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4/15/2015

iSpring Water Systems Test Report

Pearl Cai
iSpring Water Systems, LLC
3020 Trotters Parkway
Alpharetta, GA 30004

Report Number:	REP.7168.1501L.041515.01
Certification Project #:	7168.1401C
Project Manager:	Kyle Langille, CWS
Test Unit:	7168.1501L.03
Model:	FA15 with UVF11A Filters with TT-3-2G-W storage tank
Test Method:	Materials Extraction NSF/ANSI Standard 58-2013, Section 4, Without Media
Deviation:	No
Test Completion Date:	March 17, 2015
Test Results:	**PASS**

Dear Pearl Cai,

Thank you for having your product tested with the Water Quality Association. We appreciate your business and look forward to working with you on future testing and certification projects. Note that 2 tenatively identified compounds (TICs) and 2 unknown contaminants were detected with the Semivolatile Organics analysis. The unknowns have been reviewed by WQA's Analytical Laboratory Supervisor who has deem them to be in compliance with the NSF/ANSI Standard. In the mean time, please provide any available documents that can help identify these unknown compounds. All other extracted parameters meet the requirements of NSF/ANSI Standard.

Should you have any questions or need additional information, please feel free to contact your Project Manager.

Report Reviewed By: Kristin Licko

Kristin Licko, BS, CWS-VI, Toxicology Manager — 4/15/15 Date

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Date Testing Completed: 3/17/2015
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Materials Extraction NSF/ANSI Standard 58-2013, Section 4, Without Media

Parameter	CAS Registry Number	Reporting Limit (RL)	Corrected Sample Results[1]	Total Allowable Concentration (TAC)	Units
Volatile Organic Compounds				EPA Method 524.3	
1,1,1,2-Tetrachloroethane	630-20-6	0.5	ND	10	µg/L
1,1,1-Trichloroethane	71-55-6	0.5	ND	200	µg/L
1,1,2,2-Tetrachloroethane	79-34-5	0.5	ND	2	µg/L
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0.5	ND	*	µg/L
1,1,2-Trichloroethane	79-00-5	0.5	ND	5	µg/L
1,1-Dichloroethane	75-34-3	0.5	ND	3	µg/L
1,1-Dichloroethene	75-35-4	0.5	ND	7	µg/L
1,1-Dichloropropanone	513-88-2	5	ND	*	µg/L
1,1-Dichloropropene	563-58-6	0.5	ND	3	µg/L
1,2,3-Trichlorobenzene	87-61-6	0.5	ND	3	µg/L
1,2,3-Trichloropropane	96-18-4	0.5	ND	40	µg/L
1,2,3-Trimethylbenzene	526-73-8	0.5	ND	10	µg/L
1,2,4-Trichlorobenzene	120-82-1	0.5	ND	70	µg/L
1,2,4-Trimethylbenzene	95-63-6	0.5	ND	10	µg/L
1,2-Dibromo-3-chloropropane	96-12-8	0.2	ND	0.2	µg/L
1,2-Dibromoethane	106-93-4	0.5	ND	0.05	µg/L
1,2-Dichlorobenzene	95-50-1	0.5	ND	600	µg/L
1,2-Dichloroethane	107-06-2	0.5	ND	5	µg/L
1,2-Dichloropropane	78-87-5	0.5	ND	5	µg/L
1,3,5-Trimethylbenzene	108-67-8	0.5	ND	10	µg/L
1,3-Butadiene	106-99-0	0.05	ND	100	µg/L
1,3-Dichlorobenzene	541-73-1	0.5	ND	600	µg/L
1,3-Dichloropropane	142-28-9	0.5	ND	140	µg/L
1,4-Dichlorobenzene	106-46-7	1	ND	75	µg/L
1-Chlorobutane	109-69-3	5	ND	*	µg/L
2,2-Dichloropropane	594-20-7	0.5	ND	*	µg/L
2-Butanone (MEK)	78-93-3	5	ND	4,000	µg/L
2-Chloro-1,3-butadiene	126-99-8	0.5	ND	*	µg/L
2-Chlorotoluene	95-49-8	0.5	ND	100	µg/L
2-Ethyl-1-hexanol	104-76-7	5	ND	800	µg/L
2-Hexanone	591-78-6	5	ND	35	µg/L
2-Methyl-1,3-butadiene	78-79-5	5	ND	*	µg/L
4-Chlorotoluene	106-43-4	0.5	ND	100	µg/L
4-Isopropyltoluene	99-87-6	0.5	ND	3	µg/L
4-Methyl-2-pentanone	108-10-1	5	ND	7,000	µg/L
Acetone	67-64-1	5	49.0	6,000	µg/L
Acrylonitrile	107-13-1	0.2	ND	0.6	µg/L
Allyl chloride	107-05-1	5	ND	300	µg/L
Benzene	71-43-2	0.5	ND	5	µg/L
bis(2-Chloroethyl)ether	111-44-4	0.5	ND	0.3	µg/L
Bromobenzene	108-86-1	0.2	ND	3	µg/L
Bromochloromethane	74-97-5	0.5	ND	90	µg/L
Bromodichloromethane	75-27-4	0.5	ND	Refer to TTHM	µg/L
Bromoform	75-25-2	0.5	ND	Refer to TTHM	µg/L
Bromomethane	74-83-9	0.5	ND	10	µg/L
Carbon disulfide	75-15-0	5	143	700	µg/L
Carbon tetrachloride	56-23-5	0.5	ND	5	µg/L
Chloroacetonitrile	107-14-2	5	ND	*	µg/L
Chlorobenzene	108-90-7	0.5	ND	100	µg/L

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Volatile Organic Compounds continued				EPA Method 524.3	
Chloroethane	75-00-3	0.5	ND	*	µg/L
Chloroform	67-66-3	0.5	ND	Refer to TTHM	µg/L
Chloromethane	74-87-3	0.5	ND	30	µg/L
cis-1,2-Dichloroethene	156-59-2	0.5	ND	70	µg/L
cis-1,3-Dichloropropene	10061-01-5	0.5	ND	Refer to TDCP	µg/L
Cyclohexanone	108-94-1	5	ND	30,000	µg/L
Dibromochloromethane	124-48-1	0.5	ND	Refer to TTHM	µg/L
Dibromomethane	74-95-3	0.5	ND	*	µg/L
Dichlorodifluoromethane	75-71-8	0.5	ND	3	µg/L
Diethyl ether	60-29-7	5	ND	*	µg/L
Diisopropyl ether (DIPE)	108-20-3	5	ND	*	µg/L
Ethyl acrylate	140-88-5	0.5	ND	10	µg/L
Ethyl methacrylate	97-63-2	5	ND	10	µg/L
Ethylbenzene	100-41-4	0.5	ND	700	µg/L
Hexachlorobutadiene	87-68-3	0.5	ND	3	µg/L
Hexachloroethane	67-72-1	0.5	ND	9	µg/L
Iodomethane	74-88-4	0.5	ND	3	µg/L
Isopropylbenzene	98-82-8	0.5	ND	700	µg/L
m&p-Xylenes	179601-23-1	1	ND	Refer to TX	µg/L
Methacrylonitrile	126-98-7	5	ND	10	µg/L
Methyl Acetate	79-20-9	5	ND	*	µg/L
Methyl acrylate	96-33-3	0.5	ND	3	µg/L
Methyl methacrylate	80-62-6	5	ND	10,000	µg/L
Methyl tert-butyl ether (MTBE)	1634-04-4	0.5	ND	2	µg/L
Methylene chloride (Dichloromethane)	75-09-2	0.5	ND	5	µg/L
n-Butyl acrylate	141-32-2	5	ND	10	µg/L
n-Butylbenzene	104-51-8	0.5	ND	3	µg/L
n-Propylbenzene	103-65-1	0.5	ND	260	µg/L
o-Xylene	95-47-6	0.5	ND	Refer to TX	µg/L
Pentachloroethane	76-01-7	5	ND	*	µg/L
sec-Butylbenzene	135-98-8	0.5	ND	3	µg/L
Styrene	100-42-5	0.5	ND	100	µg/L
TDCP (Total 1,3-Dichloropropene)	542-75-6	1	ND	4	µg/L
Tert Butyl Ethyl Ether (ETBE)	637-92-3	5	ND	20,000	µg/L
Tert-amyl ethyl ether	919-94-8	5	ND	3	µg/L
Tert-amyl methyl ether (TAME)	994-05-8	5	ND	*	µg/L
tert-Butanol	75-65-0	5	ND	9,000	µg/L
tert-Butylbenzene	98-06-6	0.5	ND	*	µg/L
Tetrachloroethene	127-18-4	0.5	ND	5	µg/L
Tetrahydrofuran	109-99-9	5	ND	1,000	µg/L
Toluene	108-88-3	0.5	ND	1,000	µg/L
trans-1,2-Dichloroethene	156-60-5	0.5	ND	100	µg/L
trans-1,3-Dichloropropene	10061-02-6	0.5	ND	Refer to TDCP	µg/L
trans-1,4-Dichloro-2-butene	110-57-6	5	ND	*	µg/L
Trichloroethylene	79-01-6	0.5	ND	5	µg/L
Trichlorofluoromethane	75-69-4	0.5	ND	2,000	µg/L
TTHM (Total Trihalomethanes)	Various	0.5	ND	80	µg/L
TX (Total Xylenes)	1330-20-7	1.5	ND	10,000	µg/L
Vinyl chloride	75-01-4	0.2	ND	2	µg/L

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Parameter	CAS Registry Number	Reporting Limit (RL)	Corrected Sample Results[1]	Total Allowable Concentration (TAC)	Units
Semivolatile Organics - Required Polynuclear Aromatic Hydrocarbon (PNA) Compounds					EPA Method 625
2-Methylnaphthalene	91-57-6	0.4	ND	30	µg/L
Acenaphthene	83-32-9	0.4	ND	3	µg/L
Acenaphthylene	208-96-8	0.4	ND	3	µg/L
Anthracene	120-12-7	0.2	ND	3	µg/L
Benzo(a)anthracene	56-55-3	0.4	ND	*	µg/L
Benzo(a)pyrene	50-32-8	0.2	ND	0.2	µg/L
Benzo(b)fluoranthene	205-99-2	0.2	ND	*	µg/L
Benzo(g,h,i)perylene	191-24-2	0.6	ND	*	µg/L
Benzo(k)fluoranthene	207-08-9	0.2	ND	*	µg/L
Chrysene	218-01-9	0.3	ND	3	µg/L
Dibenzo(a,h)anthracene	53-70-3	0.4	ND	*	µg/L
Fluoranthene	206-44-0	0.2	ND	3	µg/L
Fluorene	86-73-7	0.4	ND	300	µg/L
Indeno(1,2,3-cd)pyrene	193-39-5	0.2	ND	*	µg/L
Naphthalene	91-20-3	0.5	ND	100	µg/L
Phenanthrene	85-01-8	0.2	ND	3	µg/L
Pyrene	129-00-0	0.6	ND	3	µg/L
Semivolatile Organics - Required Other Compounds					EPA Method 625
2,4,6-Trichlorophenol	88-06-2	1	ND	5	µg/L
2,4-Dichlorophenol	120-83-2	1	ND	3	µg/L
2,4-Dimethylphenol	105-67-9	2	ND	100	µg/L
2,4-Dinitrophenol	51-28-5	1	ND	*	µg/L
2,6-Di-tert-butyl-4-methoxyphenol	489-01-0	3	ND	3	µg/L
2-Chlorophenol	95-57-8	1	ND	*	µg/L
2-Nitrophenol	88-75-5	1	ND	3	µg/L
2-Phenyl-2-propanol	617-94-7	0.6	ND	300	µg/L
3,3-Dichlorobenzidine	91-94-1	1	ND	0.8	µg/L
4,6-Dinitro-2-methylphenol	534-52-1	1	ND	*	µg/L
4-Chloro-3-methylphenol	59-50-7	1	ND	700	µg/L
4-Nitrophenol	100-02-7	1	ND	60	µg/L
4-tert-Butylphenol	98-54-4	2	ND	500	µg/L
Acetophenone	98-86-2	0.6	1.6	200	µg/L
Benzothiazole	95-16-9	1	ND	50	µg/L
Bis(2-ethylhexyl)adipate	103-23-1	0.5	ND	400	µg/L
Bis(2-ethylhexyl)phthalate	117-81-7	1	ND	6	µg/L
Bisphenol A	80-05-7	1	ND	100	µg/L
Butyl benzyl phthalate	85-68-7	1	ND	1,000	µg/L
Diethyl phthalate	84-66-2	1	ND	6,000	µg/L
Dimethyl phthalate	131-11-3	1	ND	3	µg/L
Di-n-butyl phthalate	84-74-2	2	ND	700	µg/L
Di-n-octyl phthalate	117-84-0	1.1	ND	10	µg/L
Isophorone	78-59-1	0.5	ND	400	µg/L
m,p-Cresol	108-39-4, 106-44-5	1	ND	3	µg/L
N-Nitroso-di-n-butylamine	924-16-3	0.7	ND	0.06	µg/L
N-Nitrosodi-n-propylamine	621-64-7	1	ND	0.05	µg/L
N-Nitrosodiphenylamine	86-30-6	0.3	ND	70	µg/L
o-Cresol	95-48-7	1	ND	400	µg/L
Pentachlorophenol	87-86-5	0.5	ND	1	µg/L
Phenol	108-95-2	0.5	ND	2,000	µg/L
Phenyl sulfone	127-63-9	0.2	ND	3	µg/L

Analysis Report

REP.7168.1501L.041515.01

Company: iSpring Water Systems

Model: FA15 with UVF11A Filters with TT-3-2G-W storage tank

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Test Unit #: 7168.1501L.03

Materials Extraction NSF/ANSI Standard 58-2013, Section 4, Without Media

Parameter	CAS Registry Number	Reporting Limit (RL)	Corrected Sample Results[1]	Total Allowable Concentration (TAC)	Units
Semivolatile Organics, Tentatively identified Compounds (TICs)					EPA Method 625
1-Butanamine, N-butyl-, r.t. 6.04	111-92-2		3.2	10	µg/L
Formamide, N,N-dibutyl-, r.t. 10.181	761-65-9		2.1	10	µg/L
Semivolatile Organics - Unknown Compounds					EPA Method 625
Unknown non-aromatic, nitrogenous compound, r.t. 20.158	MW>367		3.4	Cleared	µg/L
Unknown non-aromatic, nitrogenous compound, r.t. 21.131	MW>394		3.6	Cleared	µg/L
Regulated Metals	**pH 6.5**				EPA Method 200.8
Antimony	7440-36-0	0.2	ND	6	µg/L
Arsenic	7440-38-2	0.2	ND	10	µg/L
Barium	7440-39-3	0.2	ND	2,000	µg/L
Beryllium	7440-41-7	0.2	ND	4	µg/L
Cadmium	7440-43-9	0.2	ND	5	µg/L
Chromium	7440-47-3	0.5	ND	100	µg/L
Copper	7440-50-8	0.5	ND	1,300	µg/L
Lead	7439-92-1	0.2	ND	5	µg/L
Mercury	7439-97-6	0.2	ND	2	µg/L
Selenium	7782-49-2	1	ND	50	µg/L
Thallium	7440-28-0	0.2	ND	2	µg/L
Other Metals	**pH 6.5**				EPA Method 200.8
Aluminum	7429-90-5	0.5	1.4	9,000	µg/L
Magnesium	7439-95-4	3	42.0	Cleared	µg/L
Nickel	7440-02-0	0.1	ND	100	µg/L
Titanium	7440-32-6	1	ND	90,000	µg/L
Zinc	7440-66-6	0.4	32.9	3,000	µg/L
Radionuclides					EPA Method 7110 B
Gross Alpha	12587-46-1	N/A	ND	15	pCi/L
Gross Beta[2]	12587-47-2	N/A	0.8	50	pCi/L

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Exposure Temperature:	23°C
Flushing / Conditioning Procedure Used:	Fill and empty the storage tank. The test units were then exposed for 3-24 hour periods, with the exposure water changed between periods and combined at the end of the exposure sequence.
Holding Volume Used:	3.2 gallons
Final Exposure Time:	24 hours

* Action level for the analyte is not available. If the sample result is below reporting limit, the specific analyte is not evaluated in the certification process. If the sample result is at or above reporting limit, the specific analyte would need a toxicological risk assessment in determining a pass/fail criteria.

[1] Corrected Sample Results are corrected for process blank concentration.

[2] Gross Beta Results are corrected by subtracting the concentration of the Process Blank and Potassium-40 in pCi/L.

Testing Labs

Product Testing	WQA Product Testing Laboratory
EPA Method 524.3	WQA Analytical Laboratory
EPA Method 625	Suburban Laboratories, Inc.
EPA Method 200.8	WQA Analytical Laboratory
EPA Method 7110 B	Eurofins Eaton Analytical, Inc.

Non-target analytes specifically required by the preliminary toxicological review will be listed under Tentatively Identified Compounds (TICs). If a non-target analyte was to be searched for and not found, then it shall be reported as "Non Detected".

Non-target analytes not specifically required by the preliminary toxicological review will show as Tentatively Identified Compounds (TICs) if found to be present within their respective scans. If a non-target analyte is not listed as a TIC, then it is not present at reportable levels for this testing.

This report has been reviewed for technical accuracy and completeness. The analyses were performed using EPA or other approved methodologies and the results were reported on an "as received" basis unless otherwise noted. These results relate only to the items tested. Sample analyses conducted for this laboratory report were performed by WQA or by a WQA recognized testing laboratory.

Definitions:

CAS Registry Number = Chemical Abstracts Service Registry Number; an unique, universal number assigned to individual compounds.

Cleared = This unknown compound was detected and has been reviewed by WQA's Analytical Laboratory Supervisor who has deemed it to be compliant to the relevant Standard(s).

N/A = Not available.

ND = Non Detected, the corrected sample result is lower than reporting limit.

TDCP = Total 1,3-Dichloropropene: total concentration of mixed isomers, cis-1,3-dichloropropene, and trans-1,3-dichloropropene.

TTHM = Total Trihalomethanes: total concentration of the following compounds; bromodichloromethane, bromoform, chlorodibromomethane, chloroform.

TX = Total Xylenes: total concentration of o-xylene, m-xylene and p-xylene.

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