/04/13		
trans-1,2-Dichloroethene	11	0.50	ug/L	10		114	70-130			12/04/13		
trans-1,3-Dichloropropene	11	0.50	ug/L	10		111	70-130			12/04/13		
Trichloroethene (TCE)	11	0.50	ug/L	10		106	70-130			12/04/13		
Trichlorofluoromethane	11	5.0	ug/L	10		107	70-130			12/04/13		
Vinyl Chloride	11	0.50	ug/L	10		110	70-130			12/04/13		
Surrogate: 1,2-Dichlorobenzene-d4	*5.4*			*5.0*		*108*	*70-130*			12/04/13		
Surrogate: Bromofluorobenzene	*53*			*50*		*106*	*70-130*			12/04/13		
Blank Spike Dup (A314277-BSD1)												
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		104	70-130	1	30	12/04/13		
1,1,1-Trichloroethane	12	0.50	ug/L	10		123	70-130	5	30	12/04/13		
1,1,2,2-Tetrachloroethane	12	0.50	ug/L	10		123	70-130	18	30	12/04/13		
1,1,2-Trichloro-1,2,2-trifluoroethane	12	10	ug/L	10		118	70-130	14	30	12/04/13		
1,1,2-Trichloroethane	12	0.50	ug/L	10		120	70-130	17	30	12/04/13		
1,1-Dichloroethane	10	0.50	ug/L	10		104	70-130	8	30	12/04/13		
1,1-Dichloroethene	13	0.50	ug/L	10		128	70-130	14	30	12/04/13		
1,1-Dichloropropene	12	0.50	ug/L	10		124	70-130	16	30	12/04/13		
1,2,3-Trichlorobenzene	11	0.50	ug/L	10		108	70-130	3	30	12/04/13		
1,2,4-Trichlorobenzene	11	0.50	ug/L	10		111	70-130	4	30	12/04/13		
1,2,4-Trimethylbenzene	12	0.50	ug/L	10		120	70-130	7	30	12/04/13		
1,2-Dichlorobenzene	12	0.50	ug/L	10		123	70-130	9	30	12/04/13		

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A314277 Prepared: 12/3/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
Blank Spike Dup (A314277-BSD1)												
1,2-Dichloroethane	11	0.50	ug/L	10		109	70-130	9	30	12/04/13		
1,2-Dichloropropane	9.7	0.50	ug/L	10		97	70-130	6	30	12/04/13		
1,3,5-Trimethylbenzene	12	0.50	ug/L	10		117	70-130	9	30	12/04/13		
1,3-Dichlorobenzene	13	0.50	ug/L	10		126	70-130	4	30	12/04/13		
1,3-Dichloropropane	11	0.50	ug/L	10		105	70-130	2	30	12/04/13		
1,4-Dichlorobenzene	12	0.50	ug/L	10		122	70-130	9	30	12/04/13		
2,2-Dichloropropane	13	0.50	ug/L	10		131	70-130	8	30	12/04/13	BS	***High***
2-Butanone	9.3	5.0	ug/L	10		93	70-130	15	30	12/04/13		
2-Chlorotoluene	13	0.50	ug/L	10		130	70-130	11	30	12/04/13		
2-Hexanone	11	10	ug/L	10		113	70-130	1	30	12/04/13		
4-Chlorotoluene	13	0.50	ug/L	10		130	70-130	9	30	12/04/13		
4-Methyl-2-pentanone	11	5.0	ug/L	10		110	70-130	26	30	12/04/13		
Acetone	11	10	ug/L	10		114	70-130	5	30	12/04/13		
Benzene	10	0.50	ug/L	10		102	70-130	3	30	12/04/13		
Bromobenzene	13	0.50	ug/L	10		130	70-130	18	30	12/04/13		
Bromochloromethane	12	0.50	ug/L	10		117	70-130	4	30	12/04/13		
Bromodichloromethane	12	0.50	ug/L	10		117	70-130	5	30	12/04/13		
Bromoform	11	0.50	ug/L	10		110	70-130	8	30	12/04/13		
Bromomethane	28	0.50	ug/L	10		275	70-130	58	30	12/04/13	BS, X.0	***High***
Carbon Tetrachloride	12	0.50	ug/L	10		125	70-130	9	30	12/04/13		
Chlorobenzene	10	0.50	ug/L	10		103	70-130	4	30	12/04/13		
Chloroethane	12	0.50	ug/L	10		122	70-130	11	30	12/04/13		
Chloroform	13	0.50	ug/L	10		128	70-130	12	30	12/04/13		
Chloromethane	14	0.50	ug/L	10		135	70-130	15	30	12/04/13	BS	***High***
cis-1,2-Dichloroethene	11	0.50	ug/L	10		113	70-130	3	30	12/04/13		
cis-1,3-Dichloropropene	12	0.50	ug/L	10		118	70-130	4	30	12/04/13		
Dibromochloromethane	11	0.50	ug/L	10		113	70-130	9	30	12/04/13		
Dibromomethane	11	0.50	ug/L	10		106	70-130	4	30	12/04/13		
Dichlorodifluoromethane	14	0.50	ug/L	10		139	70-130	26	30	12/04/13	BS	***High***
Dichloromethane	12	0.50	ug/L	10		121	70-130	9	30	12/04/13		
Di-isopropyl ether (DIPE)	9.7	3.0	ug/L	10		97	70-130	7	30	12/04/13		
Ethyl tert-Butyl Ether (ETBE)	12	0.50	ug/L	10		119	70-130	13	30	12/04/13		
Ethylbenzene	12	0.50	ug/L	10		121	70-130	8	30	12/04/13		
Hexachlorobutadiene	12	0.50	ug/L	10		120	70-130	0	30	12/04/13		
Isopropylbenzene	13	0.50	ug/L	10		131	70-130	22	30	12/04/13	BS	***High***
m,p-Xylenes	23	0.50	ug/L	20		116	70-130	7	30	12/04/13		
Methyl-t-butyl ether	26	0.50	ug/L	20		132	70-130	21	30	12/04/13	BS	***High***
Naphthalene	8.8	0.50	ug/L	10		88	70-130	10	30	12/04/13		
n-Butylbenzene	11	0.50	ug/L	10		109	70-130	0	30	12/04/13		
n-Propylbenzene	13	0.50	ug/L	10		134	70-130	14	30	12/04/13	BS	***High***
o-Xylene	14	0.50	ug/L	10		144	70-130	23	30	12/04/13	BS	***High***
p-Isopropyltoluene	12	0.50	ug/L	10		122	70-130	4	30	12/04/13		
sec-Butylbenzene	12	0.50	ug/L	10		124	70-130	4	30	12/04/13		
Styrene	8.5	0.50	ug/L	10		85	70-130	8	30	12/04/13		
tert-Amyl Methyl Ether (TAME)	8.9	3.0	ug/L	10		89	70-130	9	30	12/04/13		
tert-Butyl alcohol (TBA)	8.1	2.0	ug/L	10		81	70-130	50	30	12/04/13	BS4.0	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A314277										Prepared: 12/3/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike Dup (A314277-BSD1)											
tert-Butylbenzene	12	0.50	ug/L	10		122	70-130	4	30	12/04/13	
Tetrachloroethene (PCE)	10	0.50	ug/L	10		104	70-130	4	30	12/04/13	
Toluene	12	0.50	ug/L	10		120	70-130	12	30	12/04/13	
trans-1,2-Dichloroethene	13	0.50	ug/L	10		126	70-130	10	30	12/04/13	
trans-1,3-Dichloropropene	12	0.50	ug/L	10		119	70-130	7	30	12/04/13	
Trichloroethene (TCE)	10	0.50	ug/L	10		105	70-130	1	30	12/04/13	
Trichlorofluoromethane	12	5.0	ug/L	10		123	70-130	13	30	12/04/13	
Vinyl Chloride	13	0.50	ug/L	10		129	70-130	16	30	12/04/13	
Surrogate: 1,2-Dichlorobenzene-d4	*6.1*			*5.0*		*121*	*70-130*			12/04/13	
Surrogate: Bromofluorobenzene	*64*			*50*		*129*	*70-130*			12/04/13	
EPA 525.2 - Quality Control											
Batch: A314276										Prepared: 12/3/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank (A314276-BLK1)											
Alachlor	ND	1.0	ug/L							12/03/13	
Atrazine	ND	0.50	ug/L							12/03/13	
Benzo(a)pyrene	ND	0.10	ug/L							12/03/13	
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							12/03/13	
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							12/03/13	
Bromacil	ND	10	ug/L							12/03/13	
Butachlor	ND	0.38	ug/L							12/03/13	
Diazinon	ND	0.25	ug/L							12/03/13	
Dimethoate	ND	10	ug/L							12/03/13	
Metolachlor	ND	0.50	ug/L							12/03/13	
Metribuzin	ND	0.50	ug/L							12/03/13	
Molinate	ND	2.0	ug/L							12/03/13	
Propachlor	ND	0.50	ug/L							12/03/13	
Simazine	ND	1.0	ug/L							12/03/13	
Thiobencarb	ND	1.0	ug/L							12/03/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.6*			*5.0*		*91*	*70-130*			12/03/13	
Blank Spike (A314276-BS1)											
Alachlor	0.54	1.0	ug/L	0.51		105	70-130			12/03/13	
Atrazine	0.52	0.50	ug/L	0.51		102	70-130			12/03/13	
Benzo(a)pyrene	0.11	0.10	ug/L	0.10		109	70-130			12/03/13	
Bis(2-ethylhexyl) adipate	3.4	3.0	ug/L	3.1		109	70-130			12/03/13	
Bis(2-ethylhexyl) phthalate	3.4	3.0	ug/L	3.1		111	70-130			12/03/13	
Bromacil	2.5	10	ug/L	2.0		120	70-130			12/03/13	
Butachlor	1.5	0.38	ug/L	1.3		114	70-130			12/03/13	
Diazinon	0.045	0.25	ug/L	0.051		88	70-130			12/03/13	
Dimethoate	0.60	10	ug/L	0.51		118	70-130			12/03/13	
Metolachlor	2.9	0.50	ug/L	2.6		114	70-130			12/03/13	
Metribuzin	2.8	0.50	ug/L	2.6		110	70-130			12/03/13	
Molinate	2.7	2.0	ug/L	2.6		107	70-130			12/03/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A314276										Prepared: 12/3/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank Spike (A314276-BS1)											
Propachlor	2.9	0.50	ug/L	2.6		113	70-130			12/03/13	
Simazine	0.41	1.0	ug/L	0.36		116	70-130			12/03/13	
Thiobencarb	0.59	1.0	ug/L	0.51		115	70-130			12/03/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.6*			*5.1*		*91*	*70-130*			12/03/13	
Blank Spike Dup (A314276-BSD1)											
Alachlor	0.52	1.0	ug/L	0.49		106	70-130	2	30	12/03/13	
Atrazine	0.52	0.50	ug/L	0.49		106	70-130	0	30	12/03/13	
Benzo(a)pyrene	0.11	0.10	ug/L	0.098		113	70-130	0	30	12/03/13	
Bis(2-ethylhexyl) adipate	3.1	3.0	ug/L	3.0		103	70-130	9	30	12/03/13	
Bis(2-ethylhexyl) phthalate	3.2	3.0	ug/L	3.0		108	70-130	6	30	12/03/13	
Bromacil	2.4	10	ug/L	2.0		120	70-130	4	30	12/03/13	
Butachlor	1.4	0.38	ug/L	1.2		110	70-130	7	30	12/03/13	
Diazinon	0.041	0.25	ug/L	0.049		84	70-130	8	30	12/03/13	
Dimethoate	0.59	10	ug/L	0.49		119	70-130	3	30	12/03/13	
Metolachlor	2.7	0.50	ug/L	2.5		111	70-130	7	30	12/03/13	
Metribuzin	2.7	0.50	ug/L	2.5		108	70-130	5	30	12/03/13	
Molinate	2.6	2.0	ug/L	2.5		106	70-130	5	30	12/03/13	
Propachlor	2.5	0.50	ug/L	2.5		101	70-130	15	30	12/03/13	
Simazine	0.38	1.0	ug/L	0.34		111	70-130	8	30	12/03/13	
Thiobencarb	0.56	1.0	ug/L	0.49		113	70-130	5	30	12/03/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.6*			*4.9*		*94*	*70-130*			12/03/13	
Matrix Spike (A314276-MS1), Source: A3K1830-01											
Alachlor	0.54	1.0	ug/L	0.50	ND	109	70-130			12/03/13	
Atrazine	0.53	0.50	ug/L	0.50	ND	108	70-130			12/03/13	
Benzo(a)pyrene	0.13	0.10	ug/L	0.099	ND	131	70-130			12/03/13	MS1.0 ***High***
Bis(2-ethylhexyl) adipate	3.5	3.0	ug/L	3.0	ND	117	70-130			12/03/13	
Bis(2-ethylhexyl) phthalate	3.2	3.0	ug/L	3.0	ND	106	70-130			12/03/13	
Bromacil	2.4	10	ug/L	2.0	ND	124	70-130			12/03/13	
Butachlor	1.4	0.38	ug/L	1.2	ND	111	70-130			12/03/13	
Diazinon	0.049	0.25	ug/L	0.050	ND	98	70-130			12/03/13	
Dimethoate	0.56	10	ug/L	0.50	ND	114	70-130			12/03/13	
Metolachlor	2.8	0.50	ug/L	2.5	ND	113	70-130			12/03/13	
Metribuzin	2.7	0.50	ug/L	2.5	ND	109	70-130			12/03/13	
Molinate	2.6	2.0	ug/L	2.5	ND	106	70-130			12/03/13	
Propachlor	2.7	0.50	ug/L	2.5	ND	109	70-130			12/03/13	
Simazine	0.39	1.0	ug/L	0.35	ND	113	70-130			12/03/13	
Thiobencarb	0.56	1.0	ug/L	0.50	ND	114	70-130			12/03/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*4.6*			*5.0*		*92*	*70-130*			12/03/13	
EPA 531.1 - Quality Control											
Batch: A314122										Prepared: 11/26/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A314122-BLK1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 531.1 - Quality Control											
Batch: A314122										Prepared: 11/26/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A314122-BLK1)											
3-Hydroxycarbofuran	ND	3.0	ug/L							11/26/13	
Aldicarb	ND	3.0	ug/L							11/26/13	
Aldicarb Sulfone	ND	2.0	ug/L							11/26/13	
Aldicarb Sulfoxide	ND	3.0	ug/L							11/26/13	
Carbaryl	ND	5.0	ug/L							11/26/13	
Carbofuran	ND	5.0	ug/L							11/26/13	
Methomyl	ND	2.0	ug/L							11/26/13	
Oxamyl	ND	20	ug/L							11/26/13	
Blank Spike (A314122-BS1)											
3-Hydroxycarbofuran	4.0	3.0	ug/L	4.2		97	80-120			11/26/13	
Aldicarb	4.5	3.0	ug/L	4.2		108	80-120			11/26/13	
Aldicarb Sulfone	4.4	2.0	ug/L	4.2		106	80-120			11/26/13	
Aldicarb Sulfoxide	4.5	3.0	ug/L	4.2		109	80-120			11/26/13	
Carbaryl	4.2	5.0	ug/L	4.2		102	80-120			11/26/13	
Carbofuran	4.5	5.0	ug/L	4.2		109	80-120			11/26/13	
Methomyl	4.5	2.0	ug/L	4.2		109	80-120			11/26/13	
Oxamyl	4.5	20	ug/L	4.2		107	80-120			11/26/13	
Blank Spike Dup (A314122-BSD1)											
3-Hydroxycarbofuran	4.3	3.0	ug/L	4.2		104	80-120	7	20	11/26/13	
Aldicarb	4.5	3.0	ug/L	4.2		107	80-120	1	20	11/26/13	
Aldicarb Sulfone	4.3	2.0	ug/L	4.2		104	80-120	2	20	11/26/13	
Aldicarb Sulfoxide	4.4	3.0	ug/L	4.2		105	80-120	4	20	11/26/13	
Carbaryl	4.3	5.0	ug/L	4.2		103	80-120	2	20	11/26/13	
Carbofuran	4.5	5.0	ug/L	4.2		107	80-120	2	20	11/26/13	
Methomyl	4.6	2.0	ug/L	4.2		110	80-120	1	20	11/26/13	
Oxamyl	4.4	20	ug/L	4.2		106	80-120	1	20	11/26/13	
Matrix Spike (A314122-MS1), Source: A3K1656-01											
3-Hydroxycarbofuran	3.8	3.0	ug/L	4.2	ND	92	65-135			11/26/13	
Aldicarb	4.7	3.0	ug/L	4.2	ND	105	65-135			11/26/13	
Aldicarb Sulfone	4.3	2.0	ug/L	4.2	ND	103	65-135			11/26/13	
Aldicarb Sulfoxide	4.3	3.0	ug/L	4.2	ND	104	65-135			11/26/13	
Carbaryl	4.2	5.0	ug/L	4.2	ND	102	65-135			11/26/13	
Carbofuran	4.3	5.0	ug/L	4.2	ND	97	65-135			11/26/13	
Methomyl	4.4	2.0	ug/L	4.2	ND	100	65-135			11/26/13	
Oxamyl	4.4	20	ug/L	4.2	ND	104	65-135			11/26/13	
EPA 547 - Quality Control											
Batch: A314204										Prepared: 12/1/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank (A314204-BLK1)											
Glyphosate	ND	25	ug/L							12/01/13	
Surrogate: AMPA	*100*			*100*		*103*	*70-130*			12/01/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 547 - Quality Control											
Batch: A314204										Prepared: 12/1/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank Spike (A314204-BS1)											
Glyphosate	100	25	ug/L	100		100	70-130			12/01/13	
Surrogate: AMPA	*100*			*100*		*104*	*70-130*			12/01/13	
Blank Spike Dup (A314204-BSD1)											
Glyphosate	110	25	ug/L	100		106	70-130	6	30	12/01/13	
Surrogate: AMPA	*100*			*100*		*102*	*70-130*			12/01/13	
Matrix Spike (A314204-MS1), Source: A3K1910-01											
Glyphosate	100	25	ug/L	100	ND	100	70-130			12/01/13	
Surrogate: AMPA	*100*			*100*		*98*	*70-130*			12/01/13	
EPA 548.1 - Quality Control											
Batch: A314043										Prepared: 11/27/2013	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A314043-BLK1)											
Endothall	ND	45	ug/L							11/29/13	
Blank Spike (A314043-BS1)											
Endothall	12	45	ug/L	20		61	60-111			11/29/13	
Blank Spike Dup (A314043-BSD1)											
Endothall	22	45	ug/L	20		108	60-111	55	46	11/29/13	BS3.0
Matrix Spike (A314043-MS1), Source: A3K1568-06											
Endothall	ND	45	ug/L	20	ND	0	10-122			11/29/13	MS1.0 ***Low***
EPA 549.2 - Quality Control											
Batch: A314169										Prepared: 11/27/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A314169-BLK1)											
Diquat	ND	4.0	ug/L							12/03/13	
Blank Spike (A314169-BS1)											
Diquat	3.4	4.0	ug/L	4.0		85	70-130			12/03/13	
Blank Spike Dup (A314169-BSD1)											
Diquat	3.4	4.0	ug/L	4.0		86	70-130	1	30	12/03/13	
Matrix Spike (A314169-MS1), Source: A3K1719-01											
Diquat	3.4	4.0	ug/L	4.0	ND	84	70-130			12/03/13	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of California - ELAP	1180	State of Nevada	CA000792009A
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA
State of California - NELAP	04227CA	State of Oregon	4017
State of Washington	C997	State of Oregon - NWTPH	4021

BSK is not accredited under the NELAC program for the following parameters:

Boron
Silica (SiO2)
Strontium
Threshold Odor

A3K1910

California American Water

Calif3295

11262013

Turnaround: Standard

Due Date: 12/12/2013

Printed: 11/26/2013 5:26:52PM

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(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

*Required Fields Temp: 0.7

Company/Client Name*:	Report Attention*:	Invoice To*:	Phone*:	Fax*:
California American Water	Travis Peterson Additional cc's: Sarp Sekeroglu, RBF Consulting	Accounts Payable PO#:	(831) 646-3295/(831) 646-3269	(831) 333-1343
			E-mail*: susan.jacobson@amwater.com,travis.peterson@amwater.com	

Address*:	City*:	State*:	Zip*:
PO Box 951	Monterey	CA	93942-0951

Regulatory Carbon Copies: CDPH ☐ ☐ Fresno Co; Merced Co ☐ ☐ Tulare Co; Madera Co ☐ ☐ Other: ____

Project: Water Quality Analysis
Project #:

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type: ____
How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail
Regulatory Compliance: ☐ EDT to California DPH; System Number*: ____; ☐ Geotracker #: ____

Sampler Name (Printed/Signature)*: Nathan Reynolds
TAT* **Surcharge: ☒ Standard - 10 Business Days; ☐ **Rush: Date Needed ____

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	Alkalinity, Hardness, MBAS, Color, Odor, TDS, pH, Turbidity, EC	Mass Balance-Dissolved: Cations and Anions	Dissolved Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na, Sr, silica	Total Metals: Al, As, Cu, Fe, Mn, Zn	Dissolved: Bromide, Chloride, Nitrite, Fluoride, Sulfate, Orthophosphate-P	Dissolved: Ammonia, TKN, Phosphorus	Nitrate+Nitrite as N, Nitrate-NO3,	EPA 524, 504, 505, 515, 525, 531, 547, 548, 549	EXT-Tritium, EXT-Lithium, EXT-Dissolved Iodide, EXT-Dioxin
27	MPWSP ML-E Zone #2 (100 – 110 ft bgs)	11-23-13	13:00	water	Seawater salinity levels.	X	X	X	X	X	X	X	X	X
					Lab to filter dissolved metals.									
					Lab to filter Diss. Ammonia, TKN, P									
					Okay to analyze out of hold time.									

Field Parameters: Temp = 15.9 °C; pH = 6.58; TDS = 24,002 mg/L; Turb = 1.73 NTU

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Nathan Reynolds	GEOSCIENCE	11/25	8:45 AM	Shelly Seger	RBF Consulting
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Received for Laboratory: (Signature and Printed Name) Lafoy Cobb		Date 11/26/13	Time 10:00	Payment Received at Delivery: Date: Amount: PIA#:	Check / Cash Init.

Shipping Method: CONTRACT UPS GSO WALK-IN FED EX Courier: ____ Custody Seal: Y/N
Cooling Method: Wet Blue None Chilling Process Begun: Y/N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: By/Time:	Yes No NA

Bottles Received — "—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—	2C, 1B, 1A					
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—	2B					
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N	1A					
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—	1A, 2C, 1B					
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2A, 2C					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	6V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—	1A					
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: JR @ 1558 Labels checked by: [illegible] @ 1613 RUSH Paged by:

External

A3K1910

Maxxam

nelac

Your Project #: A3K1910
Your C.O.C. #: na

Attention:Michael Ng

BSK Analytical Laboratories
1414 Stanislaus Street
Fresno, CA
USA 93706

Report Date: 2013/12/11

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B3K9569
Received: 2013/12/04, 13:00

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
2,3,7,8-TCDD in Water (1613B)	1	2013/12/07	2013/12/10	BRL SOP-00410	EPA 1613B mod.

Remarks:

The lab certifies that the test results meet all requirements of NELAC, where applicable.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
U = Undetected at the limit of quantitation.
J = Estimated concentration between the EDL & RDL.
B = Blank Contamination.
Q = One or more quality control criteria failed.

Encryption Key

Ivana Vukovic
12 Dec 2013 14:17:01 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ivana Vukovic, Env Project Manager
Email: IVukovic@maxxam.ca
Phone# (905) 817-5700

==========

This report has been generated and distributed using a secure automated process.
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics Inc. is a NELAC accredited laboratory. Certificate # CANA001. Use of the NELAC logo however does not insure that Maxxam is accredited for all of the methods indicated. This certificate shall not be reproduced except in full, without the written approval of Maxxam Analytics Inc.

Total Cover Pages : 1
Page 1 of 6

Maxxam

Maxxam Job #: B3K9569
Report Date: 2013/12/11

BSK Analytical Laboratories
Client Project #: A3K1910

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		UD8357						
Sampling Date		2013/11/23 13:00						
COC Number		na			TOXIC EQUIVALENCY		# of	
	Units	A3K1910-01	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	0.90 U	0.90	4.0	1.00	0.900		3452001
TOTAL TOXIC EQUIVALENCY	pg/L					0.900		
Surrogate Recovery (%)								
37CL4 2378 Tetra CDD *	%	82						3452001
C13-2378 TetraCDD *	%	89						3452001

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

* CDD = Chloro Dibenzo-p-Dioxin

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam

Maxxam Job #: B3K9569
Report Date: 2013/12/11

BSK Analytical Laboratories
Client Project #: A3K1910

TEST SUMMARY

Maxxam ID: UD8357
Sample ID: A3K1910-01
Matrix: Water

Collected: 2013/11/23
Shipped:
Received: 2013/12/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
2,3,7,8-TCDD in Water (1613B)	HRMS/MS	3452001	2013/12/07	2013/12/10	Vica Ciorianic

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817 5700 Toll Free: 800 563 6266 Fax: (905) 817 5777 www.maxxam.ca

Maxxam

Maxxam Job #: B3K9569
Report Date: 2013/12/11

BSK Analytical Laboratories
Client Project #: A3K1910

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam

Maxxam Job #: B3K9569
Report Date: 2013/12/11

BSK Analytical Laboratories
Client Project #: A3K1910

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	Units	QC Limits
3452001	VCI	Spiked Blank	2,3,7,8-Tetra CDD	2013/12/10		83	%	67 - 158
	VCI	Spiked Blank	37CL4 2378 Tetra CDD	2013/12/10		71	%	40 - 130
			C13-2378 TetraCDD	2013/12/10		90	%	24 - 164
		Method Blank	2,3,7,8-Tetra CDD	2013/12/10	0.92, EDL=0.92		pg/L	
			37CL4 2378 Tetra CDD	2013/12/10		80	%	40 - 130
			C13-2378 TetraCDD	2013/12/10		81	%	24 - 164

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam

Maxxam Job #: B3K9569
Report Date: 2013/12/11

BSK Analytical Laboratories
Client Project #: A3K1910

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Owen Cosby, BSc.C.Chem, Supervisor, HRMS Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

BSK Analytical Laboratories

SUBCONTRACT ORDER

A3K1910

Ivana Vukovic

B3K9569

FW EXV-996

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-486-0932
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Maxxam Analytics
PO Box 67437, Station A
Toronto, ON M5W5M5
Phone: (905) 817-5754
Fax: -
Turnaround Days: Standard
QC Deliverables: LEVEL III

Sample ID	Samp Desc	Sample Date
A3K1910-01	MW-VSP-ML-6 Zone #2 (103.1-106.8 bgs)	10/23/2018 13:00

Matrix: Water

Analysis: [illegible]
EXT-Chem-DW/matrix, EPA 1613.2,3,7,8-TCDD

Relinquished By	Date	Received By	Date
Relinquished By	Date	Received By	Date
		[illegible] CIR	[illegible] 13:00

[illegible], 5.0°C
[illegible], 5.2, 4.6°C

Page 1 of 3

Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1964

Certificate of Analysis

Report Date: 12/17/13 11:10
Received Date: 12/03/13 12:30
Turnaround Time: Normal

Project: A3K1910

Phones: (559) 497-2888
Fax: (559) 485-6935

P.O. #:

Attn: Michael Ng

Client: BSK Analytical Laboratories
550 West Locust Avenue
Fresno, CA 93650

Dear Michael Ng :

Enclosed are the results of analyses for samples received 12/3/2013 with the Chain of Custody document. The samples were received in good condition, at 3.0 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 3L03048-01 **Sample ID:** A3K1910-01 **Matrix:** Water
Sampled by: Client **Sampled:** 11/23/13 13:00

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lithium, Total	330		10	ug/l	1	EPA 200.7	12/10/13	12/11/13 13:06	W3L0516	
Iodide, Dissolved	380		250	ug/l	25	EPA 9056A	12/12/13	12/12/13 22:54	W3L0678	

Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1961

Certificate of Analysis

Quality Control Section

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W3L0678 - EPA 9056A

Blank (W3L0678-BLK1) — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		ND		ug/l					

LCS (W3L0678-BS1) — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		38.9		ug/l	40.0	97	85-115		

Duplicate (W3L0678-DUP1) — Source: 3L03045-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	623	661		ug/l				6	20

Duplicate (W3L0678-DUP2) — Source: 3L03048-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	378	336		ug/l				12	20

Duplicate (W3L0678-DUP3) — Source: 3L10011-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	644	658		ug/l				2	20

Matrix Spike (W3L0678-MS1) — Source: 3L10011-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	644	1100		ug/l	500	92	80-120		

Matrix Spike Dup (W3L0678-MSD1) — Source: 3L10011-01 — Prepared: 12/12/13 Analyzed: 12/12/13 22:54

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	644	1100		ug/l	500	92	80-120	0.2	20

Metals by EPA 200 Series Methods - Quality Control

Batch W3L0516 - EPA 200.7

Blank (W3L0516-BLK1) — Prepared: 12/10/13 Analyzed: 12/11/13 12:56

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		ND		ug/l					

LCS (W3L0516-BS1) — Prepared: 12/10/13 Analyzed: 12/11/13 12:59

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		965		ug/l	1000	97	85-115		

Matrix Spike (W3L0516-MS1) — Source: 3L10044-04 — Prepared: 12/10/13 Analyzed: 12/11/13 13:29

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	37.3	1020		ug/l	1000	98	70-130		

Matrix Spike Dup (W3L0516-MSD1) — Source: 3L10044-04 — Prepared: 12/10/13 Analyzed: 12/11/13 13:32

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	37.3	995		ug/l	1000	96	70-130	2	30

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature
Contact: Kim G Tu (Project Manager)

ISO 17025

NELAP ACCREDITED TNI LABORATORY

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

www.weclab.com

BSK Analytical Laboratories
Engineering Laboratories

SUBCONTRACT ORDER

A3K1910

3L03048

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Weck Laboratories, Inc.
14859 E Clark Avenue
City of Industry, CA 91745-1396
Phone :(626) 336-2139
Fax: (626) 336-2634
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Sample Date
A3K1910-01	MPWSP ML-6 Zone #2 (100-110 ft bgs)	11/23/2013 13:00

Matrix: Water

Analysis		
	500 ml P w/ None	
EXT-Iodide		Dissolved
EXT-Miscellaneous	500 ml P w/ HNO3	Lithium

Released By	Date	Received By	Date
	12/2/13	Ontrac	
Ontrac		Jamal Omer 12/3/13	12:30 3.0°C

Page 3 of 3

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Sample Receipt Acknowledgement

WORK ORDER: 3L03048 | Printed: 12/4/2013 2:24:29PM

Client: BSK Analytical Laboratories | Project Manager: Kim G Tu
Project: Metals | Project Number: A3K1910

Report To:
BSK Analytical Laboratories
Michael Ng
550 West Locust Avenue
Fresno, CA 93650
Phone: (559) 497-2888
Fax: (559) 485-6935

Invoice To:
BSK Analytical Laboratories
Accounts Payable - Anise Foote
550 West Locust Avenue
Fresno, CA 93650
Phone :(559) 497-2888
Fax: (559) 485-6935

Date Due: **12/17/13 15:00 (10 day TAT)**

Received By: Jaime Gomez | Date Received: 12/03/13 12:30
Logged In By: Jaime Gomez | Date Logged In: 12/03/13 14:58

Samples Received at:	**3°C**	All containers intact:	**Yes**	Chain of custody completed	**Yes**
Number of Ice chests/packages:		Custody seals presen		Sample labels & COC agree	**Yes**
		Custody seals intact:		Samples preserved properly	**Yes**
Appropriate Sample Containers:		Samples received on ice		Sample volume sufficient	**Yes**
		Custody Seals	**No**	Sufficient holding time for all tests	**Yes**

Analysis	TAT	Expires	Comments
3L03048-01 A3K1910-01 [Water] Sampled 11/23/13 13:00 Pacific			
Iodide water 9056M_Diss	10	12/21/13 13:00	
200.7 Li	10	05/22/14 13:00	

Comments:

Kim Tu
Authorized Signature

12/4/2013
Date

Note:
If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

January 06, 2014

Mr. Michael Ng
BSK Analytical Laboratories
1414 Stanislaus St.
Fresno, CA 93706

RE: Project: A3K1910
Pace Project No.: 30109476

Dear Mr. Ng:
Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: A3K1910
Pace Project No.: 30109476

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: A3K1910
Pace Project No.: 30109476

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30109476001	**A3K1910-01**	Water	11/23/13 13:00	12/12/13 10:50

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SAMPLE ANALYTE COUNT

Project: A3K1910
Pace Project No.: 30109476

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30109476001	**A3K1910-01**	EPA 906.0	SLA	1	PASI-PA

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PROJECT NARRATIVE

Project: A3K1910
Pace Project No.: 30109476

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: BSK Analytical Laboratories
Date: January 06, 2014

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: A3K1910
Pace Project No.: 30109476

Sample: A3K1910-01 **Lab ID: 30109476001** Collected: 11/23/13 13:00 Received: 12/12/13 10:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**-15.7 ± 129 (230)**	pCi/L	12/21/13 12:20	10028-17-8	

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QUALITY CONTROL DATA

Project: A3K1910
Pace Project No.: 30109476

QC Batch: RADC/18120 Analysis Method: EPA 906.0
QC Batch Method: EPA 906.0 Analysis Description: 906.0 Tritium
Associated Lab Samples: 30109476001

METHOD BLANK: 671627 Matrix: Water
Associated Lab Samples: 30109476001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	-43.1 ± 116 (211)	pCi/L	12/21/13 09:16	

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Greensburg, PA 15601
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QUALIFIERS

Project: A3K1910
Pace Project No.: 30109476

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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BSK Analytical Laboratories
Engineering Laboratories

SUBCONTRACT ORDER

A3K1910

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Radiochem
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600
Fax: (724) 722-5208
Turnaround (Days): ~~Standard~~
QC Deliverables: ~~I Std~~ III IV

30109476

Sample ID	Samp Desc	Sample Date
A3K1910-01	MPWSP ML-6 Zone #2 (100-110 ft bgs)	11/23/2013 13:00 001

Matrix: Water

Analysis 250 mL AG w/ NO NE
EXT-Tritium

Non preserved glass container

Released By 12/5/13 Date

Received By 12-2-13 1050 Date

Released By Date

Received By Date

Sample Condition Upon Receipt

Pace Analytical

Client Name: BSK Project # 30109476

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 1Z 93Y 921 03 6157 4770

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Styrofoam, Plastic Bag

Thermometer Used 5 6 7 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature N A Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: RAC 12-12-13

Temp should be above freezing to 6°C Comments:

				Comments
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☐Yes	☒No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☐Yes	☒No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT				
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	~~13. pH~~ sample is unpreserved
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☒No		Initial when completed RAC / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	15.
Trip Blank Present:	☐Yes	☒No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] Date: 12/13/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Page 10 of 11

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Pace Analytical

page 2

Project Number: 30109476

Client Name: BSK

Item No	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SS, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipes / smears / filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.)	Cubitainer (500 ml / 4L)	Sediment	Other	Other
001	ST	—																						

SCURF Rack (C016-4 15May2012).xls

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

Travis Peterson
California American Water
836 Carmel Ave.
Monterey, CA 93940

RE: Report for A3I2214 Water Quality Analysis

Dear Travis Peterson,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 9/26/2013. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michael Ng, Project Manager

If additional clarification of any information is required, please contact your Project Manager, Michael Ng , at (800) 877-8310 or (559) 497-2888 x118.

Case Narrative

Project and Report Details		Invoice Details	
Client:	California American Water	**Invoice To:**	California American Water
Report To:	Travis Peterson	**Invoice Attn:**	Accounts Payable
Project #:	Water Quality Analysis	**Project PO#:**	-
Received:	9/26/2013 - 17:52		
Report Due:	10/11/2013		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 4.4

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Packing Material - Foam
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
DL01	Sample required dilution due to matrix or high concentration of non-target analyte.
HT01	Holding time exceeded. Sample was received past holding time.
HT08	Holding time exceeded. The holding time for this analysis is a recommendation and is not mandated by any state or federal agency.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
SR02	Surrogate recovery was above acceptance limits. No target analytes were detected in the sample.
X01	MS/MSD data not available as parent sample was not reportable
X01a	Sample filtered prior to analysis per client request

Report Distribution

Recipient(s)	Report Format
Travis Peterson	Final.rpt
Sarp Sekeroglu	Final.rpt

Certificate of Analysis

Sample ID: A3I2214-01
Sampled By: Sarp Sekeroglu
Sample Description: Water Sample

Sample Date - Time: 09/24/13 - 15:00
Matrix: Water
Sample Type: Grab

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320 B	**190**	3.0	mg/L	1	A311377	09/27/13	09/27/13	
Bicarbonate as CaCO3	SM 2320 B	**190**	3.0	mg/L	1	A311377	09/27/13	09/27/13	
Carbonate as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A311377	09/27/13	09/27/13	
Hydroxide as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A311377	09/27/13	09/27/13	
Ammonia as N	SM 4500-NH3 G	**0.14**	0.10	mg/L	1	A311778	10/07/13	10/08/13	X01a
Bromide	EPA 300.1	**0.80**	0.10	mg/L	20	A311494	09/30/13	09/30/13	X01
Surrogate: Dichloroacetate	EPA 300.1	106 %	*Acceptable range:*	*90-115 %*		*Qualifiers -*	*X01*		
Chloride	EPA 300.0	**250**	5.0	mg/L	5	A311412	09/28/13	09/28/13	
Color, Apparent	SM 2120 B	**5.0**	1.0	CU	1	A311368	09/27/13 15:30	09/27/13	HT01
Conductivity @ 25C	SM 2510 B	**1200**	1.0	umhos/cm	1	A311377	09/27/13	09/27/13	
Fluoride	EPA 300.0	**0.10**	0.10	mg/L	1	A311437	09/30/13	09/30/13	
Mass Balance-Anions		**12**		meq/L					
Mass Balance-Dissolved Cations		**11**		meq/L					
MBAS, Calculated as LAS, mol wt 340	SM 5540 C	ND	0.050	mg/L	1	A311369	09/27/13 15:01	09/27/13	HT01
Nitrate as NO3	EPA 300.0	ND	5.0	mg/L	5	A311412	09/28/13 04:03	09/28/13	DL01, HT01
Nitrite as N	EPA 300.0	ND	0.25	mg/L	5	A311412	09/28/13 04:03	09/28/13	DL01, HT01
Threshold Odor	SM 2150 B	**2.0**	1.0	T.O.N.	1	A311368	09/27/13 10:27	09/27/13	HT08
Orthophosphate as P	SM 4500-P E	**0.14**	0.050	mg/L	5	A311398	09/27/13 15:25	09/27/13	HT01
pH (1)	SM 4500-H+ B	**8.2**		pH Units	1	A311377	09/27/13	09/27/13	
pH Temperature in °C		**21.7**							
Phosphorus - Dissolved (1)	EPA 365.4	**0.11**	0.10	mg/L	1	A311800	10/07/13	10/09/13	
Sulfate as SO4	EPA 300.0	**24**	10	mg/L	5	A311412	09/28/13	09/28/13	
Total Dissolved Solids	SM 2540C	**630**	5.0	mg/L	1	A311537	10/01/13	10/04/13	
Total Kjeldahl Nitrogen - Dissolved (1)	EPA 351.2	ND	1.0	mg/L	1	A311800	10/07/13	10/09/13	
Total Oxidizable Nitrogen, as N - Dissolved (1)	SM 4500-NO3 F	ND	0.10	mg/L	1	A311810	10/07/13	10/07/13	
Turbidity	SM 2130 B	**0.67**	0.10	NTU	1	A311368	09/27/13 15:30	09/27/13	HT01

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aluminum	EPA 200.7	ND	0.050	mg/L	1	A311444	09/30/13	10/01/13	
Arsenic	EPA 200.8	ND	2.0	ug/L	1	A311444	09/30/13	10/08/13	
Barium - Dissolved (1)	EPA 200.7	**0.11**	0.050	mg/L	1	A311497	10/01/13	10/04/13	
Boron - Dissolved (1)	EPA 200.7	ND	0.10	mg/L	1	A311497	10/01/13	10/04/13	
Calcium	EPA 200.7	**52**	0.10	mg/L	1	A311444	09/30/13	10/01/13	
Calcium - Dissolved (1)	EPA 200.7	**50**	0.10	mg/L	1	A311497	10/01/13	10/04/13	
Copper	EPA 200.8	ND	5.0	ug/L	1	A311444	09/30/13	10/08/13	
Hardness as CaCO3	SM 2340B	**240**	0.41	mg/L					
Iron	EPA 200.7	**0.20**	0.030	mg/L	1	A311444	09/30/13	10/01/13	
Iron - Dissolved (1)	EPA 200.7	ND	0.030	mg/L	1	A311497	10/01/13	10/04/13	
Magnesium	EPA 200.7	**28**	0.10	mg/L	1	A311444	09/30/13	10/01/13	

Certificate of Analysis

Sample ID: A3I2214-01
Sampled By: Sarp Sekeroglu
Sample Description: Water Sample

Sample Date - Time: 09/24/13 - 15:00
Matrix: Water
Sample Type: Grab

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Magnesium - Dissolved (1)	EPA 200.7	**27**	0.10	mg/L	1	A311497	10/01/13	10/04/13	
Manganese	EPA 200.7	**0.19**	0.010	mg/L	1	A311444	09/30/13	10/01/13	
Manganese - Dissolved (1)	EPA 200.7	**0.18**	0.010	mg/L	1	A311497	10/01/13	10/04/13	
Potassium - Dissolved (1)	EPA 200.7	**6.0**	2.0	mg/L	1	A311497	10/01/13	10/04/13	
Silica (SiO2) - Dissolved (1)	EPA 200.7	**30**	0.20	mg/L	1	A311497	10/01/13	10/04/13	
Sodium - Dissolved (1)	EPA 200.7	**140**	1.0	mg/L	1	A311497	10/01/13	10/04/13	
Strontium - Dissolved (1)	EPA 200.8	**400**	5.0	ug/L	5	A311497	10/01/13	10/08/13	
Zinc	EPA 200.7	ND	0.050	mg/L	1	A311444	09/30/13	10/01/13	

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A311476	09/30/13	10/02/13	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A311476	09/30/13	10/02/13	
Surrogate: TCMX	EPA 504.1	150 %	*Acceptable range: 70-130 %*			*Qualifiers -*	*SR02*		
Organohalide Pesticides and PCBs by GC-ECD									
Aldrin	EPA 505	ND	0.075	ug/L	1	A311476	09/30/13	10/02/13	
Chlordane	EPA 505	ND	0.10	ug/L	1	A311476	09/30/13	10/02/13	
Chlorothalonil	EPA 505	ND	5.0	ug/L	1	A311476	09/30/13	10/02/13	
Dieldrin	EPA 505	ND	0.020	ug/L	1	A311476	09/30/13	10/02/13	
Endrin	EPA 505	ND	0.10	ug/L	1	A311476	09/30/13	10/02/13	
Heptachlor	EPA 505	ND	0.010	ug/L	1	A311476	09/30/13	10/02/13	
Heptachlor Epoxide	EPA 505	ND	0.010	ug/L	1	A311476	09/30/13	10/02/13	
Hexachlorobenzene	EPA 505	ND	0.50	ug/L	1	A311476	09/30/13	10/02/13	
Hexachlorocyclopentadiene	EPA 505	ND	1.0	ug/L	1	A311476	09/30/13	10/02/13	
Lindane	EPA 505	ND	0.20	ug/L	1	A311476	09/30/13	10/02/13	
Methoxychlor	EPA 505	ND	10	ug/L	1	A311476	09/30/13	10/02/13	
PCB Aroclor Screen	EPA 505	ND	0.50	ug/L	1	A311476	09/30/13	10/02/13	
Toxaphene	EPA 505	ND	1.0	ug/L	1	A311476	09/30/13	10/02/13	
Trifluralin	EPA 505	ND	1.0	ug/L	1	A311476	09/30/13	10/02/13	
Surrogate: TCMX	EPA 505	150 %	*Acceptable range: 70-130 %*			*Qualifiers -*	*SR02*		
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A311419	09/29/13	10/04/13	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A311419	09/29/13	10/04/13	
2,4-D	EPA 515.3	ND	10	ug/L	1	A311419	09/29/13	10/04/13	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A311419	09/29/13	10/04/13	
Dalapon	EPA 515.3	ND	10	ug/L	1	A311419	09/29/13	10/04/13	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A311419	09/29/13	10/04/13	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A311419	09/29/13	10/04/13	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A311419	09/29/13	10/04/13	

Certificate of Analysis

Sample ID: A3I2214-01
Sampled By: Sarp Sekeroglu
Sample Description: Water Sample

Sample Date - Time: 09/24/13 - 15:00
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chlorinated Acid Herbicides by GC-ECD									
Picloram	EPA 515.3	ND	1.0	ug/L	1	A311419	09/29/13	10/04/13	
Surrogate: DCPAA	EPA 515.3	123 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A311594	10/02/13	10/03/13	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A311594	10/02/13	10/03/13	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A311594	10/02/13	10/03/13	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A311594	10/02/13	10/03/13	
Acetone	EPA 524.2	ND	10	ug/L	1	A311594	10/02/13	10/03/13	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	

Certificate of Analysis

Sample ID: A3I2214-01
Sampled By: Sarp Sekeroglu
Sample Description: Water Sample

Sample Date - Time: 09/24/13 - 15:00
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A311594	10/02/13	10/03/13	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A311594	10/02/13	10/03/13	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A311594	10/02/13	10/03/13	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A311594	10/02/13	10/03/13	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	93 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	98 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A311693	10/03/13	10/04/13	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A311693	10/03/13	10/04/13	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A311693	10/03/13	10/04/13	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A311693	10/03/13	10/04/13	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A311693	10/03/13	10/04/13	
Bromacil	EPA 525.2	ND	10	ug/L	1	A311693	10/03/13	10/04/13	
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A311693	10/03/13	10/04/13	

Certificate of Analysis

Sample ID: A3I2214-01
Sampled By: Sarp Sekeroglu
Sample Description: Water Sample

Sample Date - Time: 09/24/13 - 15:00
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Semi-Volatile Organics by GC-MS									
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A311693	10/03/13	10/04/13	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A311693	10/03/13	10/04/13	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A311693	10/03/13	10/04/13	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A311693	10/03/13	10/04/13	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A311693	10/03/13	10/04/13	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A311693	10/03/13	10/04/13	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A311693	10/03/13	10/04/13	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A311693	10/03/13	10/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	106 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A311765	10/06/13	10/11/13	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A311765	10/06/13	10/11/13	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A311765	10/06/13	10/11/13	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A311765	10/06/13	10/11/13	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A311765	10/06/13	10/11/13	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A311765	10/06/13	10/11/13	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A311765	10/06/13	10/11/13	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A311765	10/06/13	10/11/13	BS1.0
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A311409	09/27/13	09/28/13	
Surrogate: AMPA	EPA 547	110 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A311487	09/30/13	10/02/13	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.0	ug/L	1	A311486	09/30/13	10/03/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A311412										Prepared: 9/28/2013	
Prep Method: Method Specific Preparation										Analyst: AJT	
Blank (A311412-BLK1)											
Chloride	ND	1.0	mg/L							09/28/13	
Nitrate as NO3	ND	1.0	mg/L							09/28/13	
Nitrite as N	ND	0.050	mg/L							09/28/13	
Sulfate as SO4	ND	2.0	mg/L							09/28/13	
Blank Spike (A311412-BS1)											
Chloride	51	1.0	mg/L	50		101	90-110			09/28/13	
Nitrate as NO3	50	1.0	mg/L	50		101	90-110			09/28/13	
Nitrite as N	0.48	0.050	mg/L	0.50		97	90-110			09/28/13	
Sulfate as SO4	51	2.0	mg/L	50		102	90-110			09/28/13	
Blank Spike Dup (A311412-BSD1)											
Chloride	50	1.0	mg/L	50		100	90-110	1	20	09/28/13	
Nitrate as NO3	50	1.0	mg/L	50		100	90-110	1	20	09/28/13	
Nitrite as N	0.48	0.050	mg/L	0.50		95	90-110	1	20	09/28/13	
Sulfate as SO4	50	2.0	mg/L	50		100	90-110	2	20	09/28/13	
Matrix Spike (A311412-MS1), Source: A3I2291-01											
Chloride	160	2.0	mg/L	100	60	97	80-120			09/28/13	
Nitrate as NO3	110	2.0	mg/L	100	9.0	99	80-120			09/28/13	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	104	80-120			09/28/13	
Sulfate as SO4	180	4.0	mg/L	100	81	95	80-120			09/28/13	
Matrix Spike Dup (A311412-MSD1), Source: A3I2291-01											
Chloride	160	2.0	mg/L	100	60	97	80-120	0	20	09/28/13	
Nitrate as NO3	110	2.0	mg/L	100	9.0	99	80-120	0	20	09/28/13	
Nitrite as N	1.1	0.10	mg/L	1.0	ND	106	80-120	1	20	09/28/13	
Sulfate as SO4	180	4.0	mg/L	100	81	97	80-120	1	20	09/28/13	
EPA 300.0 - Quality Control											
Batch: A311437										Prepared: 9/30/2013	
Prep Method: Method Specific Preparation										Analyst: n.a.	
Blank (A311437-BLK1)											
Fluoride	ND	0.10	mg/L							09/30/13	
Blank Spike (A311437-BS1)											
Fluoride	0.50	0.10	mg/L	0.50		100	90-110			09/30/13	
Blank Spike Dup (A311437-BSD1)											
Fluoride	0.48	0.10	mg/L	0.50		97	90-110	3	10	09/30/13	
Matrix Spike (A311437-MS1), Source: A3I2008-01											
Fluoride	1.6	0.20	mg/L	1.0	0.53	103	80-120			09/30/13	
Matrix Spike (A311437-MS2), Source: A3I2114-01											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A311437										Prepared: 9/30/2013	
Prep Method: Method Specific Preparation										Analyst: n.a.	
Matrix Spike (A311437-MS2), Source: A3I2114-01											
Fluoride	1.1	0.20	mg/L	1.0	ND	100	80-120			09/30/13	
Matrix Spike Dup (A311437-MSD1), Source: A3I2008-01											
Fluoride	1.6	0.20	mg/L	1.0	0.53	106	80-120	2	10	09/30/13	
Matrix Spike Dup (A311437-MSD2), Source: A3I2114-01											
Fluoride	1.1	0.20	mg/L	1.0	ND	101	80-120	1	10	09/30/13	
EPA 300.1 - Quality Control											
Batch: A311494										Prepared: 9/30/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Blank (A311494-BLK1)											
Bromide	ND	0.0050	mg/L							09/30/13	
Surrogate: Dichloroacetate	*0.506*			*0.50*		*101*	*90-115*			09/30/13	
Blank Spike (A311494-BS1)											
Bromide	0.20	0.0050	mg/L	0.20		98	85-115			09/30/13	
Surrogate: Dichloroacetate	*0.521*			*0.50*		*104*	*90-115*			09/30/13	
Blank Spike Dup (A311494-BSD1)											
Bromide	0.20	0.0050	mg/L	0.20		98	85-115	1	10	09/30/13	
Surrogate: Dichloroacetate	*0.522*			*0.50*		*104*	*90-115*			09/30/13	
EPA 351.2 - Quality Control											
Batch: A311800										Prepared: 10/7/2013	
Prep Method: Digestion										Analyst: LJL	
Blank (A311800-BLK1)											
Total Kjeldahl Nitrogen - Dissolved (1)	ND	1.0	mg/L							10/09/13	
Blank Spike (A311800-BS1)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		104	90-110			10/09/13	
Blank Spike Dup (A311800-BSD1)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		104	90-110	1	10	10/09/13	
Matrix Spike (A311800-MS1), Source: A3I2260-01											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10	ND	103	90-110			10/09/13	
Matrix Spike Dup (A311800-MSD1), Source: A3I2260-01											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10	ND	103	90-110	0	10	10/09/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 365.4 - Quality Control											
Batch: A311800										Prepared: 10/7/2013	
Prep Method: Digestion										Analyst: LJL	
Blank (A311800-BLK1)											
Phosphorus - Dissolved (1)	ND	0.10	mg/L							10/09/13	
Blank Spike (A311800-BS1)											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10		102	90-110			10/09/13	
Blank Spike Dup (A311800-BSD1)											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10		102	90-110	0	10	10/09/13	
Matrix Spike (A311800-MS1), Source: A3I2260-01											
Phosphorus - Dissolved (1)	9.9	0.10	mg/L	10	ND	98	90-110			10/09/13	
Matrix Spike Dup (A311800-MSD1), Source: A3I2260-01											
Phosphorus - Dissolved (1)	9.4	0.10	mg/L	10	ND	93	90-110	5	10	10/09/13	
SM 2120 B - Quality Control											
Batch: A311368										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311368-BLK1)											
Color, Apparent	ND	1.0	CU							09/27/13	
Duplicate (A311368-DUP1), Source: A3I2216-01											
Color, Apparent	5.0	1.0	CU		5.0			0	20	09/27/13	
SM 2130 B - Quality Control											
Batch: A311368										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311368-BLK1)											
Turbidity	ND	0.10	NTU							09/27/13	
Duplicate (A311368-DUP1), Source: A3I2216-01											
Turbidity	2.6	0.10	NTU		2.7			4	20	09/27/13	
SM 2150 B - Quality Control											
Batch: A311368										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311368-BLK1)											
Threshold Odor	ND	1.0	T.O.N.							09/27/13	
Duplicate (A311368-DUP1), Source: A3I2216-01											
Threshold Odor	ND	1.0	T.O.N.		ND				20	09/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2320 B - Quality Control											
Batch: A311377										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A311377-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							09/27/13	
Bicarbonate as CaCO3	ND	3.0	mg/L							09/27/13	
Carbonate as CaCO3	ND	3.0	mg/L							09/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L							09/27/13	
Blank Spike (A311377-BS1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		101	80-120			09/27/13	
Blank Spike Dup (A311377-BSD1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		100	80-120	1	20	09/27/13	
Duplicate (A311377-DUP1), Source: A3I2176-02											
Alkalinity as CaCO3	74	3.0	mg/L		74			0	10	09/27/13	
Bicarbonate as CaCO3	73	3.0	mg/L		73			0	10	09/27/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	09/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	09/27/13	
Duplicate (A311377-DUP2), Source: A3I2260-01											
Alkalinity as CaCO3	140	3.0	mg/L		150			0	10	09/27/13	
Bicarbonate as CaCO3	140	3.0	mg/L		150			0	10	09/27/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	09/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	09/27/13	
SM 2510 B - Quality Control											
Batch: A311377										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A311377-BLK1)											
Conductivity @ 25C	ND	1.0	umhos/cm							09/27/13	
Duplicate (A311377-DUP1), Source: A3I2176-02											
Conductivity @ 25C	580	1.0	umhos/cm		580			0	20	09/27/13	
Duplicate (A311377-DUP2), Source: A3I2260-01											
Conductivity @ 25C	43000	1.0	umhos/cm		43000			0	20	09/27/13	
SM 2540C - Quality Control											
Batch: A311537										Prepared: 10/1/2013	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank (A311537-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							10/04/13	
Blank Spike (A311537-BS1)											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2540C - Quality Control											
Batch: A311537										Prepared: 10/1/2013	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank Spike (A311537-BS1)											
Total Dissolved Solids	990	5.0	mg/L	1000		99	70-130			10/04/13	
Duplicate (A311537-DUP1), Source: A3I2214-01											
Total Dissolved Solids	620	5.0	mg/L		630			1	20	10/04/13	
SM 4500-H+ B - Quality Control											
Batch: A311377										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Duplicate (A311377-DUP1), Source: A3I2176-02											
pH (1)	8.3		pH Units		8.3			0	20	09/27/13	
Duplicate (A311377-DUP2), Source: A3I2260-01											
pH (1)	7.7		pH Units		7.7			0	20	09/27/13	
SM 4500-NH3 G - Quality Control											
Batch: A311778										Prepared: 10/7/2013	
Prep Method: Ammonia Distillation										Analyst: LJL	
Blank (A311778-BLK1)											
Ammonia as N	ND	0.10	mg/L							10/08/13	
Blank (A311778-BLK2)											
Ammonia as N	ND	0.10	mg/L							10/08/13	
Blank Spike (A311778-BS1)											
Ammonia as N	9.8	0.10	mg/L	10		98	80-120			10/08/13	
Blank Spike Dup (A311778-BSD1)											
Ammonia as N	9.8	0.10	mg/L	10		98	80-120	0	20	10/08/13	
Matrix Spike (A311778-MS1), Source: A3I2168-05											
Ammonia as N	10	0.10	mg/L	10	0.34	97	80-120			10/08/13	
Matrix Spike (A311778-MS2), Source: A3I2246-02											
Ammonia as N	10	0.10	mg/L	10	ND	100	80-120			10/08/13	
Matrix Spike Dup (A311778-MSD1), Source: A3I2168-05											
Ammonia as N	10	0.10	mg/L	10	0.34	96	80-120	1	20	10/08/13	
Matrix Spike Dup (A311778-MSD2), Source: A3I2246-02											
Ammonia as N	9.3	0.10	mg/L	10	ND	92	80-120	8	20	10/08/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-NO3 F - Quality Control											
Batch: A311810										Prepared: 10/7/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Blank (A311810-BLK2)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	ND	0.10	mg/L							10/07/13	
Blank Spike (A311810-BS1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10		102	80-120			10/07/13	
Blank Spike Dup (A311810-BSD1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.8	0.10	mg/L	10		98	80-120	4	20	10/07/13	
Matrix Spike (A311810-MS1), Source: A3I2132-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10	0.87	94	80-120			10/07/13	
Matrix Spike (A311810-MS2), Source: A3I2260-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10	ND	105	80-120			10/07/13	
Matrix Spike Dup (A311810-MSD1), Source: A3I2132-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10	0.87	95	80-120	1	20	10/07/13	
Matrix Spike Dup (A311810-MSD2), Source: A3I2260-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	11	0.10	mg/L	10	ND	105	80-120	1	20	10/07/13	
SM 4500-P E - Quality Control											
Batch: A311398										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Blank (A311398-BLK1)											
Orthophosphate as P	ND	0.010	mg/L							09/27/13	
Blank Spike (A311398-BS1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		101	90-110			09/27/13	
Blank Spike Dup (A311398-BSD1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		101	90-110	0	20	09/27/13	
Matrix Spike (A311398-MS1), Source: A3I2214-01											
Orthophosphate as P	1.4	0.050	mg/L	1.2	0.14	98	80-120			09/27/13	
Matrix Spike Dup (A311398-MSD1), Source: A3I2214-01											
Orthophosphate as P	1.4	0.050	mg/L	1.2	0.14	99	80-120	1	20	09/27/13	
SM 5540 C - Quality Control											
Batch: A311369										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311369-BLK1)											
MBAS, Calculated as LAS, mol wt 340	ND	0.050	mg/L							09/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 5540 C - Quality Control											
Batch: A311369										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank Spike (A311369-BS1)											
MBAS, Calculated as LAS, mol wt 340	0.94	0.050	mg/L	1.0		94	80-120			09/27/13	
Blank Spike Dup (A311369-BSD1)											
MBAS, Calculated as LAS, mol wt 340	0.96	0.050	mg/L	1.0		96	80-120	1	20	09/27/13	
Matrix Spike (A311369-MS1), Source: A3I2214-01											
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0	ND	102	80-120			09/27/13	
Matrix Spike Dup (A311369-MSD1), Source: A3I2214-01											
MBAS, Calculated as LAS, mol wt 340	1.1	0.050	mg/L	1.0	ND	104	80-120	2	20	09/27/13	

Metals Quality Control Report

EPA 200.7 - Quality Control

Batch: A311444 Prepared: 9/30/2013

Prep Method: EPA 200.2 Analyst: NRE

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A311444-BLK2)											
Aluminum	ND	0.050	mg/L							10/01/13	
Calcium	ND	0.10	mg/L							10/01/13	
Iron	ND	0.030	mg/L							10/01/13	
Magnesium	ND	0.10	mg/L							10/01/13	
Manganese	ND	0.010	mg/L							10/01/13	
Zinc	ND	0.050	mg/L							10/01/13	
Blank Spike (A311444-BS2)											
Aluminum	0.20	0.050	mg/L	0.20		98	85-115			10/01/13	
Calcium	10	0.10	mg/L	10		101	85-115			10/01/13	
Iron	2.1	0.030	mg/L	2.0		103	85-115			10/01/13	
Magnesium	10	0.10	mg/L	10		100	85-115			10/01/13	
Manganese	0.20	0.010	mg/L	0.20		101	85-115			10/01/13	
Zinc	0.21	0.050	mg/L	0.20		105	85-115			10/01/13	
Blank Spike Dup (A311444-BSD2)											
Aluminum	0.20	0.050	mg/L	0.20		99	85-115	1	20	10/01/13	
Calcium	10	0.10	mg/L	10		102	85-115	1	20	10/01/13	
Iron	2.1	0.030	mg/L	2.0		103	85-115	0	20	10/01/13	
Magnesium	10	0.10	mg/L	10		100	85-115	0	20	10/01/13	
Manganese	0.20	0.010	mg/L	0.20		101	85-115	0	20	10/01/13	
Zinc	0.21	0.050	mg/L	0.20		103	85-115	1	20	10/01/13	
Matrix Spike (A311444-MS3), Source: A3I2176-02											
Aluminum	0.24	0.050	mg/L	0.20	ND	121	70-130			10/01/13	
Calcium	28	0.10	mg/L	10	18	103	70-130			10/01/13	
Iron	2.1	0.030	mg/L	2.0	0.11	101	70-130			10/01/13	
Magnesium	24	0.10	mg/L	10	14	102	70-130			10/01/13	
Manganese	0.21	0.010	mg/L	0.20	0.014	99	70-130			10/01/13	
Zinc	0.21	0.050	mg/L	0.20	ND	103	70-130			10/01/13	
Matrix Spike (A311444-MS4), Source: A3I2215-01											
Aluminum	0.19	0.050	mg/L	0.20	ND	94	70-130			10/01/13	
Calcium	41	0.10	mg/L	10	31	107	70-130			10/01/13	
Iron	2.0	0.030	mg/L	2.0	ND	102	70-130			10/01/13	
Magnesium	24	0.10	mg/L	10	14	102	70-130			10/01/13	
Manganese	0.20	0.010	mg/L	0.20	ND	100	70-130			10/01/13	
Zinc	0.27	0.050	mg/L	0.20	0.068	102	70-130			10/01/13	
Matrix Spike Dup (A311444-MSD3), Source: A3I2176-02											
Aluminum	0.24	0.050	mg/L	0.20	ND	118	70-130	3	20	10/01/13	
Calcium	27	0.10	mg/L	10	18	95	70-130	3	20	10/01/13	
Iron	2.1	0.030	mg/L	2.0	0.11	100	70-130	1	20	10/01/13	
Magnesium	23	0.10	mg/L	10	14	96	70-130	2	20	10/01/13	
Manganese	0.21	0.010	mg/L	0.20	0.014	98	70-130	1	20	10/01/13	
Zinc	0.20	0.050	mg/L	0.20	ND	101	70-130	2	20	10/01/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A311444										Prepared: 9/30/2013	
Prep Method: EPA 200.2										Analyst: NRE	
Matrix Spike Dup (A311444-MSD4), Source: A3I2215-01											
Aluminum	0.19	0.050	mg/L	0.20	ND	94	70-130	0	20	10/01/13	
Calcium	41	0.10	mg/L	10	31	105	70-130	1	20	10/01/13	
Iron	2.0	0.030	mg/L	2.0	ND	102	70-130	0	20	10/01/13	
Magnesium	24	0.10	mg/L	10	14	102	70-130	0	20	10/01/13	
Manganese	0.20	0.010	mg/L	0.20	ND	99	70-130	1	20	10/01/13	
Zinc	0.27	0.050	mg/L	0.20	0.068	102	70-130	1	20	10/01/13	
EPA 200.7 - Quality Control											
Batch: A311497										Prepared: 10/1/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Blank (A311497-BLK2)											
Barium - Dissolved (1)	ND	0.050	mg/L							10/04/13	
Boron - Dissolved (1)	ND	0.10	mg/L							10/04/13	
Calcium - Dissolved (1)	ND	0.10	mg/L							10/04/13	
Iron - Dissolved (1)	ND	0.030	mg/L							10/04/13	
Magnesium - Dissolved (1)	ND	0.10	mg/L							10/04/13	
Manganese - Dissolved (1)	ND	0.010	mg/L							10/04/13	
Potassium - Dissolved (1)	ND	2.0	mg/L							10/04/13	
Silica (SiO2) - Dissolved (1)	ND	0.20	mg/L							10/04/13	
Sodium - Dissolved (1)	ND	1.0	mg/L							10/04/13	
Blank Spike (A311497-BS2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		99	85-115			10/04/13	
Boron - Dissolved (1)	0.57	0.10	mg/L	0.60		95	85-115			10/04/13	
Calcium - Dissolved (1)	9.8	0.10	mg/L	10		98	85-115			10/04/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		99	85-115			10/04/13	
Magnesium - Dissolved (1)	9.6	0.10	mg/L	10		96	85-115			10/04/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20		97	85-115			10/04/13	
Potassium - Dissolved (1)	9.7	2.0	mg/L	10		97	85-115			10/04/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		102	85-115			10/04/13	
Sodium - Dissolved (1)	9.8	1.0	mg/L	10		98	85-115			10/04/13	
Blank Spike Dup (A311497-BSD2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		100	85-115	2	20	10/04/13	
Boron - Dissolved (1)	0.58	0.10	mg/L	0.60		97	85-115	2	20	10/04/13	
Calcium - Dissolved (1)	10	0.10	mg/L	10		100	85-115	2	20	10/04/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		100	85-115	1	20	10/04/13	
Magnesium - Dissolved (1)	9.7	0.10	mg/L	10		97	85-115	1	20	10/04/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20		98	85-115	1	20	10/04/13	
Potassium - Dissolved (1)	9.9	2.0	mg/L	10		99	85-115	2	20	10/04/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		102	85-115	1	20	10/04/13	
Sodium - Dissolved (1)	10	1.0	mg/L	10		100	85-115	2	20	10/04/13	
Matrix Spike (A311497-MS2), Source: A3I2260-01											
Barium - Dissolved (1)	0.25	0.50	mg/L	0.20	ND	123	70-130			10/04/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A311497										Prepared: 10/1/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Matrix Spike (A311497-MS2), Source: A3I2260-01											
Boron - Dissolved (1)	4.9	1.0	mg/L	0.60	4.3	100	70-130			10/04/13	
Calcium - Dissolved (1)	410	1.0	mg/L	10	400	184	70-130			10/04/13	MS1.0 ***High***
Iron - Dissolved (1)	2.0	0.30	mg/L	2.0	ND	99	70-130			10/04/13	
Magnesium - Dissolved (1)	1200	1.0	mg/L	10	1200	340	70-130			10/04/13	MS1.0 ***High***
Manganese - Dissolved (1)	1.9	0.10	mg/L	0.20	1.7	114	70-130			10/04/13	
Potassium - Dissolved (1)	390	20	mg/L	10	380	171	70-130			10/04/13	MS1.0 ***High***
Silica (SiO2) - Dissolved (1)	27	2.0	mg/L	2.1	25	128	70-130			10/04/13	
Matrix Spike (A311497-MS3), Source: A3I2260-01											
Sodium - Dissolved (1)	10000	100	mg/L	10	10000	NR	70-130			10/05/13	MS1.0 ***High***
Matrix Spike Dup (A311497-MSD2), Source: A3I2260-01											
Barium - Dissolved (1)	0.24	0.50	mg/L	0.20	ND	122	70-130	1	20	10/04/13	
Boron - Dissolved (1)	4.9	1.0	mg/L	0.60	4.3	108	70-130	1	20	10/04/13	
Calcium - Dissolved (1)	410	1.0	mg/L	10	400	186	70-130	0	20	10/04/13	MS1.0 ***High***
Iron - Dissolved (1)	2.0	0.30	mg/L	2.0	ND	101	70-130	2	20	10/04/13	
Magnesium - Dissolved (1)	1200	1.0	mg/L	10	1200	366	70-130	0	20	10/04/13	MS1.0 ***High***
Manganese - Dissolved (1)	1.9	0.10	mg/L	0.20	1.7	119	70-130	1	20	10/04/13	
Potassium - Dissolved (1)	400	20	mg/L	10	380	185	70-130	0	20	10/04/13	MS1.0 ***High***
Silica (SiO2) - Dissolved (1)	28	2.0	mg/L	2.1	25	141	70-130	1	20	10/04/13	MS1.0 ***High***
Matrix Spike Dup (A311497-MSD3), Source: A3I2260-01											
Sodium - Dissolved (1)	11000	100	mg/L	10	10000	NR	70-130	1	20	10/05/13	MS1.0 ***High***
EPA 200.8 - Quality Control											
Batch: A311444										Prepared: 9/30/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Blank (A311444-BLK1)											
Arsenic	ND	2.0	ug/L							10/08/13	
Copper	ND	5.0	ug/L							10/08/13	
Blank Spike (A311444-BS1)											
Arsenic	200	2.0	ug/L	200		101	85-115			10/08/13	
Copper	200	5.0	ug/L	200		101	85-115			10/08/13	
Blank Spike Dup (A311444-BSD1)											
Arsenic	210	2.0	ug/L	200		106	85-115	5	20	10/08/13	
Copper	200	5.0	ug/L	200		102	85-115	2	20	10/08/13	
Matrix Spike (A311444-MS1), Source: A3I2176-02											
Arsenic	200	2.0	ug/L	200	3.9	100	70-130			10/08/13	
Copper	200	5.0	ug/L	200	ND	100	70-130			10/08/13	
Matrix Spike (A311444-MS2), Source: A3I2215-01											
Arsenic	200	2.0	ug/L	200	ND	102	70-130			10/08/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A311444										Prepared: 9/30/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Matrix Spike (A311444-MS2), Source: A3I2215-01											
Copper	190	5.0	ug/L	200	ND	96	70-130			10/08/13	
Matrix Spike Dup (A311444-MSD1), Source: A3I2176-02											
Arsenic	200	2.0	ug/L	200	3.9	100	70-130	0	20	10/08/13	
Copper	200	5.0	ug/L	200	ND	98	70-130	2	20	10/08/13	
Matrix Spike Dup (A311444-MSD2), Source: A3I2215-01											
Arsenic	200	2.0	ug/L	200	ND	102	70-130	0	20	10/08/13	
Copper	190	5.0	ug/L	200	ND	97	70-130	1	20	10/08/13	
EPA 200.8 - Quality Control											
Batch: A311497										Prepared: 10/1/2013	
Prep Method: Filtration - Metals										Analyst: MAS	
Blank (A311497-BLK1)											
Strontium - Dissolved (1)	ND	1.0	ug/L							10/08/13	
Blank Spike (A311497-BS1)											
Strontium - Dissolved (1)	190	1.0	ug/L	200		93	85-115			10/08/13	
Blank Spike Dup (A311497-BSD1)											
Strontium - Dissolved (1)	190	1.0	ug/L	200		96	85-115	3	20	10/08/13	
Matrix Spike (A311497-MS1), Source: A3I2260-01											
Strontium - Dissolved (1)	8700	10	ug/L	200	7400	673	70-130			10/08/13	MS1.0 ***High***
Matrix Spike Dup (A311497-MSD1), Source: A3I2260-01											
Strontium - Dissolved (1)	8200	10	ug/L	200	7400	401	70-130	6	20	10/08/13	MS1.0 ***High***

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A311476										Prepared: 9/30/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A311476-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							10/02/13	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							10/02/13	
Surrogate: TCMX	*1.6*			*1.5*		*107*	*70-130*			10/02/13	
Blank Spike (A311476-BS1)											
Dibromochloropropane (DBCP)	0.21	0.010	ug/L	0.20		104	70-130			10/02/13	
Ethylene Dibromide (EDB)	0.22	0.020	ug/L	0.20		108	70-130			10/02/13	
Surrogate: TCMX	*1.5*			*1.5*		*102*	*70-130*			10/02/13	
Blank Spike Dup (A311476-BSD1)											
Dibromochloropropane (DBCP)	0.20	0.010	ug/L	0.20		101	70-130	2	20	10/02/13	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.20		104	70-130	4	20	10/02/13	
Surrogate: TCMX	*1.4*			*1.5*		*91*	*70-130*			10/02/13	
Matrix Spike (A311476-MS1), Source: A3I2242-01											
Dibromochloropropane (DBCP)	0.19	0.010	ug/L	0.20	ND	93	65-135			10/02/13	
Ethylene Dibromide (EDB)	0.19	0.020	ug/L	0.20	ND	96	65-135			10/02/13	
Surrogate: TCMX	*1.5*			*1.5*		*97*	*70-130*			10/02/13	
Matrix Spike Dup (A311476-MSD1), Source: A3I2242-01											
Dibromochloropropane (DBCP)	0.19	0.010	ug/L	0.20	ND	95	65-135	0	20	10/02/13	
Ethylene Dibromide (EDB)	0.18	0.020	ug/L	0.20	ND	94	65-135	4	20	10/02/13	
Surrogate: TCMX	*1.4*			*1.5*		*92*	*70-130*			10/02/13	
EPA 505 - Quality Control											
Batch: A311476										Prepared: 9/30/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A311476-BLK1)											
Aldrin	ND	0.075	ug/L							10/02/13	
Chlordane	ND	0.10	ug/L							10/02/13	
Chlorothalonil	ND	5.0	ug/L							10/02/13	
Dieldrin	ND	0.020	ug/L							10/02/13	
Endrin	ND	0.10	ug/L							10/02/13	
Heptachlor	ND	0.010	ug/L							10/02/13	
Heptachlor Epoxide	ND	0.010	ug/L							10/02/13	
Hexachlorobenzene	ND	0.50	ug/L							10/02/13	
Hexachlorocyclopentadiene	ND	1.0	ug/L							10/02/13	
Lindane	ND	0.20	ug/L							10/02/13	
Methoxychlor	ND	10	ug/L							10/02/13	
PCB Aroclor Screen	ND	0.50	ug/L							10/02/13	
Toxaphene	ND	1.0	ug/L							10/02/13	
Trifluralin	ND	1.0	ug/L							10/02/13	
Surrogate: TCMX	*1.6*			*1.5*		*107*	*70-130*			10/02/13	
Blank Spike (A311476-BS1)											

Organics Quality Control Report

EPA 505 - Quality Control

Batch: A311476 Prepared: 9/30/2013

Prep Method: EPA 505 Analyst: GAK

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A311476-BS1)											
Aldrin	1.2	0.075	ug/L	1.0		119	70-130			10/02/13	
Chlorothalonil	11	5.0	ug/L	10		114	70-130			10/02/13	
Dieldrin	0.45	0.020	ug/L	0.40		112	70-130			10/02/13	
Endrin	0.21	0.10	ug/L	0.20		106	70-130			10/02/13	
Heptachlor	0.22	0.010	ug/L	0.20		112	70-130			10/02/13	
Heptachlor Epoxide	0.22	0.010	ug/L	0.20		110	70-130			10/02/13	
Hexachlorobenzene	2.4	0.50	ug/L	2.0		118	70-130			10/02/13	
Hexachlorocyclopentadiene	2.6	1.0	ug/L	2.0		128	70-130			10/02/13	
Lindane	0.46	0.20	ug/L	0.40		116	70-130			10/02/13	
Methoxychlor	2.1	10	ug/L	2.0		104	70-130			10/02/13	
Trifluralin	2.5	1.0	ug/L	2.0		125	70-130			10/02/13	
Surrogate: TCMX	*1.5*			*1.5*		*102*	*70-130*			10/02/13	
Blank Spike Dup (A311476-BSD1)											
Aldrin	1.1	0.075	ug/L	1.0		111	70-130	7	20	10/02/13	
Chlorothalonil	11	5.0	ug/L	10		111	70-130	3	20	10/02/13	
Dieldrin	0.43	0.020	ug/L	0.40		107	70-130	4	20	10/02/13	
Endrin	0.20	0.10	ug/L	0.20		102	70-130	4	20	10/02/13	
Heptachlor	0.21	0.010	ug/L	0.20		107	70-130	5	20	10/02/13	
Heptachlor Epoxide	0.22	0.010	ug/L	0.20		108	70-130	2	20	10/02/13	
Hexachlorobenzene	2.3	0.50	ug/L	2.0		113	70-130	5	20	10/02/13	
Hexachlorocyclopentadiene	2.4	1.0	ug/L	2.0		122	70-130	5	20	10/02/13	
Lindane	0.44	0.20	ug/L	0.40		111	70-130	4	20	10/02/13	
Methoxychlor	2.1	10	ug/L	2.0		103	70-130	1	20	10/02/13	
Trifluralin	2.4	1.0	ug/L	2.0		119	70-130	5	20	10/02/13	
Surrogate: TCMX	*1.4*			*1.5*		*91*	*70-130*			10/02/13	
Matrix Spike (A311476-MS1), Source: A3I2242-01											
Aldrin	0.99	0.075	ug/L	1.0	ND	99	65-135			10/02/13	
Chlorothalonil	10	5.0	ug/L	10	ND	104	65-135			10/02/13	
Dieldrin	0.40	0.020	ug/L	0.40	ND	101	65-135			10/02/13	
Endrin	0.19	0.10	ug/L	0.20	ND	96	65-135			10/02/13	
Heptachlor	0.20	0.010	ug/L	0.20	ND	100	65-135			10/02/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20	ND	100	65-135			10/02/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0	ND	106	65-135			10/02/13	
Hexachlorocyclopentadiene	2.1	1.0	ug/L	2.0	ND	106	65-135			10/02/13	
Lindane	0.42	0.20	ug/L	0.40	ND	105	65-135			10/02/13	
Methoxychlor	1.9	10	ug/L	2.0	ND	97	65-135			10/02/13	
Trifluralin	2.2	1.0	ug/L	2.0	ND	110	65-135			10/02/13	
Surrogate: TCMX	*1.5*			*1.5*		*97*	*70-130*			10/02/13	
Matrix Spike Dup (A311476-MSD1), Source: A3I2242-01											
Aldrin	0.94	0.075	ug/L	0.99	ND	95	65-135	6	20	10/02/13	
Chlorothalonil	10	5.0	ug/L	9.9	ND	105	65-135	1	20	10/02/13	
Dieldrin	0.41	0.020	ug/L	0.40	ND	103	65-135	1	20	10/02/13	
Endrin	0.19	0.10	ug/L	0.20	ND	98	65-135	1	20	10/02/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 505 - Quality Control											
Batch: A311476										Prepared: 9/30/2013	
Prep Method: EPA 505										Analyst: GAK	
Matrix Spike Dup (A311476-MSD1), Source: A3I2242-01											
Heptachlor	0.19	0.010	ug/L	0.20	ND	98	65-135	4	20	10/02/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20	ND	102	65-135	1	20	10/02/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0	ND	105	65-135	2	20	10/02/13	
Hexachlorocyclopentadiene	1.9	1.0	ug/L	2.0	ND	97	65-135	10	20	10/02/13	
Lindane	0.42	0.20	ug/L	0.40	ND	106	65-135	0	20	10/02/13	
Methoxychlor	2.0	10	ug/L	2.0	ND	101	65-135	3	20	10/02/13	
Trifluralin	2.2	1.0	ug/L	2.0	ND	111	65-135	0	20	10/02/13	
Surrogate: TCMX	*1.4*			*1.5*		*92*	*70-130*			10/02/13	
EPA 515.3 - Quality Control											
Batch: A311419										Prepared: 9/29/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A311419-BLK1)											
2,4,5-T	ND	1.0	ug/L							10/04/13	
2,4,5-TP (Silvex)	ND	1.0	ug/L							10/04/13	
2,4-D	ND	10	ug/L							10/04/13	
Bentazon	ND	2.0	ug/L							10/04/13	
Dalapon	ND	10	ug/L							10/04/13	
Dicamba	ND	1.5	ug/L							10/04/13	
Dinoseb	ND	2.0	ug/L							10/04/13	
Pentachlorophenol	ND	0.20	ug/L							10/04/13	
Picloram	ND	1.0	ug/L							10/04/13	
Surrogate: DCPAA	*71*			*58*		*123*	*70-130*			10/04/13	
Blank Spike (A311419-BS1)											
2,4,5-T	4.1	1.0	ug/L	4.0		102	70-130			10/04/13	
2,4,5-TP (Silvex)	4.2	1.0	ug/L	4.0		106	70-130			10/04/13	
2,4-D	47	10	ug/L	40		118	70-130			10/04/13	
Bentazon	9.8	2.0	ug/L	8.0		122	70-130			10/04/13	
Dalapon	37	10	ug/L	40		92	70-130			10/04/13	
Dicamba	5.9	1.5	ug/L	6.0		98	70-130			10/04/13	
Dinoseb	8.1	2.0	ug/L	8.0		101	70-130			10/04/13	
Pentachlorophenol	0.68	0.20	ug/L	0.80		85	70-130			10/04/13	
Picloram	3.3	1.0	ug/L	4.0		82	70-130			10/04/13	
Surrogate: DCPAA	*67*			*58*		*115*	*70-130*			10/04/13	
Blank Spike Dup (A311419-BSD1)											
2,4,5-T	3.9	1.0	ug/L	4.0		98	70-130	3	20	10/04/13	
2,4,5-TP (Silvex)	4.2	1.0	ug/L	4.0		104	70-130	2	20	10/04/13	
2,4-D	46	10	ug/L	40		114	70-130	3	20	10/04/13	
Bentazon	8.1	2.0	ug/L	8.0		101	70-130	19	20	10/04/13	
Dalapon	37	10	ug/L	40		91	70-130	1	20	10/04/13	
Dicamba	5.9	1.5	ug/L	6.0		98	70-130	0	20	10/04/13	
Dinoseb	8.1	2.0	ug/L	8.0		101	70-130	0	20	10/04/13	
Pentachlorophenol	0.72	0.20	ug/L	0.80		90	70-130	6	20	10/04/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A311419										Prepared: 9/29/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A311419-BSD1)											
Picloram	3.9	1.0	ug/L	4.0		97	70-130	17	20	10/04/13	
Surrogate: DCPAA	*67*			*58*		*116*	*70-130*			10/04/13	
Matrix Spike (A311419-MS1), Source: A3I2242-01											
2,4,5-T	4.0	1.0	ug/L	4.0	ND	101	70-130			10/04/13	
2,4,5-TP (Silvex)	4.7	1.0	ug/L	4.0	ND	116	70-130			10/04/13	
2,4-D	47	10	ug/L	40	ND	119	70-130			10/04/13	
Bentazon	8.9	2.0	ug/L	8.0	ND	111	70-130			10/04/13	
Dalapon	37	10	ug/L	40	ND	92	70-130			10/04/13	
Dicamba	6.3	1.5	ug/L	6.0	ND	105	70-130			10/04/13	
Dinoseb	8.1	2.0	ug/L	8.0	ND	102	70-130			10/04/13	
Pentachlorophenol	0.68	0.20	ug/L	0.80	ND	85	70-130			10/04/13	
Picloram	3.3	1.0	ug/L	4.0	ND	82	70-130			10/04/13	
Surrogate: DCPAA	*69*			*58*		*119*	*70-130*			10/04/13	
Matrix Spike Dup (A311419-MSD1), Source: A3I2242-01											
2,4,5-T	4.0	1.0	ug/L	4.0	ND	100	70-130	1	20	10/04/13	
2,4,5-TP (Silvex)	4.0	1.0	ug/L	4.0	ND	100	70-130	16	20	10/04/13	
2,4-D	46	10	ug/L	40	ND	115	70-130	3	20	10/04/13	
Bentazon	8.8	2.0	ug/L	8.0	ND	110	70-130	1	20	10/04/13	
Dalapon	36	10	ug/L	40	ND	89	70-130	3	20	10/04/13	
Dicamba	5.8	1.5	ug/L	6.0	ND	97	70-130	8	20	10/04/13	
Dinoseb	8.0	2.0	ug/L	8.0	ND	100	70-130	1	20	10/04/13	
Pentachlorophenol	0.66	0.20	ug/L	0.80	ND	82	70-130	3	20	10/04/13	
Picloram	3.2	1.0	ug/L	4.0	ND	80	70-130	2	20	10/04/13	
Surrogate: DCPAA	*66*			*58*		*113*	*70-130*			10/04/13	
EPA 524.2 - Quality Control											
Batch: A311594										Prepared: 10/2/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A311594-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							10/03/13	
1,1,1-Trichloroethane	ND	0.50	ug/L							10/03/13	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							10/03/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							10/03/13	
1,1,2-Trichloroethane	ND	0.50	ug/L							10/03/13	
1,1-Dichloroethane	ND	0.50	ug/L							10/03/13	
1,1-Dichloroethene	ND	0.50	ug/L							10/03/13	
1,1-Dichloropropene	ND	0.50	ug/L							10/03/13	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							10/03/13	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							10/03/13	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							10/03/13	
1,2-Dichlorobenzene	ND	0.50	ug/L							10/03/13	
1,2-Dichloroethane	ND	0.50	ug/L							10/03/13	
1,2-Dichloropropane	ND	0.50	ug/L							10/03/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A311594										Prepared: 10/2/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A311594-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	ug/L							10/03/13	
1,3-Dichlorobenzene	ND	0.50	ug/L							10/03/13	
1,3-Dichloropropane	ND	0.50	ug/L							10/03/13	
1,4-Dichlorobenzene	ND	0.50	ug/L							10/03/13	
2,2-Dichloropropane	ND	0.50	ug/L							10/03/13	
2-Butanone	ND	5.0	ug/L							10/03/13	
2-Chlorotoluene	ND	0.50	ug/L							10/03/13	
2-Hexanone	ND	10	ug/L							10/03/13	
4-Chlorotoluene	ND	0.50	ug/L							10/03/13	
4-Methyl-2-pentanone	ND	5.0	ug/L							10/03/13	
Acetone	ND	10	ug/L							10/03/13	
Benzene	ND	0.50	ug/L							10/03/13	
Bromobenzene	ND	0.50	ug/L							10/03/13	
Bromochloromethane	ND	0.50	ug/L							10/03/13	
Bromodichloromethane	ND	0.50	ug/L							10/03/13	
Bromoform	ND	0.50	ug/L							10/03/13	
Bromomethane	ND	0.50	ug/L							10/03/13	
Carbon Tetrachloride	ND	0.50	ug/L							10/03/13	
Chlorobenzene	ND	0.50	ug/L							10/03/13	
Chloroethane	ND	0.50	ug/L							10/03/13	
Chloroform	ND	0.50	ug/L							10/03/13	
Chloromethane	ND	0.50	ug/L							10/03/13	
cis-1,2-Dichloroethene	ND	0.50	ug/L							10/03/13	
cis-1,3-Dichloropropene	ND	0.50	ug/L							10/03/13	
Dibromochloromethane	ND	0.50	ug/L							10/03/13	
Dibromomethane	ND	0.50	ug/L							10/03/13	
Dichlorodifluoromethane	ND	0.50	ug/L							10/03/13	
Dichloromethane	ND	0.50	ug/L							10/03/13	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							10/03/13	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							10/03/13	
Ethylbenzene	ND	0.50	ug/L							10/03/13	
Hexachlorobutadiene	ND	0.50	ug/L							10/03/13	
Isopropylbenzene	ND	0.50	ug/L							10/03/13	
m,p-Xylenes	ND	0.50	ug/L							10/03/13	
Methyl-t-butyl ether	ND	0.50	ug/L							10/03/13	
Naphthalene	ND	0.50	ug/L							10/03/13	
n-Butylbenzene	ND	0.50	ug/L							10/03/13	
n-Propylbenzene	ND	0.50	ug/L							10/03/13	
o-Xylene	ND	0.50	ug/L							10/03/13	
p-Isopropyltoluene	ND	0.50	ug/L							10/03/13	
sec-Butylbenzene	ND	0.50	ug/L							10/03/13	
Styrene	ND	0.50	ug/L							10/03/13	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							10/03/13	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							10/03/13	
tert-Butylbenzene	ND	0.50	ug/L							10/03/13	
Tetrachloroethene (PCE)	ND	0.50	ug/L							10/03/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A311594 Prepared: 10/2/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A311594-BLK1)											
Toluene	ND	0.50	ug/L							10/03/13	
trans-1,2-Dichloroethene	ND	0.50	ug/L							10/03/13	
trans-1,3-Dichloropropene	ND	0.50	ug/L							10/03/13	
Trichloroethene (TCE)	ND	0.50	ug/L							10/03/13	
Trichlorofluoromethane	ND	5.0	ug/L							10/03/13	
Vinyl Chloride	ND	0.50	ug/L							10/03/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.5*			*5.0*		*90*	*70-130*			10/03/13	
Surrogate: Bromofluorobenzene	*4.9*			*5.0*		*97*	*70-130*			10/03/13	
Blank Spike (A311594-BS1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		100	70-130			10/03/13	
1,1,1-Trichloroethane	9.2	0.50	ug/L	10		92	70-130			10/03/13	
1,1,2,2-Tetrachloroethane	9.8	0.50	ug/L	10		98	70-130			10/03/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	8.9	10	ug/L	10		89	70-130			10/03/13	
1,1,2-Trichloroethane	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,1-Dichloroethane	9.9	0.50	ug/L	10		99	70-130			10/03/13	
1,1-Dichloroethene	9.7	0.50	ug/L	10		97	70-130			10/03/13	
1,1-Dichloropropene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		100	70-130			10/03/13	
1,2,4-Trichlorobenzene	8.7	0.50	ug/L	10		87	70-130			10/03/13	
1,2,4-Trimethylbenzene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
1,2-Dichlorobenzene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,2-Dichloroethane	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,2-Dichloropropane	10	0.50	ug/L	10		100	70-130			10/03/13	
1,3,5-Trimethylbenzene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,3-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130			10/03/13	
1,3-Dichloropropane	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,4-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130			10/03/13	
2,2-Dichloropropane	10	0.50	ug/L	10		100	70-130			10/03/13	
2-Butanone	9.7	5.0	ug/L	10		97	70-130			10/03/13	
2-Chlorotoluene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
2-Hexanone	9.4	10	ug/L	10		94	70-130			10/03/13	
4-Chlorotoluene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
4-Methyl-2-pentanone	9.5	5.0	ug/L	10		95	70-130			10/03/13	
Acetone	9.8	10	ug/L	10		98	70-130			10/03/13	
Benzene	9.9	0.50	ug/L	10		99	70-130			10/03/13	
Bromobenzene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
Bromochloromethane	9.9	0.50	ug/L	10		99	70-130			10/03/13	
Bromodichloromethane	9.5	0.50	ug/L	10		95	70-130			10/03/13	
Bromoform	9.3	0.50	ug/L	10		93	70-130			10/03/13	
Bromomethane	9.2	0.50	ug/L	10		92	70-130			10/03/13	
Carbon Tetrachloride	8.9	0.50	ug/L	10		89	70-130			10/03/13	
Chlorobenzene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
Chloroethane	9.4	0.50	ug/L	10		94	70-130			10/03/13	
Chloroform	10	0.50	ug/L	10		104	70-130			10/03/13	
Chloromethane	10	0.50	ug/L	10		100	70-130			10/03/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A311594 Prepared: 10/2/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A311594-BS1)											
cis-1,2-Dichloroethene	9.9	0.50	ug/L	10		99	70-130			10/03/13	
cis-1,3-Dichloropropene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
Dibromochloromethane	9.5	0.50	ug/L	10		95	70-130			10/03/13	
Dibromomethane	9.5	0.50	ug/L	10		95	70-130			10/03/13	
Dichlorodifluoromethane	8.1	0.50	ug/L	10		81	70-130			10/03/13	
Dichloromethane	9.7	0.50	ug/L	10		97	70-130			10/03/13	
Di-isopropyl ether (DIPE)	10	3.0	ug/L	10		104	70-130			10/03/13	
Ethyl tert-Butyl Ether (ETBE)	9.8	0.50	ug/L	10		98	70-130			10/03/13	
Ethylbenzene	9.2	0.50	ug/L	10		92	70-130			10/03/13	
Hexachlorobutadiene	8.1	0.50	ug/L	10		81	70-130			10/03/13	
Isopropylbenzene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
m,p-Xylenes	18	0.50	ug/L	20		92	70-130			10/03/13	
Methyl-t-butyl ether	21	0.50	ug/L	20		105	70-130			10/03/13	
Naphthalene	8.0	0.50	ug/L	10		80	70-130			10/03/13	
n-Butylbenzene	9.4	0.50	ug/L	10		94	70-130			10/03/13	
n-Propylbenzene	9.7	0.50	ug/L	10		97	70-130			10/03/13	
o-Xylene	9.2	0.50	ug/L	10		92	70-130			10/03/13	
p-Isopropyltoluene	9.7	0.50	ug/L	10		97	70-130			10/03/13	
sec-Butylbenzene	9.5	0.50	ug/L	10		95	70-130			10/03/13	
Styrene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
tert-Amyl Methyl Ether (TAME)	9.1	3.0	ug/L	10		91	70-130			10/03/13	
tert-Butyl alcohol (TBA)	12	2.0	ug/L	10		122	70-130			10/03/13	
tert-Butylbenzene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
Tetrachloroethene (PCE)	9.4	0.50	ug/L	10		94	70-130			10/03/13	
Toluene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
trans-1,2-Dichloroethene	9.9	0.50	ug/L	10		99	70-130			10/03/13	
trans-1,3-Dichloropropene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
Trichloroethene (TCE)	9.8	0.50	ug/L	10		98	70-130			10/03/13	
Trichlorofluoromethane	8.6	5.0	ug/L	10		86	70-130			10/03/13	
Vinyl Chloride	8.9	0.50	ug/L	10		89	70-130			10/03/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*97*	*70-130*			10/03/13	
Surrogate: Bromofluorobenzene	*4.9*			*5.0*		*98*	*70-130*			10/03/13	
Blank Spike Dup (A311594-BSD1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		100	70-130	0	30	10/03/13	
1,1,1-Trichloroethane	9.2	0.50	ug/L	10		92	70-130	0	30	10/03/13	
1,1,2,2-Tetrachloroethane	9.9	0.50	ug/L	10		99	70-130	1	30	10/03/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	8.9	10	ug/L	10		89	70-130	0	30	10/03/13	
1,1,2-Trichloroethane	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
1,1-Dichloroethane	10	0.50	ug/L	10		100	70-130	1	30	10/03/13	
1,1-Dichloroethene	9.7	0.50	ug/L	10		97	70-130	0	30	10/03/13	
1,1-Dichloropropene	9.3	0.50	ug/L	10		93	70-130	3	30	10/03/13	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		100	70-130	1	30	10/03/13	
1,2,4-Trichlorobenzene	9.6	0.50	ug/L	10		96	70-130	10	30	10/03/13	
1,2,4-Trimethylbenzene	9.8	0.50	ug/L	10		98	70-130	1	30	10/03/13	
1,2-Dichlorobenzene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A311594 Prepared: 10/2/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike Dup (A311594-BSD1)											
1,2-Dichloroethane	9.7	0.50	ug/L	10		97	70-130	1	30	10/03/13	
1,2-Dichloropropane	9.9	0.50	ug/L	10		99	70-130	1	30	10/03/13	
1,3,5-Trimethylbenzene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
1,3-Dichlorobenzene	9.8	0.50	ug/L	10		98	70-130	1	30	10/03/13	
1,3-Dichloropropane	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
1,4-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130	0	30	10/03/13	
2,2-Dichloropropane	9.9	0.50	ug/L	10		99	70-130	1	30	10/03/13	
2-Butanone	10	5.0	ug/L	10		100	70-130	4	30	10/03/13	
2-Chlorotoluene	9.7	0.50	ug/L	10		97	70-130	1	30	10/03/13	
2-Hexanone	9.2	10	ug/L	10		92	70-130	2	30	10/03/13	
4-Chlorotoluene	9.9	0.50	ug/L	10		99	70-130	1	30	10/03/13	
4-Methyl-2-pentanone	9.2	5.0	ug/L	10		92	70-130	3	30	10/03/13	
Acetone	10	10	ug/L	10		100	70-130	2	30	10/03/13	
Benzene	9.8	0.50	ug/L	10		98	70-130	1	30	10/03/13	
Bromobenzene	9.8	0.50	ug/L	10		98	70-130	1	30	10/03/13	
Bromochloromethane	9.8	0.50	ug/L	10		98	70-130	1	30	10/03/13	
Bromodichloromethane	9.5	0.50	ug/L	10		95	70-130	0	30	10/03/13	
Bromoform	9.2	0.50	ug/L	10		92	70-130	0	30	10/03/13	
Bromomethane	9.4	0.50	ug/L	10		94	70-130	2	30	10/03/13	
Carbon Tetrachloride	9.0	0.50	ug/L	10		90	70-130	0	30	10/03/13	
Chlorobenzene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
Chloroethane	9.1	0.50	ug/L	10		91	70-130	2	30	10/03/13	
Chloroform	10	0.50	ug/L	10		105	70-130	1	30	10/03/13	
Chloromethane	8.4	0.50	ug/L	10		84	70-130	18	30	10/03/13	
cis-1,2-Dichloroethene	9.9	0.50	ug/L	10		99	70-130	1	30	10/03/13	
cis-1,3-Dichloropropene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
Dibromochloromethane	9.8	0.50	ug/L	10		98	70-130	4	30	10/03/13	
Dibromomethane	9.6	0.50	ug/L	10		96	70-130	1	30	10/03/13	
Dichlorodifluoromethane	8.1	0.50	ug/L	10		81	70-130	1	30	10/03/13	
Dichloromethane	9.9	0.50	ug/L	10		99	70-130	2	30	10/03/13	
Di-isopropyl ether (DIPE)	10	3.0	ug/L	10		100	70-130	4	30	10/03/13	
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		102	70-130	4	30	10/03/13	
Ethylbenzene	9.2	0.50	ug/L	10		92	70-130	0	30	10/03/13	
Hexachlorobutadiene	9.3	0.50	ug/L	10		93	70-130	14	30	10/03/13	
Isopropylbenzene	9.7	0.50	ug/L	10		97	70-130	2	30	10/03/13	
m,p-Xylenes	18	0.50	ug/L	20		92	70-130	1	30	10/03/13	
Methyl-t-butyl ether	21	0.50	ug/L	20		104	70-130	1	30	10/03/13	
Naphthalene	9.3	0.50	ug/L	10		93	70-130	15	30	10/03/13	
n-Butylbenzene	9.4	0.50	ug/L	10		94	70-130	1	30	10/03/13	
n-Propylbenzene	9.6	0.50	ug/L	10		96	70-130	1	30	10/03/13	
o-Xylene	9.2	0.50	ug/L	10		92	70-130	0	30	10/03/13	
p-Isopropyltoluene	9.7	0.50	ug/L	10		97	70-130	1	30	10/03/13	
sec-Butylbenzene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
Styrene	9.5	0.50	ug/L	10		95	70-130	4	30	10/03/13	
tert-Amyl Methyl Ether (TAME)	10	3.0	ug/L	10		100	70-130	10	30	10/03/13	
tert-Butyl alcohol (TBA)	10	2.0	ug/L	10		103	70-130	17	30	10/03/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A311594										Prepared: 10/2/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike Dup (A311594-BSD1)											
tert-Butylbenzene	9.4	0.50	ug/L	10		94	70-130	2	30	10/03/13	
Tetrachloroethene (PCE)	9.4	0.50	ug/L	10		94	70-130	0	30	10/03/13	
Toluene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
trans-1,2-Dichloroethene	9.7	0.50	ug/L	10		97	70-130	2	30	10/03/13	
trans-1,3-Dichloropropene	9.5	0.50	ug/L	10		95	70-130	1	30	10/03/13	
Trichloroethene (TCE)	9.7	0.50	ug/L	10		97	70-130	1	30	10/03/13	
Trichlorofluoromethane	8.8	5.0	ug/L	10		88	70-130	2	30	10/03/13	
Vinyl Chloride	8.8	0.50	ug/L	10		88	70-130	1	30	10/03/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.9*			*5.0*		*98*	*70-130*			10/03/13	
Surrogate: Bromofluorobenzene	*4.9*			*5.0*		*99*	*70-130*			10/03/13	
EPA 525.2 - Quality Control											
Batch: A311693										Prepared: 10/3/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank (A311693-BLK1)											
Alachlor	ND	1.0	ug/L							10/04/13	
Atrazine	ND	0.50	ug/L							10/04/13	
Benzo(a)pyrene	ND	0.10	ug/L							10/04/13	
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							10/04/13	
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							10/04/13	
Bromacil	ND	10	ug/L							10/04/13	
Butachlor	ND	0.38	ug/L							10/04/13	
Diazinon	ND	0.25	ug/L							10/04/13	
Dimethoate	ND	10	ug/L							10/04/13	
Metolachlor	ND	0.50	ug/L							10/04/13	
Metribuzin	ND	0.50	ug/L							10/04/13	
Molinate	ND	2.0	ug/L							10/04/13	
Propachlor	ND	0.50	ug/L							10/04/13	
Simazine	ND	1.0	ug/L							10/04/13	
Thiobencarb	ND	1.0	ug/L							10/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*5.1*		*100*	*70-130*			10/04/13	
Blank Spike (A311693-BS1)											
Alachlor	0.49	1.0	ug/L	0.50		97	70-130			10/04/13	
Atrazine	0.44	0.50	ug/L	0.50		88	70-130			10/04/13	
Benzo(a)pyrene	0.091	0.10	ug/L	0.10		91	70-130			10/04/13	
Bis(2-ethylhexyl) adipate	3.5	3.0	ug/L	3.0		114	70-130			10/04/13	
Bis(2-ethylhexyl) phthalate	3.6	3.0	ug/L	3.0		118	70-130			10/04/13	
Bromacil	1.9	10	ug/L	2.0		94	70-130			10/04/13	
Butachlor	1.1	0.38	ug/L	1.3		91	70-130			10/04/13	
Diazinon	0.050	0.25	ug/L	0.050		100	70-130			10/04/13	
Dimethoate	0.43	10	ug/L	0.50		86	70-130			10/04/13	
Metolachlor	2.5	0.50	ug/L	2.5		100	70-130			10/04/13	
Metribuzin	2.3	0.50	ug/L	2.5		91	70-130			10/04/13	
Molinate	2.8	2.0	ug/L	2.5		113	70-130			10/04/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A311693										Prepared: 10/3/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank Spike (A311693-BS1)											
Propachlor	2.9	0.50	ug/L	2.5		114	70-130			10/04/13	
Simazine	0.32	1.0	ug/L	0.35		92	70-130			10/04/13	
Thiobencarb	0.47	1.0	ug/L	0.50		94	70-130			10/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*5.0*		*99*	*70-130*			10/04/13	
Blank Spike Dup (A311693-BSD1)											
Alachlor	0.50	1.0	ug/L	0.50		99	70-130	2	30	10/04/13	
Atrazine	0.47	0.50	ug/L	0.50		94	70-130	6	30	10/04/13	
Benzo(a)pyrene	0.088	0.10	ug/L	0.10		88	70-130	4	30	10/04/13	
Bis(2-ethylhexyl) adipate	3.2	3.0	ug/L	3.0		105	70-130	9	30	10/04/13	
Bis(2-ethylhexyl) phthalate	3.2	3.0	ug/L	3.0		108	70-130	10	30	10/04/13	
Bromacil	2.2	10	ug/L	2.0		110	70-130	15	30	10/04/13	
Butachlor	1.3	0.38	ug/L	1.2		101	70-130	9	30	10/04/13	
Diazinon	0.044	0.25	ug/L	0.050		88	70-130	13	30	10/04/13	
Dimethoate	0.49	10	ug/L	0.50		99	70-130	14	30	10/04/13	
Metolachlor	2.6	0.50	ug/L	2.5		104	70-130	4	30	10/04/13	
Metribuzin	2.7	0.50	ug/L	2.5		106	70-130	15	30	10/04/13	
Molinate	2.7	2.0	ug/L	2.5		107	70-130	6	30	10/04/13	
Propachlor	2.9	0.50	ug/L	2.5		116	70-130	1	30	10/04/13	
Simazine	0.34	1.0	ug/L	0.35		97	70-130	5	30	10/04/13	
Thiobencarb	0.53	1.0	ug/L	0.50		106	70-130	11	30	10/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.3*			*5.0*		*106*	*70-130*			10/04/13	
Matrix Spike (A311693-MS1), Source: A3I1912-02											
Alachlor	0.51	1.0	ug/L	0.50	ND	102	70-130			10/04/13	
Atrazine	0.48	0.50	ug/L	0.50	ND	95	70-130			10/04/13	
Benzo(a)pyrene	0.12	0.10	ug/L	0.10	ND	122	70-130			10/04/13	
Bis(2-ethylhexyl) adipate	3.1	3.0	ug/L	3.0	ND	104	70-130			10/04/13	
Bis(2-ethylhexyl) phthalate	3.7	3.0	ug/L	3.0	ND	122	70-130			10/04/13	
Bromacil	2.3	10	ug/L	2.0	ND	118	70-130			10/04/13	
Butachlor	1.4	0.38	ug/L	1.2	ND	109	70-130			10/04/13	
Diazinon	0.044	0.25	ug/L	0.050	ND	88	70-130			10/04/13	
Dimethoate	0.58	10	ug/L	0.50	ND	117	70-130			10/04/13	
Metolachlor	2.7	0.50	ug/L	2.5	ND	109	70-130			10/04/13	
Metribuzin	2.9	0.50	ug/L	2.5	ND	115	70-130			10/04/13	
Molinate	3.0	2.0	ug/L	2.5	ND	118	70-130			10/04/13	
Propachlor	3.1	0.50	ug/L	2.5	ND	124	70-130			10/04/13	
Simazine	0.37	1.0	ug/L	0.35	ND	107	70-130			10/04/13	
Thiobencarb	0.51	1.0	ug/L	0.50	ND	101	70-130			10/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.3*			*5.0*		*107*	*70-130*			10/04/13	
EPA 531.1 - Quality Control											
Batch: A311765										Prepared: 10/6/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A311765-BLK1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 531.1 - Quality Control												
Batch: A311765										Prepared: 10/6/2013		
Prep Method: EPA 531.1										Analyst: AAR		
Blank (A311765-BLK1)												
3-Hydroxycarbofuran	ND	2.0	ug/L							10/11/13		
Aldicarb	ND	2.0	ug/L							10/11/13		
Aldicarb Sulfone	ND	2.0	ug/L							10/11/13		
Aldicarb Sulfoxide	ND	2.0	ug/L							10/11/13		
Carbaryl	ND	2.0	ug/L							10/11/13		
Carbofuran	ND	2.0	ug/L							10/11/13		
Methomyl	ND	2.0	ug/L							10/11/13		
Oxamyl	ND	2.0	ug/L							10/11/13		
Blank Spike (A311765-BS1)												
3-Hydroxycarbofuran	4.5	2.0	ug/L	4.2		109	80-120			10/11/13		
Aldicarb	4.2	2.0	ug/L	4.2		101	80-120			10/11/13		
Aldicarb Sulfone	4.6	2.0	ug/L	4.2		110	80-120			10/11/13		
Aldicarb Sulfoxide	4.0	2.0	ug/L	4.2		97	80-120			10/11/13		
Carbaryl	4.4	2.0	ug/L	4.2		105	80-120			10/11/13		
Carbofuran	4.4	2.0	ug/L	4.2		105	80-120			10/11/13		
Methomyl	4.2	2.0	ug/L	4.2		100	80-120			10/11/13		
Oxamyl	5.1	2.0	ug/L	4.2		123	80-120			10/11/13	BS	***High***
Blank Spike Dup (A311765-BSD1)												
3-Hydroxycarbofuran	4.4	2.0	ug/L	4.2		105	80-120	4	20	10/11/13		
Aldicarb	4.2	2.0	ug/L	4.2		101	80-120	0	20	10/11/13		
Aldicarb Sulfone	4.3	2.0	ug/L	4.2		103	80-120	6	20	10/11/13		
Aldicarb Sulfoxide	4.0	2.0	ug/L	4.2		95	80-120	2	20	10/11/13		
Carbaryl	4.4	2.0	ug/L	4.2		105	80-120	1	20	10/11/13		
Carbofuran	4.3	2.0	ug/L	4.2		102	80-120	3	20	10/11/13		
Methomyl	4.1	2.0	ug/L	4.2		99	80-120	1	20	10/11/13		
Oxamyl	4.9	2.0	ug/L	4.2		117	80-120	5	20	10/11/13		
Matrix Spike (A311765-MS1), Source: A3J0471-01												
3-Hydroxycarbofuran	4.2	2.0	ug/L	4.2	ND	100	65-135			10/11/13		
Aldicarb	4.7	2.0	ug/L	4.2	ND	114	65-135			10/11/13		
Aldicarb Sulfone	4.8	2.0	ug/L	4.2	ND	102	65-135			10/11/13		
Aldicarb Sulfoxide	4.7	2.0	ug/L	4.2	ND	99	65-135			10/11/13		
Carbaryl	4.2	2.0	ug/L	4.2	ND	101	65-135			10/11/13		
Carbofuran	4.0	2.0	ug/L	4.2	ND	96	65-135			10/11/13		
Methomyl	4.4	2.0	ug/L	4.2	ND	106	65-135			10/11/13		
Oxamyl	5.5	2.0	ug/L	4.2	ND	122	65-135			10/11/13		
EPA 547 - Quality Control												
Batch: A311409										Prepared: 9/27/2013		
Prep Method: EPA 547										Analyst: RJB		
Blank (A311409-BLK1)												
Glyphosate	ND	25	ug/L							09/27/13		
Surrogate: AMPA	*110*			*100*		*109*	*70-130*			09/27/13		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 547 - Quality Control											
Batch: A311409										Prepared: 9/27/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank Spike (A311409-BS1)											
Glyphosate	120	25	ug/L	100		116	70-130			09/27/13	
Surrogate: AMPA	*100*			*100*		*104*	*70-130*			09/27/13	
Blank Spike Dup (A311409-BSD1)											
Glyphosate	100	25	ug/L	100		105	70-130	10	30	09/27/13	
Surrogate: AMPA	*110*			*100*		*106*	*70-130*			09/27/13	
Matrix Spike (A311409-MS1), Source: A3I1911-01											
Glyphosate	110	25	ug/L	100	ND	104	70-130			09/28/13	
Surrogate: AMPA	*100*			*100*		*101*	*70-130*			09/28/13	
Matrix Spike (A311409-MS2), Source: A3I2214-01											
Glyphosate	110	25	ug/L	100	ND	108	70-130			09/28/13	
Surrogate: AMPA	*110*			*100*		*106*	*70-130*			09/28/13	
Matrix Spike Dup (A311409-MSD1), Source: A3I1911-01											
Glyphosate	110	25	ug/L	100	ND	107	70-130	3	30	09/28/13	
Surrogate: AMPA	*110*			*100*		*106*	*70-130*			09/28/13	
EPA 548.1 - Quality Control											
Batch: A311487										Prepared: 9/30/2013	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A311487-BLK1)											
Endothall	ND	45	ug/L							10/02/13	
Blank Spike (A311487-BS1)											
Endothall	14	45	ug/L	20		69	60-111			10/02/13	
Blank Spike Dup (A311487-BSD1)											
Endothall	14	45	ug/L	20		72	60-111	4	46	10/02/13	
Matrix Spike (A311487-MS1), Source: A3I1912-01											
Endothall	3.9	45	ug/L	20	ND	20	10-122			10/02/13	
EPA 549.2 - Quality Control											
Batch: A311486										Prepared: 9/30/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A311486-BLK1)											
Diquat	ND	4.0	ug/L							10/03/13	
Blank Spike (A311486-BS1)											
Diquat	3.5	4.0	ug/L	4.0		88	70-130			10/03/13	
Blank Spike Dup (A311486-BSD1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 549.2 - Quality Control											
Batch: A311486										Prepared: 9/30/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Blank Spike Dup (A311486-BSD1)											
Diquat	3.5	4.0	ug/L	4.0		88	70-130	1	30	10/03/13	
Matrix Spike (A311486-MS1), Source: A3I1911-01											
Diquat	3.1	4.0	ug/L	4.0	ND	77	70-130			10/03/13	
Matrix Spike (A311486-MS2), Source: A3I1911-02											
Diquat	3.4	4.0	ug/L	4.0	ND	86	70-130			10/03/13	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of California - ELAP	1180	State of Nevada	CA000792009A
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA
State of California - NELAP	04227CA	State of Oregon	4017
State of Washington	C997	State of Oregon - NWTPH	4021

BSK is not accredited under the NELAC program for the following parameters:

Boron
Silica (SiO2)
Strontium
Threshold Odor

A3I2214

California American Water

Calif3295

09262013

Turnaround: Standard

Due Date: 10/11/2013

Printed: 09/26/2013 18:12:47

Page 1 of 1

BSK Associates
Engineers & Laboratories
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

A3I2214
Calif3295

Appendix G 13
10

*Required Fields

Temp: 4.4

Company/Client Name*:	Report Attention*:	Invoice To*:	Phone*:	Fax*:
California American Water-Monterey	Travis Peterson Additional cc's: Sarp Sekeroglu	PO#:	831-646-329 E-mail*: travis.peterson@amwater.com & ssekeroglu@rbf.com	

Address*:	City*:	State*:	Zip*:
PO Box 951	Monterey	CA	93942

Project: Water Quality Analysis
Project #:

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type:

How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail

Sampler Name (Printed/Signature)*: Sarp Sekeroglu

TAT* **Surcharge
☒ Standard - 10 Business Days
☐ **Rush: Date Needed

Regulatory Carbon Copies
CDPH ☐ ☐ Fresno Co
Merced Co ☐ ☐ Tulare Co
Madera Co ☐ ☐ Other:

Regulatory Compliance
☐ EDT to California DPH
System Number*:
☐ Geotracker #:

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	Alk,Hardness,MBAS,Color, Odor,TDS,pH,Turbidity,EC	Dissolved Metals (lab to filter) Ba,B,Ca,Cu,Fe,Mg,K,Si,Na,St	Total Metals: Al, As, Fe, Mn, Zn	Dissolved: Fl, Bromide,Chloride,P, ortho-P,Sulfate, Mass Balance	Dissolved: TKN, Ammonia, Nitrite	Nitrate +Nitrite as N, NO3	EPA 524 ,504, 505, 515, 525, 531, 547, 548, 549		EXT-Lithium, EXT-Dioxin,EXT-Tritium, EXT-Dissolved Iodide
1	As listed in the attached sheet	9/24	3:00P		seawater salinity levels	X	X	X	X	X	X	X		X

Ok to run out of hold time MA 9/26/13

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Sarp Sekeroglu	RBF	9/25			
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Received for Lab by: (Signature and Printed Name)		Date: 9/26/13	Time: 1150	Payment Received at Delivery: Date: Amount: PIA#:	Check / Cash Init.

Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier:
Cooling Method: Wet Blue None
Custody Seal: Y N
Chilling Process Begun: Y N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

SR-FL-0012-05 Analytical Chain of Custody

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info

Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM: Renea By/Time:	Yes No NA

Bottles Received

"—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1					
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—	2C,1B,1A					
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—	2B					
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—	2C,1A,1B					
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2C,2A					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	1V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH ≤ 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—	1A					
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—	3V					
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

9.26.13

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Rec: Out of hold time for 48hr tests

Labeled by: NR @ 1814 Labels checked by: [illegible] @ 1819 RUSH Paged by: ____ @

External

A3I2214

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 21, 2013

Mr. Michael Ng
BSK Analytical Laboratories
1414 Stanislaus St.
Fresno, CA 93706

RE: Project: A3I2214
Pace Project No.: 30104560

Dear Mr. Ng:
Enclosed are the analytical results for sample(s) received by the laboratory on October 07, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: A3I2214
Pace Project No.: 30104560

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE SUMMARY

Project: A3I2214
Pace Project No.: 30104560

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30104560001	**A3I2214-01**	Water	09/24/13 15:00	10/07/13 09:45

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SAMPLE ANALYTE COUNT

Project: A3I2214
Pace Project No.: 30104560

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30104560001	**A3I2214-01**	EPA 906.0	SLA	1	PASI-PA

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PROJECT NARRATIVE

Project: A3I2214
Pace Project No.: 30104560

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: BSK Analytical Laboratories
Date: October 21, 2013

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: A3I2214
Pace Project No.: 30104560

Sample: A3I2214-01 **Lab ID: 30104560001** Collected: 09/24/13 15:00 Received: 10/07/13 09:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**-68.2 ± 108 (199)**	pCi/L	10/12/13 22:15	10028-17-8	

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QUALITY CONTROL DATA

Project: A3I2214
Pace Project No.: 30104560

QC Batch: RADC/17374 Analysis Method: EPA 906.0
QC Batch Method: EPA 906.0 Analysis Description: 906.0 Tritium
Associated Lab Samples: 30104560001

METHOD BLANK: 641961 Matrix: Water
Associated Lab Samples: 30104560001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	89.3 ± 124 (208)	pCi/L	10/12/13 14:06	

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QUALIFIERS

Project: A3I2214
Pace Project No.: 30104560

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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BSK Analytical Laboratories
Engineering Laboratories

SUBCONTRACT ORDER

A3I2214

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Radiochem
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600
Fax: (724) 722-5208
Turnaround (Days): Standard
QC Deliverables: I Std III IV

30104560

Sample ID	Samp Desc	Comments	Sample Date
A3I2214-01	Seawater		09/24/2013 15:00 001

Matrix: Water

Analysis 250 mL AG w/ NONE
EXT-Tritium

High salinity sample.

Non preserved glass container

Released By 9.30.13 Date Received By 10-2-13 0945 Date

Released By Date Received By Date

Sample Condition Upon Receipt

Pace Analytical

Client Name: BSK

Project # 30104560

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 1Z93X921035674985799

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used 5 6 7 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature NA Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10-7-13

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WA		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☑No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed: JFH / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 10/8/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

page 2

Project Number: 30104560

Client Name: BSK

Item No.	Matrix Code	Glass Jar (1L / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radcham Nalgene (125 / 250 / 500 / 1L)	Radcham Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
90	WT	1																						

QA Assessment Spreadsheet
PACE Analytical Services

Quality Control Sample Performance Assessment

Analyst:	SLA		
Date:	10/14/2013	Method:	EPA 906.0
Worklist:	17374	SOP:	PGH-R-021
Matrix:	DW	MB Sample ID:	641561

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	59.2800	123.3000	209.2000	98.71000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	10/13/13 4:23	10/13/13 5:24				
Spike I.D.:	19-003	19-003				
Spike Concentration (pCi/L):	2539.608	2539.642				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.108	0.107				
Target Conc. (pCi/L, g, F):	2392.086	2173.360				
1.96 Sigma Uncertainty (Calculated):	65.639	59.628				
Result (pCi/L, g, F):	2165.150	1992.980				
1.96 Sigma Unc:	224.400	211.400				
% Recovery:	90.55%	91.70%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y
Analyte:	Tritium
Sample I.D.:	LCS17374
Duplicate Sample I.D.:	LCSD17374
Sample Result (pCi/L, g, F):	2165.1500
1.96 Sigma Unc:	224.4000
Sample Duplicate Result (pCi/L, g, F):	1992.9800
Duplicate Sample 1.96 Sigma Unc.:	211.4000
Either results below MDC?	N
Relative Percent Difference:	8.33%
Assessment:	Pass
% RPD Limit:	25.00%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Sample Matrix Spike Control Assessment

Analyte:	Tritium	Tritium
Sample Collection Date:	10/3/2013	9/24/2013
Sample I.D.	30104620001	30104590001
Sample MS I.D.	30104620001MS	30104590001MS
Sample MSD I.D.		
Spike I.D.:	19-003	19-003
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2541.770	2548.221
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):	0.1012	0.1015
MS Target Conc.(pCi/L, g, F):	5027.223	5019.173
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike uncertainty (calculated):	137.947	137.399
MSD Spike uncertainty (calculated):		
Sample Result:	30.950	-56.020
Sample 1.96 Sigma Unc.:	118.900	107.100
Sample Matrix Spike Result:	4913.240	4725.590
Sample MS 1.96 Sigma Unc.:	305.100	301.000
Sample Matrix Spike Duplicate Result:		
Sample MSD 1.96 Sigma Unc.:		
MS % Recovery:	97.08%	95.53%
MSD % Recovery:		
MS Assessment:	Pass	Pass
MSD Assessment:		
MS/MSD Upper % Recovery Limits:	125.00%	125.00%
MS/MSD Lower % Recovery Limits:	75.00%	75.00%

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

Qualifiers

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www.pacelabs.com

1638 Roseytown Road
Greensburg, PA 15601
(724)850-5600

SAMPLE ACKNOWLEDGMENT

Samples Submitted By: BSK Analytical Laboratories
Client Project ID: A3I2214
Client PO#:

Pace Project Manager: Jacquelyn Collins
Phone (724)850-5600
jacquelyn.collins@pacelabs.com
Pace Analytical Project ID: 30104560
Samples Received: October 7, 2013 09:45 AM
Estimated Completion: October 28, 2013

CC: Mr. Michael Ng

Customer Sample ID	Pace Analytical Lab ID	Matrix	Date/Time Collected	Method
A3I2214-01	30104560001	Water	09/24/13 15:00	906.0 Tritium

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, Inc.

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1638 Roseytown Road
Greensburg, PA 15601
(724)850-5600

SAMPLE ACKNOWLEDGMENT

Analyte List

Customer Sample ID	Method	Compound	Reporting Limit	Units
A312214-01	906.0 Tritium	Tritium		

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Pace Analytical™

www.pacelabs.com

Report Prepared for:

Michael Ng
BSK Analytical Laboratories
1414 Stanislaus Street
Fresno CA 93706

REPORT OF LABORATORY ANALYSIS FOR 2,3,7,8-TCDD

Report Summary:

This report contains results of one drinking water sample analyzed to determine 2,3,7,8-TCDD content. This sample was analyzed according to Method 1613 by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

Report Prepared Date:

October 15, 2013

Report Information:

Pace Project #: 10243972
Sample Receipt Date: 10/01/2013
Client Project #: A3I2214
Client Sub PO #: N/A
State Cert #: 01155CA

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Brittany Hansen, your Pace Project Manager.

This report has been reviewed by:

Brittany J. Hansen

October 15, 2013

Brittany Hansen, Project Manager
(612) 607-6429
(612) 607-6444 (fax)
brittany.hansen@pacelabs.com

ACCREDITED IN ACCORDANCE WITH nelac

Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE	MN002
Colorado	MN00064	New Mexico	MN00064
Connecticut	PH-0256	New York (NEL	11647
EPA Region 5	WD-15J	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennesee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	03086	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

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the [illegible] of [illegible] Inc.

1024397

BSK Analytical Laboratories
Engineering Laboratories

1131

SUBCONTRACT ORDER

A3I2214

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Dioxin
1700 Elm Street S.E. Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Comments	Sample Date
A3I2214-01	Seawater		09/24/2013 15:00

Matrix: Water

Analysis (1) L AG W / NONE
EXT-Dioxin-DW matrix, EPA 1613 2,3,7,8-TCDD

High salinity sample.

T=0.7C

Released By	Date	Received By	Date
9.30.13		CSI/PACE	10-1-13 858
Released By	Date	Received By	Date

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 19Sep2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.07	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: BSK

Project #: WO#: 10243972

10243972

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 7968 6079 8922

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☐ Yes ☑ No

Thermom. Used: ☐ 80512447 ☐ 72337080 ☐ B88A912167504 ☑ B88A9132521491 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 0.9 **Cooler Temp Corrected (°C):** 0.7 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** −0.2 **Date and Initials of Person Examining Contents:** CJT 10/1/13

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: WT				
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: BH2 **Date:** 10/2/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical™

Pace AnalyticalServices, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Drinking Water Analysis Results
2,3,7,8-TCDD -- USEPA Method 1613B

Sample ID.....A3I2214-01 Seawater
Client..... BSK Analytical Laboratories
Lab Sample ID..... 10243972001

Date Collected.....09/24/2013
Date Received.....10/01/2013
Date Extracted.....10/03/2013

	Sample A3I2214-01 Seawa	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	**ND**	ND	--	--
RL	5.0 pg/L	5.0 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	121%	94%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			25.6%	
IS Recovery	**62%**	68%	70%	59%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	**73%**	96%	83%	67%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	F131011A_10	R131008A_09	R131008A_07	F131009A_13
Analysis Date	10/11/2013	10/08/2013	10/08/2013	10/09/2013
Analysis Time	10:40	16:56	15:47	17:23
Analyst	CVS	CVS	CVS	SMT
Volume	1.011L	1.005L	1.005L	1.014L
Dilution	NA	NA	NA	NA
ICAL Date	10/09/2013	07/19/2013	07/19/2013	10/09/2013
CCAL Filename	F131011A_05	R131008A_06	R131008A_06	F131009A_06

! = Outside the Control Limits
ND = Not Detected
RL = Reporting Limit
Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A
RPD = Relative Percent Difference of Lab Spike Recoveries
IS = Internal Standard [2,3,7,8-TCDD-$^{13}C_{12}$]
CS = Cleanup Standard [2,3,7,8-TCDD-$^{37}Cl_4$]

Analyst: Chuck Swepson

Project No.....10243972

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Certificate of Analysis

Report Date: 11/06/13 13:57
Received Date: 10/01/13 08:50
Turnaround Time: Normal

Project: A3I2214

Phones: (559) 497-2888
Fax: (559) 485-6935

P.O. #:

Attn: Michael Ng

Client: BSK Analytical Laboratories
550 West Locust Avenue
Fresno, CA 93650

Dear Michael Ng :

Enclosed are the results of analyses for samples received 10/1/2013 with the Chain of Custody document. The samples were received in good condition, at 3.0 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 3J01002-01 | Sample ID: A3I2214-01 | Matrix: Water
Sampled by: Client | Sampled: 09/24/13 15:00

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lithium, Total	27	1.4	10	ug/l	1	EPA 200.7	10/3/13	10/4/13 10:39	W3J0195	
Iodide, Dissolved	64	0.21	10	ug/l	1	EPA 9056A	11/5/13	11/5/13 19:57	W3K0192	Q-14

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Quality Control Section

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W3K0192 - EPA 9056A

Blank (W3K0192-BLK1) — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		ND		ug/l					

LCS (W3K0192-BS1) — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		35.3		ug/l	40.0	88	85-115		

Matrix Spike (W3K0192-MS1) — Source: 3J15074-01 — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	179	368		ug/l	200	94	80-120		

Matrix Spike Dup (W3K0192-MSD1) — Source: 3J15074-01 — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	179	355		ug/l	200	88	80-120	3	20

Metals by EPA 200 Series Methods - Quality Control

Batch W3J0195 - EPA 200.7

Blank (W3J0195-BLK1) — Prepared: 10/03/13 Analyzed: 10/04/13 10:37

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		ND		ug/l					

LCS (W3J0195-BS1) — Prepared: 10/03/13 Analyzed: 10/04/13 10:34

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		972		ug/l	1000	97	85-115		

Matrix Spike (W3J0195-MS1) — Source: 3J02035-01 — Prepared: 10/03/13 Analyzed: 10/04/13 10:59

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	11.7	1040		ug/l	1000	103	70-130		

Matrix Spike Dup (W3J0195-MSD1) — Source: 3J02035-01 — Prepared: 10/03/13 Analyzed: 10/04/13 11:02

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	11.7	1030		ug/l	1000	102	70-130	0.8	30

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Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature
Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

O-14	This analysis was requested by the client after the holding time was exceeded.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

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BSK Analytical Laboratories
Engineers & Laboratories

SUBCONTRACT ORDER

A3I2214

3J01002

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Weck Laboratories, Inc.
14859 E Clark Avenue
City of Industry, CA 91745-1396
Phone :(626) 336-2139
Fax: (626) 336-2634
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc	Comments	Sample Date
A3I2214-01	Seawater		09/24/2013 15:00
Matrix: Water		High salinity sample.	
	Analysis 250 mL P w/ NONE		
	EXT-Iodide	Dissolved	
	EXT-Miscellaneous 500 mL P w/ HNO3	Lithium	

Released By	Date	Received By	Date
[signature]	9/30/13	Ontrac	
Ontrac		Jaime Gomez	10/1/13 08:50 3.0°C
Released By	Date	Received By	Date

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Sample Receipt Acknowledgement

WORK ORDER: 3J01002 | Printed: 10/2/2013 3:00:24PM

Client: BSK Analytical Laboratories | Project Manager: Kim G Tu
Project: Metals | Project Number: A3I2214

Report To:
BSK Analytical Laboratories
Michael Ng
550 West Locust Avenue
Fresno, CA 93650
Phone: (559) 497-2888
Fax: (559) 485-6935

Invoice To:
BSK Analytical Laboratories
Accounts Payable - Anise Foote
550 West Locust Avenue
Fresno, CA 93650
Phone :(559) 497-2888
Fax: (559) 485-6935

Date Due: **10/15/13 15:00 (10 day TAT)**

Received By: Jaime Gomez | Date Received: 10/01/13 08:50
Logged In By: Jaime Gomez | Date Logged In: 10/01/13 08:57

Samples Received at:	**3°C**	All containers intact:	**Yes**	Chain of custody completed:	**Yes**
Number of Ice chests/packages:	**1**	Custody seals presen	**NA**	Sample labels & COC agree:	**Yes**
Appropriate Sample Containers:	**Yes**	Custody seals intact:	**NA**	Samples preserved properly:	**Yes**
		Samples received on ice	**Yes**	Sample volume sufficient:	**Yes**
		Custody Seals	**No**	Sufficient holding time for all tests:	**Yes**

Analysis	TAT	Expires	Comments
3J01002-01 A3I2214-01 [Water] Sampled 09/24/13 15:00 Pacific			
Iodide water 9056M	10	10/22/13 15:00	
200.7 Li_diss	10	03/23/14 15:00	

Comments:

Kim Tu — 10/2/2013
Authorized Signature — Date

Note:
If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Fresno Analytical Laboratory
1414 Stanislaus St.
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (Fax)

Travis Peterson
California American Water
836 Carmel Ave.
Monterey, CA 93940

RE: Report for A3I2260 Water Quality Analysis

Dear Travis Peterson,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 9/27/2013. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2003 NELAC Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an “as received” basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michael Ng, Project Manager

If additional clarification of any information is required, please contact your Project Manager, Michael Ng , at (800) 877-8310 or (559) 497-2888 x118.

Case Narrative

Project and Report Details		Invoice Details	
Client:	California American Water	**Invoice To:**	California American Water
Report To:	Travis Peterson	**Invoice Attn:**	Accounts Payable
Project #:	Water Quality Analysis	**Project PO#:**	-
Received:	9/27/2013 - 08:30		
Report Due:	10/11/2013		

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt ºC: 12.5

Containers Intact
COC/Labels Agree
Received On Wet Ice
Packing Material - Bubble Wrap
Sample(s) were received in temperature range.
Initial receipt at BSK-SAC

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

BS	Blank spike recoveries did not meet acceptance limits.
BS1.0	Blank spike recovery for this analyte was biased high; no material impact on reported result as sample is ND for this parameter.
DL01	Sample required dilution due to matrix or high concentration of non-target analyte.
HT04	Holding time exceeded. Sample analysis performed past holding time.
HT08	Holding time exceeded. The holding time for this analysis is a recommendation and is not mandated by any state or federal agency.
MS02	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
MS1.0	Matrix spike recoveries exceed control limits. No material impact as Blank Spike recoveries are within method control limits.
SR02	Surrogate recovery was above acceptance limits. No target analytes were detected in the sample.
X01	Sample filtered prior to analysis per client request

Report Distribution

Recipient(s)	Report Format
Travis Peterson	Final.rpt
Sarp Sekeroglu	Final.rpt

Certificate of Analysis

Sample ID: A3I2260-01
Sampled By: Sarp Sekeroglu
Sample Description: Water Samples

Sample Date - Time: 09/25/13 - 17:00
Matrix: Water
Sample Type: Grab

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO3	SM 2320 B	**150**	3.0	mg/L	1	A311377	09/27/13	09/27/13	
Bicarbonate as CaCO3	SM 2320 B	**150**	3.0	mg/L	1	A311377	09/27/13	09/27/13	
Carbonate as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A311377	09/27/13	09/27/13	
Hydroxide as CaCO3	SM 2320 B	ND	3.0	mg/L	1	A311377	09/27/13	09/27/13	
Ammonia as N	SM 4500-NH3 G	**0.78**	0.10	mg/L	1	A311778	10/07/13	10/08/13	X01
Bromide	EPA 300.1	**65**	5.0	mg/L	1000	A311561	10/02/13	10/02/13	
Surrogate: Dichloroacetate	EPA 300.1	108 %	*Acceptable range: 90-115 %*						
Chloride	EPA 300.0	**19000**	500	mg/L	500	A311404	09/27/13	09/27/13	
Color, Apparent	SM 2120 B	**20**	1.0	CU	1	A311368	09/27/13 15:37	09/27/13	
Conductivity @ 25C	SM 2510 B	**43000**	1.0	umhos/cm	1	A311377	09/27/13	09/27/13	
Fluoride	EPA 300.0	ND	0.50	mg/L	5	A311580	10/02/13	10/02/13	DL01
Mass Balance-Anions		**580**		meq/L					
Mass Balance-Dissolved Cations		**570**		meq/L					
MBAS, Calculated as LAS, mol wt 340	SM 5540 C	ND	0.050	mg/L	1	A311369	09/27/13 15:46	09/27/13	
Nitrate as NO3	EPA 300.0	ND	500	mg/L	500	A311404	09/27/13 19:21	09/27/13	DL01, HT04
Nitrite as N	EPA 300.0	ND	25	mg/L	500	A311404	09/27/13 19:21	09/27/13	DL01, HT04
Threshold Odor	SM 2150 B	**10**	1.0	T.O.N.	1	A311368	09/27/13 15:37	09/27/13	HT08
Orthophosphate as P	SM 4500-P E	**0.042**	0.010	mg/L	1	A311398	09/27/13 15:25	09/27/13	
pH (1)	SM 4500-H+ B	**7.7**		pH Units	1	A311377	09/27/13	09/27/13	
pH Temperature in °C		**21.9**							
Phosphorus - Dissolved (1)	EPA 365.4	ND	0.10	mg/L	1	A311800	10/07/13	10/09/13	
Sulfate as SO4	EPA 300.0	**2500**	1000	mg/L	500	A311404	09/27/13	09/27/13	
Total Dissolved Solids	SM 2540C	**34000**	5.0	mg/L	1	A311575	10/02/13	10/07/13	
Total Kjeldahl Nitrogen - Dissolved (1)	EPA 351.2	ND	1.0	mg/L	1	A311800	10/07/13	10/09/13	
Total Oxidizable Nitrogen, as N - Dissolved (1)	SM 4500-NO3 F	ND	0.10	mg/L	1	A311810	10/07/13	10/07/13	
Turbidity	SM 2130 B	**5.1**	0.10	NTU	1	A311368	09/27/13 15:37	09/27/13	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Aluminum	EPA 200.7	**0.068**	0.050	mg/L	1	A311463	10/01/13	10/05/13	
Arsenic	EPA 200.8	**13**	4.0	ug/L	2	A311463	10/01/13	10/09/13	
Barium - Dissolved (1)	EPA 200.7	ND	0.50	mg/L	10	A311497	10/01/13	10/04/13	
Boron - Dissolved (1)	EPA 200.7	**4.3**	1.0	mg/L	10	A311497	10/01/13	10/04/13	
Calcium	EPA 200.7	**340**	0.10	mg/L	1	A311463	10/01/13	10/05/13	
Calcium - Dissolved (1)	EPA 200.7	**400**	1.0	mg/L	10	A311497	10/01/13	10/04/13	
Copper	EPA 200.8	**54**	10	ug/L	2	A311463	10/01/13	10/09/13	
Hardness as CaCO3	SM 2340B	**5300**	0.41	mg/L					
Iron	EPA 200.7	**0.65**	0.030	mg/L	1	A311463	10/01/13	10/05/13	
Iron - Dissolved (1)	EPA 200.7	ND	0.30	mg/L	10	A311497	10/01/13	10/04/13	
Magnesium	EPA 200.7	**1100**	0.10	mg/L	1	A311463	10/01/13	10/05/13	

Certificate of Analysis

Sample ID: A3I2260-01
Sampled By: Sarp Sekeroglu
Sample Description: Water Samples

Sample Date - Time: 09/25/13 - 17:00
Matrix: Water
Sample Type: Grab

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Magnesium - Dissolved (1)	EPA 200.7	**1200**	1.0	mg/L	10	A311497	10/01/13	10/04/13	
Manganese	EPA 200.7	**1.5**	0.010	mg/L	1	A311463	10/01/13	10/05/13	
Manganese - Dissolved (1)	EPA 200.7	**1.7**	0.10	mg/L	10	A311497	10/01/13	10/04/13	
Potassium - Dissolved (1)	EPA 200.7	**380**	20	mg/L	10	A311497	10/01/13	10/04/13	
Silica (SiO2) - Dissolved (1)	EPA 200.7	**25**	2.0	mg/L	10	A311497	10/01/13	10/04/13	
Sodium - Dissolved (1)	EPA 200.7	**10000**	100	mg/L	100	A311497	10/01/13	10/05/13	
Strontium - Dissolved (1)	EPA 200.8	**7400**	10	ug/L	10	A311497	10/01/13	10/08/13	
Zinc	EPA 200.7	ND	0.050	mg/L	1	A311463	10/01/13	10/05/13	

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
EDB and DBCP by GC-ECD									
Dibromochloropropane (DBCP)	EPA 504.1	ND	0.010	ug/L	1	A311476	09/30/13	10/02/13	
Ethylene Dibromide (EDB)	EPA 504.1	ND	0.020	ug/L	1	A311476	09/30/13	10/02/13	
Surrogate: TCMX	EPA 504.1	146 %	*Acceptable range: 70-130 %*			*Qualifiers -*	*SR02*		
Organohalide Pesticides and PCBs by GC-ECD									
Aldrin	EPA 505	ND	0.075	ug/L	1	A311476	09/30/13	10/02/13	
Chlordane	EPA 505	ND	0.10	ug/L	1	A311476	09/30/13	10/02/13	
Chlorothalonil	EPA 505	ND	5.0	ug/L	1	A311476	09/30/13	10/02/13	
Dieldrin	EPA 505	ND	0.020	ug/L	1	A311476	09/30/13	10/02/13	
Endrin	EPA 505	ND	0.10	ug/L	1	A311476	09/30/13	10/02/13	
Heptachlor	EPA 505	ND	0.010	ug/L	1	A311476	09/30/13	10/02/13	
Heptachlor Epoxide	EPA 505	ND	0.010	ug/L	1	A311476	09/30/13	10/02/13	
Hexachlorobenzene	EPA 505	ND	0.50	ug/L	1	A311476	09/30/13	10/02/13	
Hexachlorocyclopentadiene	EPA 505	ND	1.0	ug/L	1	A311476	09/30/13	10/02/13	
Lindane	EPA 505	ND	0.20	ug/L	1	A311476	09/30/13	10/02/13	
Methoxychlor	EPA 505	ND	10	ug/L	1	A311476	09/30/13	10/02/13	
PCB Aroclor Screen	EPA 505	ND	0.50	ug/L	1	A311476	09/30/13	10/02/13	
Toxaphene	EPA 505	ND	1.0	ug/L	1	A311476	09/30/13	10/02/13	
Trifluralin	EPA 505	ND	1.0	ug/L	1	A311476	09/30/13	10/02/13	
Surrogate: TCMX	EPA 505	146 %	*Acceptable range: 70-130 %*			*Qualifiers -*	*SR02*		
Chlorinated Acid Herbicides by GC-ECD									
2,4,5-T	EPA 515.3	ND	1.0	ug/L	1	A311419	09/29/13	10/04/13	
2,4,5-TP (Silvex)	EPA 515.3	ND	1.0	ug/L	1	A311419	09/29/13	10/04/13	
2,4-D	EPA 515.3	ND	10	ug/L	1	A311419	09/29/13	10/04/13	
Bentazon	EPA 515.3	ND	2.0	ug/L	1	A311419	09/29/13	10/04/13	
Dalapon	EPA 515.3	ND	10	ug/L	1	A311419	09/29/13	10/04/13	
Dicamba	EPA 515.3	ND	1.5	ug/L	1	A311419	09/29/13	10/04/13	
Dinoseb	EPA 515.3	ND	2.0	ug/L	1	A311419	09/29/13	10/04/13	
Pentachlorophenol	EPA 515.3	ND	0.20	ug/L	1	A311419	09/29/13	10/04/13	

Certificate of Analysis

Sample ID: A3I2260-01
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Sample Description: Water Samples

Sample Date - Time: 09/25/13 - 17:00
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chlorinated Acid Herbicides by GC-ECD									
Picloram	EPA 515.3	ND	1.0	ug/L	1	A311419	09/29/13	10/04/13	
Surrogate: DCPAA	EPA 515.3	109 %	*Acceptable range: 70-130 %*						
Volatile Organics by GC-MS									
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	A311594	10/02/13	10/03/13	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,1-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2,3-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2,4-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,3,5-Trimethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,3-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,3-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
2,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
2-Butanone	EPA 524.2	ND	5.0	ug/L	1	A311594	10/02/13	10/03/13	
2-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
2-Hexanone	EPA 524.2	ND	10	ug/L	1	A311594	10/02/13	10/03/13	
4-Chlorotoluene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
4-Methyl-2-pentanone	EPA 524.2	ND	5.0	ug/L	1	A311594	10/02/13	10/03/13	
Acetone	EPA 524.2	ND	10	ug/L	1	A311594	10/02/13	10/03/13	
Benzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Bromobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Bromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Bromodichloromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Bromoform	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Bromomethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Chloroethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Chloroform	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Chloromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	

Certificate of Analysis

Sample ID: A3I2260-01
Sampled By: Sarp Sekeroglu
Sample Description: Water Samples

Sample Date - Time: 09/25/13 - 17:00
Matrix: Water
Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Volatile Organics by GC-MS									
Dibromochloromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Dibromomethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Dichlorodifluoromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Di-isopropyl ether (DIPE)	EPA 524.2	ND	3.0	ug/L	1	A311594	10/02/13	10/03/13	
Ethyl tert-Butyl Ether (ETBE)	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Hexachlorobutadiene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Isopropylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Naphthalene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
n-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
n-Propylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
p-Isopropyltoluene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
sec-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Styrene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
tert-Amyl Methyl Ether (TAME)	EPA 524.2	ND	3.0	ug/L	1	A311594	10/02/13	10/03/13	
tert-Butyl alcohol (TBA)	EPA 524.2	ND	2.0	ug/L	1	A311594	10/02/13	10/03/13	
tert-Butylbenzene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Tetrachloroethene (PCE)	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Toluene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	A311594	10/02/13	10/03/13	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	A311594	10/02/13	10/03/13	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	95 %	*Acceptable range: 70-130 %*						
Surrogate: Bromofluorobenzene	EPA 524.2	100 %	*Acceptable range: 70-130 %*						
Total 1,3-Dichloropropene, EPA 524.2		ND	0.50	ug/L					
Total Trihalomethanes, EPA 524.2		ND	0.50	ug/L					
Total Xylenes, EPA 524.2		ND	0.50	ug/L					
Semi-Volatile Organics by GC-MS									
Alachlor	EPA 525.2	ND	1.0	ug/L	1	A311693	10/03/13	10/04/13	
Atrazine	EPA 525.2	ND	0.50	ug/L	1	A311693	10/03/13	10/04/13	
Benzo(a)pyrene	EPA 525.2	ND	0.10	ug/L	1	A311693	10/03/13	10/04/13	
Bis(2-ethylhexyl) adipate	EPA 525.2	ND	3.0	ug/L	1	A311693	10/03/13	10/04/13	
Bis(2-ethylhexyl) phthalate	EPA 525.2	ND	3.0	ug/L	1	A311693	10/03/13	10/04/13	
Bromacil	EPA 525.2	ND	10	ug/L	1	A311693	10/03/13	10/04/13	
Butachlor	EPA 525.2	ND	0.38	ug/L	1	A311693	10/03/13	10/04/13	

Certificate of Analysis

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Sample Date - Time: 09/25/13 - 17:00
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Sample Type: Grab

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Semi-Volatile Organics by GC-MS									
Diazinon	EPA 525.2	ND	0.25	ug/L	1	A311693	10/03/13	10/04/13	
Dimethoate	EPA 525.2	ND	10	ug/L	1	A311693	10/03/13	10/04/13	
Metolachlor	EPA 525.2	ND	0.50	ug/L	1	A311693	10/03/13	10/04/13	
Metribuzin	EPA 525.2	ND	0.50	ug/L	1	A311693	10/03/13	10/04/13	
Molinate	EPA 525.2	ND	2.0	ug/L	1	A311693	10/03/13	10/04/13	
Propachlor	EPA 525.2	ND	0.50	ug/L	1	A311693	10/03/13	10/04/13	
Simazine	EPA 525.2	ND	1.0	ug/L	1	A311693	10/03/13	10/04/13	
Thiobencarb	EPA 525.2	ND	1.0	ug/L	1	A311693	10/03/13	10/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	EPA 525.2	105 %	*Acceptable range: 70-130 %*						
Carbamates by HPLC									
3-Hydroxycarbofuran	EPA 531.1	ND	3.0	ug/L	1	A311765	10/06/13	10/11/13	
Aldicarb	EPA 531.1	ND	3.0	ug/L	1	A311765	10/06/13	10/11/13	
Aldicarb Sulfone	EPA 531.1	ND	2.0	ug/L	1	A311765	10/06/13	10/11/13	
Aldicarb Sulfoxide	EPA 531.1	ND	3.0	ug/L	1	A311765	10/06/13	10/11/13	
Carbaryl	EPA 531.1	ND	5.0	ug/L	1	A311765	10/06/13	10/11/13	
Carbofuran	EPA 531.1	ND	5.0	ug/L	1	A311765	10/06/13	10/11/13	
Methomyl	EPA 531.1	ND	2.0	ug/L	1	A311765	10/06/13	10/11/13	
Oxamyl	EPA 531.1	ND	20	ug/L	1	A311765	10/06/13	10/11/13	BS1.0
Glyphosate by HPLC									
Glyphosate	EPA 547	ND	25	ug/L	1	A311763	10/04/13	10/05/13	
Surrogate: AMPA	EPA 547	107 %	*Acceptable range: 70-130 %*						
Endothall by GC-MS									
Endothall	EPA 548.1	ND	45	ug/L	1	A311487	09/30/13	10/02/13	
Diquat by HPLC									
Diquat	EPA 549.2	ND	4.9	ug/L	1.2	A311596	10/02/13	10/03/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A311404										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: AJT	
Blank (A311404-BLK1)											
Chloride	ND	1.0	mg/L							09/27/13	
Nitrate as NO3	ND	1.0	mg/L							09/27/13	
Nitrite as N	ND	0.050	mg/L							09/27/13	
Sulfate as SO4	ND	2.0	mg/L							09/27/13	
Blank Spike (A311404-BS1)											
Chloride	51	1.0	mg/L	50		102	90-110			09/27/13	
Nitrate as NO3	51	1.0	mg/L	50		102	90-110			09/27/13	
Nitrite as N	0.50	0.050	mg/L	0.50		100	90-110			09/27/13	
Sulfate as SO4	51	2.0	mg/L	50		102	90-110			09/27/13	
Blank Spike Dup (A311404-BSD1)											
Chloride	51	1.0	mg/L	50		103	90-110	1	20	09/27/13	
Nitrate as NO3	51	1.0	mg/L	50		102	90-110	1	20	09/27/13	
Nitrite as N	0.50	0.050	mg/L	0.50		100	90-110	0	20	09/27/13	
Sulfate as SO4	51	2.0	mg/L	50		103	90-110	1	20	09/27/13	
Matrix Spike (A311404-MS1), Source: A3I2247-01											
Chloride	140	2.0	mg/L	100	32	104	80-120			09/27/13	
Nitrate as NO3	110	2.0	mg/L	100	9.0	105	80-120			09/27/13	
Nitrite as N	0.36	0.10	mg/L	1.0	ND	36	80-120			09/27/13	MS02 ***Low***
Sulfate as SO4	150	4.0	mg/L	100	41	107	80-120			09/27/13	
Matrix Spike (A311404-MS2), Source: A3I2222-01											
Chloride	150	2.0	mg/L	100	51	102	80-120			09/27/13	
Nitrate as NO3	100	2.0	mg/L	100	ND	102	80-120			09/27/13	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	104	80-120			09/27/13	
Sulfate as SO4	160	4.0	mg/L	100	59	102	80-120			09/27/13	
Matrix Spike Dup (A311404-MSD1), Source: A3I2247-01											
Chloride	130	2.0	mg/L	100	32	102	80-120	1	20	09/27/13	
Nitrate as NO3	110	2.0	mg/L	100	9.0	100	80-120	4	20	09/27/13	
Nitrite as N	0.33	0.10	mg/L	1.0	ND	33	80-120	7	20	09/27/13	MS02 ***Low***
Sulfate as SO4	150	4.0	mg/L	100	41	107	80-120	1	20	09/27/13	
Matrix Spike Dup (A311404-MSD2), Source: A3I2222-01											
Chloride	150	2.0	mg/L	100	51	102	80-120	0	20	09/27/13	
Nitrate as NO3	100	2.0	mg/L	100	ND	102	80-120	1	20	09/27/13	
Nitrite as N	1.0	0.10	mg/L	1.0	ND	105	80-120	1	20	09/27/13	
Sulfate as SO4	160	4.0	mg/L	100	59	103	80-120	0	20	09/27/13	
EPA 300.0 - Quality Control											
Batch: A311580										Prepared: 10/2/2013	
Prep Method: Method Specific Preparation										Analyst: AJT	
Blank (A311580-BLK1)											

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: A311580										Prepared: 10/2/2013	
Prep Method: Method Specific Preparation										Analyst: AJT	
Blank (A311580-BLK1)											
Fluoride	ND	0.10	mg/L							10/02/13	
Blank Spike (A311580-BS1)											
Fluoride	0.48	0.10	mg/L	0.50		96	90-110			10/02/13	
Blank Spike Dup (A311580-BSD1)											
Fluoride	0.49	0.10	mg/L	0.50		98	90-110	2	10	10/02/13	
Matrix Spike (A311580-MS1), Source: A3I2049-19											
Fluoride	1.4	0.20	mg/L	1.0	0.40	96	80-120			10/02/13	
Matrix Spike (A311580-MS2), Source: A3I2049-20											
Fluoride	1.3	0.20	mg/L	1.0	0.37	97	80-120			10/02/13	
Matrix Spike Dup (A311580-MSD1), Source: A3I2049-19											
Fluoride	1.4	0.20	mg/L	1.0	0.40	97	80-120	1	10	10/02/13	
Matrix Spike Dup (A311580-MSD2), Source: A3I2049-20											
Fluoride	1.3	0.20	mg/L	1.0	0.37	97	80-120	1	10	10/02/13	
EPA 300.1 - Quality Control											
Batch: A311561										Prepared: 10/2/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Blank (A311561-BLK1)											
Bromide	ND	0.0050	mg/L							10/02/13	
Surrogate: Dichloroacetate	*0.527*			*0.50*		*105*	*90-115*			10/02/13	
Blank Spike (A311561-BS1)											
Bromide	0.19	0.0050	mg/L	0.20		97	85-115			10/02/13	
Surrogate: Dichloroacetate	*0.549*			*0.50*		*110*	*90-115*			10/02/13	
Blank Spike Dup (A311561-BSD1)											
Bromide	0.19	0.0050	mg/L	0.20		93	85-115	4	10	10/02/13	
Surrogate: Dichloroacetate	*0.524*			*0.50*		*105*	*90-115*			10/02/13	
Matrix Spike (A311561-MS1), Source: A3J0132-03											
Bromide	1.1	0.050	mg/L	1.0	0.18	95	75-125			10/02/13	
Surrogate: Dichloroacetate	*5.34*			*5.0*		*107*	*90-115*			10/02/13	
Matrix Spike Dup (A311561-MSD1), Source: A3J0132-03											
Bromide	1.1	0.050	mg/L	1.0	0.18	97	75-125	1	10	10/02/13	
Surrogate: Dichloroacetate	*5.62*			*5.0*		*112*	*90-115*			10/02/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 351.2 - Quality Control											
Batch: A311800										Prepared: 10/7/2013	
Prep Method: Digestion										Analyst: LJL	
Blank (A311800-BLK1)											
Total Kjeldahl Nitrogen - Dissolved (1)	ND	1.0	mg/L							10/09/13	
Blank Spike (A311800-BS1)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		104	90-110			10/09/13	
Blank Spike Dup (A311800-BSD1)											
Total Kjeldahl Nitrogen - Dissolved (1)	10	1.0	mg/L	10		104	90-110	1	10	10/09/13	
Matrix Spike (A311800-MS1), Source: A3I2260-01											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10	ND	103	90-110			10/09/13	
Matrix Spike Dup (A311800-MSD1), Source: A3I2260-01											
Total Kjeldahl Nitrogen - Dissolved (1)	11	1.0	mg/L	10	ND	103	90-110	0	10	10/09/13	
EPA 365.4 - Quality Control											
Batch: A311800										Prepared: 10/7/2013	
Prep Method: Digestion										Analyst: LJL	
Blank (A311800-BLK1)											
Phosphorus - Dissolved (1)	ND	0.10	mg/L							10/09/13	
Blank Spike (A311800-BS1)											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10		102	90-110			10/09/13	
Blank Spike Dup (A311800-BSD1)											
Phosphorus - Dissolved (1)	10	0.10	mg/L	10		102	90-110	0	10	10/09/13	
Matrix Spike (A311800-MS1), Source: A3I2260-01											
Phosphorus - Dissolved (1)	9.9	0.10	mg/L	10	ND	98	90-110			10/09/13	
Matrix Spike Dup (A311800-MSD1), Source: A3I2260-01											
Phosphorus - Dissolved (1)	9.4	0.10	mg/L	10	ND	93	90-110	5	10	10/09/13	
SM 2120 B - Quality Control											
Batch: A311368										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311368-BLK1)											
Color, Apparent	ND	1.0	CU							09/27/13	
Duplicate (A311368-DUP1), Source: A3I2216-01											
Color, Apparent	5.0	1.0	CU		5.0			0	20	09/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2130 B - Quality Control											
Batch: A311368										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311368-BLK1)											
Turbidity	ND	0.10	NTU							09/27/13	
Duplicate (A311368-DUP1), Source: A3I2216-01											
Turbidity	2.6	0.10	NTU		2.7			4	20	09/27/13	
SM 2150 B - Quality Control											
Batch: A311368										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311368-BLK1)											
Threshold Odor	ND	1.0	T.O.N.							09/27/13	
Duplicate (A311368-DUP1), Source: A3I2216-01											
Threshold Odor	ND	1.0	T.O.N.		ND				20	09/27/13	
SM 2320 B - Quality Control											
Batch: A311377										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A311377-BLK1)											
Alkalinity as CaCO3	ND	3.0	mg/L							09/27/13	
Bicarbonate as CaCO3	ND	3.0	mg/L							09/27/13	
Carbonate as CaCO3	ND	3.0	mg/L							09/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L							09/27/13	
Blank Spike (A311377-BS1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		101	80-120			09/27/13	
Blank Spike Dup (A311377-BSD1)											
Alkalinity as CaCO3	100	3.0	mg/L	100		100	80-120	1	20	09/27/13	
Duplicate (A311377-DUP1), Source: A3I2176-02											
Alkalinity as CaCO3	74	3.0	mg/L		74			0	10	09/27/13	
Bicarbonate as CaCO3	73	3.0	mg/L		73			0	10	09/27/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	09/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	09/27/13	
Duplicate (A311377-DUP2), Source: A3I2260-01											
Alkalinity as CaCO3	140	3.0	mg/L		150			0	10	09/27/13	
Bicarbonate as CaCO3	140	3.0	mg/L		150			0	10	09/27/13	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	09/27/13	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	09/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 2510 B - Quality Control											
Batch: A311377										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Blank (A311377-BLK1)											
Conductivity @ 25C	ND	1.0	umhos/cm							09/27/13	
Duplicate (A311377-DUP1), Source: A3I2176-02											
Conductivity @ 25C	580	1.0	umhos/cm		580			0	20	09/27/13	
Duplicate (A311377-DUP2), Source: A3I2260-01											
Conductivity @ 25C	43000	1.0	umhos/cm		43000			0	20	09/27/13	
SM 2540C - Quality Control											
Batch: A311575										Prepared: 10/2/2013	
Prep Method: Method Specific Preparation										Analyst: DEH	
Blank (A311575-BLK1)											
Total Dissolved Solids	ND	5.0	mg/L							10/07/13	
Blank Spike (A311575-BS1)											
Total Dissolved Solids	1000	5.0	mg/L	1000		100	70-130			10/07/13	
Duplicate (A311575-DUP1), Source: A3I2260-01											
Total Dissolved Solids	34000	5.0	mg/L		34000			0	20	10/07/13	
SM 4500-H+ B - Quality Control											
Batch: A311377										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CEG	
Duplicate (A311377-DUP1), Source: A3I2176-02											
pH (1)	8.3		pH Units		8.3			0	20	09/27/13	
Duplicate (A311377-DUP2), Source: A3I2260-01											
pH (1)	7.7		pH Units		7.7			0	20	09/27/13	
SM 4500-NH3 G - Quality Control											
Batch: A311778										Prepared: 10/7/2013	
Prep Method: Ammonia Distillation										Analyst: LJL	
Blank (A311778-BLK1)											
Ammonia as N	ND	0.10	mg/L							10/08/13	
Blank (A311778-BLK2)											
Ammonia as N	ND	0.10	mg/L							10/08/13	
Blank Spike (A311778-BS1)											
Ammonia as N	9.8	0.10	mg/L	10		98	80-120			10/08/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-NH3 G - Quality Control											
Batch: A311778										Prepared: 10/7/2013	
Prep Method: Ammonia Distillation										Analyst: LJL	
Blank Spike Dup (A311778-BSD1)											
Ammonia as N	9.8	0.10	mg/L	10		98	80-120	0	20	10/08/13	
Matrix Spike (A311778-MS1), Source: A3I2168-05											
Ammonia as N	10	0.10	mg/L	10	0.34	97	80-120			10/08/13	
Matrix Spike (A311778-MS2), Source: A3I2246-02											
Ammonia as N	10	0.10	mg/L	10	ND	100	80-120			10/08/13	
Matrix Spike Dup (A311778-MSD1), Source: A3I2168-05											
Ammonia as N	10	0.10	mg/L	10	0.34	96	80-120	1	20	10/08/13	
Matrix Spike Dup (A311778-MSD2), Source: A3I2246-02											
Ammonia as N	9.3	0.10	mg/L	10	ND	92	80-120	8	20	10/08/13	
SM 4500-NO3 F - Quality Control											
Batch: A311810										Prepared: 10/7/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Blank (A311810-BLK2)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	ND	0.10	mg/L							10/07/13	
Blank Spike (A311810-BS1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10		102	80-120			10/07/13	
Blank Spike Dup (A311810-BSD1)											
Total Oxidizable Nitrogen, as N - Dissolved (1)	9.8	0.10	mg/L	10		98	80-120	4	20	10/07/13	
Matrix Spike (A311810-MS1), Source: A3I2132-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10	0.87	94	80-120			10/07/13	
Matrix Spike (A311810-MS2), Source: A3I2260-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10	ND	105	80-120			10/07/13	
Matrix Spike Dup (A311810-MSD1), Source: A3I2132-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	10	0.10	mg/L	10	0.87	95	80-120	1	20	10/07/13	
Matrix Spike Dup (A311810-MSD2), Source: A3I2260-01											
Total Oxidizable Nitrogen, as N - Dissolved (1)	11	0.10	mg/L	10	ND	105	80-120	1	20	10/07/13	
SM 4500-P E - Quality Control											
Batch: A311398										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Blank (A311398-BLK1)											
Orthophosphate as P	ND	0.010	mg/L							09/27/13	

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
SM 4500-P E - Quality Control											
Batch: A311398										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: LJL	
Blank Spike (A311398-BS1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		101	90-110			09/27/13	
Blank Spike Dup (A311398-BSD1)											
Orthophosphate as P	0.25	0.010	mg/L	0.25		101	90-110	0	20	09/27/13	
Matrix Spike (A311398-MS1), Source: A3I2214-01											
Orthophosphate as P	1.4	0.050	mg/L	1.2	0.14	98	80-120			09/27/13	
Matrix Spike Dup (A311398-MSD1), Source: A3I2214-01											
Orthophosphate as P	1.4	0.050	mg/L	1.2	0.14	99	80-120	1	20	09/27/13	
SM 5540 C - Quality Control											
Batch: A311369										Prepared: 9/27/2013	
Prep Method: Method Specific Preparation										Analyst: CCH	
Blank (A311369-BLK1)											
MBAS, Calculated as LAS, mol wt 340	ND	0.050	mg/L							09/27/13	
Blank Spike (A311369-BS1)											
MBAS, Calculated as LAS, mol wt 340	0.94	0.050	mg/L	1.0		94	80-120			09/27/13	
Blank Spike Dup (A311369-BSD1)											
MBAS, Calculated as LAS, mol wt 340	0.96	0.050	mg/L	1.0		96	80-120	1	20	09/27/13	
Matrix Spike (A311369-MS1), Source: A3I2214-01											
MBAS, Calculated as LAS, mol wt 340	1.0	0.050	mg/L	1.0	ND	102	80-120			09/27/13	
Matrix Spike Dup (A311369-MSD1), Source: A3I2214-01											
MBAS, Calculated as LAS, mol wt 340	1.1	0.050	mg/L	1.0	ND	104	80-120	2	20	09/27/13	

Metals Quality Control Report

EPA 200.7 - Quality Control

Batch: A311463 Prepared: 10/1/2013

Prep Method: EPA 200.2 Analyst: NRE

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A311463-BLK2)											
Aluminum	ND	0.050	mg/L							10/04/13	
Calcium	ND	0.10	mg/L							10/04/13	
Iron	ND	0.030	mg/L							10/04/13	
Magnesium	ND	0.10	mg/L							10/04/13	
Manganese	ND	0.010	mg/L							10/04/13	
Zinc	ND	0.050	mg/L							10/04/13	
Blank Spike (A311463-BS2)											
Aluminum	0.18	0.050	mg/L	0.20		91	85-115			10/04/13	
Calcium	9.7	0.10	mg/L	10		97	85-115			10/04/13	
Iron	1.9	0.030	mg/L	2.0		97	85-115			10/04/13	
Magnesium	9.3	0.10	mg/L	10		93	85-115			10/04/13	
Manganese	0.19	0.010	mg/L	0.20		95	85-115			10/04/13	
Zinc	0.20	0.050	mg/L	0.20		100	85-115			10/04/13	
Blank Spike Dup (A311463-BSD2)											
Aluminum	0.18	0.050	mg/L	0.20		91	85-115	0	20	10/05/13	
Calcium	9.8	0.10	mg/L	10		98	85-115	0	20	10/05/13	
Iron	2.0	0.030	mg/L	2.0		98	85-115	1	20	10/05/13	
Magnesium	9.3	0.10	mg/L	10		93	85-115	1	20	10/05/13	
Manganese	0.19	0.010	mg/L	0.20		96	85-115	1	20	10/05/13	
Zinc	0.20	0.050	mg/L	0.20		102	85-115	2	20	10/05/13	
Matrix Spike (A311463-MS3), Source: A3I2246-01											
Aluminum	0.43	0.050	mg/L	0.20	0.13	151	70-130			10/05/13	MS1.0 ***High***
Calcium	21	0.10	mg/L	10	11	98	70-130			10/05/13	
Iron	2.2	0.030	mg/L	2.0	0.19	99	70-130			10/05/13	
Magnesium	15	0.10	mg/L	10	5.2	94	70-130			10/05/13	
Manganese	0.21	0.010	mg/L	0.20	0.020	95	70-130			10/05/13	
Zinc	0.20	0.050	mg/L	0.20	ND	100	70-130			10/05/13	
Matrix Spike (A311463-MS4), Source: A3I2246-13											
Aluminum	0.83	0.050	mg/L	0.20	0.39	222	70-130			10/05/13	MS1.0 ***High***
Calcium	35	0.10	mg/L	10	25	99	70-130			10/05/13	
Iron	3.2	0.030	mg/L	2.0	1.1	102	70-130			10/05/13	
Magnesium	25	0.10	mg/L	10	16	93	70-130			10/05/13	
Manganese	0.38	0.010	mg/L	0.20	0.19	93	70-130			10/05/13	
Zinc	0.20	0.050	mg/L	0.20	ND	99	70-130			10/05/13	
Matrix Spike Dup (A311463-MSD3), Source: A3I2246-01											
Aluminum	0.41	0.050	mg/L	0.20	0.13	140	70-130	5	20	10/05/13	MS1.0 ***High***
Calcium	20	0.10	mg/L	10	11	93	70-130	2	20	10/05/13	
Iron	2.1	0.030	mg/L	2.0	0.19	98	70-130	1	20	10/05/13	
Magnesium	14	0.10	mg/L	10	5.2	92	70-130	2	20	10/05/13	
Manganese	0.21	0.010	mg/L	0.20	0.020	94	70-130	1	20	10/05/13	
Zinc	0.20	0.050	mg/L	0.20	ND	100	70-130	1	20	10/05/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A311463										Prepared: 10/1/2013	
Prep Method: EPA 200.2										Analyst: NRE	
Matrix Spike Dup (A311463-MSD4), Source: A3I2246-13											
Aluminum	0.81	0.050	mg/L	0.20	0.39	210	70-130	3	20	10/05/13	MS1.0 ***High***
Calcium	34	0.10	mg/L	10	25	91	70-130	2	20	10/05/13	
Iron	3.2	0.030	mg/L	2.0	1.1	102	70-130	0	20	10/05/13	
Magnesium	25	0.10	mg/L	10	16	89	70-130	2	20	10/05/13	
Manganese	0.37	0.010	mg/L	0.20	0.19	90	70-130	2	20	10/05/13	
Zinc	0.20	0.050	mg/L	0.20	ND	99	70-130	0	20	10/05/13	
EPA 200.7 - Quality Control											
Batch: A311497										Prepared: 10/1/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Blank (A311497-BLK2)											
Barium - Dissolved (1)	ND	0.050	mg/L							10/04/13	
Boron - Dissolved (1)	ND	0.10	mg/L							10/04/13	
Calcium - Dissolved (1)	ND	0.10	mg/L							10/04/13	
Iron - Dissolved (1)	ND	0.030	mg/L							10/04/13	
Magnesium - Dissolved (1)	ND	0.10	mg/L							10/04/13	
Manganese - Dissolved (1)	ND	0.010	mg/L							10/04/13	
Potassium - Dissolved (1)	ND	2.0	mg/L							10/04/13	
Silica (SiO2) - Dissolved (1)	ND	0.20	mg/L							10/04/13	
Sodium - Dissolved (1)	ND	1.0	mg/L							10/04/13	
Blank Spike (A311497-BS2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		99	85-115			10/04/13	
Boron - Dissolved (1)	0.57	0.10	mg/L	0.60		95	85-115			10/04/13	
Calcium - Dissolved (1)	9.8	0.10	mg/L	10		98	85-115			10/04/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		99	85-115			10/04/13	
Magnesium - Dissolved (1)	9.6	0.10	mg/L	10		96	85-115			10/04/13	
Manganese - Dissolved (1)	0.19	0.010	mg/L	0.20		97	85-115			10/04/13	
Potassium - Dissolved (1)	9.7	2.0	mg/L	10		97	85-115			10/04/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		102	85-115			10/04/13	
Sodium - Dissolved (1)	9.8	1.0	mg/L	10		98	85-115			10/04/13	
Blank Spike Dup (A311497-BSD2)											
Barium - Dissolved (1)	0.20	0.050	mg/L	0.20		100	85-115	2	20	10/04/13	
Boron - Dissolved (1)	0.58	0.10	mg/L	0.60		97	85-115	2	20	10/04/13	
Calcium - Dissolved (1)	10	0.10	mg/L	10		100	85-115	2	20	10/04/13	
Iron - Dissolved (1)	2.0	0.030	mg/L	2.0		100	85-115	1	20	10/04/13	
Magnesium - Dissolved (1)	9.7	0.10	mg/L	10		97	85-115	1	20	10/04/13	
Manganese - Dissolved (1)	0.20	0.010	mg/L	0.20		98	85-115	1	20	10/04/13	
Potassium - Dissolved (1)	9.9	2.0	mg/L	10		99	85-115	2	20	10/04/13	
Silica (SiO2) - Dissolved (1)	2.2	0.20	mg/L	2.1		102	85-115	1	20	10/04/13	
Sodium - Dissolved (1)	10	1.0	mg/L	10		100	85-115	2	20	10/04/13	
Matrix Spike (A311497-MS2), Source: A3I2260-01											
Barium - Dissolved (1)	0.25	0.50	mg/L	0.20	ND	123	70-130			10/04/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.7 - Quality Control											
Batch: A311497										Prepared: 10/1/2013	
Prep Method: Filtration - Metals										Analyst: NRE	
Matrix Spike (A311497-MS2), Source: A3I2260-01											
Boron - Dissolved (1)	4.9	1.0	mg/L	0.60	4.3	100	70-130			10/04/13	
Calcium - Dissolved (1)	410	1.0	mg/L	10	400	184	70-130			10/04/13	MS1.0 ***High***
Iron - Dissolved (1)	2.0	0.30	mg/L	2.0	ND	99	70-130			10/04/13	
Magnesium - Dissolved (1)	1200	1.0	mg/L	10	1200	340	70-130			10/04/13	MS1.0 ***High***
Manganese - Dissolved (1)	1.9	0.10	mg/L	0.20	1.7	114	70-130			10/04/13	
Potassium - Dissolved (1)	390	20	mg/L	10	380	171	70-130			10/04/13	MS1.0 ***High***
Silica (SiO2) - Dissolved (1)	27	2.0	mg/L	2.1	25	128	70-130			10/04/13	
Matrix Spike (A311497-MS3), Source: A3I2260-01											
Sodium - Dissolved (1)	10000	100	mg/L	10	10000	NR	70-130			10/05/13	MS1.0 ***High***
Matrix Spike Dup (A311497-MSD2), Source: A3I2260-01											
Barium - Dissolved (1)	0.24	0.50	mg/L	0.20	ND	122	70-130	1	20	10/04/13	
Boron - Dissolved (1)	4.9	1.0	mg/L	0.60	4.3	108	70-130	1	20	10/04/13	
Calcium - Dissolved (1)	410	1.0	mg/L	10	400	186	70-130	0	20	10/04/13	MS1.0 ***High***
Iron - Dissolved (1)	2.0	0.30	mg/L	2.0	ND	101	70-130	2	20	10/04/13	
Magnesium - Dissolved (1)	1200	1.0	mg/L	10	1200	366	70-130	0	20	10/04/13	MS1.0 ***High***
Manganese - Dissolved (1)	1.9	0.10	mg/L	0.20	1.7	119	70-130	1	20	10/04/13	
Potassium - Dissolved (1)	400	20	mg/L	10	380	185	70-130	0	20	10/04/13	MS1.0 ***High***
Silica (SiO2) - Dissolved (1)	28	2.0	mg/L	2.1	25	141	70-130	1	20	10/04/13	MS1.0 ***High***
Matrix Spike Dup (A311497-MSD3), Source: A3I2260-01											
Sodium - Dissolved (1)	11000	100	mg/L	10	10000	NR	70-130	1	20	10/05/13	MS1.0 ***High***
EPA 200.8 - Quality Control											
Batch: A311463										Prepared: 10/1/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Blank (A311463-BLK1)											
Arsenic	ND	2.0	ug/L							10/08/13	
Copper	ND	5.0	ug/L							10/08/13	
Blank Spike (A311463-BS1)											
Arsenic	200	2.0	ug/L	200		98	85-115			10/08/13	
Copper	200	5.0	ug/L	200		101	85-115			10/08/13	
Blank Spike Dup (A311463-BSD1)											
Arsenic	200	2.0	ug/L	200		98	85-115	1	20	10/08/13	
Copper	200	5.0	ug/L	200		101	85-115	0	20	10/08/13	
Matrix Spike (A311463-MS1), Source: A3I2246-01											
Arsenic	190	2.0	ug/L	200	ND	97	70-130			10/08/13	
Copper	200	5.0	ug/L	200	ND	98	70-130			10/08/13	
Matrix Spike (A311463-MS2), Source: A3I2246-13											
Arsenic	190	2.0	ug/L	200	3.8	95	70-130			10/08/13	

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A311463										Prepared: 10/1/2013	
Prep Method: EPA 200.2										Analyst: MAS	
Matrix Spike (A311463-MS2), Source: A3I2246-13											
Copper	200	5.0	ug/L	200	ND	96	70-130			10/08/13	
Matrix Spike Dup (A311463-MSD1), Source: A3I2246-01											
Arsenic	190	2.0	ug/L	200	ND	96	70-130	2	20	10/08/13	
Copper	200	5.0	ug/L	200	ND	98	70-130	1	20	10/08/13	
Matrix Spike Dup (A311463-MSD2), Source: A3I2246-13											
Arsenic	200	2.0	ug/L	200	3.8	96	70-130	1	20	10/08/13	
Copper	200	5.0	ug/L	200	ND	98	70-130	2	20	10/08/13	
EPA 200.8 - Quality Control											
Batch: A311497										Prepared: 10/1/2013	
Prep Method: Filtration - Metals										Analyst: MAS	
Blank (A311497-BLK1)											
Strontium - Dissolved (1)	ND	1.0	ug/L							10/08/13	
Blank Spike (A311497-BS1)											
Strontium - Dissolved (1)	190	1.0	ug/L	200		93	85-115			10/08/13	
Blank Spike Dup (A311497-BSD1)											
Strontium - Dissolved (1)	190	1.0	ug/L	200		96	85-115	3	20	10/08/13	
Matrix Spike (A311497-MS1), Source: A3I2260-01											
Strontium - Dissolved (1)	8700	10	ug/L	200	7400	673	70-130			10/08/13	MS1.0 ***High***
Matrix Spike Dup (A311497-MSD1), Source: A3I2260-01											
Strontium - Dissolved (1)	8200	10	ug/L	200	7400	401	70-130	6	20	10/08/13	MS1.0 ***High***

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 504.1 - Quality Control											
Batch: A311476										Prepared: 9/30/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A311476-BLK1)											
Dibromochloropropane (DBCP)	ND	0.010	ug/L							10/02/13	
Ethylene Dibromide (EDB)	ND	0.020	ug/L							10/02/13	
Surrogate: TCMX	*1.6*			*1.5*		*107*	*70-130*			10/02/13	
Blank Spike (A311476-BS1)											
Dibromochloropropane (DBCP)	0.21	0.010	ug/L	0.20		104	70-130			10/02/13	
Ethylene Dibromide (EDB)	0.22	0.020	ug/L	0.20		108	70-130			10/02/13	
Surrogate: TCMX	*1.5*			*1.5*		*102*	*70-130*			10/02/13	
Blank Spike Dup (A311476-BSD1)											
Dibromochloropropane (DBCP)	0.20	0.010	ug/L	0.20		101	70-130	2	20	10/02/13	
Ethylene Dibromide (EDB)	0.21	0.020	ug/L	0.20		104	70-130	4	20	10/02/13	
Surrogate: TCMX	*1.4*			*1.5*		*91*	*70-130*			10/02/13	
Matrix Spike (A311476-MS1), Source: A3I2242-01											
Dibromochloropropane (DBCP)	0.19	0.010	ug/L	0.20	ND	93	65-135			10/02/13	
Ethylene Dibromide (EDB)	0.19	0.020	ug/L	0.20	ND	96	65-135			10/02/13	
Surrogate: TCMX	*1.5*			*1.5*		*97*	*70-130*			10/02/13	
Matrix Spike Dup (A311476-MSD1), Source: A3I2242-01											
Dibromochloropropane (DBCP)	0.19	0.010	ug/L	0.20	ND	95	65-135	0	20	10/02/13	
Ethylene Dibromide (EDB)	0.18	0.020	ug/L	0.20	ND	94	65-135	4	20	10/02/13	
Surrogate: TCMX	*1.4*			*1.5*		*92*	*70-130*			10/02/13	
EPA 505 - Quality Control											
Batch: A311476										Prepared: 9/30/2013	
Prep Method: EPA 505										Analyst: GAK	
Blank (A311476-BLK1)											
Aldrin	ND	0.075	ug/L							10/02/13	
Chlordane	ND	0.10	ug/L							10/02/13	
Chlorothalonil	ND	5.0	ug/L							10/02/13	
Dieldrin	ND	0.020	ug/L							10/02/13	
Endrin	ND	0.10	ug/L							10/02/13	
Heptachlor	ND	0.010	ug/L							10/02/13	
Heptachlor Epoxide	ND	0.010	ug/L							10/02/13	
Hexachlorobenzene	ND	0.50	ug/L							10/02/13	
Hexachlorocyclopentadiene	ND	1.0	ug/L							10/02/13	
Lindane	ND	0.20	ug/L							10/02/13	
Methoxychlor	ND	10	ug/L							10/02/13	
PCB Aroclor Screen	ND	0.50	ug/L							10/02/13	
Toxaphene	ND	1.0	ug/L							10/02/13	
Trifluralin	ND	1.0	ug/L							10/02/13	
Surrogate: TCMX	*1.6*			*1.5*		*107*	*70-130*			10/02/13	
Blank Spike (A311476-BS1)											

Organics Quality Control Report

EPA 505 - Quality Control

Batch: A311476 Prepared: 9/30/2013

Prep Method: EPA 505 Analyst: GAK

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A311476-BS1)											
Aldrin	1.2	0.075	ug/L	1.0		119	70-130			10/02/13	
Chlorothalonil	11	5.0	ug/L	10		114	70-130			10/02/13	
Dieldrin	0.45	0.020	ug/L	0.40		112	70-130			10/02/13	
Endrin	0.21	0.10	ug/L	0.20		106	70-130			10/02/13	
Heptachlor	0.22	0.010	ug/L	0.20		112	70-130			10/02/13	
Heptachlor Epoxide	0.22	0.010	ug/L	0.20		110	70-130			10/02/13	
Hexachlorobenzene	2.4	0.50	ug/L	2.0		118	70-130			10/02/13	
Hexachlorocyclopentadiene	2.6	1.0	ug/L	2.0		128	70-130			10/02/13	
Lindane	0.46	0.20	ug/L	0.40		116	70-130			10/02/13	
Methoxychlor	2.1	10	ug/L	2.0		104	70-130			10/02/13	
Trifluralin	2.5	1.0	ug/L	2.0		125	70-130			10/02/13	
Surrogate: TCMX	*1.5*			*1.5*		*102*	*70-130*			10/02/13	
Blank Spike Dup (A311476-BSD1)											
Aldrin	1.1	0.075	ug/L	1.0		111	70-130	7	20	10/02/13	
Chlorothalonil	11	5.0	ug/L	10		111	70-130	3	20	10/02/13	
Dieldrin	0.43	0.020	ug/L	0.40		107	70-130	4	20	10/02/13	
Endrin	0.20	0.10	ug/L	0.20		102	70-130	4	20	10/02/13	
Heptachlor	0.21	0.010	ug/L	0.20		107	70-130	5	20	10/02/13	
Heptachlor Epoxide	0.22	0.010	ug/L	0.20		108	70-130	2	20	10/02/13	
Hexachlorobenzene	2.3	0.50	ug/L	2.0		113	70-130	5	20	10/02/13	
Hexachlorocyclopentadiene	2.4	1.0	ug/L	2.0		122	70-130	5	20	10/02/13	
Lindane	0.44	0.20	ug/L	0.40		111	70-130	4	20	10/02/13	
Methoxychlor	2.1	10	ug/L	2.0		103	70-130	1	20	10/02/13	
Trifluralin	2.4	1.0	ug/L	2.0		119	70-130	5	20	10/02/13	
Surrogate: TCMX	*1.4*			*1.5*		*91*	*70-130*			10/02/13	
Matrix Spike (A311476-MS1), Source: A3I2242-01											
Aldrin	0.99	0.075	ug/L	1.0	ND	99	65-135			10/02/13	
Chlorothalonil	10	5.0	ug/L	10	ND	104	65-135			10/02/13	
Dieldrin	0.40	0.020	ug/L	0.40	ND	101	65-135			10/02/13	
Endrin	0.19	0.10	ug/L	0.20	ND	96	65-135			10/02/13	
Heptachlor	0.20	0.010	ug/L	0.20	ND	100	65-135			10/02/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20	ND	100	65-135			10/02/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0	ND	106	65-135			10/02/13	
Hexachlorocyclopentadiene	2.1	1.0	ug/L	2.0	ND	106	65-135			10/02/13	
Lindane	0.42	0.20	ug/L	0.40	ND	105	65-135			10/02/13	
Methoxychlor	1.9	10	ug/L	2.0	ND	97	65-135			10/02/13	
Trifluralin	2.2	1.0	ug/L	2.0	ND	110	65-135			10/02/13	
Surrogate: TCMX	*1.5*			*1.5*		*97*	*70-130*			10/02/13	
Matrix Spike Dup (A311476-MSD1), Source: A3I2242-01											
Aldrin	0.94	0.075	ug/L	0.99	ND	95	65-135	6	20	10/02/13	
Chlorothalonil	10	5.0	ug/L	9.9	ND	105	65-135	1	20	10/02/13	
Dieldrin	0.41	0.020	ug/L	0.40	ND	103	65-135	1	20	10/02/13	
Endrin	0.19	0.10	ug/L	0.20	ND	98	65-135	1	20	10/02/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 505 - Quality Control											
Batch: A311476										Prepared: 9/30/2013	
Prep Method: EPA 505										Analyst: GAK	
Matrix Spike Dup (A311476-MSD1), Source: A3I2242-01											
Heptachlor	0.19	0.010	ug/L	0.20	ND	98	65-135	4	20	10/02/13	
Heptachlor Epoxide	0.20	0.010	ug/L	0.20	ND	102	65-135	1	20	10/02/13	
Hexachlorobenzene	2.1	0.50	ug/L	2.0	ND	105	65-135	2	20	10/02/13	
Hexachlorocyclopentadiene	1.9	1.0	ug/L	2.0	ND	97	65-135	10	20	10/02/13	
Lindane	0.42	0.20	ug/L	0.40	ND	106	65-135	0	20	10/02/13	
Methoxychlor	2.0	10	ug/L	2.0	ND	101	65-135	3	20	10/02/13	
Trifluralin	2.2	1.0	ug/L	2.0	ND	111	65-135	0	20	10/02/13	
Surrogate: TCMX	*1.4*			*1.5*		*92*	*70-130*			10/02/13	
EPA 515.3 - Quality Control											
Batch: A311419										Prepared: 9/29/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank (A311419-BLK1)											
2,4,5-T	ND	1.0	ug/L							10/04/13	
2,4,5-TP (Silvex)	ND	1.0	ug/L							10/04/13	
2,4-D	ND	10	ug/L							10/04/13	
Bentazon	ND	2.0	ug/L							10/04/13	
Dalapon	ND	10	ug/L							10/04/13	
Dicamba	ND	1.5	ug/L							10/04/13	
Dinoseb	ND	2.0	ug/L							10/04/13	
Pentachlorophenol	ND	0.20	ug/L							10/04/13	
Picloram	ND	1.0	ug/L							10/04/13	
Surrogate: DCPAA	*71*			*58*		*123*	*70-130*			10/04/13	
Blank Spike (A311419-BS1)											
2,4,5-T	4.1	1.0	ug/L	4.0		102	70-130			10/04/13	
2,4,5-TP (Silvex)	4.2	1.0	ug/L	4.0		106	70-130			10/04/13	
2,4-D	47	10	ug/L	40		118	70-130			10/04/13	
Bentazon	9.8	2.0	ug/L	8.0		122	70-130			10/04/13	
Dalapon	37	10	ug/L	40		92	70-130			10/04/13	
Dicamba	5.9	1.5	ug/L	6.0		98	70-130			10/04/13	
Dinoseb	8.1	2.0	ug/L	8.0		101	70-130			10/04/13	
Pentachlorophenol	0.68	0.20	ug/L	0.80		85	70-130			10/04/13	
Picloram	3.3	1.0	ug/L	4.0		82	70-130			10/04/13	
Surrogate: DCPAA	*67*			*58*		*115*	*70-130*			10/04/13	
Blank Spike Dup (A311419-BSD1)											
2,4,5-T	3.9	1.0	ug/L	4.0		98	70-130	3	20	10/04/13	
2,4,5-TP (Silvex)	4.2	1.0	ug/L	4.0		104	70-130	2	20	10/04/13	
2,4-D	46	10	ug/L	40		114	70-130	3	20	10/04/13	
Bentazon	8.1	2.0	ug/L	8.0		101	70-130	19	20	10/04/13	
Dalapon	37	10	ug/L	40		91	70-130	1	20	10/04/13	
Dicamba	5.9	1.5	ug/L	6.0		98	70-130	0	20	10/04/13	
Dinoseb	8.1	2.0	ug/L	8.0		101	70-130	0	20	10/04/13	
Pentachlorophenol	0.72	0.20	ug/L	0.80		90	70-130	6	20	10/04/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 515.3 - Quality Control											
Batch: A311419										Prepared: 9/29/2013	
Prep Method: EPA 515.3										Analyst: GAK	
Blank Spike Dup (A311419-BSD1)											
Picloram	3.9	1.0	ug/L	4.0		97	70-130	17	20	10/04/13	
Surrogate: DCPAA	*67*			*58*		*116*	*70-130*			10/04/13	
Matrix Spike (A311419-MS1), Source: A3I2242-01											
2,4,5-T	4.0	1.0	ug/L	4.0	ND	101	70-130			10/04/13	
2,4,5-TP (Silvex)	4.7	1.0	ug/L	4.0	ND	116	70-130			10/04/13	
2,4-D	47	10	ug/L	40	ND	119	70-130			10/04/13	
Bentazon	8.9	2.0	ug/L	8.0	ND	111	70-130			10/04/13	
Dalapon	37	10	ug/L	40	ND	92	70-130			10/04/13	
Dicamba	6.3	1.5	ug/L	6.0	ND	105	70-130			10/04/13	
Dinoseb	8.1	2.0	ug/L	8.0	ND	102	70-130			10/04/13	
Pentachlorophenol	0.68	0.20	ug/L	0.80	ND	85	70-130			10/04/13	
Picloram	3.3	1.0	ug/L	4.0	ND	82	70-130			10/04/13	
Surrogate: DCPAA	*69*			*58*		*119*	*70-130*			10/04/13	
Matrix Spike Dup (A311419-MSD1), Source: A3I2242-01											
2,4,5-T	4.0	1.0	ug/L	4.0	ND	100	70-130	1	20	10/04/13	
2,4,5-TP (Silvex)	4.0	1.0	ug/L	4.0	ND	100	70-130	16	20	10/04/13	
2,4-D	46	10	ug/L	40	ND	115	70-130	3	20	10/04/13	
Bentazon	8.8	2.0	ug/L	8.0	ND	110	70-130	1	20	10/04/13	
Dalapon	36	10	ug/L	40	ND	89	70-130	3	20	10/04/13	
Dicamba	5.8	1.5	ug/L	6.0	ND	97	70-130	8	20	10/04/13	
Dinoseb	8.0	2.0	ug/L	8.0	ND	100	70-130	1	20	10/04/13	
Pentachlorophenol	0.66	0.20	ug/L	0.80	ND	82	70-130	3	20	10/04/13	
Picloram	3.2	1.0	ug/L	4.0	ND	80	70-130	2	20	10/04/13	
Surrogate: DCPAA	*66*			*58*		*113*	*70-130*			10/04/13	
EPA 524.2 - Quality Control											
Batch: A311594										Prepared: 10/2/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A311594-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							10/03/13	
1,1,1-Trichloroethane	ND	0.50	ug/L							10/03/13	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							10/03/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L							10/03/13	
1,1,2-Trichloroethane	ND	0.50	ug/L							10/03/13	
1,1-Dichloroethane	ND	0.50	ug/L							10/03/13	
1,1-Dichloroethene	ND	0.50	ug/L							10/03/13	
1,1-Dichloropropene	ND	0.50	ug/L							10/03/13	
1,2,3-Trichlorobenzene	ND	0.50	ug/L							10/03/13	
1,2,4-Trichlorobenzene	ND	0.50	ug/L							10/03/13	
1,2,4-Trimethylbenzene	ND	0.50	ug/L							10/03/13	
1,2-Dichlorobenzene	ND	0.50	ug/L							10/03/13	
1,2-Dichloroethane	ND	0.50	ug/L							10/03/13	
1,2-Dichloropropane	ND	0.50	ug/L							10/03/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A311594										Prepared: 10/2/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank (A311594-BLK1)											
1,3,5-Trimethylbenzene	ND	0.50	ug/L							10/03/13	
1,3-Dichlorobenzene	ND	0.50	ug/L							10/03/13	
1,3-Dichloropropane	ND	0.50	ug/L							10/03/13	
1,4-Dichlorobenzene	ND	0.50	ug/L							10/03/13	
2,2-Dichloropropane	ND	0.50	ug/L							10/03/13	
2-Butanone	ND	5.0	ug/L							10/03/13	
2-Chlorotoluene	ND	0.50	ug/L							10/03/13	
2-Hexanone	ND	10	ug/L							10/03/13	
4-Chlorotoluene	ND	0.50	ug/L							10/03/13	
4-Methyl-2-pentanone	ND	5.0	ug/L							10/03/13	
Acetone	ND	10	ug/L							10/03/13	
Benzene	ND	0.50	ug/L							10/03/13	
Bromobenzene	ND	0.50	ug/L							10/03/13	
Bromochloromethane	ND	0.50	ug/L							10/03/13	
Bromodichloromethane	ND	0.50	ug/L							10/03/13	
Bromoform	ND	0.50	ug/L							10/03/13	
Bromomethane	ND	0.50	ug/L							10/03/13	
Carbon Tetrachloride	ND	0.50	ug/L							10/03/13	
Chlorobenzene	ND	0.50	ug/L							10/03/13	
Chloroethane	ND	0.50	ug/L							10/03/13	
Chloroform	ND	0.50	ug/L							10/03/13	
Chloromethane	ND	0.50	ug/L							10/03/13	
cis-1,2-Dichloroethene	ND	0.50	ug/L							10/03/13	
cis-1,3-Dichloropropene	ND	0.50	ug/L							10/03/13	
Dibromochloromethane	ND	0.50	ug/L							10/03/13	
Dibromomethane	ND	0.50	ug/L							10/03/13	
Dichlorodifluoromethane	ND	0.50	ug/L							10/03/13	
Dichloromethane	ND	0.50	ug/L							10/03/13	
Di-isopropyl ether (DIPE)	ND	3.0	ug/L							10/03/13	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	ug/L							10/03/13	
Ethylbenzene	ND	0.50	ug/L							10/03/13	
Hexachlorobutadiene	ND	0.50	ug/L							10/03/13	
Isopropylbenzene	ND	0.50	ug/L							10/03/13	
m,p-Xylenes	ND	0.50	ug/L							10/03/13	
Methyl-t-butyl ether	ND	0.50	ug/L							10/03/13	
Naphthalene	ND	0.50	ug/L							10/03/13	
n-Butylbenzene	ND	0.50	ug/L							10/03/13	
n-Propylbenzene	ND	0.50	ug/L							10/03/13	
o-Xylene	ND	0.50	ug/L							10/03/13	
p-Isopropyltoluene	ND	0.50	ug/L							10/03/13	
sec-Butylbenzene	ND	0.50	ug/L							10/03/13	
Styrene	ND	0.50	ug/L							10/03/13	
tert-Amyl Methyl Ether (TAME)	ND	3.0	ug/L							10/03/13	
tert-Butyl alcohol (TBA)	ND	2.0	ug/L							10/03/13	
tert-Butylbenzene	ND	0.50	ug/L							10/03/13	
Tetrachloroethene (PCE)	ND	0.50	ug/L							10/03/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A311594 Prepared: 10/2/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank (A311594-BLK1)											
Toluene	ND	0.50	ug/L							10/03/13	
trans-1,2-Dichloroethene	ND	0.50	ug/L							10/03/13	
trans-1,3-Dichloropropene	ND	0.50	ug/L							10/03/13	
Trichloroethene (TCE)	ND	0.50	ug/L							10/03/13	
Trichlorofluoromethane	ND	5.0	ug/L							10/03/13	
Vinyl Chloride	ND	0.50	ug/L							10/03/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.5*			*5.0*		*90*	*70-130*			10/03/13	
Surrogate: Bromofluorobenzene	*4.9*			*5.0*		*97*	*70-130*			10/03/13	
Blank Spike (A311594-BS1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		100	70-130			10/03/13	
1,1,1-Trichloroethane	9.2	0.50	ug/L	10		92	70-130			10/03/13	
1,1,2,2-Tetrachloroethane	9.8	0.50	ug/L	10		98	70-130			10/03/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	8.9	10	ug/L	10		89	70-130			10/03/13	
1,1,2-Trichloroethane	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,1-Dichloroethane	9.9	0.50	ug/L	10		99	70-130			10/03/13	
1,1-Dichloroethene	9.7	0.50	ug/L	10		97	70-130			10/03/13	
1,1-Dichloropropene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		100	70-130			10/03/13	
1,2,4-Trichlorobenzene	8.7	0.50	ug/L	10		87	70-130			10/03/13	
1,2,4-Trimethylbenzene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
1,2-Dichlorobenzene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,2-Dichloroethane	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,2-Dichloropropane	10	0.50	ug/L	10		100	70-130			10/03/13	
1,3,5-Trimethylbenzene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,3-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130			10/03/13	
1,3-Dichloropropane	9.6	0.50	ug/L	10		96	70-130			10/03/13	
1,4-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130			10/03/13	
2,2-Dichloropropane	10	0.50	ug/L	10		100	70-130			10/03/13	
2-Butanone	9.7	5.0	ug/L	10		97	70-130			10/03/13	
2-Chlorotoluene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
2-Hexanone	9.4	10	ug/L	10		94	70-130			10/03/13	
4-Chlorotoluene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
4-Methyl-2-pentanone	9.5	5.0	ug/L	10		95	70-130			10/03/13	
Acetone	9.8	10	ug/L	10		98	70-130			10/03/13	
Benzene	9.9	0.50	ug/L	10		99	70-130			10/03/13	
Bromobenzene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
Bromochloromethane	9.9	0.50	ug/L	10		99	70-130			10/03/13	
Bromodichloromethane	9.5	0.50	ug/L	10		95	70-130			10/03/13	
Bromoform	9.3	0.50	ug/L	10		93	70-130			10/03/13	
Bromomethane	9.2	0.50	ug/L	10		92	70-130			10/03/13	
Carbon Tetrachloride	8.9	0.50	ug/L	10		89	70-130			10/03/13	
Chlorobenzene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
Chloroethane	9.4	0.50	ug/L	10		94	70-130			10/03/13	
Chloroform	10	0.50	ug/L	10		104	70-130			10/03/13	
Chloromethane	10	0.50	ug/L	10		100	70-130			10/03/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A311594 Prepared: 10/2/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike (A311594-BS1)											
cis-1,2-Dichloroethene	9.9	0.50	ug/L	10		99	70-130			10/03/13	
cis-1,3-Dichloropropene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
Dibromochloromethane	9.5	0.50	ug/L	10		95	70-130			10/03/13	
Dibromomethane	9.5	0.50	ug/L	10		95	70-130			10/03/13	
Dichlorodifluoromethane	8.1	0.50	ug/L	10		81	70-130			10/03/13	
Dichloromethane	9.7	0.50	ug/L	10		97	70-130			10/03/13	
Di-isopropyl ether (DIPE)	10	3.0	ug/L	10		104	70-130			10/03/13	
Ethyl tert-Butyl Ether (ETBE)	9.8	0.50	ug/L	10		98	70-130			10/03/13	
Ethylbenzene	9.2	0.50	ug/L	10		92	70-130			10/03/13	
Hexachlorobutadiene	8.1	0.50	ug/L	10		81	70-130			10/03/13	
Isopropylbenzene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
m,p-Xylenes	18	0.50	ug/L	20		92	70-130			10/03/13	
Methyl-t-butyl ether	21	0.50	ug/L	20		105	70-130			10/03/13	
Naphthalene	8.0	0.50	ug/L	10		80	70-130			10/03/13	
n-Butylbenzene	9.4	0.50	ug/L	10		94	70-130			10/03/13	
n-Propylbenzene	9.7	0.50	ug/L	10		97	70-130			10/03/13	
o-Xylene	9.2	0.50	ug/L	10		92	70-130			10/03/13	
p-Isopropyltoluene	9.7	0.50	ug/L	10		97	70-130			10/03/13	
sec-Butylbenzene	9.5	0.50	ug/L	10		95	70-130			10/03/13	
Styrene	9.8	0.50	ug/L	10		98	70-130			10/03/13	
tert-Amyl Methyl Ether (TAME)	9.1	3.0	ug/L	10		91	70-130			10/03/13	
tert-Butyl alcohol (TBA)	12	2.0	ug/L	10		122	70-130			10/03/13	
tert-Butylbenzene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
Tetrachloroethene (PCE)	9.4	0.50	ug/L	10		94	70-130			10/03/13	
Toluene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
trans-1,2-Dichloroethene	9.9	0.50	ug/L	10		99	70-130			10/03/13	
trans-1,3-Dichloropropene	9.6	0.50	ug/L	10		96	70-130			10/03/13	
Trichloroethene (TCE)	9.8	0.50	ug/L	10		98	70-130			10/03/13	
Trichlorofluoromethane	8.6	5.0	ug/L	10		86	70-130			10/03/13	
Vinyl Chloride	8.9	0.50	ug/L	10		89	70-130			10/03/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.8*			*5.0*		*97*	*70-130*			10/03/13	
Surrogate: Bromofluorobenzene	*4.9*			*5.0*		*98*	*70-130*			10/03/13	
Blank Spike Dup (A311594-BSD1)											
1,1,1,2-Tetrachloroethane	10	0.50	ug/L	10		100	70-130	0	30	10/03/13	
1,1,1-Trichloroethane	9.2	0.50	ug/L	10		92	70-130	0	30	10/03/13	
1,1,2,2-Tetrachloroethane	9.9	0.50	ug/L	10		99	70-130	1	30	10/03/13	
1,1,2-Trichloro-1,2,2-trifluoroethane	8.9	10	ug/L	10		89	70-130	0	30	10/03/13	
1,1,2-Trichloroethane	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
1,1-Dichloroethane	10	0.50	ug/L	10		100	70-130	1	30	10/03/13	
1,1-Dichloroethene	9.7	0.50	ug/L	10		97	70-130	0	30	10/03/13	
1,1-Dichloropropene	9.3	0.50	ug/L	10		93	70-130	3	30	10/03/13	
1,2,3-Trichlorobenzene	10	0.50	ug/L	10		100	70-130	1	30	10/03/13	
1,2,4-Trichlorobenzene	9.6	0.50	ug/L	10		96	70-130	10	30	10/03/13	
1,2,4-Trimethylbenzene	9.8	0.50	ug/L	10		98	70-130	1	30	10/03/13	
1,2-Dichlorobenzene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	

Organics Quality Control Report

EPA 524.2 - Quality Control

Batch: A311594 Prepared: 10/2/2013

Prep Method: EPA 524.2 Analyst: JGB

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
Blank Spike Dup (A311594-BSD1)											
1,2-Dichloroethane	9.7	0.50	ug/L	10		97	70-130	1	30	10/03/13	
1,2-Dichloropropane	9.9	0.50	ug/L	10		99	70-130	1	30	10/03/13	
1,3,5-Trimethylbenzene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
1,3-Dichlorobenzene	9.8	0.50	ug/L	10		98	70-130	1	30	10/03/13	
1,3-Dichloropropane	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
1,4-Dichlorobenzene	9.7	0.50	ug/L	10		97	70-130	0	30	10/03/13	
2,2-Dichloropropane	9.9	0.50	ug/L	10		99	70-130	1	30	10/03/13	
2-Butanone	10	5.0	ug/L	10		100	70-130	4	30	10/03/13	
2-Chlorotoluene	9.7	0.50	ug/L	10		97	70-130	1	30	10/03/13	
2-Hexanone	9.2	10	ug/L	10		92	70-130	2	30	10/03/13	
4-Chlorotoluene	9.9	0.50	ug/L	10		99	70-130	1	30	10/03/13	
4-Methyl-2-pentanone	9.2	5.0	ug/L	10		92	70-130	3	30	10/03/13	
Acetone	10	10	ug/L	10		100	70-130	2	30	10/03/13	
Benzene	9.8	0.50	ug/L	10		98	70-130	1	30	10/03/13	
Bromobenzene	9.8	0.50	ug/L	10		98	70-130	1	30	10/03/13	
Bromochloromethane	9.8	0.50	ug/L	10		98	70-130	1	30	10/03/13	
Bromodichloromethane	9.5	0.50	ug/L	10		95	70-130	0	30	10/03/13	
Bromoform	9.2	0.50	ug/L	10		92	70-130	0	30	10/03/13	
Bromomethane	9.4	0.50	ug/L	10		94	70-130	2	30	10/03/13	
Carbon Tetrachloride	9.0	0.50	ug/L	10		90	70-130	0	30	10/03/13	
Chlorobenzene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
Chloroethane	9.1	0.50	ug/L	10		91	70-130	2	30	10/03/13	
Chloroform	10	0.50	ug/L	10		105	70-130	1	30	10/03/13	
Chloromethane	8.4	0.50	ug/L	10		84	70-130	18	30	10/03/13	
cis-1,2-Dichloroethene	9.9	0.50	ug/L	10		99	70-130	1	30	10/03/13	
cis-1,3-Dichloropropene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
Dibromochloromethane	9.8	0.50	ug/L	10		98	70-130	4	30	10/03/13	
Dibromomethane	9.6	0.50	ug/L	10		96	70-130	1	30	10/03/13	
Dichlorodifluoromethane	8.1	0.50	ug/L	10		81	70-130	1	30	10/03/13	
Dichloromethane	9.9	0.50	ug/L	10		99	70-130	2	30	10/03/13	
Di-isopropyl ether (DIPE)	10	3.0	ug/L	10		100	70-130	4	30	10/03/13	
Ethyl tert-Butyl Ether (ETBE)	10	0.50	ug/L	10		102	70-130	4	30	10/03/13	
Ethylbenzene	9.2	0.50	ug/L	10		92	70-130	0	30	10/03/13	
Hexachlorobutadiene	9.3	0.50	ug/L	10		93	70-130	14	30	10/03/13	
Isopropylbenzene	9.7	0.50	ug/L	10		97	70-130	2	30	10/03/13	
m,p-Xylenes	18	0.50	ug/L	20		92	70-130	1	30	10/03/13	
Methyl-t-butyl ether	21	0.50	ug/L	20		104	70-130	1	30	10/03/13	
Naphthalene	9.3	0.50	ug/L	10		93	70-130	15	30	10/03/13	
n-Butylbenzene	9.4	0.50	ug/L	10		94	70-130	1	30	10/03/13	
n-Propylbenzene	9.6	0.50	ug/L	10		96	70-130	1	30	10/03/13	
o-Xylene	9.2	0.50	ug/L	10		92	70-130	0	30	10/03/13	
p-Isopropyltoluene	9.7	0.50	ug/L	10		97	70-130	1	30	10/03/13	
sec-Butylbenzene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
Styrene	9.5	0.50	ug/L	10		95	70-130	4	30	10/03/13	
tert-Amyl Methyl Ether (TAME)	10	3.0	ug/L	10		100	70-130	10	30	10/03/13	
tert-Butyl alcohol (TBA)	10	2.0	ug/L	10		103	70-130	17	30	10/03/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 524.2 - Quality Control											
Batch: A311594										Prepared: 10/2/2013	
Prep Method: EPA 524.2										Analyst: JGB	
Blank Spike Dup (A311594-BSD1)											
tert-Butylbenzene	9.4	0.50	ug/L	10		94	70-130	2	30	10/03/13	
Tetrachloroethene (PCE)	9.4	0.50	ug/L	10		94	70-130	0	30	10/03/13	
Toluene	9.6	0.50	ug/L	10		96	70-130	0	30	10/03/13	
trans-1,2-Dichloroethene	9.7	0.50	ug/L	10		97	70-130	2	30	10/03/13	
trans-1,3-Dichloropropene	9.5	0.50	ug/L	10		95	70-130	1	30	10/03/13	
Trichloroethene (TCE)	9.7	0.50	ug/L	10		97	70-130	1	30	10/03/13	
Trichlorofluoromethane	8.8	5.0	ug/L	10		88	70-130	2	30	10/03/13	
Vinyl Chloride	8.8	0.50	ug/L	10		88	70-130	1	30	10/03/13	
Surrogate: 1,2-Dichlorobenzene-d4	*4.9*			*5.0*		*98*	*70-130*			10/03/13	
Surrogate: Bromofluorobenzene	*4.9*			*5.0*		*99*	*70-130*			10/03/13	
EPA 525.2 - Quality Control											
Batch: A311693										Prepared: 10/3/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank (A311693-BLK1)											
Alachlor	ND	1.0	ug/L							10/04/13	
Atrazine	ND	0.50	ug/L							10/04/13	
Benzo(a)pyrene	ND	0.10	ug/L							10/04/13	
Bis(2-ethylhexyl) adipate	ND	3.0	ug/L							10/04/13	
Bis(2-ethylhexyl) phthalate	ND	3.0	ug/L							10/04/13	
Bromacil	ND	10	ug/L							10/04/13	
Butachlor	ND	0.38	ug/L							10/04/13	
Diazinon	ND	0.25	ug/L							10/04/13	
Dimethoate	ND	10	ug/L							10/04/13	
Metolachlor	ND	0.50	ug/L							10/04/13	
Metribuzin	ND	0.50	ug/L							10/04/13	
Molinate	ND	2.0	ug/L							10/04/13	
Propachlor	ND	0.50	ug/L							10/04/13	
Simazine	ND	1.0	ug/L							10/04/13	
Thiobencarb	ND	1.0	ug/L							10/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*5.1*		*100*	*70-130*			10/04/13	
Blank Spike (A311693-BS1)											
Alachlor	0.49	1.0	ug/L	0.50		97	70-130			10/04/13	
Atrazine	0.44	0.50	ug/L	0.50		88	70-130			10/04/13	
Benzo(a)pyrene	0.091	0.10	ug/L	0.10		91	70-130			10/04/13	
Bis(2-ethylhexyl) adipate	3.5	3.0	ug/L	3.0		114	70-130			10/04/13	
Bis(2-ethylhexyl) phthalate	3.6	3.0	ug/L	3.0		118	70-130			10/04/13	
Bromacil	1.9	10	ug/L	2.0		94	70-130			10/04/13	
Butachlor	1.1	0.38	ug/L	1.3		91	70-130			10/04/13	
Diazinon	0.050	0.25	ug/L	0.050		100	70-130			10/04/13	
Dimethoate	0.43	10	ug/L	0.50		86	70-130			10/04/13	
Metolachlor	2.5	0.50	ug/L	2.5		100	70-130			10/04/13	
Metribuzin	2.3	0.50	ug/L	2.5		91	70-130			10/04/13	
Molinate	2.8	2.0	ug/L	2.5		113	70-130			10/04/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 525.2 - Quality Control											
Batch: A311693										Prepared: 10/3/2013	
Prep Method: EPA 525.2										Analyst: KHH	
Blank Spike (A311693-BS1)											
Propachlor	2.9	0.50	ug/L	2.5		114	70-130			10/04/13	
Simazine	0.32	1.0	ug/L	0.35		92	70-130			10/04/13	
Thiobencarb	0.47	1.0	ug/L	0.50		94	70-130			10/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.0*			*5.0*		*99*	*70-130*			10/04/13	
Blank Spike Dup (A311693-BSD1)											
Alachlor	0.50	1.0	ug/L	0.50		99	70-130	2	30	10/04/13	
Atrazine	0.47	0.50	ug/L	0.50		94	70-130	6	30	10/04/13	
Benzo(a)pyrene	0.088	0.10	ug/L	0.10		88	70-130	4	30	10/04/13	
Bis(2-ethylhexyl) adipate	3.2	3.0	ug/L	3.0		105	70-130	9	30	10/04/13	
Bis(2-ethylhexyl) phthalate	3.2	3.0	ug/L	3.0		108	70-130	10	30	10/04/13	
Bromacil	2.2	10	ug/L	2.0		110	70-130	15	30	10/04/13	
Butachlor	1.3	0.38	ug/L	1.2		101	70-130	9	30	10/04/13	
Diazinon	0.044	0.25	ug/L	0.050		88	70-130	13	30	10/04/13	
Dimethoate	0.49	10	ug/L	0.50		99	70-130	14	30	10/04/13	
Metolachlor	2.6	0.50	ug/L	2.5		104	70-130	4	30	10/04/13	
Metribuzin	2.7	0.50	ug/L	2.5		106	70-130	15	30	10/04/13	
Molinate	2.7	2.0	ug/L	2.5		107	70-130	6	30	10/04/13	
Propachlor	2.9	0.50	ug/L	2.5		116	70-130	1	30	10/04/13	
Simazine	0.34	1.0	ug/L	0.35		97	70-130	5	30	10/04/13	
Thiobencarb	0.53	1.0	ug/L	0.50		106	70-130	11	30	10/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.3*			*5.0*		*106*	*70-130*			10/04/13	
Matrix Spike (A311693-MS1), Source: A3I1912-02											
Alachlor	0.51	1.0	ug/L	0.50	ND	102	70-130			10/04/13	
Atrazine	0.48	0.50	ug/L	0.50	ND	95	70-130			10/04/13	
Benzo(a)pyrene	0.12	0.10	ug/L	0.10	ND	122	70-130			10/04/13	
Bis(2-ethylhexyl) adipate	3.1	3.0	ug/L	3.0	ND	104	70-130			10/04/13	
Bis(2-ethylhexyl) phthalate	3.7	3.0	ug/L	3.0	ND	122	70-130			10/04/13	
Bromacil	2.3	10	ug/L	2.0	ND	118	70-130			10/04/13	
Butachlor	1.4	0.38	ug/L	1.2	ND	109	70-130			10/04/13	
Diazinon	0.044	0.25	ug/L	0.050	ND	88	70-130			10/04/13	
Dimethoate	0.58	10	ug/L	0.50	ND	117	70-130			10/04/13	
Metolachlor	2.7	0.50	ug/L	2.5	ND	109	70-130			10/04/13	
Metribuzin	2.9	0.50	ug/L	2.5	ND	115	70-130			10/04/13	
Molinate	3.0	2.0	ug/L	2.5	ND	118	70-130			10/04/13	
Propachlor	3.1	0.50	ug/L	2.5	ND	124	70-130			10/04/13	
Simazine	0.37	1.0	ug/L	0.35	ND	107	70-130			10/04/13	
Thiobencarb	0.51	1.0	ug/L	0.50	ND	101	70-130			10/04/13	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	*5.3*			*5.0*		*107*	*70-130*			10/04/13	
EPA 531.1 - Quality Control											
Batch: A311765										Prepared: 10/6/2013	
Prep Method: EPA 531.1										Analyst: AAR	
Blank (A311765-BLK1)											

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual	
EPA 531.1 - Quality Control												
Batch: A311765										Prepared: 10/6/2013		
Prep Method: EPA 531.1										Analyst: AAR		
Blank (A311765-BLK1)												
3-Hydroxycarbofuran	ND	2.0	ug/L							10/11/13		
Aldicarb	ND	2.0	ug/L							10/11/13		
Aldicarb Sulfone	ND	2.0	ug/L							10/11/13		
Aldicarb Sulfoxide	ND	2.0	ug/L							10/11/13		
Carbaryl	ND	2.0	ug/L							10/11/13		
Carbofuran	ND	2.0	ug/L							10/11/13		
Methomyl	ND	2.0	ug/L							10/11/13		
Oxamyl	ND	2.0	ug/L							10/11/13		
Blank Spike (A311765-BS1)												
3-Hydroxycarbofuran	4.5	2.0	ug/L	4.2		109	80-120			10/11/13		
Aldicarb	4.2	2.0	ug/L	4.2		101	80-120			10/11/13		
Aldicarb Sulfone	4.6	2.0	ug/L	4.2		110	80-120			10/11/13		
Aldicarb Sulfoxide	4.0	2.0	ug/L	4.2		97	80-120			10/11/13		
Carbaryl	4.4	2.0	ug/L	4.2		105	80-120			10/11/13		
Carbofuran	4.4	2.0	ug/L	4.2		105	80-120			10/11/13		
Methomyl	4.2	2.0	ug/L	4.2		100	80-120			10/11/13		
Oxamyl	5.1	2.0	ug/L	4.2		123	80-120			10/11/13	BS	***High***
Blank Spike Dup (A311765-BSD1)												
3-Hydroxycarbofuran	4.4	2.0	ug/L	4.2		105	80-120	4	20	10/11/13		
Aldicarb	4.2	2.0	ug/L	4.2		101	80-120	0	20	10/11/13		
Aldicarb Sulfone	4.3	2.0	ug/L	4.2		103	80-120	6	20	10/11/13		
Aldicarb Sulfoxide	4.0	2.0	ug/L	4.2		95	80-120	2	20	10/11/13		
Carbaryl	4.4	2.0	ug/L	4.2		105	80-120	1	20	10/11/13		
Carbofuran	4.3	2.0	ug/L	4.2		102	80-120	3	20	10/11/13		
Methomyl	4.1	2.0	ug/L	4.2		99	80-120	1	20	10/11/13		
Oxamyl	4.9	2.0	ug/L	4.2		117	80-120	5	20	10/11/13		
Matrix Spike (A311765-MS1), Source: A3J0471-01												
3-Hydroxycarbofuran	4.2	2.0	ug/L	4.2	ND	100	65-135			10/11/13		
Aldicarb	4.7	2.0	ug/L	4.2	ND	114	65-135			10/11/13		
Aldicarb Sulfone	4.8	2.0	ug/L	4.2	ND	102	65-135			10/11/13		
Aldicarb Sulfoxide	4.7	2.0	ug/L	4.2	ND	99	65-135			10/11/13		
Carbaryl	4.2	2.0	ug/L	4.2	ND	101	65-135			10/11/13		
Carbofuran	4.0	2.0	ug/L	4.2	ND	96	65-135			10/11/13		
Methomyl	4.4	2.0	ug/L	4.2	ND	106	65-135			10/11/13		
Oxamyl	5.5	2.0	ug/L	4.2	ND	122	65-135			10/11/13		
EPA 547 - Quality Control												
Batch: A311763										Prepared: 10/4/2013		
Prep Method: EPA 547										Analyst: RJB		
Blank (A311763-BLK1)												
Glyphosate	ND	25	ug/L							10/04/13		
Surrogate: AMPA	*110*			*100*		*112*	*70-130*			10/04/13		

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 547 - Quality Control											
Batch: A311763										Prepared: 10/4/2013	
Prep Method: EPA 547										Analyst: RJB	
Blank Spike (A311763-BS1)											
Glyphosate	96	25	ug/L	100		96	70-130			10/04/13	
Surrogate: AMPA	*110*			*100*		*112*	*70-130*			10/04/13	
Blank Spike Dup (A311763-BSD1)											
Glyphosate	100	25	ug/L	100		101	70-130	5	30	10/04/13	
Surrogate: AMPA	*110*			*100*		*112*	*70-130*			10/04/13	
Matrix Spike (A311763-MS1), Source: A3J0044-01											
Glyphosate	100	25	ug/L	100	ND	99	70-130			10/04/13	
Surrogate: AMPA	*110*			*100*		*107*	*70-130*			10/04/13	
Matrix Spike Dup (A311763-MSD1), Source: A3J0044-01											
Glyphosate	100	25	ug/L	100	ND	102	70-130	3	30	10/04/13	
Surrogate: AMPA	*110*			*100*		*109*	*70-130*			10/04/13	
EPA 548.1 - Quality Control											
Batch: A311487										Prepared: 9/30/2013	
Prep Method: EPA 548.1										Analyst: KHH	
Blank (A311487-BLK1)											
Endothall	ND	45	ug/L							10/02/13	
Blank Spike (A311487-BS1)											
Endothall	14	45	ug/L	20		69	60-111			10/02/13	
Blank Spike Dup (A311487-BSD1)											
Endothall	14	45	ug/L	20		72	60-111	4	46	10/02/13	
Matrix Spike (A311487-MS1), Source: A3I1912-01											
Endothall	3.9	45	ug/L	20	ND	20	10-122			10/02/13	
EPA 549.2 - Quality Control											
Batch: A311596										Prepared: 10/2/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Blank (A311596-BLK1)											
Diquat	ND	4.0	ug/L							10/03/13	
Blank Spike (A311596-BS1)											
Diquat	3.6	4.0	ug/L	4.0		91	70-130			10/03/13	
Blank Spike Dup (A311596-BSD1)											
Diquat	3.7	4.0	ug/L	4.0		93	70-130	3	30	10/03/13	
Matrix Spike (A311596-MS1), Source: A3I2272-01											
Diquat	3.8	4.0	ug/L	4.0	ND	94	70-130			10/03/13	

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 549.2 - Quality Control											
Batch: A311596										Prepared: 10/2/2013	
Prep Method: EPA 549.2										Analyst: PYA	
Matrix Spike (A311596-MS2), Source: A3I2272-02											
Diquat	3.7	4.0	ug/L	4.0	ND	93	70-130			10/03/13	

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

Certifications: **Please refer to our website for a copy of our Accredited Fields of Testing under each certificattion.**

State of California - ELAP	1180	State of Nevada	CA000792009A
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA
State of California - NELAP	04227CA	State of Oregon	4017
State of Washington	C997	State of Oregon - NWTPH	4021

BSK is not accredited under the NELAC program for the following parameters:

Boron
Silica (SiO2)
Strontium
Threshold Odor

A3I2260

California American Water

Calif3295

09272013

Turnaround: Standard

Due Date: 10/11/2013

Printed: 9/27/2013 3:36:20PM

Page 1 of 1

BSK Associates Engineers & Laboratories
1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 Fax (559) 497-2893
www.bskassociates.com

12.5

A3I2260
Calif3295

Appendix G 09/27/2013
10

*Required Fields

Temp:

Company/Client Name*:	Report Attention*:	Invoice To*:	Phone*:	Fax*:
California American Water-Monterey	Travis Peterson Additional cc's: Sarp Sekeroglu	PO#:	831-646-329	

E-mail*: travis.peterson@amwater.com & ssekeroglu@rbf.com

Address*:	City*:	State*:	Zip*:
PO Box 951	Monterey	CA	93942

Project: Water Quality Analysis

Project #:

Regulatory Carbon Copies: CDPH ☐ Fresno Co ☐ Merced Co ☐ Tulare Co ☐ Madera Co ☐ Other: ____

Reporting Options: ☐ Trace (J-Flag) ☐ Swamp ☐ EDD Type: ____

How would you like your completed results sent?* ☒ E-Mail ☐ Fax ☐ Mail

Regulatory Compliance: ☐ EDT to California DPH System Number*: ____ ☐ Geotracker #: ____

Sampler Name (Printed/Signature)*: Sarp Sekeroglu

TAT* **Surcharge: ☒ Standard - 10 Business Days ☐ **Rush: Date Needed ____

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled* Date	Sampled* Time	Matrix*	Comments / Station Code / WTRAX	Alk,Hardness,MBAS,Color, Odor,TDS,pH,Turbidity,EC	Dissolved Metals (lab to filter) Ba,B,Ca,Cu,Fe,Mg,K,Si,Na,St	Total Metals: Al, As, Fe, Mn, Zn	Dissolved: Fl, Bromide,Chloride,P, ortho-P,Sulfate, Mass Balance	Dissolved: TKN, Ammonia, Nitrite	Nitrate +Nitrite as N, NO3	EPA 524 ,504, 505, 515, 525, 531, 547, 548, 549		EXT-Lithium, EXT-Dioxin,EXT-Tritium, EXT-Dissolved Iodide
1	Water Sampled	9/25	5pm		seawater salinity levels	X	X	X	X	X	X	X		X

9/27/13 Per Sarp Sekeroglu, notified of temperature anomaly, ok to proceed with analysis. (m)

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
Shelly Tegge	RBF	9/27	10		

Received for Lab by: (Signature and Printed Name) BSK Date 9/27/2013 Time

Payment Received at Delivery: Check / Cash Date: Amount: PIA#: Init.

Shipping Method: ONTRAC UPS CSO WALK-IN FED EX Courier: ____

Cooling Method: Wet Blue None

Custody Seal: Y/N

Chilling Process Begun: Y/N

Payment for services rendered as noted herein are due in full within 30 days from the date Invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

bw, ICe

SR-FL-0012-05 Analytical Chain of Custody

BSK Associates
Bottle Order Form

A3I2260
Calif3295

Date Needed: 09/23/2013

Client: RBF Consulting

Attention: Sarp Sekeroglu

Address: 3180 Imjin Rd Suite 110

City: Marina State, Zip: CA, 93933

Email:

Phone: Requested By: RLR

Fax: Date Requested: 09/20/2013

Prepared By: TSG

Date Shipped: 9-20-13

Special Instructions:

box as 2 kits, place 1 COC in each box

Ship Via
Shipping Details
Box with Ice Chest

Tests	Description	Preservative	Sets	Lot Number
Metals: Inorganic / Gen Min.	500mL Plastic red lid / label	HNO3	4	
Chlorite, Bromate, Bromide, Chlorate	250mL AG brown label	EDA	2	
Odor: General Physical	500mL AG	None	2	
Non-Metals: Alk, F, Res. Cl, pH,CO2, Solids, SO4	500mL Plastic white lid / label	None	2	
Gen Mineral/Inorganic; BOD, Pb&Cu,TDS, TSS	1L Plastic white lid / label	None	4	
EPA 524.2 & 1,2,3-TCP - Raw Water	3 X 40mL VOAs	HCl	2	
EPA 504 / 505	3 X 40mL VOAs	Na2S2O3	2	
EPA 515	250mL AG blue label	Na2S2O3	2	
EPA 525	2 X 1L AG blue label	Na2S2O3	2	
EPA 531.1	1 x 40mL VOA orange label	MCAA + Na2S2O3	2	
EPA 547-Glyphosate	1 x 40mL VOA blue label	Na2S2O3	2	
EPA 548-Endothall	250mL AG blue label	Na2S2O3	2	
EPA 549-Diquat	1L Plastic (Brown)	Na2S2O3	2	
Dioxin	2 X 1L AG	-	2	
Iodide	250 mL Plastic	None	2	
Tritium	250 mL AG	None	2	

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info				
Was temperature within range? Chemistry ≤ 6°C Micro < 10°C 12.5	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA
If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No NA
Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No
Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No NA	Was PM notified of discrepancies? PM Michael By/Time: 9/27 1000	Yes No NA

Bottles Received

"—" means preservation/chlorine checks are either N/A or are performed in the lab

250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?						
Bacti $Na_2S_2O_3$	—	—						
None (P) White Cap	—	—	2C,1B,1a					
Cr6 Buffer (P) Blue Cap	pH 9-9.5	Y N						
HNO_3 (P) Red Cap	—	—	2B					
H_2SO_4 (P) Yellow Cap	pH ≤ 2	Y N						
NaOH (P) Green Cap	Cl, pH ≥12	Y N						
NaOH + ZnAc (P)	pH ≥ 9	Y N						
Dissolved Oxygen 300ml (g)	—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—	2C,1B,1a					
H_2SO_4 (AG) Yellow Label O&G, Diesel	—	—						
$Na_2S_2O_3$ 1 Liter (Brown P) 549	—	—	1C					
$Na_2S_2O_3$ (AG) Blue Label 547, 515, 525, 548	—	—	2C,2B					
$Na_2S_2O_3$ (AG) Blue Label THMs 524.2 or 524.3	—	—						
$Na_2S_2O_3$ (CG) Blue Label 504, 505	—	—	1V					
$Na_2S_2O_3$ + MCAA (CG) Orange Label 531	pH = 3	Y N	1V					
NH_4Cl (AG) Purple Label 552	—	—						
EDA (AG) Brown Label DBPs	—	—	1a					
Ascorbic + Maleic (AG) Lt Green Label 524.3	—	—						
HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—						
Buffer pH 4 (CG)	—	—						
None (CG)	—	—						
H_3PO_4 (CG) Salmon Label	—	—						
Other:								
Asbestos 1Liter Plastic w/ Foil	—	—						
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						

Split

	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials
S P				S P			
S P				S P			

Comments

Labeled by: DHD @ 14:27 Labels checked by: [illegible] @ 1438 RUSH Paged by: _____ @

External

A3I2260

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 24, 2013

Mr. Michael Ng
BSK Analytical Laboratories
1414 Stanislaus St.
Fresno, CA 93706

RE: Project: A3I2260
Pace Project No.: 30105077

Dear Mr. Ng:
Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: A3I2260
Pace Project No.: 30105077

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: A3I2260
Pace Project No.: 30105077

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30105077001	A3I2260-01	Water	09/25/13 17:00	10/11/13 09:45

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: A3I2260
Pace Project No.: 30105077

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30105077001	**A3I2260-01**	EPA 906.0	SLA	1	PASI-PA

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Greensburg, PA 15601
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PROJECT NARRATIVE

Project: A3I2260
Pace Project No.: 30105077

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: BSK Analytical Laboratories
Date: October 24, 2013

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: A3I2260
Pace Project No.: 30105077

Sample: A3I2260-01 **Lab ID: 30105077001** Collected: 09/25/13 17:00 Received: 10/11/13 09:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**38.7 ± 122 (212)**	pCi/L	10/18/13 22:02	10028-17-8	

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QUALITY CONTROL DATA

Project: A3I2260
Pace Project No.: 30105077

QC Batch: RADC/17468 | Analysis Method: EPA 906.0
QC Batch Method: EPA 906.0 | Analysis Description: 906.0 Tritium
Associated Lab Samples: 30105077001

METHOD BLANK: 645156 | Matrix: Water
Associated Lab Samples: 30105077001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	2.51 ± 116 (206)	pCi/L	10/22/13 10:25	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: A3I2260
Pace Project No.: 30105077

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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BSK Analytical Laboratories
Engineering & Laboratories

SUBCONTRACT ORDER

A3I2260

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Radiochem
1638 Roseytown Rd Ste 2,3,4
Greensburg, PA 15601
Phone :(724) 850-5600
Fax: (724) 722-5208
Turnaround (Days): Standard
QC Deliverables: I (Std) III IV

3210505077
001

Sample ID	Samp Desc	Sample Date
A3I2260-01	Water Samples	09/25/2013 17:00

Matrix: Water

Analysis 250 ml AG w/ NONE
EXT-Tritium — Non preserved glass container

Released By 10/4/13 Date — Received By 10-11-13 0945 Date

Released By — Received By

Sample Condition Upon Receipt

Pace Analytical

Client Name: BSK. Project # 30106077

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 12 93X 921 0358376151

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Ziploc

Thermometer Used 5 6 7 Type of Ice: Wet Blue (None) ☐ Samples on ice, cooling process has begun

Cooler Temperature NA Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: TAW 10-11-13

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	TAW 10-11-13 ☑Yes ☐No ☑N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:	WT	
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13. NP
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed TAW Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 10/11/13

... is a ... les a ... of this ... will be ... to the N... DEHNR

Pace Analytical

page 2

Project Number: 30105077

Client Name: BSL

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
01	WT	1																						

SCURF Back (C016-4 15May2012).xls

QA Assessment Spreadsheet
PACE Analytical Services

Quality Control Sample Performance Assessment

Pace Analytical

Analyst:	SLA		
Date:	10/22/2013	Method:	EPA 906.0
Worklist:	17468	SOP:	PCH-R-021
Matrix:	DW	MB Sample ID:	645156

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	2.5100	116.2000	205.9000	97.66000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	10/19/13 0:04	10/19/13 1:06				
Spike I.D.:	10-003	10-003				
Spike Concentration (pCi/L):	2536.885	2536.668				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.100	0.100				
Target Conc. (pCi/L, g, F):	2536.885	2536.668				
1.96 Sigma Uncertainty (Calculated):	69.607	69.606				
Result (pCi/L, g, F):	2160.070	2310.830				
1.96 Sigma Unc:	223.600	225.700				
% Recovery:	85.15%	91.10%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y					
Analyte:	Tritium					
Sample I.D.:	LCS17468					
Duplicate Sample I.D.	LCSD17468					
Sample Result (pCi/L, g, F):	2160.0700					
1.96 Sigma Unc:	223.6000					
Sample Duplicate Result (pCi/L, g, F):	2310.8300					
Duplicate Sample 1.96 Sigma Unc.	225.7000					
Either results below MDC?	N					
Relative Percent Difference:	6.74%					
Assessment:	Pass					
% RPD Limit:	25.00%					

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Sample Matrix Spike Control Assessment

Analyte:	Tritium	Tritium	
Sample Collection Date:	9/24/2013	10/8/2013	
Sample I.D.	35109631004	35111260001	
Sample MS I.D.	35109631004MS	35111260001MS	
Sample MSD I.D.			
Spike I.D.:	10-003	10-003	
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2546.281	2540.756	
Spike Volume Used in MS (mL):	0.20	0.20	
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	0.1000	0.0500	
MS Target Conc.(pCi/L, g, F):	5092.562	10163.025	
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike uncertainty (calculated):	139.740	278.973	
MSD Spike uncertainty (calculated):			
Sample Result:	117.660	54.420	
Sample 1.96 Sigma Unc.:	126.400	123.600	
Sample Matrix Spike Result:	4659.060	9351.770	
Sample MS 1.96 Sigma Unc.:	308.800	407.700	
Sample Matrix Spike Duplicate Result:			
Sample MSD 1.96 Sigma Unc.:			
MS % Recovery:	93.10%	91.48%	
MSD % Recovery:			
MS Assessment:	Pass	Pass	
MSD Assessment:			
MS/MSD Upper % Recovery Limits:	125.00%	125.00%	
MS/MSD Lower % Recovery Limits:	75.00%	75.00%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

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1638 Roseytown Road
Greensburg, PA 15601
(724)850-5600

SAMPLE ACKNOWLEDGMENT

Samples Submitted By: BSK Analytical Laboratories
Client Project ID: A3I2260
Client PO#:

Pace Project Manager: Jacquelyn Collins
Phone (724)850-5600
jacquelyn.collins@pacelabs.com
Pace Analytical Project ID: 30105077
Samples Received: October 11, 2013 09:45 AM
Estimated Completion: November 01, 2013

CC: Mr. Michael Ng

Customer Sample ID	Pace Analytical Lab ID	Matrix	Date/Time Collected	Method
A3I2260-01	30105077001	Water	09/25/13 17:00	906.0 Tritium

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your projec

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Greensburg, PA 15601
(724)850-5600

SAMPLE ACKNOWLEDGMENT

Analyte List

Customer Sample ID	Method	Compound	Reporting Limit	Units
A3I2260-01	906.0 Tritium	Tritium		

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

www.pacelabs.com

Report Prepared for:

Michael Ng
BSK Analytical Laboratories
1414 Stanislaus Street
Fresno CA 93706

REPORT OF LABORATORY ANALYSIS FOR 2,3,7,8-TCDD

Report Summary:

This report contains results of one drinking water sample analyzed to determine 2,3,7,8-TCDD content. This sample was analyzed according to Method 1613 by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

Report Prepared Date:

October 17, 2013

Report Information:

Pace Project #: 10244542
Sample Receipt Date: 10/04/2013
Client Project #: A3I2260
Client Sub PO #: N/A
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Brittany Hansen, your Pace Project Manager.

This report has been reviewed by:

October 17, 2013

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

ACCREDITED IN ACCORDANCE WITH nelac

Report of Laboratory Analysis

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The results relate only to the samples included in th

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE	MN002
Colorado	MN00064	New Mexico	MN00064
Connecticut	PH-0256	New York (NEL	11647
EPA Region 5	WD-15J	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennesee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	03086	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

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BSK Analytical Laboratories
Engineers & Laboratories

SUBCONTRACT ORDER

A3I2260

1151

10244542

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Pace Analytical-Dioxin
1700 Elm Street S.E. Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444
Turnaround (Days): Standard
QC Deliverables: I Std III IV

Sample ID	Samp Desc		Sample Date
A3I2260-01	Water Samples	10244542001	09/25/2013 17:00

Matrix: Water

Analysis 1 L AG w/ None
EXT-Dioxin-DW matrix, EPA 1613 2,3,7,8-TCDD

T=4.8°C

Released By	Date	Received By	Date
	10/3/13	Pace	10-4-13 08:49
Released By	Date	Received By	Date

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 19Sep2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.07	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: SSIC

Project #: WO#: 10244542

10244542

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 7968 3079 5640

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☐ Yes ☑ No

Thermom. Used: ☐ 80512447 ☐ 72337080 ☐ B8BA912167504 ☑ B8BA9132521491 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on Ice, cooling process has begun

Cooler Temp Read (°C): 5.0 **Cooler Temp Corrected (°C):** 4.8 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** -.2 **Date and Initials of Person Examining Contents:** CAY 10-9-13

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☐ No	☑ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☐ No	☑ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: BH12 **Date:** 10/7/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace AnalyticalServices, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Drinking Water Analysis Results
2,3,7,8-TCDD -- USEPA Method 1613B

Sample ID.....A3I2260-01
Client..... BSK Analytical Laboratories
Lab Sample ID..... 10244542001

Date Collected.....09/25/2013
Date Received.....10/04/2013
Date Extracted.....10/11/2013

	Sample A3I2260-01	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	**ND**	ND	--	--
RL	5.0 pg/L	5.0 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	116%	103%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			11.9%	
IS Recovery	**81%**	67%	81%	57%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	**90%**	90%	93%	63%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	F131016A_20	F131016A_06	F131016A_03	F131016A_04
Analysis Date	10/16/2013	10/16/2013	10/16/2013	10/16/2013
Analysis Time	13:10	06:08	04:45	05:13
Analyst	BAL	BAL	BAL	BAL
Volume	1.047L	1.002L	1.013L	1.006L
Dilution	NA	NA	NA	NA
ICAL Date	10/09/2013	10/09/2013	10/09/2013	10/09/2013
CCAL Filename	F131016A_09	F131016A_02	F131016A_02	F131016A_02

! = Outside the Control Limits
ND = Not Detected
RL = Reporting Limit
Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A
RPD = Relative Percent Difference of Lab Spike Recoveries
IS = Internal Standard [2,3,7,8-TCDD- $^{13}C_{12}$]
CS = Cleanup Standard [2,3,7,8-TCDD- $^{37}Cl_4$]

Analyst: Barr A Lark

Project No.....10244542

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1954

Certificate of Analysis

Report Date: 11/06/13 13:57
Received Date: 10/02/13 08:30
Turnaround Time: Normal

Project: A3I2260

Phones: (559) 497-2888
Fax: (559) 485-6935

P.O. #:

Attn: Michael Ng

Client: BSK Analytical Laboratories
550 West Locust Avenue
Fresno, CA 93650

Dear Michael Ng :

Enclosed are the results of analyses for samples received 10/2/2013 with the Chain of Custody document. The samples were received in good condition, at 3.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab Sample ID: 3J02006-01 **Sample ID:** A3I2260-01 **Matrix:** Water
Sampled by: Client **Sampled:** 09/25/13 17:00

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lithium, Total	**150**	7.0	50	ug/l	5	EPA 200.7	10/10/13	10/11/13 11:32	W3J0563	
Iodide, Dissolved	ND	21	500	ug/l	50	EPA 9056A	11/5/13	11/5/13 19:57	W3K0192	M-05, Q-14

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Anions by IC, EPA Method 300.0/300.1/326 - Quality Control

Batch W3K0192 - EPA 9056A

Blank (W3K0192-BLK1) — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		ND		ug/l					

LCS (W3K0192-BS1) — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved		35.3		ug/l	40.0	88	85-115		

Matrix Spike (W3K0192-MS1) — Source: 3J15074-01 — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	179	368		ug/l	200	94	80-120		

Matrix Spike Dup (W3K0192-MSD1) — Source: 3J15074-01 — Prepared: 11/05/13 Analyzed: 11/05/13 19:57

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Iodide, Dissolved	179	355		ug/l	200	88	80-120	3	20

Metals by EPA 200 Series Methods - Quality Control

Batch W3J0563 - EPA 200.7

Blank (W3J0563-BLK1) — Prepared: 10/10/13 Analyzed: 10/11/13 10:46

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		ND		ug/l					

LCS (W3J0563-BS1) — Prepared: 10/10/13 Analyzed: 10/11/13 11:24

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total		957		ug/l	1000	96	85-115		

Matrix Spike (W3J0563-MS1) — Source: 3J09027-11 — Prepared: 10/10/13 Analyzed: 10/11/13 11:04

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	ND	963		ug/l	1000	96	70-130		

Matrix Spike (W3J0563-MS2) — Source: 3J09027-14 — Prepared: 10/10/13 Analyzed: 10/11/13 11:09

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	2.18	958		ug/l	1000	96	70-130		

Matrix Spike Dup (W3J0563-MSD1) — Source: 3J09027-11 — Prepared: 10/10/13 Analyzed: 10/11/13 11:06

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	ND	975		ug/l	1000	97	70-130	1	30

Matrix Spike Dup (W3J0563-MSD2) — Source: 3J09027-14 — Prepared: 10/10/13 Analyzed: 10/11/13 11:12

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lithium, Total	2.18	968		ug/l	1000	97	70-130	1	30

Weck Laboratories, Inc. 14859 East Clark Avenue, City of Industry, California 91745-1336 (626) 336-2139 FAX (626) 3
www.weclab.com

Weck Laboratories, Inc.
Analytical Laboratory Service - Since 1964

Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature
Contact: Kim G Tu (Project Manager)

ISO 17025

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
Q-14	This analysis was requested by the client after the holding time was exceeded.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

BSK Analytical Laboratories
Engineers & Laboratories

SUBCONTRACT ORDER

A3I2260

3502006

SENDING LABORATORY:

BSK Associates
1414 Stanislaus St
Fresno, CA 93706
Phone: 559-497-2888
Fax: 559-485-6935
Project Manager: Michael Ng
E-mail: mng@bskinc.com

RECEIVING LABORATORY:

Weck Laboratories, Inc.
14859 E Clark Avenue
City of Industry, CA 91745-1396
Phone :(626) 336-2139
Fax: (626) 336-2634
Turnaround (Days): Standard
QC Deliverables: I (Std) III IV

Sample ID	Samp Desc	Sample Date
A3I2260-01	Water Samples	09/25/2013 17:00

Matrix: Water

Analysis 250 ml P w/ NONE
EXT-Iodide
EXT-Miscellaneous 500 ml P w/ HNO3 Dissolved Lithium

3.2C

Released By	Date	Received By	Date
	10.1.13		
Released By	Date	Received By	Date
			10/02/13 08:30

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Sample Receipt Acknowledgement

WORK ORDER: 3J02006
Printed: 10/3/2013 10:53:46AM

Client: BSK Analytical Laboratories
Project: Metals
Project Manager: Kim G Tu
Project Number: A3I2260

Report To:
BSK Analytical Laboratories
Michael Ng
550 West Locust Avenue
Fresno, CA 93650
Phone: (559) 497-2888
Fax: (559) 485-6935

Invoice To:
BSK Analytical Laboratories
Accounts Payable - Anise Foote
550 West Locust Avenue
Fresno, CA 93650
Phone :(559) 497-2888
Fax: (559) 485-6935

Date Due: **10/16/13 15:00 (10 day TAT)**

Received By: Lian Guang Liao
Date Received: 10/02/13 08:30
Logged In By: Jaime Gomez
Date Logged In: 10/02/13 09:31

Samples Received at:	**3.2°C**	All containers intact:	**Yes**	Chain of custody completed:	**Yes**
Number of Ice chests/packages:	**1**	Custody seals presen	**NA**	Sample labels & COC agree:	**Yes**
		Custody seals intact:	**NA**	Samples preserved properly:	**Yes**
Appropriate Sample Containers:	**Yes**	Samples received on ice	**Yes**	Sample volume sufficient:	**Yes**
		Custody Seals	**No**	Sufficient holding time for all tests:	**Yes**

Analysis	TAT	Expires	Comments
3J02006-01 A3I2260-01 [Water] Sampled 09/25/13 17:00 Pacific			
Iodide water 9056M	10	10/23/13 17:00	
200.7 Li_diss	10	03/24/14 17:00	

Comments:

Authorized Signature
10/3/2013
Date

Note:
If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-263
www.wecklabs.com

GEOSCIENCE

GEOSCIENCE Support Services, Inc. | P (909) 451-6650 | F (909) 451-6638
620 W. Arrow Highway, Suite 2000, La Verne, CA 91750 | Mailing: P.O. Box 220, Claremont, CA 91711