



CERTIFICATE OF ANALYSIS

REPORTED TO Mountainview Regional Water Services Commission
35566 Rge Rd 10
Red Deer County, AB T4G 0H5

ATTENTION Wesley Olstad

PO NUMBER
PROJECT Schedule 4 - Code of Practice
PROJECT INFO

WORK ORDER 8082721

RECEIVED / TEMP 2018-08-29 10:00 / 15°C
REPORTED 2018-09-17 10:31

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO 17025:2005 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

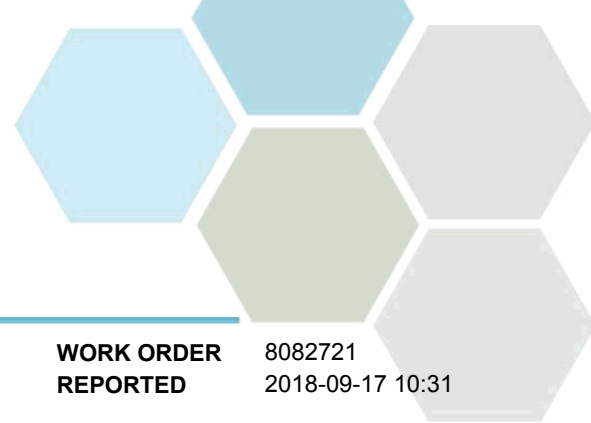
If you have any questions or concerns, please contact me at jshanko@caro.ca

Authorized By:

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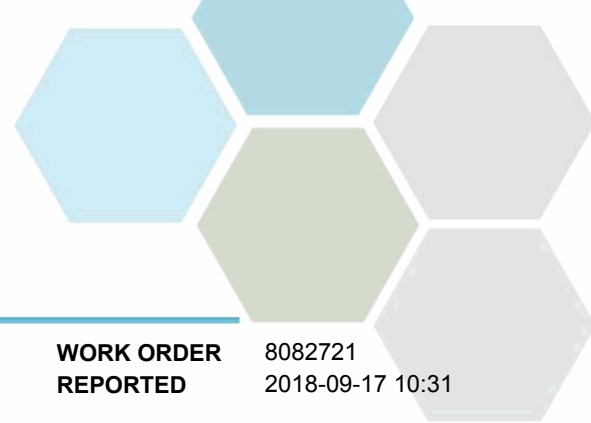


TEST RESULTS

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WORK ORDER REPORTED 8082721
2018-09-17 10:31

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
Treated (8082721-01) Matrix: Water Sampled: 2018-08-28 10:45					
Anions					
Bromate	< 0.010	MAC = 0.01	0.010 mg/L	2018-08-31	
Chlorate	< 0.50	MAC = 1	0.50 mg/L	2018-08-29	
Chloride	4.03	AO ≤ 250	0.50 mg/L	2018-08-29	
Chlorite	< 0.50	MAC = 1	0.50 mg/L	2018-08-29	
Fluoride	0.11	MAC = 1.5	0.10 mg/L	2018-08-29	
Nitrate (as N)	< 0.050	MAC = 10	0.050 mg/L	2018-08-29	
Nitrite (as N)	< 0.050	MAC = 1	0.050 mg/L	2018-08-29	
Sulfate	41.9	AO ≤ 500	1.0 mg/L	2018-08-29	
General Parameters					
Alkalinity, Total (as CaCO3)	144	N/A	2.0 mg/L	2018-08-31	
Bicarbonate (HCO3)	175	N/A	2.0 mg/L	2018-08-31	
Carbonate (CO3)	< 2.0	N/A	2.0 mg/L	2018-08-31	
Hydroxide (OH)	< 2.0	N/A	2.0 mg/L	2018-08-31	
Ammonia, Total (as N)	0.062	None Required	0.050 mg/L	2018-08-31	
Carbon, Total Organic	2.73	N/A	0.50 mg/L	2018-09-04	
Chlorine, Total	1.11	None Required	0.02 mg/L	2018-08-30	HT2
Chlorine, Free	0.98	N/A	0.02 mg/L	2018-08-30	HT2
Colour, True	< 5.0	AO ≤ 15	5.0 CU	2018-08-30	
Conductivity (EC)	354	N/A	2.0 µS/cm	2018-08-29	
Cyanide, Total	< 0.0050	MAC = 0.2	0.0020 mg/L	2018-09-06	
Nitilotriacetic Acid	< 0.20	MAC = 0.4	0.20 mg/L	2018-09-01	
pH	7.58	7.0-10.5	0.10 pH units	2018-08-31	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020 mg/L	2018-08-29	
Turbidity	< 0.10	OG < 1	0.10 NTU	2018-08-30	
Calculated Parameters					
Total Trihalomethanes	0.0680	MAC = 0.1	0.00400 mg/L	N/A	
Chloramines	0.130	MAC = 3	0.0200 mg/L	N/A	
Hardness, Total (as CaCO3)	168	None Required	0.500 mg/L	N/A	
Ion Balance	91.7	N/A	%	N/A	
Nitrate+Nitrite (as N)	< 0.0500	N/A	0.0500 mg/L	N/A	
Solids, Total Dissolved	196	AO ≤ 500	2.00 mg/L	N/A	
Dissolved Metals					
Calcium, dissolved	43.3	N/A	0.20 mg/L	2018-09-07	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2018-09-07	
Magnesium, dissolved	14.5	N/A	0.010 mg/L	2018-09-07	
Manganese, dissolved	< 0.00020	N/A	0.00020 mg/L	2018-09-07	
Potassium, dissolved	0.81	N/A	0.10 mg/L	2018-09-07	
Sodium, dissolved	4.02	N/A	0.10 mg/L	2018-09-07	
Total Metals					
Aluminum, total	0.0358	OG < 0.1	0.0050 mg/L	2018-09-05	



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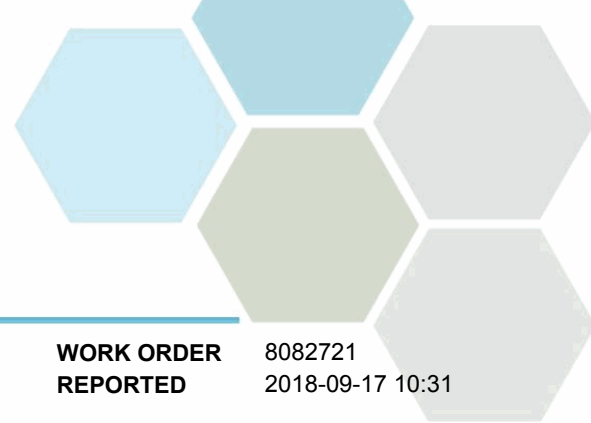
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated (8082721-01) Matrix: Water Sampled: 2018-08-28 10:45, Continued						
<i>Total Metals, Continued</i>						
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2018-09-05	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2018-09-05	
Barium, total	0.0979	MAC = 1	0.0050	mg/L	2018-09-05	
Beryllium, total	< 0.00010	N/A	0.00010	mg/L	2018-09-05	
Bismuth, total	< 0.00010	N/A	0.00010	mg/L	2018-09-05	
Boron, total	0.0206	MAC = 5	0.0050	mg/L	2018-09-05	
Cadmium, total	0.000015	MAC = 0.005	0.000010	mg/L	2018-09-05	
Calcium, total	44.2	None Required	0.20	mg/L	2018-09-05	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2018-09-05	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2018-09-05	
Copper, total	0.00054	AO ≤ 1	0.00040	mg/L	2018-09-05	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2018-09-05	
Lead, total	< 0.00020	MAC = 0.01	0.00020	mg/L	2018-09-05	
Lithium, total	0.00437	N/A	0.00010	mg/L	2018-09-05	
Magnesium, total	14.6	None Required	0.010	mg/L	2018-09-05	
Manganese, total	0.00029	AO ≤ 0.05	0.00020	mg/L	2018-09-05	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2018-09-04	
Molybdenum, total	0.00106	N/A	0.00010	mg/L	2018-09-05	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2018-09-05	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2018-09-05	
Potassium, total	1.00	N/A	0.10	mg/L	2018-09-05	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2018-09-05	
Silicon, total	2.1	N/A	1.0	mg/L	2018-09-05	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2018-09-05	
Sodium, total	4.16	AO ≤ 200	0.10	mg/L	2018-09-05	
Strontium, total	0.356	N/A	0.0010	mg/L	2018-09-05	
Sulfur, total	13.3	N/A	3.0	mg/L	2018-09-05	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2018-09-05	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2018-09-05	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2018-09-05	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2018-09-05	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2018-09-05	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2018-09-05	
Uranium, total	0.000148	MAC = 0.02	0.000020	mg/L	2018-09-05	
Vanadium, total	< 0.0010	N/A	0.0010	mg/L	2018-09-05	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2018-09-05	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2018-09-05	

Microbiological Parameters

Microcystin, total	< 0.14	MAC = 1.5	0.14	µg/L	2018-09-04	
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Haloacetic Acids

Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2018-09-01	
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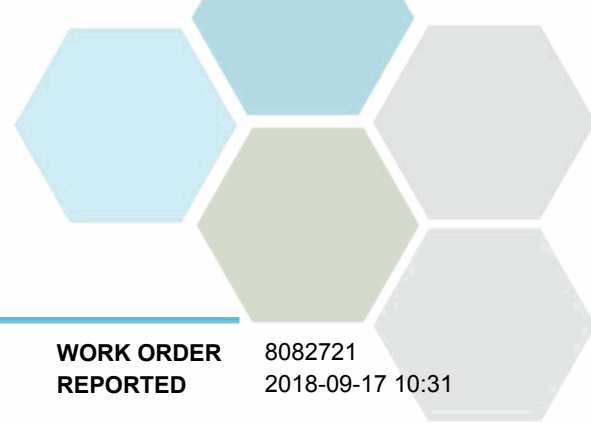


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Treated (8082721-01) Matrix: Water Sampled: 2018-08-28 10:45, Continued						
<i>Haloacetic Acids, Continued</i>						
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2018-09-01	
Dichloroacetic Acid	0.0197	N/A	0.0020	mg/L	2018-09-01	
Trichloroacetic Acid	0.0197	N/A	0.0020	mg/L	2018-09-01	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2018-09-01	
Total Haloacetic Acids (HAA5)	0.0394	MAC = 0.08	0.00200	mg/L	N/A	
<i>Surrogate: 2-Bromopropionic Acid</i>	95		70-130	%	2018-09-01	
<i>Miscellaneous Organics</i>						
N-Nitrosodimethylamine	< 0.0010	MAC = 0.04	0.0010	µg/L	2018-08-30	
<i>Carbamates</i>						
Aldicarb	< 0.0010	N/A	0.0010	mg/L	2018-09-11	
Bendiocarb	< 0.0010	N/A	0.0010	mg/L	2018-09-11	
Carbaryl	< 0.0010	MAC = 0.09	0.0010	mg/L	2018-09-11	
Carbofuran	< 0.0010	MAC = 0.09	0.0010	mg/L	2018-09-11	
<i>Acid Herbicides</i>						
2,4,5-T	< 0.10	N/A	0.10	µg/L	2018-09-13	
2,4-D	< 0.10	MAC = 100	0.10	µg/L	2018-09-13	
Dicamba	< 0.10	MAC = 120	0.10	µg/L	2018-09-13	
Dinoseb	< 0.10	N/A	0.10	µg/L	2018-09-13	
MCPA	< 0.20	MAC = 100	0.20	µg/L	2018-09-13	
Picloram	< 0.10	MAC = 190	0.10	µg/L	2018-09-13	
<i>Surrogate: 2,4-DCAA</i>	82		60-114	%	2018-09-13	
<i>Miscellaneous Herbicides</i>						
Diquat	< 0.0100	MAC = 0.07	0.0100	mg/L	2018-09-04	
Paraquat	< 0.0050	MAC = 0.007	0.0050	mg/L	2018-09-04	
Glyphosate	< 0.050	MAC = 0.28	0.050	mg/L	2018-09-04	
<i>Pesticides, Herbicides, and Fungicides</i>						
Alachlor	< 0.100	N/A	0.100	µg/L	2018-09-06	
Aldrin	< 0.006	N/A	0.006	µg/L	2018-09-06	
Atrazine and metabolites	< 0.100	MAC = 5	0.100	µg/L	2018-09-06	
Azinphos-methyl	< 0.200	MAC = 20	0.200	µg/L	2018-09-06	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2018-09-06	
beta-BHC	< 0.050	N/A	0.050	µg/L	2018-09-06	
delta-BHC	< 0.050	N/A	0.050	µg/L	2018-09-06	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2018-09-06	
Bromacil	< 0.100	N/A	0.100	µg/L	2018-09-06	
Bromoxynil	< 0.200	MAC = 5	0.200	µg/L	2018-09-06	
Butachlor	< 0.020	N/A	0.020	µg/L	2018-09-06	
Captan	< 0.100	N/A	0.100	µg/L	2018-09-06	
Chlordane (cis + trans)	< 0.050	N/A	0.050	µg/L	2018-09-06	



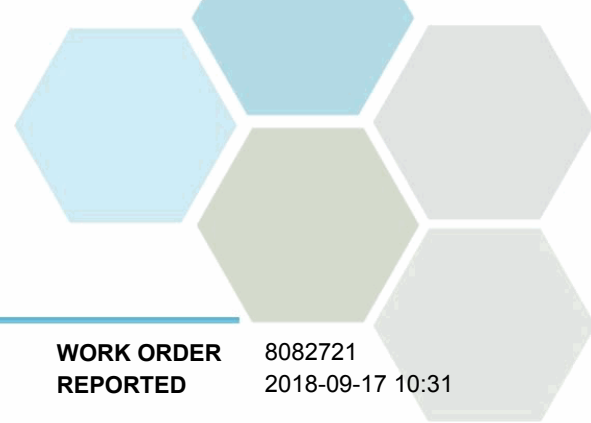
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<i>Pesticides, Herbicides, and Fungicides, Continued</i>						
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2018-09-06	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2018-09-06	
Cyanazine	< 0.100	N/A	0.100	µg/L	2018-09-06	
DDT, Total	< 0.010	N/A	0.010	µg/L	2018-09-06	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2018-09-06	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2018-09-06	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2018-09-06	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2018-09-06	
Dieldrin	< 0.010	N/A	0.010	µg/L	2018-09-06	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2018-09-06	
Disulfoton	< 0.100	N/A	0.100	µg/L	2018-09-06	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2018-09-06	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2018-09-06	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2018-09-06	
Endrin	< 0.020	N/A	0.020	µg/L	2018-09-06	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2018-09-06	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2018-09-06	
Fenchlorphos (Ronnel)	< 0.100	N/A	0.100	µg/L	2018-09-06	
Heptachlor	< 0.010	N/A	0.010	µg/L	2018-09-06	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2018-09-06	
Linuron	< 0.050	N/A	0.050	µg/L	2018-09-06	
Malathion	< 0.100	MAC = 190	0.100	µg/L	2018-09-06	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2018-09-06	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2018-09-06	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2018-09-06	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2018-09-06	
Parathion	< 0.100	N/A	0.100	µg/L	2018-09-06	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2018-09-06	
Permethrin (cis + trans)	< 0.010	N/A	0.010	µg/L	2018-09-06	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2018-09-06	
Prometon	< 0.300	N/A	0.300	µg/L	2018-09-06	
Prometryne	< 0.100	N/A	0.100	µg/L	2018-09-06	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2018-09-06	
Sulfotep	< 0.100	N/A	0.100	µg/L	2018-09-06	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2018-09-06	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2018-09-06	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2018-09-06	
Triallate	< 0.100	N/A	0.100	µg/L	2018-09-06	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2018-09-06	
Surrogate: Tributyl Phosphate	89		50-140	%	2018-09-06	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	93		50-140	%	2018-09-06	

Chlorinated Phenols



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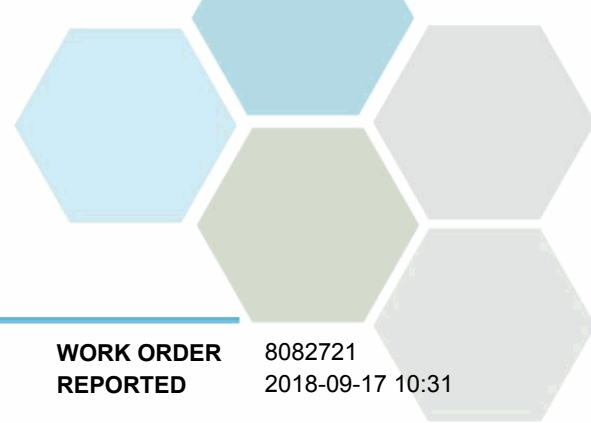
Treated (8082721-01) | Matrix: Water | Sampled: 2018-08-28 10:45, Continued

Chlorinated Phenols, Continued

2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2018-09-05	
3 & 4-Chlorophenol	< 0.10	N/A	0.10	µg/L	2018-09-05	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2018-09-05	
2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2018-09-05	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20	µg/L	2018-09-05	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2018-09-05	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2018-09-05	
3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2018-09-05	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2018-09-05	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2018-09-05	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2018-09-05	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2018-09-05	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50	µg/L	2018-09-05	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2018-09-05	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2018-09-05	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50	µg/L	2018-09-05	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50	µg/L	2018-09-05	
Surrogate: 2,4-Dibromophenol	66		60-130	%	2018-09-05	
Surrogate: 2,4,6-Tribromophenol	66		60-130	%	2018-09-05	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	N/A	0.050	µg/L	2018-09-06	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2018-09-06	
Acridine	< 0.050	N/A	0.050	µg/L	2018-09-06	
Anthracene	< 0.010	N/A	0.010	µg/L	2018-09-06	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2018-09-06	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2018-09-06	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2018-09-06	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2018-09-06	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2018-09-06	
2-Chloronaphthalene	< 0.100	N/A	0.100	µg/L	2018-09-06	
Chrysene	< 0.050	N/A	0.050	µg/L	2018-09-06	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2018-09-06	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2018-09-06	
Fluorene	< 0.050	N/A	0.050	µg/L	2018-09-06	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2018-09-06	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2018-09-06	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2018-09-06	
Naphthalene	< 0.200	N/A	0.200	µg/L	2018-09-06	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2018-09-06	
Pyrene	< 0.020	N/A	0.020	µg/L	2018-09-06	
Quinoline	0.069	N/A	0.050	µg/L	2018-09-06	
Surrogate: Acridine-d9	65		50-140	%	2018-09-06	

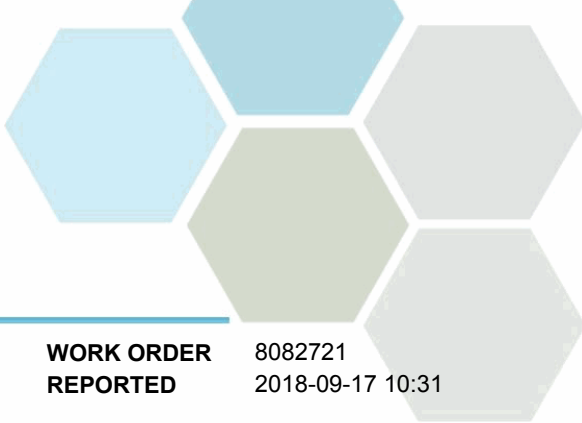


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<i>Polycyclic Aromatic Hydrocarbons (PAH), Continued</i>						
Surrogate: Naphthalene-d8	74		50-140	%	2018-09-06	
Surrogate: Perylene-d12	35		50-140	%	2018-09-06	S02
<i>Volatile Organic Compounds (VOC)</i>						
Benzene	< 0.5	MAC = 5	0.5	µg/L	2018-08-30	
Bromodichloromethane	3.7	N/A	1.0	µg/L	2018-08-30	
Bromodichloromethane	0.0030	N/A	0.0010	mg/L	2018-08-31	
Bromoform	< 1.0	N/A	1.0	µg/L	2018-08-30	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2018-08-31	
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2018-08-30	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2018-08-30	
Chloroethane	< 2.0	N/A	2.0	µg/L	2018-08-30	
Chloroform	64.3	N/A	1.0	µg/L	2018-08-30	
Chloroform	0.0704	N/A	0.0010	mg/L	2018-08-31	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2018-08-31	
Dibromochloromethane	< 1.0	N/A	1.0	µg/L	2018-08-30	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2018-08-30	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2018-08-30	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5	µg/L	2018-08-30	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2018-08-30	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2018-08-30	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2018-08-30	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2018-08-30	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0	µg/L	2018-08-30	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2018-08-30	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2018-08-30	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2018-08-30	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2018-08-30	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2018-08-30	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2018-08-30	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2018-08-30	
Styrene	< 1.0	N/A	1.0	µg/L	2018-08-30	
1,1,1,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2018-08-30	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2018-08-30	
Toluene	< 1.0	AO ≤ 24	1.0	µg/L	2018-08-30	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2018-08-30	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2018-08-30	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2018-08-30	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2018-08-30	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2018-08-30	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2018-08-30	
Surrogate: Toluene-d8	117		70-130	%	2018-08-30	
Surrogate: 4-Bromofluorobenzene	96		70-130	%	2018-08-30	



TEST RESULTS

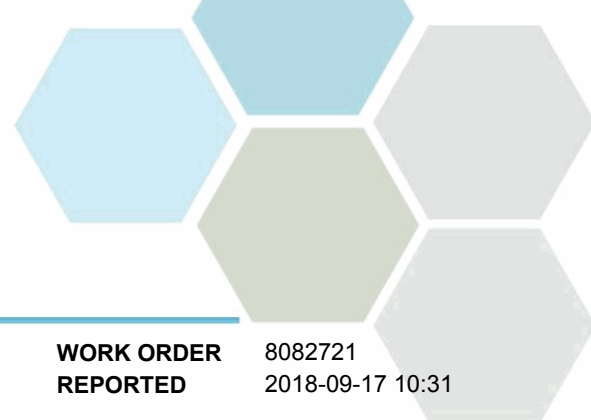
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated (8082721-01) Matrix: Water Sampled: 2018-08-28 10:45, Continued						
<i>Volatile Organic Compounds (VOC), Continued</i>						
Surrogate: 1,4-Dichlorobenzene-d4	96		70-130	%	2018-08-30	

Sample Qualifiers:

- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
- S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.



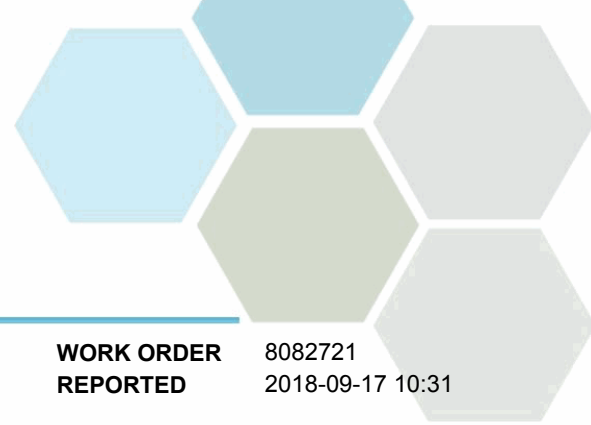
APPENDIX 1: SUPPORTING INFORMATION

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Analysis Description	Method Ref.	Technique	Location
Acid Herbicides in Water	EPA 8151A*	DCM Extraction with Diazomethane Derivatization, GC-MS	Richmond
Alkalinity in Water	SM 2320 B* (2011)	Titration with H ₂ SO ₄	Edmonton
Ammonia, Total in Water	SM 4500-NH ₃ D* (2011)	Ion Selective Electrode	Edmonton
Anions in Water	SM 4110 B (2011)	Ion Chromatography	Edmonton
Bromate in Water	SM 4110 B (2011)	Ion Chromatography	Sublet
Carbamates in Water	EPA 531.2*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	Richmond
Carbon, Total Organic in Water	SM 5310 B (2011)	Combustion, Infrared CO ₂ Detection	Kelowna
Chlorine, Free in Water	SM 4500-Cl G (2011)	Colorimetry (DPD)	Edmonton
Chlorine, Total in Water	SM 4500-Cl G (2011)	Colorimetry (DPD)	Edmonton
Colour, True in Water	SM 2120 C (2011)	Spectrophotometry (456 nm)	Edmonton
Conductivity in Water	SM 2510 B (2011)	Conductivity Meter	Edmonton
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	Kelowna
Cyanobacterial Toxins in Water	EPA 546*	Adda Enzyme-Linked Immunosorbent Assay (ELISA)	Sublet
Diquat/Paraquat in Water	EPA 549.2*	Liquid-Solid Extraction and HPLC-DAD	Richmond
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	Richmond
Glyphosate in Water	EPA 547*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	Richmond
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	Richmond
Hardness in Water	SM 2340 B (2011)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	N/A
Ion Balance in Water	SM 1030 E (2011)	Calculation: 100 x (([Cations]-[Anions])/([Cations]+[Anions]))	N/A
Mercury, total in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Nitilotriacetic Acid in Water	EPA 430.1	Manual Colorimetry (Zinc-Zincon)	Kelowna
N-Nitrosodimethylamine in Water	In-House	N/A	Sublet
Pesticides in Water	EPA 3510C* / EPA 8270D*	Liquid-Liquid DCM Extraction (B/N) / GC-MSD (SIM)	Richmond
pH in Water	SM 4500-H+ B (2011)	Electrometry	Edmonton
Phenols, Chlorinated in Water	EPA 3510C* / EPA 8270D	Liquid-Liquid DCM Extraction (Acidic) / GC-MSD (SIM)	Richmond
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MSD (SIM)	Richmond
Solids, Total Dissolved in Water	SM 1030 E (2011)	Calculation: 100 x (([Cations]-[Anions])/([Cations]+[Anions]))	N/A
Sulfide, Total in Water	SM 4500-S ₂ D* (2011)	Colorimetry (Methylene Blue)	Edmonton
Total Metals in Water	EPA 200.2* / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	Richmond
Turbidity in Water	SM 2130 B (2011)	Nephelometry	Edmonton
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	Richmond

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method



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Glossary of Terms:

RL	Reporting Limit (default)
%	Percent
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CU	Colour Units (referenced against a platinum cobalt standard)
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µg/L	Micrograms per litre
µS/cm	Microsiemens per centimetre
ASTM	ASTM International Test Methods
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

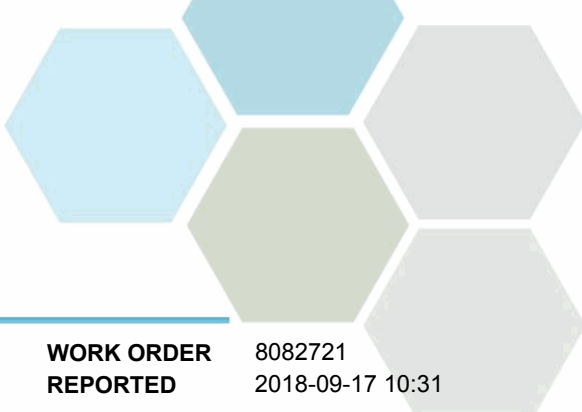
Guidelines Referenced in this Report:

[Guidelines for Canadian Drinking Water Quality \(Health Canada, Feb 2017\)](#)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user

General Comments:

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. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.



APPENDIX 2: QUALITY CONTROL RESULTS

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The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

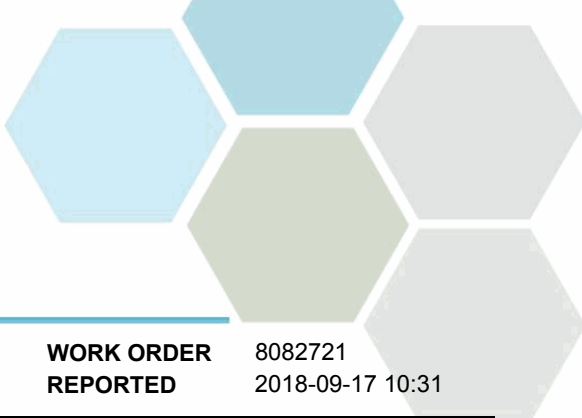
- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Acid Herbicides, Batch B8I0496									
Blank (B8I0496-BLK1)			Prepared: 2018-09-09, Analyzed: 2018-09-13						
2,4,5-T	< 0.10	0.10 µg/L							
2,4-D	< 0.10	0.10 µg/L							
Dicamba	< 0.10	0.10 µg/L							
Dinoseb	< 0.10	0.10 µg/L							
MCPA	< 0.20	0.20 µg/L							
Picloram	< 0.10	0.10 µg/L							
Surrogate: 2,4-DCAA	0.883	µg/L	1.01		87	60-114			
LCS (B8I0496-BS1)			Prepared: 2018-09-09, Analyzed: 2018-09-13						
2,4,5-T	1.10	0.10 µg/L	1.03		107	59-120			
2,4-D	1.01	0.10 µg/L	1.03		98	58-112			
Dicamba	0.73	0.10 µg/L	1.02		72	50-109			
Dinoseb	1.24	0.10 µg/L	1.09		114	50-114			
MCPA	93.6	2.00 µg/L	100		94	50-101			
Picloram	0.82	0.10 µg/L	1.05		78	53-119			
Surrogate: 2,4-DCAA	0.789	µg/L	1.01		78	60-114			
LCS Dup (B8I0496-BSD1)			Prepared: 2018-09-09, Analyzed: 2018-09-13						
2,4,5-T	1.01	0.10 µg/L	1.03		98	59-120	8	30	
2,4-D	0.94	0.10 µg/L	1.03		92	58-112	7	30	
Dicamba	0.83	0.10 µg/L	1.02		82	50-109	12	30	
Dinoseb	0.94	0.10 µg/L	1.09		86	50-114	27	30	
MCPA	91.9	2.00 µg/L	100		92	50-101	2	30	
Picloram	0.93	0.10 µg/L	1.05		89	53-119	12	30	
Surrogate: 2,4-DCAA	0.877	µg/L	1.01		87	60-114			

Anions, Batch B8H2344

Blank (B8H2344-BLK1)			Prepared: 2018-08-29, Analyzed: 2018-08-29						
Chlorate	< 0.50	0.50 mg/L							
Chloride	< 0.50	0.50 mg/L							
Chlorite	< 0.50	0.50 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.050	0.050 mg/L							
Nitrite (as N)	< 0.050	0.050 mg/L							

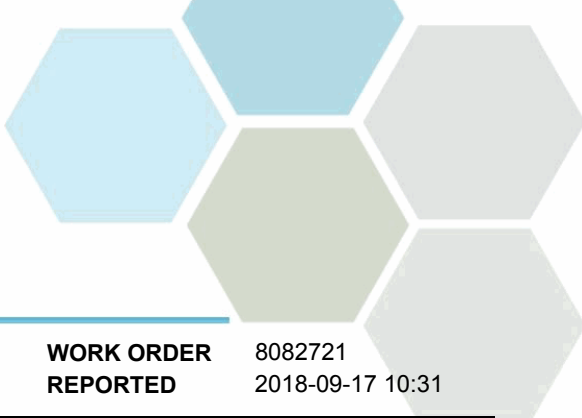


APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Anions, Batch B8H2344, Continued									
Blank (B8H2344-BLK1), Continued Prepared: 2018-08-29, Analyzed: 2018-08-29									
Sulfate	< 1.0	1.0 mg/L							
LCS (B8H2344-BS1) Prepared: 2018-08-29, Analyzed: 2018-08-29									
Chloride	9.48	0.50 mg/L	10.0		95	94-106			
Fluoride	1.00	0.10 mg/L	1.00		100	85-115			
Nitrate (as N)	0.987	0.050 mg/L	1.00		99	92-108			
Nitrite (as N)	0.509	0.050 mg/L	0.500		102	85-110			
Sulfate	49.5	1.0 mg/L	50.0		99	93-108			
LCS (B8H2344-BS2) Prepared: 2018-08-29, Analyzed: 2018-08-29									
Chlorate	7.35	0.50 mg/L	7.50		98	89-112			
Chlorite	3.14	0.50 mg/L	3.00		105	80-120			
Carbamates, Batch B8I0544									
Blank (B8I0544-BLK1) Prepared: 2018-09-11, Analyzed: 2018-09-11									
Aldicarb	< 0.0010	0.0010 mg/L							
Bendiocarb	< 0.0010	0.0010 mg/L							
Carbaryl	< 0.0010	0.0010 mg/L							
Carbofuran	< 0.0010	0.0010 mg/L							
LCS (B8I0544-BS1) Prepared: 2018-09-11, Analyzed: 2018-09-11									
Aldicarb	0.0190	0.0010 mg/L	0.0200		95	80-120			
Bendiocarb	0.0208	0.0010 mg/L	0.0200		104	80-120			
Carbaryl	0.0190	0.0010 mg/L	0.0200		95	80-120			
Carbofuran	0.0211	0.0010 mg/L	0.0200		106	80-120			
LCS Dup (B8I0544-BSD1) Prepared: 2018-09-11, Analyzed: 2018-09-11									
Aldicarb	0.0181	0.0010 mg/L	0.0200		90	80-120	5	20	
Bendiocarb	0.0196	0.0010 mg/L	0.0200		98	80-120	6	20	
Carbaryl	0.0180	0.0010 mg/L	0.0200		90	80-120	6	20	
Carbofuran	0.0196	0.0010 mg/L	0.0200		98	80-120	7	20	
Matrix Spike (B8I0544-MS1) Source: 8082721-01 Prepared: 2018-09-11, Analyzed: 2018-09-11									
Aldicarb	0.0168	0.0010 mg/L	0.0200	< 0.0010	84	70-130			
Bendiocarb	0.0193	0.0010 mg/L	0.0200	< 0.0010	96	70-130			
Carbaryl	0.0171	0.0010 mg/L	0.0200	< 0.0010	86	70-130			
Carbofuran	0.0185	0.0010 mg/L	0.0200	< 0.0010	93	70-130			
Chlorinated Phenols, Batch B8I0115									
Blank (B8I0115-BLK1) Prepared: 2018-09-04, Analyzed: 2018-09-05									
2-Chlorophenol	< 0.10	0.10 µg/L							
3 & 4-Chlorophenol	< 0.10	0.10 µg/L							
4-Chloro-3-Methylphenol	< 0.20	0.20 µg/L							
2,3-Dichlorophenol	< 0.20	0.20 µg/L							
2,4 & 2,5-Dichlorophenol	< 0.20	0.20 µg/L							
2,6-Dichlorophenol	< 0.20	0.20 µg/L							
3,4-Dichlorophenol	< 0.20	0.20 µg/L							
3,5-Dichlorophenol	< 0.20	0.20 µg/L							
2,3,4-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,6-Trichlorophenol	< 0.50	0.50 µg/L							
2,4,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,4,6-Trichlorophenol	< 0.50	0.50 µg/L							



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Chlorinated Phenols, Batch B810115, Continued

Blank (B810115-BLK1), Continued

Prepared: 2018-09-04, Analyzed: 2018-09-05

3,4,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	0.50 µg/L							
2,3,4,6-Tetrachlorophenol	< 0.50	0.50 µg/L							
Pentachlorophenol	< 0.50	0.50 µg/L							
Surrogate: 2,4-Dibromophenol	1.30	µg/L	2.02		64	60-130			
Surrogate: 2,4,6-Tribromophenol	1.25	µg/L	2.01		62	60-130			

LCS (B810115-BS1)

Prepared: 2018-09-04, Analyzed: 2018-09-05

2-Chlorophenol	7.59	0.10 µg/L	10.0		76	60-108			
3 & 4-Chlorophenol	16.8	0.10 µg/L	20.1		84	60-120			
4-Chloro-3-Methylphenol	10.4	0.20 µg/L	10.0		104	60-140			
2,3-Dichlorophenol	8.92	0.20 µg/L	10.0		89	60-111			
2,4 & 2,5-Dichlorophenol	17.6	0.20 µg/L	20.1		88	60-116			
2,6-Dichlorophenol	8.93	0.20 µg/L	10.0		89	60-112			
3,4-Dichlorophenol	9.38	0.20 µg/L	10.0		94	60-120			
3,5-Dichlorophenol	9.09	0.20 µg/L	10.0		91	60-121			
2,3,4-Trichlorophenol	9.56	0.50 µg/L	9.63		99	60-122			
2,3,5-Trichlorophenol	9.35	0.50 µg/L	10.0		93	60-126			
2,3,6-Trichlorophenol	9.42	0.50 µg/L	10.0		94	60-130			
2,4,5-Trichlorophenol	9.30	0.50 µg/L	9.98		93	60-118			
2,4,6-Trichlorophenol	9.11	0.50 µg/L	10.0		91	60-120			
3,4,5-Trichlorophenol	10.3	0.50 µg/L	10.0		103	60-129			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	19.5	0.50 µg/L	20.1		97	60-127			
2,3,4,6-Tetrachlorophenol	9.91	0.50 µg/L	9.93		100	60-127			
Pentachlorophenol	10.7	0.50 µg/L	10.0		107	60-130			
Surrogate: 2,4-Dibromophenol	1.87	µg/L	2.02		93	60-130			
Surrogate: 2,4,6-Tribromophenol	1.78	µg/L	2.01		89	60-130			

LCS Dup (B810115-BSD1)

Prepared: 2018-09-04, Analyzed: 2018-09-05

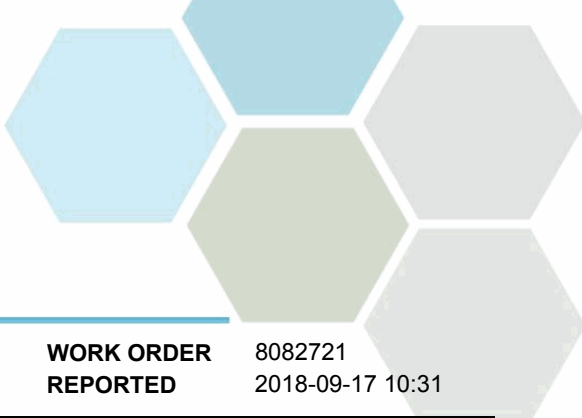
2-Chlorophenol	6.91	0.10 µg/L	10.0		69	60-108	9	32	
3 & 4-Chlorophenol	15.9	0.10 µg/L	20.1		79	60-120	5	21	
4-Chloro-3-Methylphenol	10.0	0.20 µg/L	10.0		100	60-140	4	30	
2,3-Dichlorophenol	8.53	0.20 µg/L	10.0		85	60-111	4	27	
2,4 & 2,5-Dichlorophenol	16.9	0.20 µg/L	20.1		84	60-116	4	22	
2,6-Dichlorophenol	8.51	0.20 µg/L	10.0		85	60-112	5	27	
3,4-Dichlorophenol	8.94	0.20 µg/L	10.0		89	60-120	5	22	
3,5-Dichlorophenol	8.77	0.20 µg/L	10.0		87	60-121	4	23	
2,3,4-Trichlorophenol	9.06	0.50 µg/L	9.64		94	60-122	5	26	
2,3,5-Trichlorophenol	8.92	0.50 µg/L	10.0		89	60-126	5	24	
2,3,6-Trichlorophenol	9.00	0.50 µg/L	10.0		90	60-130	5	26	
2,4,5-Trichlorophenol	8.92	0.50 µg/L	9.99		89	60-118	4	22	
2,4,6-Trichlorophenol	8.74	0.50 µg/L	10.0		87	60-120	4	26	
3,4,5-Trichlorophenol	9.81	0.50 µg/L	10.0		98	60-129	5	19	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	19.0	0.50 µg/L	20.1		95	60-127	3	26	
2,3,4,6-Tetrachlorophenol	9.38	0.50 µg/L	9.94		94	60-127	5	23	
Pentachlorophenol	10.3	0.50 µg/L	10.0		102	60-130	4	17	
Surrogate: 2,4-Dibromophenol	1.78	µg/L	2.02		88	60-130			
Surrogate: 2,4,6-Tribromophenol	1.68	µg/L	2.01		84	60-130			

Dissolved Metals, Batch B810191

Blank (B810191-BLK1)

Prepared: 2018-09-07, Analyzed: 2018-09-07

Calcium, dissolved	< 0.20	0.20 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							

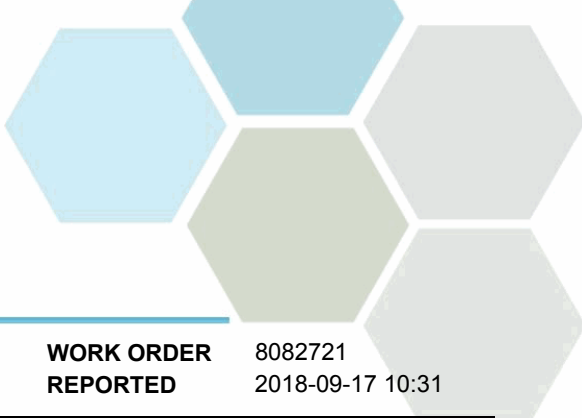


APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B8I0191, Continued									
Blank (B8I0191-BLK1), Continued					Prepared: 2018-09-07, Analyzed: 2018-09-07				
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
LCS (B8I0191-BS1)					Prepared: 2018-09-07, Analyzed: 2018-09-07				
Calcium, dissolved	1.90	0.20 mg/L	2.00		95	80-120			
Iron, dissolved	1.72	0.010 mg/L	2.00		86	80-120			
Magnesium, dissolved	1.90	0.010 mg/L	2.00		95	80-120			
Manganese, dissolved	0.0188	0.00020 mg/L	0.0200		94	80-120			
Potassium, dissolved	1.73	0.10 mg/L	2.00		86	80-120			
Sodium, dissolved	1.90	0.10 mg/L	2.00		95	80-120			
Reference (B8I0191-SRM1)					Prepared: 2018-09-07, Analyzed: 2018-09-07				
Calcium, dissolved	7.18	0.20 mg/L	7.69		93	85-120			
Iron, dissolved	1.12	0.010 mg/L	1.29		87	86-112			
Magnesium, dissolved	6.10	0.010 mg/L	6.92		88	84-116			
Manganese, dissolved	0.315	0.00020 mg/L	0.345		91	85-113			
Potassium, dissolved	2.52	0.10 mg/L	3.19		79	78-119			
Sodium, dissolved	16.6	0.10 mg/L	19.1		87	81-117			
General Parameters, Batch B8H2270									
Blank (B8H2270-BLK1)					Prepared: 2018-08-29, Analyzed: 2018-08-29				
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B8H2270-BS1)					Prepared: 2018-08-29, Analyzed: 2018-08-29				
Conductivity (EC)	1010	2.0 µS/cm	1000		101	95-105			
General Parameters, Batch B8H2326									
Blank (B8H2326-BLK1)					Prepared: 2018-08-29, Analyzed: 2018-08-29				
Sulfide, Total	< 0.020	0.020 mg/L							
LCS (B8H2326-BS1)					Prepared: 2018-08-29, Analyzed: 2018-08-29				
Sulfide, Total	0.464	0.020 mg/L	0.500		93	82-116			
General Parameters, Batch B8H2358									
Blank (B8H2358-BLK1)					Prepared: 2018-08-30, Analyzed: 2018-08-30				
Colour, True	< 5.0	5.0 CU							
LCS (B8H2358-BS1)					Prepared: 2018-08-30, Analyzed: 2018-08-30				
Colour, True	21	5.0 CU	20.0		103	90-109			
Duplicate (B8H2358-DUP1)					Source: 8082721-01 Prepared: 2018-08-30, Analyzed: 2018-08-30				
Colour, True	< 5.0	5.0 CU	< 5.0					4	
General Parameters, Batch B8H2359									
Blank (B8H2359-BLK1)					Prepared: 2018-08-30, Analyzed: 2018-08-30				
Turbidity	< 0.10	0.10 NTU							
LCS (B8H2359-BS1)					Prepared: 2018-08-30, Analyzed: 2018-08-30				
Turbidity	40.3	0.10 NTU	40.0		101	90-110			

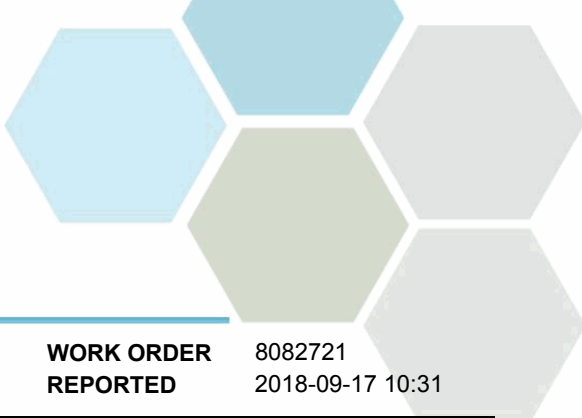


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B8H2409									
Blank (B8H2409-BLK1)			Prepared: 2018-09-04, Analyzed: 2018-09-04						
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B8H2409-BLK2)			Prepared: 2018-09-04, Analyzed: 2018-09-04						
Carbon, Total Organic	< 0.50	0.50 mg/L							
LCS (B8H2409-BS1)			Prepared: 2018-09-04, Analyzed: 2018-09-04						
Carbon, Total Organic	10.6	0.50 mg/L	10.0		106	78-116			
LCS (B8H2409-BS2)			Prepared: 2018-09-04, Analyzed: 2018-09-04						
Carbon, Total Organic	9.11	0.50 mg/L	10.0		91	78-116			
General Parameters, Batch B8H2436									
Blank (B8H2436-BLK1)			Prepared: 2018-08-30, Analyzed: 2018-08-30						
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	< 0.02	0.02 mg/L							
Duplicate (B8H2436-DUP1)			Source: 8082721-01		Prepared: 2018-08-30, Analyzed: 2018-08-30				
Chlorine, Total	1.11	0.02 mg/L		1.11			< 1	10	
Chlorine, Free	1.02	0.02 mg/L		0.98			4	20	
Reference (B8H2436-SRM1)			Prepared: 2018-08-30, Analyzed: 2018-08-30						
Chlorine, Total	1.50	0.02 mg/L	1.49		101	93-105			
Chlorine, Free	1.50	0.02 mg/L	1.49		101	91-109			
General Parameters, Batch B8H2491									
Blank (B8H2491-BLK1)			Prepared: 2018-08-30, Analyzed: 2018-08-31						
Alkalinity, Total (as CaCO ₃)	< 2.0	2.0 mg/L							
Bicarbonate (HCO ₃)	< 2.0	2.0 mg/L							
Carbonate (CO ₃)	< 2.0	2.0 mg/L							
Hydroxide (OH)	< 2.0	2.0 mg/L							
LCS (B8H2491-BS1)			Prepared: 2018-08-30, Analyzed: 2018-08-31						
Alkalinity, Total (as CaCO ₃)	251	2.0 mg/L	250		100	94-108			
General Parameters, Batch B8H2492									
Reference (B8H2492-SRM1)			Prepared: 2018-08-31, Analyzed: 2018-08-31						
pH	7.05	0.10 pH units	7.00		101	98-102			
General Parameters, Batch B8H2497									
Blank (B8H2497-BLK1)			Prepared: 2018-08-31, Analyzed: 2018-08-31						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B8H2497-BS1)			Prepared: 2018-08-31, Analyzed: 2018-08-31						
Ammonia, Total (as N)	0.216	0.050 mg/L	0.200		108	94-113			
General Parameters, Batch B8I0021									
Blank (B8I0021-BLK1)			Prepared: 2018-09-01, Analyzed: 2018-09-01						
Nitriiotriacetic Acid	< 0.20	0.20 mg/L							

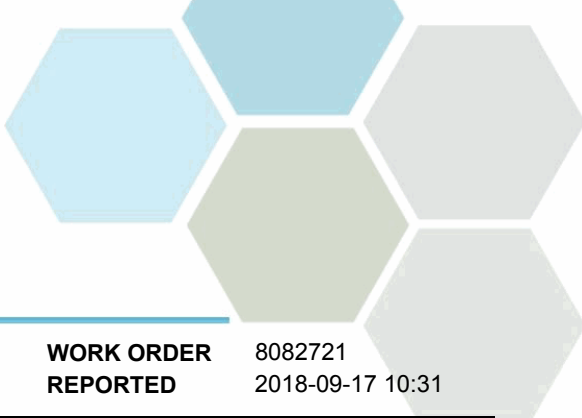


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B8I0021, Continued									
LCS (B8I0021-BS1)			Prepared: 2018-09-01, Analyzed: 2018-09-01						
Nitritotriacetic Acid	0.96	0.20 mg/L	1.00		96	80-120			
LCS Dup (B8I0021-BSD1)			Prepared: 2018-09-01, Analyzed: 2018-09-01						
Nitritotriacetic Acid	1.04	0.20 mg/L	1.00		104	80-120	8		
Duplicate (B8I0021-DUP1)			Source: 8082721-01		Prepared: 2018-09-01, Analyzed: 2018-09-01				
Nitritotriacetic Acid	< 0.20	0.20 mg/L		< 0.20				20	
Matrix Spike (B8I0021-MS1)			Source: 8082721-01		Prepared: 2018-09-01, Analyzed: 2018-09-01				
Nitritotriacetic Acid	2.23	0.20 mg/L	2.04	< 0.20	109	70-130			
General Parameters, Batch B8I0101									
Blank (B8I0101-BLK1)			Prepared: 2018-09-06, Analyzed: 2018-09-06						
Cyanide, Total	< 0.0020	0.0020 mg/L							
LCS (B8I0101-BS1)			Prepared: 2018-09-06, Analyzed: 2018-09-06						
Cyanide, Total	0.0187	0.0020 mg/L	0.0200		94	82-120			
LCS Dup (B8I0101-BSD1)			Prepared: 2018-09-06, Analyzed: 2018-09-06						
Cyanide, Total	0.0200	0.0020 mg/L	0.0200		100	82-120	6	10	
Haloacetic Acids, Batch B8H2444									
Blank (B8H2444-BLK1)			Prepared: 2018-08-30, Analyzed: 2018-09-01						
Monochloroacetic Acid	< 0.0020	0.0020 mg/L							
Monobromoacetic Acid	< 0.0020	0.0020 mg/L							
Dichloroacetic Acid	< 0.0020	0.0020 mg/L							
Trichloroacetic Acid	< 0.0020	0.0020 mg/L							
Dibromoacetic Acid	< 0.0020	0.0020 mg/L							
Surrogate: 2-Bromopropionic Acid	0.0127	mg/L	0.0116		109	70-130			
LCS (B8H2444-BS1)			Prepared: 2018-08-30, Analyzed: 2018-08-31						
Monochloroacetic Acid	0.0588	0.0020 mg/L	0.0558		105	70-130			
Monobromoacetic Acid	0.0375	0.0020 mg/L	0.0368		102	70-130			
Dichloroacetic Acid	0.0549	0.0020 mg/L	0.0567		97	70-130			
Trichloroacetic Acid	0.0187	0.0020 mg/L	0.0190		99	70-130			
Dibromoacetic Acid	0.0192	0.0020 mg/L	0.0188		102	70-130			
Surrogate: 2-Bromopropionic Acid	0.0126	mg/L	0.0116		109	70-130			
LCS Dup (B8H2444-BSD1)			Prepared: 2018-08-30, Analyzed: 2018-08-31						
Monochloroacetic Acid	0.0481	0.0020 mg/L	0.0558		86	70-130	20	30	
Monobromoacetic Acid	0.0349	0.0020 mg/L	0.0368		95	70-130	7	30	
Dichloroacetic Acid	0.0516	0.0020 mg/L	0.0567		91	70-130	6	30	
Trichloroacetic Acid	0.0177	0.0020 mg/L	0.0190		93	70-130	6	30	
Dibromoacetic Acid	0.0188	0.0020 mg/L	0.0188		100	70-130	2	30	
Surrogate: 2-Bromopropionic Acid	0.0106	mg/L	0.0116		91	70-130			
Miscellaneous Herbicides, Batch B8I0043									
Blank (B8I0043-BLK1)			Prepared: 2018-09-04, Analyzed: 2018-09-04						
Diquat	< 0.0100	0.0100 mg/L							
Paraquat	< 0.0050	0.0050 mg/L							



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Miscellaneous Herbicides, Batch B810043, Continued

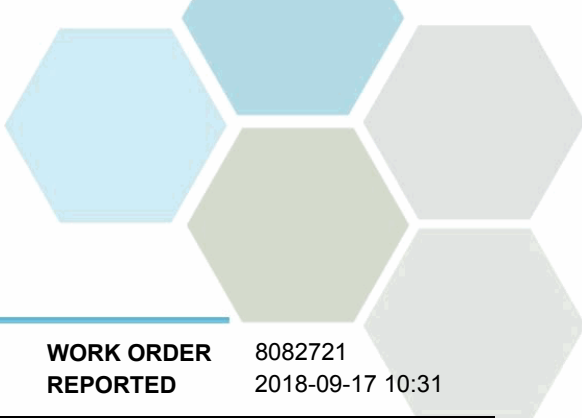
LCS (B810043-BS1)			Prepared: 2018-09-04, Analyzed: 2018-09-04						
Diquat	0.0245	0.0100 mg/L	0.0250		98	80-120			
Paraquat	0.0282	0.0050 mg/L	0.0250		113	80-120			
LCS Dup (B810043-BSD1)			Prepared: 2018-09-04, Analyzed: 2018-09-04						
Diquat	0.0266	0.0100 mg/L	0.0250		106	80-120	8	20	
Paraquat	0.0291	0.0050 mg/L	0.0250		116	80-120	3	20	
Matrix Spike (B810043-MS1)			Source: 8082721-01		Prepared: 2018-09-04, Analyzed: 2018-09-04				
Diquat	0.0293	0.0100 mg/L	0.0250	< 0.0100	117	60-140			
Paraquat	0.0290	0.0050 mg/L	0.0250	< 0.0050	116	60-140			

Miscellaneous Herbicides, Batch B810058

Blank (B810058-BLK1)			Prepared: 2018-09-04, Analyzed: 2018-09-04						
Glyphosate	< 0.050	0.050 mg/L							
LCS (B810058-BS1)			Prepared: 2018-09-04, Analyzed: 2018-09-04						
Glyphosate	0.255	0.050 mg/L	0.251		102	80-120			
LCS Dup (B810058-BSD1)			Prepared: 2018-09-04, Analyzed: 2018-09-04						
Glyphosate	0.286	0.050 mg/L	0.251		114	80-120	11	20	
Matrix Spike (B810058-MS1)			Source: 8082721-01		Prepared: 2018-09-04, Analyzed: 2018-09-04				
Glyphosate	0.295	0.050 mg/L	0.251	< 0.050	117	70-130			

Pesticides, Herbicides, and Fungicides, Batch B810055

Blank (B810055-BLK1)			Prepared: 2018-09-04, Analyzed: 2018-09-05						
Alachlor	< 0.100	0.100 µg/L							
Aldrin	< 0.006	0.006 µg/L							
Atrazine and metabolites	< 0.100	0.100 µg/L							
Azinphos-methyl	< 0.200	0.200 µg/L							
alpha-BHC	< 0.010	0.010 µg/L							
beta-BHC	< 0.050	0.050 µg/L							
delta-BHC	< 0.050	0.050 µg/L							
gamma-BHC (Lindane)	< 0.050	0.050 µg/L							
Bromacil	< 0.100	0.100 µg/L							
Bromoxynil	< 0.200	0.200 µg/L							
Butachlor	< 0.020	0.020 µg/L							
Captan	< 0.100	0.100 µg/L							
Chlordane (cis + trans)	< 0.050	0.050 µg/L							
Chlorothalonil	< 0.050	0.050 µg/L							
Chlorpyrifos	< 0.010	0.010 µg/L							
Cyanazine	< 0.100	0.100 µg/L							
DDT, Total	< 0.010	0.010 µg/L							
Deltamethrin	< 0.100	0.100 µg/L							
Diazinon	< 0.020	0.020 µg/L							
Dichlorvos	< 0.100	0.100 µg/L							
Diclofop-methyl	< 0.100	0.100 µg/L							
Dieldrin	< 0.010	0.010 µg/L							
Dimethoate	< 0.200	0.200 µg/L							
Disulfoton	< 0.100	0.100 µg/L							
Diuron	< 0.200	0.200 µg/L							
Endosulfan I + II	< 0.010	0.010 µg/L							
Endosulfan sulfate	< 0.050	0.050 µg/L							

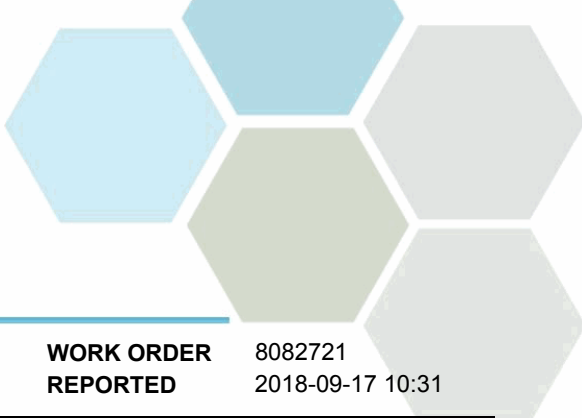


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B810055, Continued									
Blank (B810055-BLK1), Continued					Prepared: 2018-09-04, Analyzed: 2018-09-05				
Endrin	< 0.020	0.020 µg/L							
Endrin aldehyde	< 0.020	0.020 µg/L							
Endrin ketone	< 0.020	0.020 µg/L							
Fenclorophos (Ronnel)	< 0.100	0.100 µg/L							
Heptachlor	< 0.010	0.010 µg/L							
Heptachlor epoxide	< 0.010	0.010 µg/L							
Linuron	< 0.050	0.050 µg/L							
Malathion	< 0.100	0.100 µg/L							
Methoxychlor	< 0.050	0.050 µg/L							
Methyl parathion	< 0.100	0.100 µg/L							
Metolachlor	< 0.100	0.100 µg/L							
Metribuzin	< 0.200	0.200 µg/L							
Parathion	< 0.100	0.100 µg/L							
Pentachloronitrobenzene	< 0.100	0.100 µg/L							
Permethrin (cis + trans)	< 0.010	0.010 µg/L							
Phorate	< 0.100	0.100 µg/L							
Prometon	< 0.300	0.300 µg/L							
Prometryne	< 0.100	0.100 µg/L							
Simazine	< 0.200	0.200 µg/L							
Sulfotep	< 0.100	0.100 µg/L							
Tebuthiuron	< 0.200	0.200 µg/L							
Temephos (Abate)	< 0.500	0.500 µg/L							
Terbufos	< 0.100	0.100 µg/L							
Triallate	< 0.100	0.100 µg/L							
Trifluralin	< 0.200	0.200 µg/L							
Surrogate: Tributyl Phosphate	0.704	µg/L	1.00		70	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.777	µg/L	1.00		78	50-140			
LCS (B810055-BS1)					Prepared: 2018-09-04, Analyzed: 2018-09-05				
Alachlor	0.930	0.100 µg/L	1.00		93	65-118			
Aldrin	0.876	0.006 µg/L	1.00		88	58-107			
Atrazine	0.912	0.100 µg/L	1.00		91	61-122			
Atrazine-desethyl	0.712	0.100 µg/L	0.991		72	50-140			
Azinphos-methyl	0.970	0.200 µg/L	1.02		95	53-127			
alpha-BHC	0.925	0.010 µg/L	1.00		92	54-134			
beta-BHC	0.950	0.050 µg/L	1.00		95	58-112			
delta-BHC	0.945	0.050 µg/L	1.00		94	58-119			
gamma-BHC (Lindane)	0.913	0.050 µg/L	1.00		91	59-113			
Bromacil	1.01	0.100 µg/L	1.00		101	52-123			
Bromoxynil	0.790	0.200 µg/L	1.01		78	50-132			
Butachlor	0.976	0.020 µg/L	1.00		98	50-140			
Captan	1.61	0.100 µg/L	0.994		162	63-137			SPK
Chlordane (cis + trans)	1.85	0.050 µg/L	2.00		93	50-140			
Chlorothalonil	1.01	0.050 µg/L	1.01		100	50-110			
Chlorpyrifos	0.953	0.010 µg/L	1.00		95	61-121			
Cyanazine	1.00	0.100 µg/L	1.00		100	57-126			
DDT, Total	5.99	0.010 µg/L	5.02		119	50-140			
Deltamethrin	9.66	0.100 µg/L	9.96		97	50-121			
Diazinon	0.833	0.020 µg/L	1.01		83	52-126			
Dichlorvos	0.849	0.100 µg/L	0.989		86	50-110			
Diclofop-methyl	1.01	0.100 µg/L	0.991		102	58-112			
Dieldrin	1.02	0.010 µg/L	1.00		102	64-112			
Dimethoate	0.829	0.200 µg/L	1.02		81	50-120			
Disulfoton	0.878	0.100 µg/L	0.994		88	50-122			
Diuron	0.944	0.200 µg/L	1.00		94	54-116			
Endosulfan I + II	2.00	0.010 µg/L	2.00		100	50-140			

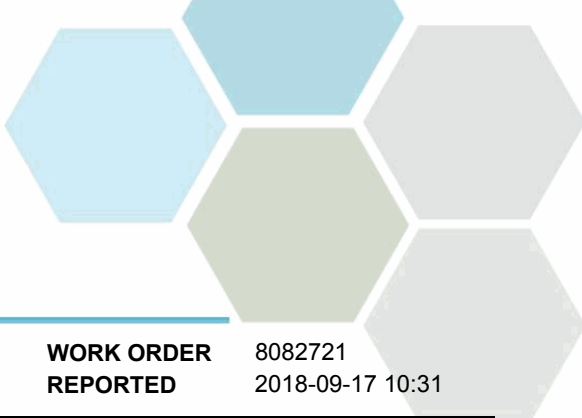


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B810055, Continued									
LCS (B810055-BS1), Continued					Prepared: 2018-09-04, Analyzed: 2018-09-05				
Endosulfan sulfate	1.09	0.050 µg/L	1.00		109	64-110			
Endrin	1.10	0.020 µg/L	1.00		110	59-123			
Endrin aldehyde	1.02	0.020 µg/L	1.00		102	58-118			
Endrin ketone	0.924	0.020 µg/L	1.00		92	53-114			
Fenclorophos (Ronnel)	0.893	0.100 µg/L	1.01		88	63-110			
Heptachlor	0.958	0.010 µg/L	1.00		96	58-128			
Heptachlor epoxide	0.936	0.010 µg/L	1.00		94	64-110			
Linuron	1.05	0.050 µg/L	0.996		105	59-140			
Malathion	0.979	0.100 µg/L	1.00		98	61-121			
Methoxychlor	0.948	0.050 µg/L	1.00		95	53-121			
Methyl parathion	0.915	0.100 µg/L	1.00		91	65-114			
Metolachlor	0.937	0.100 µg/L	1.00		94	65-112			
Metribuzin	0.978	0.200 µg/L	1.00		98	53-123			
Parathion	0.991	0.100 µg/L	1.01		98	53-130			
Pentachloronitrobenzene	0.902	0.100 µg/L	0.998		90	54-136			
Permethrin (cis + trans)	0.877	0.010 µg/L	1.01		87	50-130			
Phorate	0.852	0.100 µg/L	1.01		84	55-120			
Prometon	0.826	0.300 µg/L	1.00		83	57-124			
Prometryne	0.971	0.100 µg/L	1.00		97	50-140			
Simazine	0.885	0.200 µg/L	1.00		89	54-119			
Sulfotep	0.864	0.100 µg/L	1.01		86	61-121			
Tebuthiuron	0.938	0.200 µg/L	1.00		94	50-127			
Temephos (Abate)	8.28	0.500 µg/L	10.0		83	67-135			
Terbufos	0.917	0.100 µg/L	0.988		93	51-122			
Triallate	0.849	0.100 µg/L	0.995		85	50-120			
Trifluralin	0.892	0.200 µg/L	1.00		89	52-129			
Surrogate: Tributyl Phosphate	0.934	µg/L	1.00		93	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.828	µg/L	1.00		83	50-140			
LCS Dup (B810055-BSD1)					Prepared: 2018-09-04, Analyzed: 2018-09-05				
Alachlor	1.02	0.100 µg/L	1.00		102	65-118	9	30	
Aldrin	0.941	0.006 µg/L	1.00		94	58-107	7	30	
Atrazine	0.982	0.100 µg/L	1.00		98	61-122	7	30	
Atrazine-desethyl	0.753	0.100 µg/L	0.991		76	50-140	6	30	
Azinphos-methyl	1.01	0.200 µg/L	1.02		99	53-127	4	30	
alpha-BHC	1.01	0.010 µg/L	1.00		101	54-134	9	30	
beta-BHC	1.03	0.050 µg/L	1.00		103	58-112	8	30	
delta-BHC	1.02	0.050 µg/L	1.00		102	58-119	8	30	
gamma-BHC (Lindane)	1.00	0.050 µg/L	1.00		100	59-113	9	30	
Bromacil	1.04	0.100 µg/L	1.00		104	52-123	2	30	
Bromoxynil	0.772	0.200 µg/L	1.01		76	50-132	2	30	
Butachlor	1.06	0.020 µg/L	1.00		106	50-140	8	30	
Captan	1.72	0.100 µg/L	0.994		173	63-137	6	30	SPK
Chlordane (cis + trans)	1.99	0.050 µg/L	2.00		99	50-140	7	30	
Chlorothalonil	1.04	0.050 µg/L	1.01		103	50-110	3	30	
Chlorpyrifos	0.999	0.010 µg/L	1.00		100	61-121	5	30	
Cyanazine	1.04	0.100 µg/L	1.00		104	57-126	4	30	
DDT, Total	6.25	0.010 µg/L	5.02		124	50-140	4	30	
Deltamethrin	9.73	0.100 µg/L	9.96		98	50-121	< 1	30	
Diazinon	0.923	0.020 µg/L	1.01		91	52-126	10	30	
Dichlorvos	0.926	0.100 µg/L	0.989		94	50-110	9	30	
Diclofop-methyl	1.05	0.100 µg/L	0.991		106	58-112	4	30	
Dieldrin	1.03	0.010 µg/L	1.00		103	64-112	< 1	30	
Dimethoate	0.877	0.200 µg/L	1.02		86	50-120	6	30	
Disulfoton	0.940	0.100 µg/L	0.994		95	50-122	7	30	
Diuron	0.970	0.200 µg/L	1.00		97	54-116	3	30	



APPENDIX 2: QUALITY CONTROL RESULTS

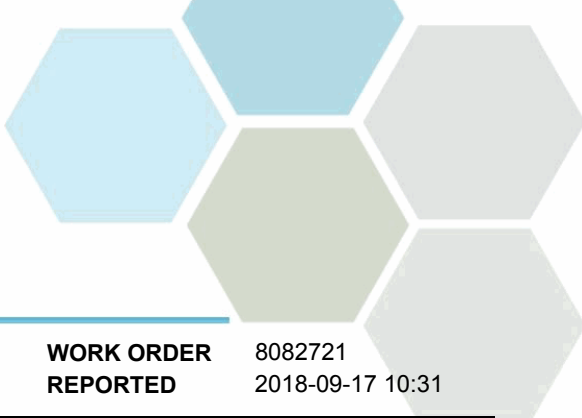
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B810055, Continued									
LCS Dup (B810055-BSD1), Continued					Prepared: 2018-09-04, Analyzed: 2018-09-05				
Endosulfan I + II	2.15	0.010 µg/L	2.00		107	50-140	7	30	
Endosulfan sulfate	1.15	0.050 µg/L	1.00		115	64-110	5	30	SPK1
Endrin	1.18	0.020 µg/L	1.00		118	59-123	7	30	
Endrin aldehyde	1.11	0.020 µg/L	1.00		111	58-118	8	30	
Endrin ketone	0.978	0.020 µg/L	1.00		98	53-114	6	30	
Fenclorophos (Ronnel)	0.950	0.100 µg/L	1.01		94	63-110	6	30	
Heptachlor	0.989	0.010 µg/L	1.00		99	58-128	3	30	
Heptachlor epoxide	0.988	0.010 µg/L	1.00		99	64-110	5	30	
Linuron	1.12	0.050 µg/L	0.996		112	59-140	7	30	
Malathion	1.04	0.100 µg/L	1.00		104	61-121	6	30	
Methoxychlor	1.00	0.050 µg/L	1.00		100	53-121	6	30	
Methyl parathion	0.993	0.100 µg/L	1.00		99	65-114	8	30	
Metolachlor	1.02	0.100 µg/L	1.00		102	65-112	8	30	
Metribuzin	1.04	0.200 µg/L	1.00		104	53-123	6	30	
Parathion	1.06	0.100 µg/L	1.01		105	53-130	7	30	
Pentachloronitrobenzene	0.970	0.100 µg/L	0.998		97	54-136	7	30	
Permethrin (cis + trans)	0.909	0.010 µg/L	1.01		90	50-130	4	30	
Phorate	0.926	0.100 µg/L	1.01		92	55-120	8	30	
Prometon	0.963	0.300 µg/L	1.00		96	57-124	15	30	
Prometryne	1.05	0.100 µg/L	1.00		105	50-140	8	30	
Simazine	0.954	0.200 µg/L	1.00		95	54-119	7	30	
Sulfotep	0.936	0.100 µg/L	1.01		93	61-121	8	30	
Tebuthiuron	1.04	0.200 µg/L	1.00		104	50-127	10	30	
Temephos (Abate)	7.78	0.500 µg/L	10.0		78	67-135	6	30	
Terbufos	0.998	0.100 µg/L	0.988		101	51-122	8	30	
Triallate	0.934	0.100 µg/L	0.995		94	50-120	10	30	
Trifluralin	0.964	0.200 µg/L	1.00		96	52-129	8	30	
Surrogate: Tributyl Phosphate	1.02	µg/L	1.00		102	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.896	µg/L	1.00		90	50-140			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B810219

Blank (B810219-BLK1)			Prepared: 2018-09-05, Analyzed: 2018-09-06						
Acenaphthene	< 0.050	0.050 µg/L							
Acenaphthylene	< 0.200	0.200 µg/L							
Acridine	< 0.050	0.050 µg/L							
Anthracene	< 0.010	0.010 µg/L							
Benzo(a)anthracene	< 0.010	0.010 µg/L							
Benzo(a)pyrene	< 0.010	0.010 µg/L							
Benzo(b+j)fluoranthene	< 0.050	0.050 µg/L							
Benzo(g,h,i)perylene	< 0.050	0.050 µg/L							
Benzo(k)fluoranthene	< 0.050	0.050 µg/L							
2-Chloronaphthalene	< 0.100	0.100 µg/L							
Chrysene	< 0.050	0.050 µg/L							
Dibenz(a,h)anthracene	< 0.010	0.010 µg/L							
Fluoranthene	< 0.030	0.030 µg/L							
Fluorene	< 0.050	0.050 µg/L							
Indeno(1,2,3-cd)pyrene	< 0.050	0.050 µg/L							
1-Methylnaphthalene	< 0.100	0.100 µg/L							
2-Methylnaphthalene	< 0.100	0.100 µg/L							
Naphthalene	< 0.200	0.200 µg/L							
Phenanthrene	< 0.100	0.100 µg/L							
Pyrene	< 0.020	0.020 µg/L							
Quinoline	< 0.050	0.050 µg/L							
Surrogate: Acridine-d9	2.50	µg/L	4.44		56	50-140			

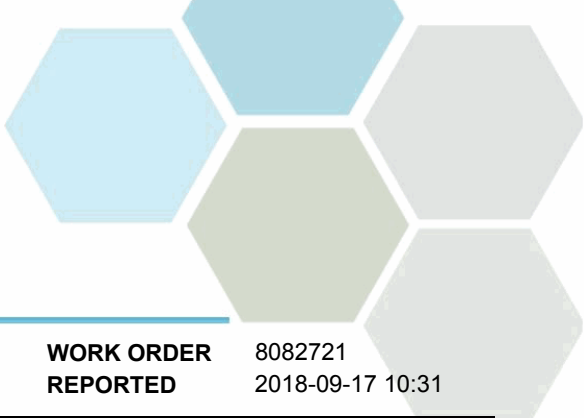


APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B810219, Continued									
Blank (B810219-BLK1), Continued					Prepared: 2018-09-05, Analyzed: 2018-09-06				
Surrogate: Naphthalene-d8	3.07	µg/L	4.47		69	50-140			
Surrogate: Perylene-d12	1.40	µg/L	4.47		31	50-140			S02
LCS (B810219-BS1)					Prepared: 2018-09-05, Analyzed: 2018-09-06				
Acenaphthene	4.96	0.050 µg/L	4.40		113	58-125			
Acenaphthylene	5.20	0.200 µg/L	4.40		118	54-128			
Acridine	4.31	0.050 µg/L	4.44		97	50-112			
Anthracene	4.78	0.010 µg/L	4.44		107	66-125			
Benzo(a)anthracene	4.79	0.010 µg/L	4.44		108	59-123			
Benzo(a)pyrene	4.39	0.010 µg/L	4.40		100	62-116			
Benzo(b+j)fluoranthene	8.46	0.050 µg/L	8.89		95	69-121			
Benzo(g,h,i)perylene	4.60	0.050 µg/L	4.40		105	58-129			
Benzo(k)fluoranthene	3.37	0.050 µg/L	4.44		76	67-128			
2-Chloronaphthalene	4.88	0.100 µg/L	4.44		110	50-140			
Chrysene	4.42	0.050 µg/L	4.42		100	58-125			
Dibenz(a,h)anthracene	4.87	0.010 µg/L	4.42		110	58-126			
Fluoranthene	4.32	0.030 µg/L	4.36		99	67-133			
Fluorene	5.05	0.050 µg/L	4.40		115	55-122			
Indeno(1,2,3-cd)pyrene	4.36	0.050 µg/L	4.44		98	62-126			
1-Methylnaphthalene	4.94	0.100 µg/L	4.38		113	53-125			
2-Methylnaphthalene	4.95	0.100 µg/L	4.36		114	52-122			
Naphthalene	4.99	0.200 µg/L	4.44		112	50-130			
Phenanthrene	4.49	0.100 µg/L	4.40		102	67-127			
Pyrene	4.33	0.020 µg/L	4.44		97	68-133			
Quinoline	7.30	0.050 µg/L	4.44		164	51-140			SPK
Surrogate: Acridine-d9	3.85	µg/L	4.44		87	50-140			
Surrogate: Naphthalene-d8	3.01	µg/L	4.47		67	50-140			
Surrogate: Perylene-d12	1.67	µg/L	4.47		37	50-140			S02
LCS Dup (B810219-BSD1)					Prepared: 2018-09-05, Analyzed: 2018-09-06				
Acenaphthene	4.52	0.050 µg/L	4.40		103	58-125	9	16	
Acenaphthylene	4.73	0.200 µg/L	4.40		107	54-128	9	16	
Acridine	3.70	0.050 µg/L	4.44		83	50-112	15	26	
Anthracene	4.50	0.010 µg/L	4.44		101	66-125	6	14	
Benzo(a)anthracene	4.78	0.010 µg/L	4.44		108	59-123	< 1	23	
Benzo(a)pyrene	4.21	0.010 µg/L	4.40		96	62-116	4	16	
Benzo(b+j)fluoranthene	8.16	0.050 µg/L	8.89		92	69-121	4	14	
Benzo(g,h,i)perylene	4.40	0.050 µg/L	4.40		100	58-129	4	25	
Benzo(k)fluoranthene	3.16	0.050 µg/L	4.44		71	67-128	6	18	
2-Chloronaphthalene	4.52	0.100 µg/L	4.44		102	50-140	8	30	
Chrysene	4.40	0.050 µg/L	4.42		100	58-125	< 1	24	
Dibenz(a,h)anthracene	4.60	0.010 µg/L	4.42		104	58-126	6	23	
Fluoranthene	4.18	0.030 µg/L	4.36		96	67-133	3	18	
Fluorene	4.56	0.050 µg/L	4.40		104	55-122	10	16	
Indeno(1,2,3-cd)pyrene	4.14	0.050 µg/L	4.44		93	62-126	5	22	
1-Methylnaphthalene	4.56	0.100 µg/L	4.38		104	53-125	8	16	
2-Methylnaphthalene	4.59	0.100 µg/L	4.36		105	52-122	8	17	
Naphthalene	4.66	0.200 µg/L	4.44		105	50-130	7	18	
Phenanthrene	3.97	0.100 µg/L	4.40		90	67-127	12	14	
Pyrene	4.11	0.020 µg/L	4.44		93	68-133	5	18	
Quinoline	7.10	0.050 µg/L	4.44		160	51-140	3	12	SPK
Surrogate: Acridine-d9	3.32	µg/L	4.44		75	50-140			
Surrogate: Naphthalene-d8	3.05	µg/L	4.47		68	50-140			
Surrogate: Perylene-d12	1.60	µg/L	4.47		36	50-140			S02



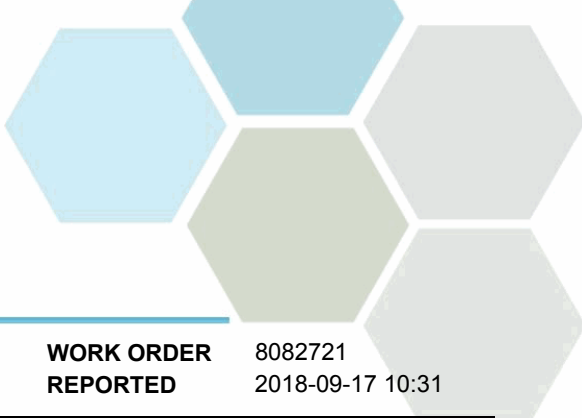
APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B8H2506									
Blank (B8H2506-BLK1)					Prepared: 2018-08-31, Analyzed: 2018-09-05				
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Beryllium, total	< 0.00010	0.00010 mg/L							
Bismuth, total	< 0.00010	0.00010 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Lithium, total	< 0.00010	0.00010 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Phosphorus, total	< 0.050	0.050 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silicon, total	< 1.0	1.0 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							
Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0010	0.0010 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							

LCS (B8H2506-BS1)					Prepared: 2018-08-31, Analyzed: 2018-09-05				
Aluminum, total	0.0204	0.0050 mg/L	0.0200		102	80-120			
Antimony, total	0.0237	0.00020 mg/L	0.0200		119	80-120			
Arsenic, total	0.0206	0.00050 mg/L	0.0200		103	80-120			
Barium, total	0.0218	0.0050 mg/L	0.0200		109	80-120			
Beryllium, total	0.0176	0.00010 mg/L	0.0200		88	80-120			
Bismuth, total	0.0201	0.00010 mg/L	0.0200		100	80-120			
Boron, total	0.0179	0.0050 mg/L	0.0200		89	80-120			
Cadmium, total	0.0209	0.000010 mg/L	0.0200		105	80-120			
Calcium, total	2.26	0.20 mg/L	2.00		113	80-120			
Chromium, total	0.0204	0.00050 mg/L	0.0200		102	80-120			
Cobalt, total	0.0198	0.00010 mg/L	0.0200		99	80-120			
Copper, total	0.0209	0.00040 mg/L	0.0200		105	80-120			
Iron, total	1.89	0.010 mg/L	2.00		94	80-120			
Lead, total	0.0206	0.00020 mg/L	0.0200		103	80-120			
Lithium, total	0.0190	0.00010 mg/L	0.0200		95	80-120			
Magnesium, total	1.98	0.010 mg/L	2.00		99	80-120			
Manganese, total	0.0189	0.00020 mg/L	0.0200		95	80-120			



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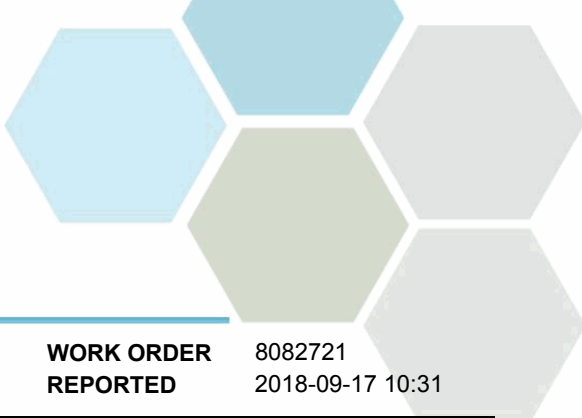
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B8H2506, Continued									
LCS (B8H2506-BS1), Continued					Prepared: 2018-08-31, Analyzed: 2018-09-05				
Molybdenum, total	0.0207	0.00010 mg/L	0.0200		104	80-120			
Nickel, total	0.0201	0.00040 mg/L	0.0200		101	80-120			
Phosphorus, total	1.86	0.050 mg/L	2.00		93	80-120			
Potassium, total	2.06	0.10 mg/L	2.00		103	80-120			
Selenium, total	0.0197	0.00050 mg/L	0.0200		98	80-120			
Silicon, total	2.0	1.0 mg/L	2.00		101	80-120			
Silver, total	0.0187	0.000050 mg/L	0.0200		94	80-120			
Sodium, total	2.14	0.10 mg/L	2.00		107	80-120			
Strontium, total	0.0218	0.0010 mg/L	0.0200		109	80-120			
Sulfur, total	5.4	3.0 mg/L	5.00		108	80-120			
Tellurium, total	0.0218	0.00050 mg/L	0.0200		109	80-120			
Thallium, total	0.0206	0.000020 mg/L	0.0200		103	80-120			
Thorium, total	0.0200	0.00010 mg/L	0.0200		100	80-120			
Tin, total	0.0214	0.00020 mg/L	0.0200		107	80-120			
Titanium, total	0.0208	0.0050 mg/L	0.0200		104	80-120			
Tungsten, total	0.0195	0.0010 mg/L	0.0200		97	80-120			
Uranium, total	0.0199	0.000020 mg/L	0.0200		99	80-120			
Vanadium, total	0.0205	0.0010 mg/L	0.0200		103	80-120			
Zinc, total	0.0218	0.0040 mg/L	0.0200		109	80-120			
Zirconium, total	0.0216	0.00010 mg/L	0.0200		108	80-120			

Reference (B8H2506-SRM1)					Prepared: 2018-08-31, Analyzed: 2018-09-05				
Aluminum, total	0.253	0.0050 mg/L	0.303		84	82-114			
Antimony, total	0.0579	0.00020 mg/L	0.0511		113	88-115			
Arsenic, total	0.119	0.00050 mg/L	0.118		101	88-111			
Barium, total	0.829	0.0050 mg/L	0.823		101	83-110			
Beryllium, total	0.0426	0.00010 mg/L	0.0496		86	80-119			
Boron, total	2.84	0.0050 mg/L	3.45		82	80-118			
Cadmium, total	0.0489	0.000010 mg/L	0.0495		99	90-110			
Calcium, total	10.8	0.20 mg/L	11.6		93	85-113			
Chromium, total	0.246	0.00050 mg/L	0.250		98	88-111			
Cobalt, total	0.0370	0.00010 mg/L	0.0377		98	90-114			
Copper, total	0.498	0.00040 mg/L	0.486		102	90-117			
Iron, total	0.451	0.010 mg/L	0.488		92	90-116			
Lead, total	0.205	0.00020 mg/L	0.204		100	90-110			
Lithium, total	0.352	0.00010 mg/L	0.403		87	79-118			
Magnesium, total	3.69	0.010 mg/L	3.79		97	88-116			
Manganese, total	0.0980	0.00020 mg/L	0.109		90	88-108			
Molybdenum, total	0.198	0.00010 mg/L	0.198		100	88-110			
Nickel, total	0.239	0.00040 mg/L	0.249		96	90-112			
Phosphorus, total	0.197	0.050 mg/L	0.227		87	72-118			
Potassium, total	7.10	0.10 mg/L	7.21		98	87-116			
Selenium, total	0.118	0.00050 mg/L	0.121		98	90-122			
Sodium, total	7.29	0.10 mg/L	7.54		97	86-118			
Strontium, total	0.398	0.0010 mg/L	0.375		106	86-110			
Thallium, total	0.0814	0.000020 mg/L	0.0805		101	90-113			
Uranium, total	0.0290	0.000020 mg/L	0.0306		95	88-112			
Vanadium, total	0.393	0.0010 mg/L	0.386		102	87-110			
Zinc, total	2.48	0.0040 mg/L	2.49		100	90-113			

Total Metals, Batch B8H2537

Blank (B8H2537-BLK1)					Prepared: 2018-08-31, Analyzed: 2018-09-04				
Mercury, total	< 0.000010	0.000010 mg/L							

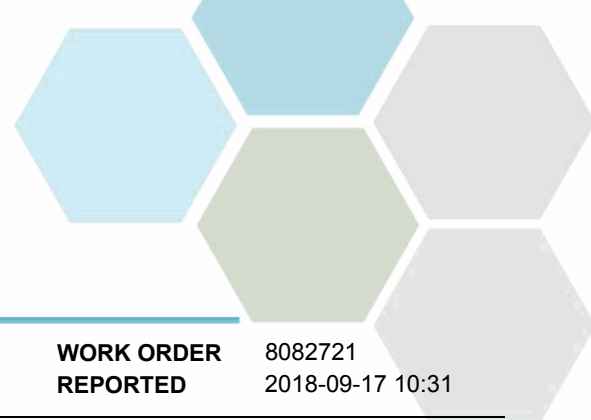


APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B8H2537, Continued									
Blank (B8H2537-BLK2)			Prepared: 2018-08-31, Analyzed: 2018-09-04						
Mercury, total	< 0.000010	0.000010 mg/L							
Reference (B8H2537-SRM1)			Prepared: 2018-08-31, Analyzed: 2018-09-04						
Mercury, total	0.00582	0.000010 mg/L	0.00489		119	80-120			
Reference (B8H2537-SRM2)			Prepared: 2018-08-31, Analyzed: 2018-09-04						
Mercury, total	0.00450	0.000010 mg/L	0.00489		92	80-120			
Volatile Organic Compounds (VOC), Batch B8H2432									
Blank (B8H2432-BLK1)			Prepared: 2018-08-30, Analyzed: 2018-08-30						
Benzene	< 0.5	0.5 µg/L							
Bromodichloromethane	< 1.0	1.0 µg/L							
Bromoform	< 1.0	1.0 µg/L							
Carbon tetrachloride	< 0.5	0.5 µg/L							
Chlorobenzene	< 1.0	1.0 µg/L							
Chloroethane	< 2.0	2.0 µg/L							
Chloroform	< 1.0	1.0 µg/L							
Dibromochloromethane	< 1.0	1.0 µg/L							
1,2-Dibromoethane	< 0.3	0.3 µg/L							
Dibromomethane	< 1.0	1.0 µg/L							
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethylene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
Dichloromethane	< 3.0	3.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							
1,3-Dichloropropane (cis + trans)	< 1.0	1.0 µg/L							
Ethylbenzene	< 1.0	1.0 µg/L							
Methyl tert-butyl ether	< 1.0	1.0 µg/L							
Styrene	< 1.0	1.0 µg/L							
1,1,2,2-Tetrachloroethane	< 0.5	0.5 µg/L							
Tetrachloroethylene	< 1.0	1.0 µg/L							
Toluene	< 1.0	1.0 µg/L							
1,1,1-Trichloroethane	< 1.0	1.0 µg/L							
1,1,2-Trichloroethane	< 1.0	1.0 µg/L							
Trichloroethylene	< 1.0	1.0 µg/L							
Trichlorofluoromethane	< 1.0	1.0 µg/L							
Vinyl chloride	< 1.0	1.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							
Surrogate: Toluene-d8	27.7	µg/L	26.2		106	70-130			
Surrogate: 4-Bromofluorobenzene	21.4	µg/L	25.0		85	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	21.3	µg/L	25.0		85	70-130			
LCS (B8H2432-BS1)			Prepared: 2018-08-30, Analyzed: 2018-08-30						
Benzene	22.1	0.5 µg/L	20.0		111	70-130			
Bromodichloromethane	25.1	1.0 µg/L	20.2		124	70-130			
Bromoform	24.3	1.0 µg/L	20.1		121	70-130			
Carbon tetrachloride	27.0	0.5 µg/L	20.1		134	70-130			SPK
Chlorobenzene	23.7	1.0 µg/L	20.2		117	70-130			
Chloroethane	25.2	2.0 µg/L	20.0		126	60-140			



APPENDIX 2: QUALITY CONTROL RESULTS

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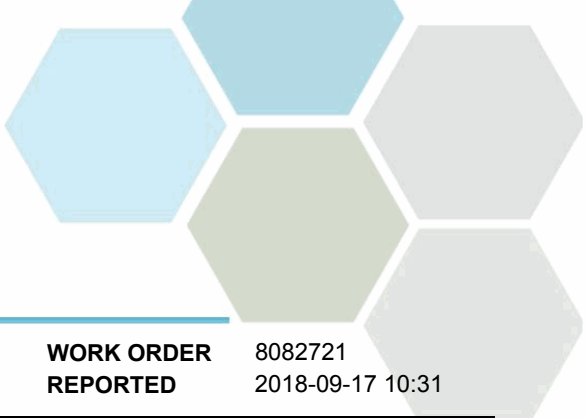
WORK ORDER REPORTED 8082721
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Volatile Organic Compounds (VOC), Batch B8H2432, Continued

LCS (B8H2432-BS1), Continued				Prepared: 2018-08-30, Analyzed: 2018-08-30					
Chloroform	23.3	1.0 µg/L	20.1	116	70-130				
Dibromochloromethane	23.1	1.0 µg/L	20.2	115	70-130				
1,2-Dibromoethane	20.8	0.3 µg/L	20.0	104	70-130				
Dibromomethane	21.2	1.0 µg/L	20.0	106	70-130				
1,2-Dichlorobenzene	24.5	0.5 µg/L	20.1	122	70-130				
1,3-Dichlorobenzene	24.2	1.0 µg/L	20.1	120	70-130				
1,4-Dichlorobenzene	23.9	1.0 µg/L	20.1	119	70-130				
1,1-Dichloroethane	23.7	1.0 µg/L	20.1	118	70-130				
1,2-Dichloroethane	23.3	1.0 µg/L	20.1	116	70-130				
1,1-Dichloroethylene	18.0	1.0 µg/L	20.1	90	70-130				
cis-1,2-Dichloroethylene	20.4	1.0 µg/L	20.0	102	70-130				
trans-1,2-Dichloroethylene	22.2	1.0 µg/L	20.1	110	70-130				
Dichloromethane	22.5	3.0 µg/L	20.1	112	70-130				
1,2-Dichloropropane	22.6	1.0 µg/L	20.2	112	70-130				
1,3-Dichloropropene (cis + trans)	50.7	1.0 µg/L	40.0	127	70-130				
Ethylbenzene	18.4	1.0 µg/L	20.0	92	70-130				
Methyl tert-butyl ether	19.4	1.0 µg/L	20.0	97	70-130				
Styrene	21.8	1.0 µg/L	20.0	109	70-130				
1,1,2,2-Tetrachloroethane	22.2	0.5 µg/L	20.2	110	70-130				
Tetrachloroethylene	22.2	1.0 µg/L	20.1	110	70-130				
Toluene	18.8	1.0 µg/L	20.1	93	70-130				
1,1,1-Trichloroethane	25.8	1.0 µg/L	20.2	128	70-130				
1,1,2-Trichloroethane	22.5	1.0 µg/L	20.1	112	70-130				
Trichloroethylene	18.5	1.0 µg/L	20.1	92	70-130				
Trichlorofluoromethane	25.2	1.0 µg/L	20.0	126	60-140				
Vinyl chloride	18.2	1.0 µg/L	20.0	91	60-140				
Xylenes (total)	55.9	2.0 µg/L	60.1	93	70-130				
Surrogate: Toluene-d8	31.2	µg/L	26.2	119	70-130				
Surrogate: 4-Bromofluorobenzene	24.1	µg/L	25.0	96	70-130				
Surrogate: 1,4-Dichlorobenzene-d4	23.6	µg/L	25.0	94	70-130				

Duplicate (B8H2432-DUP1)		Source: 8082721-01		Prepared: 2018-08-30, Analyzed: 2018-08-30					
Benzene	< 0.5	0.5 µg/L	< 0.5						22
Bromodichloromethane	3.8	1.0 µg/L	3.7						23
Bromoform	< 1.0	1.0 µg/L	< 1.0						23
Carbon tetrachloride	< 0.5	0.5 µg/L	< 0.5						30
Chlorobenzene	< 1.0	1.0 µg/L	< 1.0						26
Chloroethane	< 2.0	2.0 µg/L	< 2.0						50
Chloroform	63.1	1.0 µg/L	64.3				2		22
Dibromochloromethane	< 1.0	1.0 µg/L	< 1.0						28
1,2-Dibromoethane	< 0.3	0.3 µg/L	< 0.3						30
Dibromomethane	< 1.0	1.0 µg/L	< 1.0						30
1,2-Dichlorobenzene	< 0.5	0.5 µg/L	< 0.5						27
1,3-Dichlorobenzene	< 1.0	1.0 µg/L	< 1.0						30
1,4-Dichlorobenzene	< 1.0	1.0 µg/L	< 1.0						30
1,1-Dichloroethane	< 1.0	1.0 µg/L	< 1.0						24
1,2-Dichloroethane	< 1.0	1.0 µg/L	< 1.0						24
1,1-Dichloroethylene	< 1.0	1.0 µg/L	< 1.0						30
cis-1,2-Dichloroethylene	< 1.0	1.0 µg/L	< 1.0						22
trans-1,2-Dichloroethylene	< 1.0	1.0 µg/L	< 1.0						27
Dichloromethane	< 3.0	3.0 µg/L	< 3.0						27
1,2-Dichloropropane	< 1.0	1.0 µg/L	< 1.0						28
1,3-Dichloropropene (cis + trans)	< 1.0	1.0 µg/L	< 1.0						30
Ethylbenzene	< 1.0	1.0 µg/L	< 1.0						30
Methyl tert-butyl ether	< 1.0	1.0 µg/L	< 1.0						20
Styrene	< 1.0	1.0 µg/L	< 1.0						30



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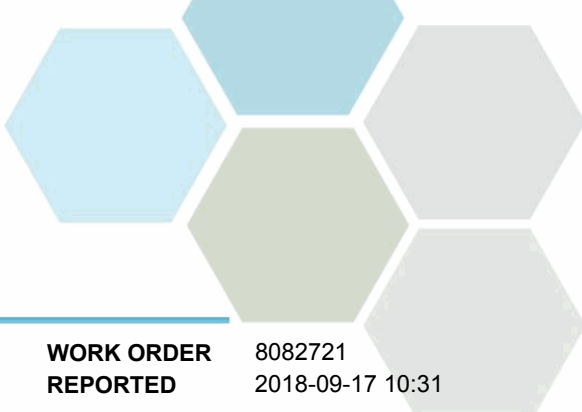
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B8H2432, Continued									
Duplicate (B8H2432-DUP1), Continued		Source: 8082721-01		Prepared: 2018-08-30, Analyzed: 2018-08-30					
1,1,2,2-Tetrachloroethane	< 0.5	0.5 µg/L		< 0.5				30	
Tetrachloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
Toluene	< 1.0	1.0 µg/L		< 1.0				24	
1,1,1-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				30	
1,1,2-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				30	
Trichloroethylene	< 1.0	1.0 µg/L		< 1.0				27	
Trichlorofluoromethane	< 1.0	1.0 µg/L		< 1.0				50	
Vinyl chloride	< 1.0	1.0 µg/L		< 1.0				40	
Xylenes (total)	< 2.0	2.0 µg/L		< 2.0				29	
Surrogate: Toluene-d8	29.5	µg/L	26.2		112	70-130			
Surrogate: 4-Bromofluorobenzene	23.4	µg/L	25.0		94	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	23.1	µg/L	25.0		93	70-130			
Matrix Spike (B8H2432-MS1)		Source: 8082721-01		Prepared: 2018-08-30, Analyzed: 2018-08-30					
Benzene	22.6	0.5 µg/L	20.0	< 0.5	113	70-130			
Bromodichloromethane	29.2	1.0 µg/L	20.2	3.7	126	70-130			
Bromoform	24.8	1.0 µg/L	20.1	< 1.0	123	70-130			
Carbon tetrachloride	27.8	0.5 µg/L	20.1	< 0.5	139	70-130			SPK
Chlorobenzene	24.2	1.0 µg/L	20.2	< 1.0	120	70-130			
Chloroethane	24.8	2.0 µg/L	20.0	< 2.0	124	60-140			
Chloroform	78.5	1.0 µg/L	20.1	64.3	71	70-130			
Dibromochloromethane	24.1	1.0 µg/L	20.2	< 1.0	119	70-130			
1,2-Dibromoethane	21.6	0.3 µg/L	20.0	< 0.3	108	70-130			
Dibromomethane	22.0	1.0 µg/L	20.0	< 1.0	110	70-130			
1,2-Dichlorobenzene	25.3	0.5 µg/L	20.1	< 0.5	126	70-130			
1,3-Dichlorobenzene	24.8	1.0 µg/L	20.1	< 1.0	123	70-130			
1,4-Dichlorobenzene	24.6	1.0 µg/L	20.1	< 1.0	123	70-130			
1,1-Dichloroethane	24.2	1.0 µg/L	20.1	< 1.0	121	70-130			
1,2-Dichloroethane	24.0	1.0 µg/L	20.1	< 1.0	119	70-130			
1,1-Dichloroethylene	18.4	1.0 µg/L	20.1	< 1.0	92	70-130			
cis-1,2-Dichloroethylene	21.0	1.0 µg/L	20.0	< 1.0	105	70-130			
trans-1,2-Dichloroethylene	23.0	1.0 µg/L	20.1	< 1.0	114	70-130			
Dichloromethane	22.8	3.0 µg/L	20.1	< 3.0	113	70-130			
1,2-Dichloropropane	23.4	1.0 µg/L	20.2	< 1.0	116	70-130			
1,3-Dichloropropene (cis + trans)	52.5	1.0 µg/L	40.0	< 1.0	131	70-130			SPK
Ethylbenzene	19.2	1.0 µg/L	20.0	< 1.0	94	70-130			
Methyl tert-butyl ether	20.3	1.0 µg/L	20.0	< 1.0	102	70-130			
1,1,2,2-Tetrachloroethane	22.9	0.5 µg/L	20.2	< 0.5	113	70-130			
Tetrachloroethylene	22.8	1.0 µg/L	20.1	< 1.0	113	70-130			
Toluene	19.6	1.0 µg/L	20.1	< 1.0	96	70-130			
1,1,1-Trichloroethane	26.4	1.0 µg/L	20.2	< 1.0	131	70-130			SPK
1,1,2-Trichloroethane	23.2	1.0 µg/L	20.1	< 1.0	116	70-130			
Trichloroethylene	18.9	1.0 µg/L	20.1	< 1.0	94	70-130			
Trichlorofluoromethane	26.8	1.0 µg/L	20.0	< 1.0	134	60-140			
Vinyl chloride	18.6	1.0 µg/L	20.0	< 1.0	93	60-140			
Xylenes (total)	48.4	2.0 µg/L	60.1	< 2.0	80	70-130			
Surrogate: Toluene-d8	31.5	µg/L	26.2		120	70-130			
Surrogate: 4-Bromofluorobenzene	24.4	µg/L	25.0		98	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	24.0	µg/L	25.0		96	70-130			

Volatile Organic Compounds (VOC), Batch B8H2573

Blank (B8H2573-BLK1)		Prepared: 2018-08-31, Analyzed: 2018-08-31							
Bromodichloromethane	< 0.0010	0.0010 mg/L							
Bromoform	< 0.0010	0.0010 mg/L							



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B8H2573, Continued									
Blank (B8H2573-BLK1), Continued					Prepared: 2018-08-31, Analyzed: 2018-08-31				
Chloroform	< 0.0010	0.0010 mg/L							
Dibromochloromethane	< 0.0010	0.0010 mg/L							
Surrogate: Toluene-d8	0.0200	mg/L	0.0262		76	70-130			
Surrogate: 4-Bromofluorobenzene	0.0197	mg/L	0.0250		79	70-130			
LCS (B8H2573-BS1)					Prepared: 2018-08-31, Analyzed: 2018-08-31				
Bromodichloromethane	0.0211	0.0010 mg/L	0.0202		104	70-130			
Bromoform	0.0163	0.0010 mg/L	0.0201		81	70-130			
Chloroform	0.0224	0.0010 mg/L	0.0201		111	70-130			
Dibromochloromethane	0.0180	0.0010 mg/L	0.0202		89	70-130			
Surrogate: Toluene-d8	0.0219	mg/L	0.0262		84	70-130			
Surrogate: 4-Bromofluorobenzene	0.0249	mg/L	0.0250		100	70-130			

QC Qualifiers:

- S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.
- SPK The recovery of this analyte was outside of established control limits.
- SPK1 The recovery of this analyte was outside of established control limits. The data was accepted based on performance of other batch QC.