



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 1, 2024

David Garcia
Herrera Environmental Consultants, Inc.
2200 6th Avenue, Suite 1100
Seattle, WA 98121

Re: Analytical Data for Project 19-07202-006, Task 18
Laboratory Reference No. 2410-172

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on October 11, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', followed by a long horizontal flourish.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 1, 2024
Samples Submitted: October 11, 2024
Laboratory Reference: 2410-172
Project: 19-07202-006, Task 18

Case Narrative

Samples were collected on October 11, 2024 and received by the laboratory on October 11, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: November 1, 2024
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 Project: 19-07202-006, Task 18

**TOTAL SUSPENDED SOLIDS
SM 2540D**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RichardsBelRM0.4-20241011					
Laboratory ID:	10-172-01					
Total Suspended Solids	ND	0.80	SM 2540D	10-14-24	10-14-24	

Client ID:	VasaBelRM0.1-20241011					
Laboratory ID:	10-172-02					
Total Suspended Solids	ND	0.80	SM 2540D	10-14-24	10-14-24	

Client ID:	WestTribFarmRM0.4-20241011					
Laboratory ID:	10-172-03					
Total Suspended Solids	ND	0.80	SM 2540D	10-14-24	10-14-24	

Client ID:	ValleyAPTS_21-20241011					
Laboratory ID:	10-172-04					
Total Suspended Solids	ND	0.80	SM 2540D	10-14-24	10-14-24	

Client ID:	YarrowMain_21-20241011					
Laboratory ID:	10-172-05					
Total Suspended Solids	ND	0.80	SM 2540D	10-14-24	10-14-24	

Client ID:	NewportBelRM0.0-20241011					
Laboratory ID:	10-172-06					
Total Suspended Solids	ND	0.80	SM 2540D	10-14-24	10-14-24	

Client ID:	QA25Tier2-20241011					
Laboratory ID:	10-172-07					
Total Suspended Solids	ND	0.80	SM 2540D	10-14-24	10-14-24	



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**TOTAL SUSPENDED SOLIDS
 SM 2540D
 QUALITY CONTROL**

Matrix: Water

Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1014W2					
Total Suspended Solids	ND	0.80	SM 2540D	10-14-24	10-14-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-172-01							
	ORIG	DUP						
Total Suspended Solids	ND	ND	NA	NA	NA	NA	41	

SPIKE BLANK								
Laboratory ID:	SB1014W1							
	SB	SB		SB				
Total Suspended Solids	92.0	100	NA	92	62-112	NA	NA	



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TURBIDITY
EPA 180.1

Matrix: Water
 Units: NTU

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: RichardsBelRM0.4-20241011						
Laboratory ID: 10-172-01						
Turbidity	2.2	0.10	EPA 180.1	10-11-24	10-11-24	

Client ID: VasaBelRM0.1-20241011						
Laboratory ID: 10-172-02						
Turbidity	5.1	0.10	EPA 180.1	10-11-24	10-11-24	

Client ID: WestTribFarmRM0.4-20241011						
Laboratory ID: 10-172-03						
Turbidity	2.2	0.10	EPA 180.1	10-11-24	10-11-24	

Client ID: ValleyAPTS_21-20241011						
Laboratory ID: 10-172-04						
Turbidity	1.9	0.10	EPA 180.1	10-11-24	10-11-24	

Client ID: YarrowMain_21-20241011						
Laboratory ID: 10-172-05						
Turbidity	2.9	0.10	EPA 180.1	10-11-24	10-11-24	

Client ID: NewportBelRM0.0-20241011						
Laboratory ID: 10-172-06						
Turbidity	1.9	0.10	EPA 180.1	10-11-24	10-11-24	

Client ID: QA25Tier2-20241011						
Laboratory ID: 10-172-07						
Turbidity	2.7	0.10	EPA 180.1	10-11-24	10-11-24	



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**TURBIDITY
 EPA 180.1
 QUALITY CONTROL**

Matrix: Water
 Units: NTU

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1011W1					
Turbidity	ND	0.10	EPA 180.1	10-11-24	10-11-24	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	10-161-01								
	ORIG	DUP							
Turbidity	3.50	3.71	NA	NA	NA	NA	6	19	



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TOTAL PHOSPHORUS
EPA 365.1

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RichardsBelRM0.4-20241011					
Laboratory ID:	10-172-01					
Total Phosphorus	0.067	0.011	EPA 365.1	10-14-24	10-15-24	

Client ID:	VasaBelRM0.1-20241011					
Laboratory ID:	10-172-02					
Total Phosphorus	0.033	0.011	EPA 365.1	10-14-24	10-15-24	

Client ID:	WestTribFarmRM0.4-20241011					
Laboratory ID:	10-172-03					
Total Phosphorus	0.047	0.011	EPA 365.1	10-14-24	10-15-24	

Client ID:	ValleyAPTS_21-20241011					
Laboratory ID:	10-172-04					
Total Phosphorus	0.040	0.011	EPA 365.1	10-14-24	10-15-24	

Client ID:	YarrowMain_21-20241011					
Laboratory ID:	10-172-05					
Total Phosphorus	0.039	0.011	EPA 365.1	10-14-24	10-15-24	

Client ID:	NewportBelRM0.0-20241011					
Laboratory ID:	10-172-06					
Total Phosphorus	0.053	0.011	EPA 365.1	10-14-24	10-15-24	

Client ID:	QA25Tier2-20241011					
Laboratory ID:	10-172-07					
Total Phosphorus	0.049	0.011	EPA 365.1	10-14-24	10-15-24	



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**TOTAL PHOSPHORUS
 EPA 365.1
 QUALITY CONTROL**

Matrix: Water

Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1014W1					
Total Phosphorus	ND	0.011	EPA 365.1	10-14-24	10-15-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-172-01							
	ORIG	DUP						
Total Phosphorus	0.0665	0.0649	NA	NA	NA	NA	2	23

MATRIX SPIKE

Laboratory ID:	10-172-01							
	MS	MS		MS				
Total Phosphorus	0.304	0.250	0.0665	95	80-109	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1014W1							
	SB	SB		SB				
Total Phosphorus	0.233	0.250	NA	93	76-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Am Test Inc.
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October 30, 2024

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Project: OSE
Project Number: 19-07202-006, Task 18
COC Number: 10-172

David Baumeister:

Enclosed please find the analytical data for your OSE project.

Your sample(s) were received on Friday, October 11, 2024 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Aaron Young". The signature is fluid and cursive, with the first name "Aaron" and last name "Young" clearly distinguishable.

ElementStationManager For Aaron Young

President

aarony@amtestlab.com

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(425) 885-1664
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ANALYSIS REPORT

Date Received: 10/11/24
Date Reported: 10/30/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A24J0252-01	RichardsBelRM0.4-20241011	Water		10/11/2024	10/11/2024
A24J0252-02	VasaBelRM0.1-20241011	Water		10/11/2024	10/11/2024
A24J0252-03	WestTribFarmRM0.4-20241011	Water		10/11/2024	10/11/2024
A24J0252-04	ValleyAPTS_21-20241011	Water		10/11/2024	10/11/2024
A24J0252-05	YarrowMain_21-20241011	Water		10/11/2024	10/11/2024
A24J0252-06	NewportBelRM0.0-20241011	Water		10/11/2024	10/11/2024
A24J0252-07	QA25Tier2-20241011	Water		10/11/2024	10/11/2024
A24J0252-08	Goff132nd_21-20241011	Water		10/11/2024	10/11/2024
A24J0252-09	IdylwoodArdmore_21-20241011	Water		10/11/2024	10/11/2024
A24J0252-10	Lkhrst405RM0.3-20241011	Water		10/11/2024	10/11/2024
A24J0252-11	NewcastleTrib_21-20241011	Water		10/11/2024	10/11/2024
A24J0252-12	PhantomBelRM0.1-20241011	Water		10/11/2024	10/11/2024
A24J0252-13	SearsRavine_21-20241011	Water		10/11/2024	10/11/2024
A24J0252-14	Sturtevant8th_21-20241011	Water		10/11/2024	10/11/2024
A24J0252-15	SunsetRavine_21-20241011	Water		10/11/2024	10/11/2024
A24J0252-16	MeydebauerBelRM0.1-20241011	Water		10/11/2024	10/11/2024
A24J0252-17	QA25Tier3-20241011	Water		10/11/2024	10/11/2024

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ANALYSIS REPORT

Date Received: 10/11/24
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OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

AMTEST Identification Number: A24J0252-01
Client Identification: RichardsBelRM0.4-20241011
Sampling Date: 10/11/24 11:20

Conventional Chemistry Parameters by APHA/EPA Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Total Nitrate + Nitrite	0.055	mg/L		0.020	EPA 353.2_2_1993	LF	10/28/2024
Total Kjeldahl Nitrogen	0.44	mg/L		0.25	EPA 351.2_2_1993	LF	10/30/2024
Total Nitrogen	0.494	mg/L			Calculated	LF	10/30/2024

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	25	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

AMTEST Identification Number: A24J0252-02
Client Identification: VasaBelRM0.1-20241011
Sampling Date: 10/11/24 10:20

Conventional Chemistry Parameters by APHA/EPA Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Total Nitrate + Nitrite	0.344	mg/L		0.020	EPA 353.2_2_1993	LF	10/28/2024
Total Kjeldahl Nitrogen	0.35	mg/L		0.25	EPA 351.2_2_1993	LF	10/30/2024
Total Nitrogen	0.695	mg/L			Calculated	LF	10/30/2024

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	57	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

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OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

AMTEST Identification Number: A24J0252-03
Client Identification: WestTribFarmRM0.4-20241011
Sampling Date: 10/11/24 11:35

Conventional Chemistry Parameters by APHA/EPA Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Total Nitrate + Nitrite	0.359	mg/L		0.020	EPA 353.2_2_1993	LF	10/28/2024
Total Kjeldahl Nitrogen	0.45	mg/L		0.25	EPA 351.2_2_1993	LF	10/30/2024
Total Nitrogen	0.806	mg/L			Calculated	LF	10/30/2024

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	11	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

AMTEST Identification Number: A24J0252-04
Client Identification: ValleyAPTS_21-20241011
Sampling Date: 10/11/24 11:00

Conventional Chemistry Parameters by APHA/EPA Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Total Nitrate + Nitrite	0.415	mg/L		0.020	EPA 353.2_2_1993	LF	10/28/2024
Total Kjeldahl Nitrogen	0.47	mg/L		0.25	EPA 351.2_2_1993	LF	10/30/2024
Total Nitrogen	0.885	mg/L			Calculated	LF	10/30/2024

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	148	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

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Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

AMTEST Identification Number: A24J0252-05
Client Identification: YarrowMain_21-20241011
Sampling Date: 10/11/24 09:30

Conventional Chemistry Parameters by APHA/EPA Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Total Nitrate + Nitrite	0.782	mg/L		0.020	EPA 353.2_2_1993	LF	10/28/2024
Total Kjeldahl Nitrogen	0.37	mg/L		0.25	EPA 351.2_2_1993	LF	10/30/2024
Total Nitrogen	1.15	mg/L			Calculated	LF	10/30/2024

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	550	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

AMTEST Identification Number: A24J0252-06
Client Identification: NewportBelRM0.0-20241011
Sampling Date: 10/11/24 09:35

Conventional Chemistry Parameters by APHA/EPA Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Total Nitrate + Nitrite	0.935	mg/L		0.020	EPA 353.2_2_1993	LF	10/28/2024
Total Kjeldahl Nitrogen	0.41	mg/L		0.25	EPA 351.2_2_1993	LF	10/30/2024
Total Nitrogen	1.35	mg/L			Calculated	LF	10/30/2024

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	86	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

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Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

AMTEST Identification Number: A24J0252-07
Client Identification: QA25Tier2-20241011
Sampling Date: 10/11/24 11:35

Conventional Chemistry Parameters by APHA/EPA Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Total Nitrate + Nitrite	0.360	mg/L		0.020	EPA 353.2_2_1993	LF	10/28/2024
Total Kjeldahl Nitrogen	0.39	mg/L		0.25	EPA 351.2_2_1993	LF	10/30/2024
Total Nitrogen	0.746	mg/L			Calculated	LF	10/30/2024

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	21	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

AMTEST Identification Number: A24J0252-08
Client Identification: Goff132nd_21-20241011
Sampling Date: 10/11/24 11:15

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	32	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

AMTEST Identification Number: A24J0252-09
Client Identification: IdylwoodArdmore_21-20241011
Sampling Date: 10/11/24 10:15

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	6	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

AMTEST Identification Number: A24J0252-10
Client Identification: Lkhrst405RM0.3-20241011
Sampling Date: 10/11/24 09:30

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	34	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

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Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

AMTEST Identification Number: A24J0252-11
Client Identification: NewcastleTrib_21-20241011
Sampling Date: 10/11/24 10:00

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	10	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

AMTEST Identification Number: A24J0252-12
Client Identification: PhantomBelRM0.1-20241011
Sampling Date: 10/11/24 10:30

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	2	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

AMTEST Identification Number: A24J0252-13
Client Identification: SearsRavine_21-20241011
Sampling Date: 10/11/24 10:00

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	11	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

AMTEST Identification Number: A24J0252-14
Client Identification: Sturtevant8th_21-20241011
Sampling Date: 10/11/24 11:50

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	59	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

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ANALYSIS REPORT

Date Received: 10/11/24
Date Reported: 10/30/24

OnSite Environmental Inc.
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

AMTEST Identification Number: A24J0252-15
Client Identification: SunsetRavine_21-20241011
Sampling Date: 10/11/24 10:35

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	60	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

AMTEST Identification Number: A24J0252-16
Client Identification: MeydebauerBelRM0.1-20241011
Sampling Date: 10/11/24 11:40

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	112	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

AMTEST Identification Number: A24J0252-17
Client Identification: QA25Tier3-20241011
Sampling Date: 10/11/24 10:00

Microbiological Parameters by APHA Standard Methods

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
E. Coli	7	CFU/100 mL		1	SM 9222 D+G	JN	10/11/2024

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ANALYSIS REPORT

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Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

Date Received: 10/11/24
Date Reported: 10/30/24

Quality Control

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBJ0306 - No Prep - WetChem										
Blank (BBJ0306-BLK1)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	ND	U	0.020	mg/L						
Blank (BBJ0306-BLK2)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	ND	U	0.020	mg/L						
Blank (BBJ0306-BLK3)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	ND	U	0.020	mg/L						
Blank (BBJ0306-BLK4)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	ND	U	0.020	mg/L						
LCS (BBJ0306-BS1)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	0.517		0.020	mg/L	0.5000		103%	90-110%		
LCS (BBJ0306-BS2)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	0.511		0.020	mg/L	0.5000		102%	90-110%		
LCS (BBJ0306-BS3)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	0.511		0.020	mg/L	0.5000		102%	90-110%		
LCS (BBJ0306-BS4)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	0.526		0.020	mg/L	0.5000		105%	90-110%		
Calibration Blank (BBJ0306-CCB1)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	-0.005	U		mg/L						
Calibration Blank (BBJ0306-CCB2)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	-0.006	U		mg/L						
Calibration Blank (BBJ0306-CCB3)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	-0.006	U		mg/L						
Calibration Blank (BBJ0306-CCB4)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	-0.006	U		mg/L						
Calibration Blank (BBJ0306-CCB5)					Prepared & Analyzed: 10/28/24					

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Project #: 19-07202-006, Task 18

Date Received: 10/11/24
Date Reported: 10/30/24

Quality Control (Continued)

Conventional Chemistry Parameters by APHA/EPA Methods (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBJ0306 - No Prep - WetChem (Continued)										
Calibration Blank (BBJ0306-CCB5)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	-0.006	U		mg/L						
Calibration Blank (BBJ0306-CCB6)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	-0.009	U		mg/L						
Calibration Blank (BBJ0306-CCB7)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	-0.008	U		mg/L						
Calibration Blank (BBJ0306-CCB8)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	-0.006	U		mg/L						
Calibration Check (BBJ0306-CCV1)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	1.02		0.020	mg/L	1.000		102%	85-115%		
Calibration Check (BBJ0306-CCV2)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	1.01		0.020	mg/L	1.000		101%	85-115%		
Calibration Check (BBJ0306-CCV3)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	0.978		0.020	mg/L	1.000		98%	85-115%		
Calibration Check (BBJ0306-CCV4)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	1.04		0.020	mg/L	1.000		104%	85-115%		
Calibration Check (BBJ0306-CCV5)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	1.02		0.020	mg/L	1.000		102%	85-115%		
Calibration Check (BBJ0306-CCV6)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	1.04		0.020	mg/L	1.000		104%	85-115%		
Calibration Check (BBJ0306-CCV7)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	1.02		0.020	mg/L	1.000		102%	85-115%		
Calibration Check (BBJ0306-CCV8)					Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	1.01		0.020	mg/L	1.000		101%	85-115%		
Duplicate (BBJ0306-DUP1)					Source: A24J0174-02		Prepared & Analyzed: 10/28/24			

ANALYSIS REPORT

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14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

Date Received: 10/11/24
Date Reported: 10/30/24

Quality Control (Continued)

Conventional Chemistry Parameters by APHA/EPA Methods (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBJ0306 - No Prep - WetChem (Continued)										
Duplicate (BBJ0306-DUP1)			Source: A24J0174-02		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	19.2		0.800	mg/L		19.7			2	20
Duplicate (BBJ0306-DUP2)			Source: A24J0177-03		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	ND	U	0.020	mg/L		ND				20
Duplicate (BBJ0306-DUP3)			Source: A24J0199-04		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	ND	U	0.020	mg/L		ND				20
Duplicate (BBJ0306-DUP4)			Source: A24J0199-14		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	ND	U	0.020	mg/L		ND				20
Duplicate (BBJ0306-DUP5)			Source: A24J0235-03		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	1.47		0.020	mg/L		1.45			1	20
Duplicate (BBJ0306-DUP6)			Source: A24J0252-04		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	0.406		0.020	mg/L		0.415			2	20
Duplicate (BBJ0306-DUP7)			Source: A24J0293-01		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	0.294		0.020	mg/L		0.303			3	20
Duplicate (BBJ0306-DUP8)			Source: A24J0323-01		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	0.259		0.020	mg/L		0.256			0.9	20
Matrix Spike (BBJ0306-MS1)			Source: A24J0174-02		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	58.7		0.800	mg/L	40.00	19.7	97%	85-115%		
Matrix Spike (BBJ0306-MS2)			Source: A24J0177-03		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	0.974		0.020	mg/L	1.000	ND	97%	85-115%		
Matrix Spike (BBJ0306-MS3)			Source: A24J0199-04		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	0.976		0.020	mg/L	1.000	ND	98%	85-115%		
Matrix Spike (BBJ0306-MS4)			Source: A24J0199-14		Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	0.992		0.020	mg/L	1.000	ND	99%	85-115%		
Matrix Spike (BBJ0306-MS5)			Source: A24J0235-03		Prepared & Analyzed: 10/28/24					

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Project Name: OSE
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Date Received: 10/11/24
Date Reported: 10/30/24

Quality Control
(Continued)

Conventional Chemistry Parameters by APHA/EPA Methods (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BBJ0306 - No Prep - WetChem (Continued)

Matrix Spike (BBJ0306-MS5)		Source: A24J0235-03			Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	2.45		0.020	mg/L	1.000	1.45	100%	85-115%		
Matrix Spike (BBJ0306-MS6)		Source: A24J0252-04			Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	1.41		0.020	mg/L	1.000	0.415	100%	85-115%		
Matrix Spike (BBJ0306-MS7)		Source: A24J0293-01			Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	1.32		0.020	mg/L	1.000	0.303	101%	85-115%		
Matrix Spike (BBJ0306-MS8)		Source: A24J0323-01			Prepared & Analyzed: 10/28/24					
Total Nitrate + Nitrite	1.26		0.020	mg/L	1.000	0.256	100%	85-115%		

Batch: BBJ0422 - No Prep - WetChem

Blank (BBJ0422-BLK1)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	ND	U	0.25	mg/L						
Blank (BBJ0422-BLK2)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	ND	U	0.25	mg/L						
LCS (BBJ0422-BS1)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	0.51		0.25	mg/L	0.5000		102%	85-115%		
LCS (BBJ0422-BS2)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	0.51		0.25	mg/L	0.5000		103%	85-115%		
Calibration Blank (BBJ0422-CCB1)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	0.001			mg/L						
Calibration Blank (BBJ0422-CCB2)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	0.002			mg/L						
Calibration Blank (BBJ0422-CCB3)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	0.005			mg/L						
Calibration Blank (BBJ0422-CCB4)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	0	U		mg/L						

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ANALYSIS REPORT

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Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

Date Received: 10/11/24
Date Reported: 10/30/24

Quality Control (Continued)

Conventional Chemistry Parameters by APHA/EPA Methods (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBJ0422 - No Prep - WetChem (Continued)										
Calibration Check (BBJ0422-CCV1)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	1.00		0.25	mg/L	1.000		100%	85-115%		
Calibration Check (BBJ0422-CCV2)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	1.00		0.25	mg/L	1.000		100%	85-115%		
Calibration Check (BBJ0422-CCV3)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	0.99		0.25	mg/L	1.000		99%	85-115%		
Calibration Check (BBJ0422-CCV4)					Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	1.01		0.25	mg/L	1.000		101%	85-115%		
Duplicate (BBJ0422-DUP1)					Source: A24J0252-05 Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	0.43		0.25	mg/L		0.37			15	25
Duplicate (BBJ0422-DUP2)					Source: A24J0293-01 Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	0.27		0.25	mg/L		0.27			2	25
Duplicate (BBJ0422-DUP3)					Source: A24J0324-03 Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	36.1		12.5	mg/L		34.3			5	25
Duplicate (BBJ0422-DUP4)					Source: A24J0324-04 Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	3.61		2.50	mg/L		3.46			4	25
Matrix Spike (BBJ0422-MS1)					Source: A24J0252-05 Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	2.40		0.25	mg/L	2.000	0.37	101%	80-120%		
Matrix Spike (BBJ0422-MS2)					Source: A24J0293-01 Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	2.32		0.25	mg/L	2.000	0.27	102%	80-120%		
Matrix Spike (BBJ0422-MS3)					Source: A24J0324-03 Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	84.2		12.5	mg/L	50.00	34.3	100%	80-120%		
Matrix Spike (BBJ0422-MS4)					Source: A24J0324-04 Prepared: 10/29/24 Analyzed: 10/30/24					
Total Kjeldahl Nitrogen	13.4		2.50	mg/L	10.00	3.46	100%	80-120%		

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OnSite Environmental Inc.
14648 NE 95th ST
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Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

Quality Control
(Continued)

Microbiological Parameters by APHA Standard Methods

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBJ0324 - No Prep - Micro										
Calibration Blank (BBJ0324-CCB1)					Prepared & Analyzed: 10/11/24					
E. Coli	0			CFU/100 mL						
Calibration Blank (BBJ0324-CCB2)					Prepared & Analyzed: 10/11/24					
E. Coli	0			CFU/100 mL						
Calibration Blank (BBJ0324-CCB3)					Prepared & Analyzed: 10/11/24					
E. Coli	0			CFU/100 mL						
Calibration Blank (BBJ0324-CCB4)					Prepared & Analyzed: 10/11/24					
E. Coli	0			CFU/100 mL						
Duplicate (BBJ0324-DUP1)					Prepared & Analyzed: 10/11/24					
E. Coli	9		1	CFU/100 mL		12			29	64.4
Duplicate (BBJ0324-DUP2)					Prepared & Analyzed: 10/11/24					
E. Coli	46		1	CFU/100 mL		25			59	64.4
Duplicate (BBJ0324-DUP3)					Prepared & Analyzed: 10/11/24					
E. Coli	20		1	CFU/100 mL		19			5	64.4

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ANALYSIS REPORT

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Date Reported: 10/30/24

OnSite Environmental Inc.
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Redmond, WA 98052
Attention: David Baumeister
Project Name: OSE
Project #: 19-07202-006, Task 18

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.



14648 NE 95th Street, Redmond, WA 98052 · (425) 833-3881

Laboratory: AmTest Laboratories

Attention: Aaron Young

13600 NE 126th Pl Kirkland, WA 98034

Phone Number: (425) 885-1664

A2450252

Laboratory Reference #: 10-172

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 19-07202-006, Task 18

Project Name:

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
01	RichardsBelRM0.4-20241011	10/11/24	11:20	W	2	E. Coli, Total Nitrogen
02	VasBelRM0.1-20241011	10/11/24	10:20	W	2	E. Coli, Total Nitrogen
03	WestTribFarmRM0.4-20241011	10/11/24	11:35	W	2	E. Coli, Total Nitrogen
04	ValleyAPTS. 21-20241011	10/11/24	11:00	W	2	E. Coli, Total Nitrogen
05	YarrowMain. 21-20241011	10/11/24	9:30	W	2	E. Coli, Total Nitrogen
06	NewportBelRM0.0-20241011	10/11/24	9:35	W	2	E. Coli, Total Nitrogen
07	QA25Tier2-20241011	10/11/24	11:35	W	2	E. Coli, Total Nitrogen
08	Goff132nd. 21-20241011	10/11/24	11:15	W	1	E. Coli
09	IdylwoodArdmore. 21-20241011	10/11/24	10:15	W	1	E. Coli
10	LkHrs1405RM0.3-20241011	10/11/24	9:30	W	1	E. Coli
Comments/Special Instructions						
Relinquished by:	<i>[Signature]</i>	<i>OST</i>	<i>10/11/24 1:10 PM</i>	<i>7.6 °C</i>	EIM	
Received by:	<i>[Signature]</i>	<i>AmTest</i>	<i>10/11/24 1:10 PM</i>			
Relinquished by:						
Received by:						
Relinquished by:						
Received by:						

Laboratory Reference #: 10-1772

Turnaround Request

Project Manager: David Baumeister

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

Standard

Project Number: 19-07202-006, Task 18

Other: _____

Project Name: _____

[illegible]

14648 NE 95th Street, Redmond, WA 98052
Telephone: 425.883.3881

Project Manager: David Garcia (dgarcia@herrerainc.com)

<u>X</u>	Standard
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10-172

E. coli
(SM 9222G1)

Comments: