



## CERTIFICATE OF ANALYSIS

<b>REPORTED TO</b>	Mountainview Regional Water Services Commission 35566 Rge Rd 10 Red Deer County, AB T4G 0H5	<b>WORK ORDER</b>	21H3604
<b>ATTENTION</b>	Wesley Olstad	<b>RECEIVED / TEMP REPORTED</b>	2021-08-31 09:45 / 17.0°C
<b>PO NUMBER</b>		<b>REPORTED</b>	2021-09-14 15:11
<b>PROJECT</b>	Schedule 4 - Code of Practice	<b>COC NUMBER</b>	11327
<b>PROJECT INFO</b>			

### 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/IEC 17025:2017 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.

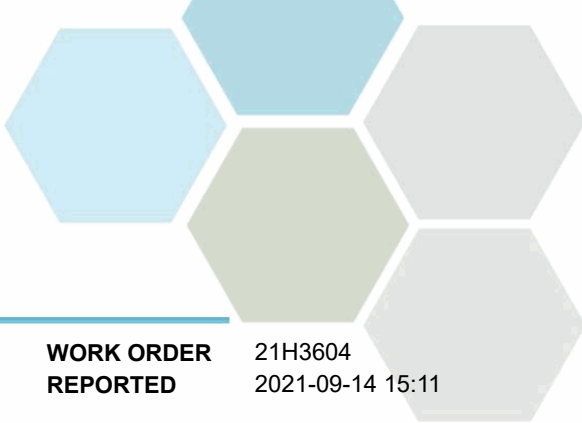
If you have any questions or concerns, please contact me at [rpshyk@caro.ca](mailto:rpshyk@caro.ca)

#### Authorized By:

Regan Pshyk  
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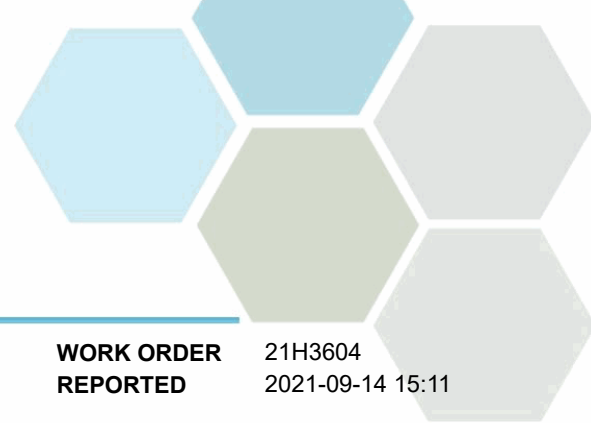


# TEST RESULTS

**REPORTED TO PROJECT** Mountainview Regional Water Services Commission  
Schedule 4 - Code of Practice

**WORK ORDER REPORTED** 21H3604  
2021-09-14 15:11

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
<b>Treated (21H3604-01)   Matrix: Water   Sampled: 2021-08-30</b>					
<b>Acid Herbicides</b>					
2,4-D	< 0.10	MAC = 100	0.10 µg/L	2021-09-08	
MCPA	< 0.02	MAC = 100	0.02 µg/L	2021-09-08	
2,4,5-T	< 0.10	N/A	0.10 µg/L	2021-09-08	
Dicamba	< 0.10	MAC = 120	0.10 µg/L	2021-09-08	
Picloram	< 0.10	MAC = 190	0.10 µg/L	2021-09-08	
Dinoseb	< 0.10	N/A	0.10 µg/L	2021-09-08	
<b>Anions</b>					
Bromate	< 0.010	MAC = 0.01	0.010 mg/L	2021-09-10	
Chloride	<b>3.96</b>	AO ≤ 250	0.50 mg/L	2021-09-01	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2021-09-01	
Nitrate (as N)	< 0.050	MAC = 10	0.050 mg/L	2021-09-01	
Nitrite (as N)	< 0.050	MAC = 1	0.050 mg/L	2021-09-01	
Sulfate	<b>41.0</b>	AO ≤ 500	1.0 mg/L	2021-09-01	
<b>Calculated Parameters</b>					
Chloramines	<b>0.100</b>	MAC = 3	0.0400 mg/L	N/A	
Total Trihalomethanes	<b>0.0571</b>	MAC = 0.1	0.00400 mg/L	N/A	
Hardness, Total (as CaCO3)	<b>170</b>	None Required	0.541 mg/L	N/A	
Solids, Total Dissolved	<b>194</b>	AO ≤ 500	3.35 mg/L	N/A	
<b>Chlorinated Phenols</b>					
2-Chlorophenol	< 0.10	N/A	0.10 µg/L	2021-09-10	
3 & 4-Chlorophenol	< 0.10	N/A	0.10 µg/L	2021-09-10	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50 µg/L	2021-09-10	
2,3-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2021-09-10	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20 µg/L	2021-09-10	
2,6-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2021-09-10	
3,4-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2021-09-10	
3,5-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2021-09-10	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2021-09-10	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2021-09-10	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2021-09-10	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2021-09-10	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50 µg/L	2021-09-10	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2021-09-10	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50 µg/L	2021-09-10	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50 µg/L	2021-09-10	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50 µg/L	2021-09-10	
Surrogate: 2,4-Dibromophenol	67		60-130 %	2021-09-10	
Surrogate: 2,4,6-Tribromophenol	89		60-130 %	2021-09-10	
<b>General Parameters</b>					
Alkalinity, Total (as CaCO3)	<b>140</b>	N/A	2.0 mg/L	2021-09-01	

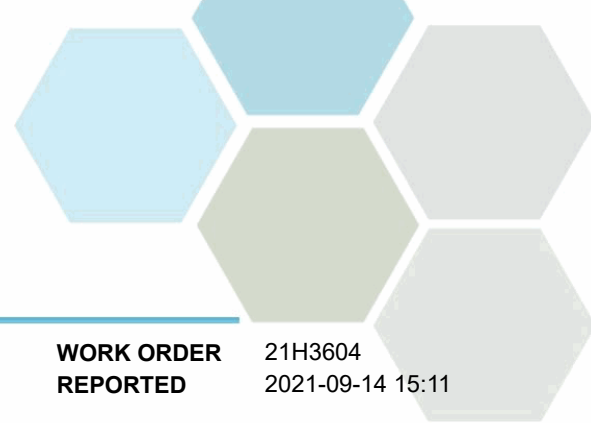


# TEST RESULTS

**REPORTED TO PROJECT** Mountainview Regional Water Services Commission  
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**WORK ORDER REPORTED** 21H3604  
2021-09-14 15:11

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
<b>Treated (21H3604-01)   Matrix: Water   Sampled: 2021-08-30, Continued</b>					
<b>General Parameters, Continued</b>					
Bicarbonate (HCO <sub>3</sub> )	171	N/A	2.0 mg/L	2021-09-01	
Carbonate (CO <sub>3</sub> )	< 2.0	N/A	2.0 mg/L	2021-09-01	
Hydroxide (OH)	< 2.0	N/A	2.0 mg/L	2021-09-01	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2021-09-01	
Carbon, Total Organic	1.40	N/A	0.50 mg/L	2021-09-02	
Chlorine, Total	1.11	None Required	0.02 mg/L	2021-09-02	HT2
Chlorine, Free	1.01	N/A	0.02 mg/L	2021-09-02	HT2
Colour, True	< 5.0	AO ≤ 15	5.0 CU	2021-09-07	HT1
Conductivity (EC)	344	N/A	2.0 µS/cm	2021-09-07	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2021-09-01	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20 mg/L	2021-09-01	
pH	7.60	7.0-10.5	0.10 pH units	2021-09-01	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020 mg/L	2021-09-01	
Turbidity	< 0.10	OG < 1	0.10 NTU	2021-09-02	HT1
<b>Haloacetic Acids</b>					
Monochloroacetic Acid	< 0.0020	N/A	0.0020 mg/L	2021-09-10	
Monobromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2021-09-10	
Dichloroacetic Acid	0.0225	N/A	0.0020 mg/L	2021-09-10	
Trichloroacetic Acid	0.0235	N/A	0.0020 mg/L	2021-09-10	
Dibromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2021-09-10	
Total Haloacetic Acids (HAA5)	0.0461	MAC = 0.08	0.00200 mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	98		70-130 %	2021-09-10	
<b>Microbiological Parameters</b>					
Microcystin, total	< 0.05	MAC = 1.5	0.05 µg/L	2021-09-03	
<b>Miscellaneous Herbicides</b>					
Glyphosate	< 0.050	MAC = 0.28	0.050 mg/L	2021-09-08	
<b>Pesticides, Herbicides, and Fungicides</b>					
Alachlor	< 0.100	N/A	0.100 µg/L	2021-09-12	HT1
Aldrin	< 0.006	N/A	0.006 µg/L	2021-09-12	
Atrazine and metabolites	< 0.100	MAC = 5	0.100 µg/L	2021-09-12	
Azinphos-methyl	< 0.200	MAC = 20	0.200 µg/L	2021-09-12	
alpha-BHC	< 0.010	N/A	0.010 µg/L	2021-09-12	
beta-BHC	< 0.062	N/A	0.050 µg/L	2021-09-12	RA1
delta-BHC	< 0.050	N/A	0.050 µg/L	2021-09-12	
gamma-BHC (Lindane)	< 0.050	N/A	0.050 µg/L	2021-09-12	
Bromacil	< 0.100	N/A	0.100 µg/L	2021-09-12	
Bromoxynil	< 0.200	MAC = 5	0.200 µg/L	2021-09-12	
Butachlor	< 0.020	N/A	0.020 µg/L	2021-09-12	
Captan	< 0.100	N/A	0.100 µg/L	2021-09-12	
Chlordane (cis + trans)	< 0.050	N/A	0.050 µg/L	2021-09-12	



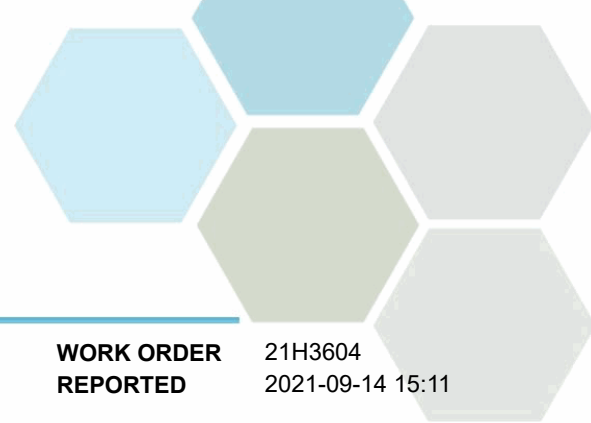
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<i>Pesticides, Herbicides, and Fungicides, Continued</i>						HT1
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2021-09-12	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2021-09-12	
Cyanazine	< 0.100	N/A	0.100	µg/L	2021-09-12	
DDT, Total	< 0.010	N/A	0.010	µg/L	2021-09-12	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2021-09-12	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2021-09-12	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2021-09-12	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2021-09-12	
Dieldrin	< 0.010	N/A	0.010	µg/L	2021-09-12	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2021-09-12	
Disulfoton	< 0.100	N/A	0.100	µg/L	2021-09-12	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2021-09-12	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2021-09-12	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2021-09-12	
Endrin	< 0.020	N/A	0.020	µg/L	2021-09-12	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2021-09-12	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2021-09-12	
Fenchlorphos (Ronnell)	< 0.100	N/A	0.100	µg/L	2021-09-12	
Heptachlor	< 0.010	N/A	0.010	µg/L	2021-09-12	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2021-09-12	
Linuron	< 0.050	N/A	0.050	µg/L	2021-09-12	
Malathion	< 0.100	MAC = 190	0.100	µg/L	2021-09-12	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2021-09-12	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2021-09-12	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2021-09-12	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2021-09-12	
Parathion	< 0.100	N/A	0.100	µg/L	2021-09-12	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2021-09-12	
Permethrin	< 0.010	N/A	0.010	µg/L	2021-09-12	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2021-09-12	
Prometon	< 0.300	N/A	0.300	µg/L	2021-09-12	
Prometryne	< 0.100	N/A	0.100	µg/L	2021-09-12	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2021-09-12	
Sulfotep	< 0.100	N/A	0.100	µg/L	2021-09-12	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2021-09-12	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2021-09-12	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2021-09-12	
Triallate	< 0.100	N/A	0.100	µg/L	2021-09-12	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2021-09-12	
Surrogate: Tributyl Phosphate	88		50-140	%	2021-09-12	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	46		50-140	%	2021-09-12	

**Polycyclic Aromatic Hydrocarbons (PAH)**



# TEST RESULTS

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2021-09-14 15:11

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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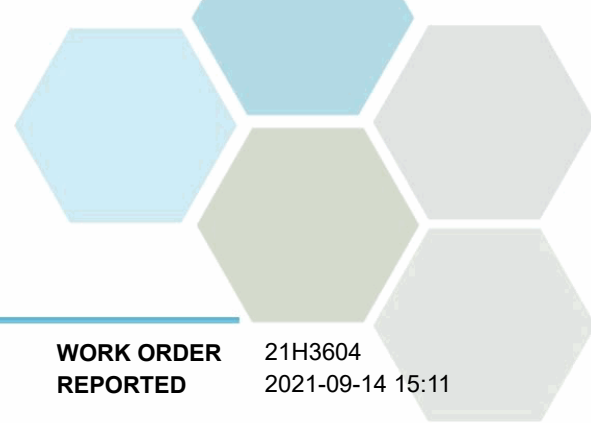
**Treated (21H3604-01) | Matrix: Water | Sampled: 2021-08-30, Continued**

**Polycyclic Aromatic Hydrocarbons (PAH), Continued**

Acenaphthene	< 0.050	N/A	0.050	µg/L	2021-09-04	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2021-09-04	
Acridine	< 0.050	N/A	0.050	µg/L	2021-09-04	
Anthracene	< 0.010	N/A	0.010	µg/L	2021-09-04	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2021-09-04	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2021-09-04	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2021-09-04	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2021-09-04	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2021-09-04	
2-Chloronaphthalene	< 0.100	N/A	0.100	µg/L	2021-09-04	
Chrysene	< 0.050	N/A	0.050	µg/L	2021-09-04	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2021-09-04	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2021-09-04	
Fluorene	< 0.050	N/A	0.050	µg/L	2021-09-04	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2021-09-04	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2021-09-04	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2021-09-04	
Naphthalene	< 0.200	N/A	0.200	µg/L	2021-09-04	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2021-09-04	
Pyrene	< 0.020	N/A	0.020	µg/L	2021-09-04	
Quinoline	< 0.050	N/A	0.050	µg/L	2021-09-04	
Surrogate: Acridine-d9	43		50-140	%	2021-09-04	S02
Surrogate: Naphthalene-d8	77		50-140	%	2021-09-04	
Surrogate: Perylene-d12	61		50-140	%	2021-09-04	

**Total Metals**

Aluminum, total	<b>0.0421</b>	OG < 0.1	0.0050	mg/L	2021-09-04	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2021-09-04	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2021-09-04	
Barium, total	<b>0.0910</b>	MAC = 2	0.0050	mg/L	2021-09-04	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2021-09-04	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2021-09-04	
Calcium, total	<b>42.4</b>	None Required	0.20	mg/L	2021-09-04	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-09-04	
Copper, total	<b>0.00049</b>	MAC = 2	0.00040	mg/L	2021-09-04	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2021-09-04	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2021-09-04	
Magnesium, total	<b>15.6</b>	None Required	0.010	mg/L	2021-09-04	
Manganese, total	<b>0.00068</b>	MAC = 0.12	0.00020	mg/L	2021-09-04	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2021-09-02	
Potassium, total	<b>0.91</b>	N/A	0.10	mg/L	2021-09-04	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2021-09-04	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2021-09-04	

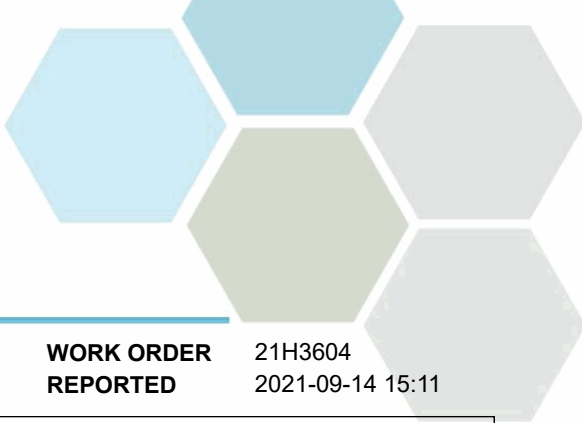


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<b>Treated (21H3604-01)   Matrix: Water   Sampled: 2021-08-30, Continued</b>					
<i>Total Metals, Continued</i>					
Sodium, total	4.29	AO ≤ 200	0.10 mg/L	2021-09-04	
Strontium, total	0.295	7	0.0010 mg/L	2021-09-04	
Uranium, total	0.000300	MAC = 0.02	0.000020 mg/L	2021-09-04	
Zinc, total	< 0.0040	AO ≤ 5	0.0040 mg/L	2021-09-04	
<i>Volatile Organic Compounds (VOC)</i>					
					CT8
Benzene	< 0.5	MAC = 5	0.5 µg/L	2021-09-04	
Bromodichloromethane	2.6	N/A	1.0 µg/L	2021-09-04	
Bromoform	4.9	N/A	1.0 µg/L	2021-09-04	
Carbon tetrachloride	< 0.5	MAC = 2	0.5 µg/L	2021-09-04	
Chlorobenzene	< 1.0	AO ≤ 30	1.0 µg/L	2021-09-04	
Chloroethane	< 2.0	N/A	2.0 µg/L	2021-09-04	
Chloroform	48.0	N/A	1.0 µg/L	2021-09-04	
Dibromochloromethane	1.6	N/A	1.0 µg/L	2021-09-04	
1,2-Dibromoethane	< 0.3	N/A	0.3 µg/L	2021-09-04	
Dibromomethane	< 1.0	N/A	1.0 µg/L	2021-09-04	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5 µg/L	2021-09-04	
1,3-Dichlorobenzene	< 1.0	N/A	1.0 µg/L	2021-09-04	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0 µg/L	2021-09-04	
1,1-Dichloroethane	< 1.0	N/A	1.0 µg/L	2021-09-04	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0 µg/L	2021-09-04	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0 µg/L	2021-09-04	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0 µg/L	2021-09-04	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0 µg/L	2021-09-04	
Dichloromethane	< 3.0	MAC = 50	3.0 µg/L	2021-09-04	
1,2-Dichloropropane	< 1.0	N/A	1.0 µg/L	2021-09-04	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0 µg/L	2021-09-04	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0 µg/L	2021-09-04	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0 µg/L	2021-09-04	
Styrene	< 1.0	N/A	1.0 µg/L	2021-09-04	
1,1,2,2-Tetrachloroethane	< 0.5	N/A	0.5 µg/L	2021-09-04	
Tetrachloroethylene	< 1.0	MAC = 10	1.0 µg/L	2021-09-04	
Toluene	< 90.0	AO ≤ 24	1.0 µg/L	2021-09-04	CST2
1,1,1-Trichloroethane	< 1.0	N/A	1.0 µg/L	2021-09-04	
1,1,2-Trichloroethane	< 1.0	N/A	1.0 µg/L	2021-09-04	
Trichloroethylene	< 1.0	MAC = 5	1.0 µg/L	2021-09-04	
Trichlorofluoromethane	< 1.0	N/A	1.0 µg/L	2021-09-04	
Vinyl chloride	< 1.0	MAC = 2	1.0 µg/L	2021-09-04	
Xylenes (total)	< 2.0	AO ≤ 20	2.0 µg/L	2021-09-04	
Surrogate: Toluene-d8	0.8		70-130 %	2021-09-04	S09
Surrogate: 4-Bromofluorobenzene	103		70-130 %	2021-09-04	



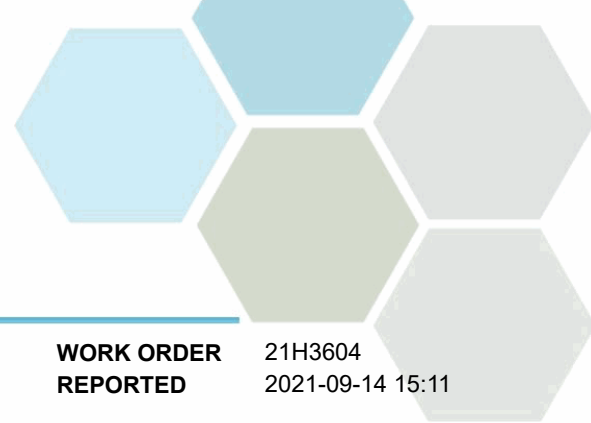
## TEST RESULTS

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**PROJECT** Schedule 4 - Code of Practice

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**REPORTED** 2021-09-14 15:11

**Sample Qualifiers:**

- CST2 Detection limit raised due to signal suppression from matrix interference
- CT8 Headspace in sample container is greater than 5% volume - VOC results may be compromised
- HT1 The sample was prepared and/or analyzed past the recommended holding time.
- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
- RA1 The Reporting Limit has been raised due to matrix interference.
- S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.
- S09 The surrogate recovery for this sample is outside of established control limits due to matrix effect



## APPENDIX 1: SUPPORTING INFORMATION

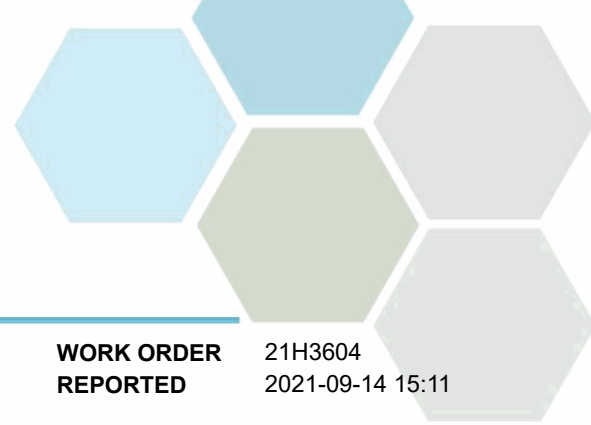
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Analysis Description	Method Ref.	Technique	Accredited	Location
Acid Herbicides in Water in Water	In-House	N/A	✓	Richmond
Alkalinity in Water	SM 2320 B* (2017)	Titration with H2SO4	✓	Edmonton
Ammonia, Total in Water	SM 4500-NH3 D* (2017)	Ion Selective Electrode	✓	Edmonton
Anions in Water	SM 4110 B (2017)	Ion Chromatography	✓	Edmonton
Bromate in Water	SM 4110 B (2017)	Ion Chromatography	✓	Sublet
Carbon, Total Organic in Water	SM 5310 B (2017)	Combustion, Infrared CO2 Detection	✓	Kelowna
Chlorine, Free in Water	SM 4500-Cl G (2017)	Colorimetry (DPD)	✓	Edmonton
Chlorine, Total in Water	SM 4500-Cl G (2017)	Colorimetry (DPD)	✓	Edmonton
Colour, True in Water	SM 2120 C (2017)	Spectrophotometry (456 nm)	✓	Edmonton
Conductivity in Water	SM 2510 B (2017)	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
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 (2017)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitilotriacetic Acid in Water	EPA 430.1	Manual Colorimetry (Zinc-Zincon)		Kelowna
Pesticides in Water	EPA 3510C* / EPA 8270D*	Liquid-Liquid DCM Extraction (B/N) / GC-MSD (SIM)	✓	Richmond
pH in Water	SM 4500-H+ B (2017)	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 (2017)	SM 1030 E (2011)	✓	N/A
Sulfide, Total in Water	SM 4500-S2 D* (2017)	Colorimetry (Methylene Blue)	✓	Edmonton
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Turbidity in Water	SM 2130 B (2017)	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*





## APPENDIX 1: SUPPORTING INFORMATION

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### Glossary of Terms:

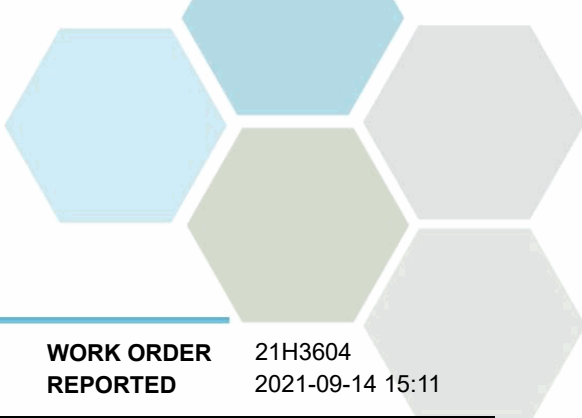
RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CU	Colour Units (referenced against a platinum cobalt standard)
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams 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

### 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 or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: [rpschyk@caro.ca](mailto:rpschyk@caro.ca)

*Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.*



## 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.

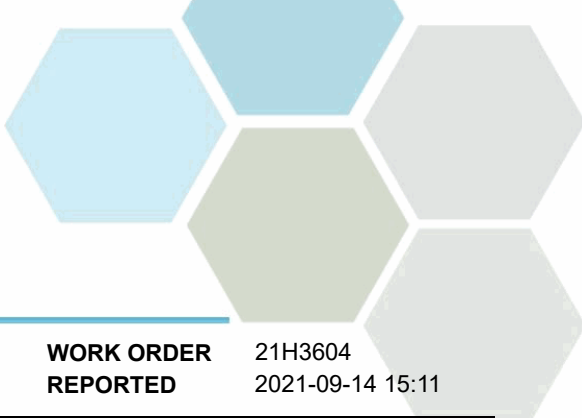
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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### Acid Herbicides, Batch B110593

Blank (B110593-BLK1)			Prepared: 2021-09-05, Analyzed: 2021-09-08						
2,4-D	< 0.10	0.10 µg/L							
MCPA	< 0.02	0.02 µg/L							
2,4,5-T	< 0.10	0.10 µg/L							
Dicamba	< 0.10	0.10 µg/L							
Picloram	< 0.10	0.10 µg/L							
Dinoseb	< 0.10	0.10 µg/L							
LCS (B110593-BS1)			Prepared: 2021-09-05, Analyzed: 2021-09-08						
2,4-D	5.55	0.10 µg/L	5.05		110	70-130			
MCPA	5.82	0.02 µg/L	5.05		115	70-130			
2,4,5-T	5.62	0.10 µg/L	4.98		113	70-130			
Dicamba	4.98	0.10 µg/L	5.05		99	70-130			
Picloram	5.84	0.10 µg/L	5.00		117	70-130			
Dinoseb	5.52	0.10 µg/L	4.98		111	70-130			
LCS Dup (B110593-BSD1)			Prepared: 2021-09-05, Analyzed: 2021-09-08						
2,4-D	3.94	0.10 µg/L	5.05		78	70-130	34	30	RPD
MCPA	3.98	0.02 µg/L	5.05		79	70-130	37	30	RPD
2,4,5-T	3.99	0.10 µg/L	4.98		80	70-130	34	30	RPD
Dicamba	4.29	0.10 µg/L	5.05		85	70-130	15	30	
Picloram	4.04	0.10 µg/L	5.00		81	70-130	36	30	RPD
Dinoseb	3.61	0.10 µg/L	4.98		72	70-130	42	30	RPD

### Anions, Batch B110253

Blank (B110253-BLK1)			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Chloride	< 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							
Sulfate	< 1.0	1.0 mg/L							
LCS (B110253-BS1)			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Chloride	9.71	0.50 mg/L	10.0		97	90-110			
Fluoride	0.93	0.10 mg/L	1.00		93	85-115			
Nitrate (as N)	0.958	0.050 mg/L	1.00		96	92-108			



## APPENDIX 2: QUALITY CONTROL RESULTS

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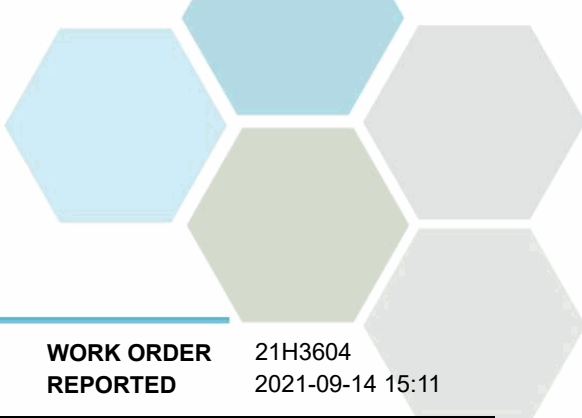
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Anions, Batch B110253, Continued</b>									
<b>LCS (B110253-BS1), Continued</b>					Prepared: 2021-09-01, Analyzed: 2021-09-01				
Nitrite (as N)	0.486	0.050 mg/L	0.500		97	85-115			
Sulfate	49.2	1.0 mg/L	50.0		98	90-110			
<b>Duplicate (B110253-DUP1)</b>					Source: 21H3604-01 Prepared: 2021-09-01, Analyzed: 2021-09-01				
Chloride	3.97	0.50 mg/L		3.96			< 1	7	
Fluoride	< 0.10	0.10 mg/L		< 0.10				15	
Nitrate (as N)	< 0.050	0.050 mg/L		< 0.050				12	
Nitrite (as N)	< 0.050	0.050 mg/L		< 0.050				18	
Sulfate	40.8	1.0 mg/L		41.0			< 1	8	
<b>Matrix Spike (B110253-MS1)</b>					Source: 21H3604-01 Prepared: 2021-09-01, Analyzed: 2021-09-01				
Chloride	13.7	0.50 mg/L	10.0	3.96	97	85-115			
Fluoride	0.95	0.10 mg/L	1.00	< 0.10	87	85-115			
Nitrate (as N)	1.08	0.050 mg/L	1.00	< 0.050	108	87-111			
Nitrite (as N)	0.449	0.050 mg/L	0.500	< 0.050	90	81-127			
Sulfate	77.3	1.0 mg/L	40.0	41.0	91	85-115			

### Chlorinated Phenols, Batch B110984

<b>Blank (B110984-BLK1)</b>					Prepared: 2021-09-09, Analyzed: 2021-09-10				
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							
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	1.28	µg/L	2.00		64	60-130			
Surrogate: 2,4,6-Tribromophenol	1.65	µg/L	2.00		82	60-130			

<b>LCS (B110984-BS1)</b>					Prepared: 2021-09-09, Analyzed: 2021-09-09				
2-Chlorophenol	6.99	0.10 µg/L	10.0		70	60-130			
3 & 4-Chlorophenol	13.3	0.10 µg/L	20.1		66	60-130			
4-Chloro-3-Methylphenol	7.35	0.20 µg/L	10.0		74	60-130			
2,3-Dichlorophenol	7.03	0.20 µg/L	10.0		70	60-130			
2,4 & 2,5-Dichlorophenol	14.3	0.20 µg/L	20.2		71	60-130			
2,6-Dichlorophenol	6.87	0.20 µg/L	10.0		69	60-130			
3,4-Dichlorophenol	7.41	0.20 µg/L	10.0		74	60-130			
3,5-Dichlorophenol	7.44	0.20 µg/L	10.0		74	60-130			
2,3,4-Trichlorophenol	7.11	0.50 µg/L	10.0		71	60-130			
2,3,5-Trichlorophenol	7.32	0.50 µg/L	10.0		73	60-130			
2,3,6-Trichlorophenol	7.01	0.50 µg/L	10.0		70	60-130			
2,4,5-Trichlorophenol	7.06	0.50 µg/L	10.0		71	60-130			
2,4,6-Trichlorophenol	6.98	0.50 µg/L	10.0		69	60-130			
3,4,5-Trichlorophenol	8.22	0.50 µg/L	10.0		82	60-130			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	15.3	0.50 µg/L	20.0		76	60-130			



## APPENDIX 2: QUALITY CONTROL RESULTS

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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 B1I0984, Continued**

<b>LCS (B1I0984-BS1), Continued</b>			Prepared: 2021-09-09, Analyzed: 2021-09-09						
2,3,4,6-Tetrachlorophenol	7.43	0.50 µg/L	10.0		74	60-130			
Pentachlorophenol	7.69	0.50 µg/L	10.0		77	60-130			
Surrogate: 2,4-Dibromophenol	1.33	µg/L	2.00		66	60-130			
Surrogate: 2,4,6-Tribromophenol	2.25	µg/L	2.00		113	60-130			

<b>LCS Dup (B1I0984-BSD1)</b>			Prepared: 2021-09-09, Analyzed: 2021-09-09						
2-Chlorophenol	7.77	0.10 µg/L	10.0		78	60-130	11	40	
3 & 4-Chlorophenol	14.7	0.10 µg/L	20.1		73	60-130	10	40	
4-Chloro-3-Methylphenol	8.02	0.20 µg/L	10.0		80	60-130	9	40	
2,3-Dichlorophenol	7.63	0.20 µg/L	10.0		76	60-130	8	40	
2,4 & 2,5-Dichlorophenol	15.8	0.20 µg/L	20.2		78	60-130	10	40	
2,6-Dichlorophenol	7.63	0.20 µg/L	10.0		76	60-130	10	40	
3,4-Dichlorophenol	7.93	0.20 µg/L	10.0		79	60-130	7	40	
3,5-Dichlorophenol	7.87	0.20 µg/L	10.0		79	60-130	6	40	
2,3,4-Trichlorophenol	7.87	0.50 µg/L	10.0		79	60-130	10	40	
2,3,5-Trichlorophenol	8.10	0.50 µg/L	10.0		81	60-130	10	40	
2,3,6-Trichlorophenol	7.70	0.50 µg/L	10.0		77	60-130	9	40	
2,4,5-Trichlorophenol	7.64	0.50 µg/L	10.0		76	60-130	8	40	
2,4,6-Trichlorophenol	7.94	0.50 µg/L	10.0		79	60-130	13	40	
3,4,5-Trichlorophenol	8.91	0.50 µg/L	10.0		89	60-130	8	40	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	16.9	0.50 µg/L	20.0		85	60-130	10	40	
2,3,4,6-Tetrachlorophenol	8.38	0.50 µg/L	10.0		83	60-130	12	40	
Pentachlorophenol	8.55	0.50 µg/L	10.0		86	60-130	11	40	
Surrogate: 2,4-Dibromophenol	1.52	µg/L	2.00		76	60-130			
Surrogate: 2,4,6-Tribromophenol	2.20	µg/L	2.00		110	60-130			

**General Parameters, Batch B1H3129**

<b>Blank (B1H3129-BLK1)</b>			Prepared: 2021-09-02, Analyzed: 2021-09-02						
Carbon, Total Organic	< 0.50	0.50 mg/L							

<b>Blank (B1H3129-BLK2)</b>			Prepared: 2021-09-02, Analyzed: 2021-09-02						
Carbon, Total Organic	< 0.50	0.50 mg/L							

<b>LCS (B1H3129-BS1)</b>			Prepared: 2021-09-02, Analyzed: 2021-09-02						
Carbon, Total Organic	10.6	0.50 mg/L	10.0		106	78-116			

<b>LCS (B1H3129-BS2)</b>			Prepared: 2021-09-02, Analyzed: 2021-09-02						
Carbon, Total Organic	10.4	0.50 mg/L	10.0		104	78-116			

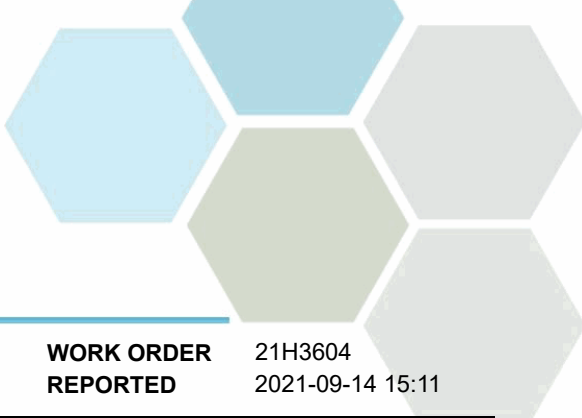
**General Parameters, Batch B1I0101**

<b>Blank (B1I0101-BLK1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Alkalinity, Total (as CaCO3)	< 2.0	2.0 mg/L							
Bicarbonate (HCO3)	< 2.0	2.0 mg/L							
Carbonate (CO3)	< 2.0	2.0 mg/L							
Hydroxide (OH)	< 2.0	2.0 mg/L							

<b>LCS (B1I0101-BS1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Alkalinity, Total (as CaCO3)	244	2.0 mg/L	250		98	94-108			

**General Parameters, Batch B1I0102**

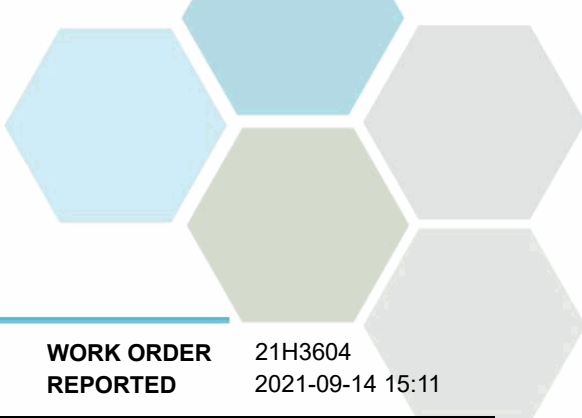
<b>Reference (B1I0102-SRM1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
pH	7.11	0.10 pH units	7.00		102	98-102			



## APPENDIX 2: QUALITY CONTROL RESULTS

<b>REPORTED TO PROJECT</b>	Mountainview Regional Water Services Commission Schedule 4 - Code of Practice	<b>WORK ORDER REPORTED</b>	21H3604 2021-09-14 15:11
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>General Parameters, Batch B110108</b>									
<b>Blank (B110108-BLK1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
<b>Blank (B110108-BLK2)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
<b>LCS (B110108-BS1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Ammonia, Total (as N)	0.198	0.050 mg/L	0.200		99	85-115			
<b>LCS (B110108-BS2)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Ammonia, Total (as N)	0.206	0.050 mg/L	0.200		103	85-115			
<b>General Parameters, Batch B110125</b>									
<b>Blank (B110125-BLK1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Cyanide, Total	< 0.0020	0.0020 mg/L							
<b>LCS (B110125-BS1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Cyanide, Total	0.0206	0.0020 mg/L	0.0200		103	82-120			
<b>LCS Dup (B110125-BSD1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Cyanide, Total	0.0203	0.0020 mg/L	0.0200		101	82-120	1	10	
<b>General Parameters, Batch B110157</b>									
<b>Blank (B110157-BLK1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Sulfide, Total	< 0.020	0.020 mg/L							
<b>LCS (B110157-BS1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Sulfide, Total	0.477	0.020 mg/L	0.445		107	80-120			
<b>Duplicate (B110157-DUP1)</b>			<b>Source: 21H3604-01</b>		Prepared: 2021-09-01, Analyzed: 2021-09-01				
Sulfide, Total	< 0.020	0.020 mg/L		< 0.020					15
<b>General Parameters, Batch B110181</b>									
<b>Blank (B110181-BLK1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Nitritotriacetic Acid	< 0.20	0.20 mg/L							
<b>LCS (B110181-BS1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Nitritotriacetic Acid	1.08	0.20 mg/L	1.00		108	80-120			
<b>LCS Dup (B110181-BSD1)</b>			Prepared: 2021-09-01, Analyzed: 2021-09-01						
Nitritotriacetic Acid	0.90	0.20 mg/L	1.00		90	80-120	18	20	
<b>General Parameters, Batch B110278</b>									
<b>Blank (B110278-BLK1)</b>			Prepared: 2021-09-02, Analyzed: 2021-09-02						
Turbidity	< 0.10	0.10 NTU							
<b>LCS (B110278-BS1)</b>			Prepared: 2021-09-02, Analyzed: 2021-09-02						
Turbidity	40.0	0.10 NTU	40.0		100	90-110			
<b>Duplicate (B110278-DUP1)</b>			<b>Source: 21H3604-01</b>		Prepared: 2021-09-02, Analyzed: 2021-09-02				
Turbidity	< 0.10	0.10 NTU		< 0.10					10

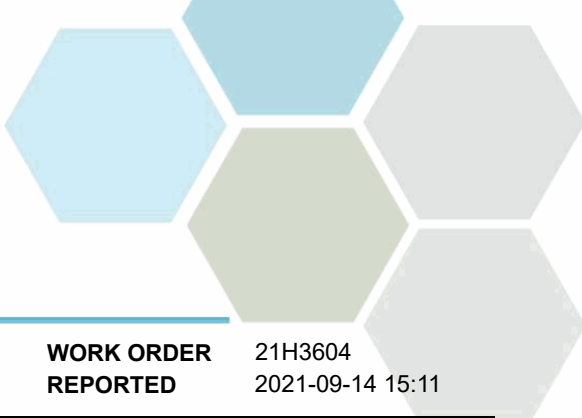


## APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>General Parameters, Batch B110302</b>									
<b>Blank (B110302-BLK1)</b>			Prepared: 2021-09-02, Analyzed: 2021-09-02						
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	< 0.02	0.02 mg/L							
<b>Reference (B110302-SRM1)</b>			Prepared: 2021-09-02, Analyzed: 2021-09-02						
Chlorine, Total	1.57	0.02 mg/L	1.59		99	91.2-108.8			
Chlorine, Free	1.57	0.02 mg/L	1.59		99	91.2-108.8			
<b>General Parameters, Batch B110422</b>									
<b>Blank (B110422-BLK1)</b>			Prepared: 2021-09-07, Analyzed: 2021-09-07						
Colour, True	< 5.0	5.0 CU							
<b>LCS (B110422-BS1)</b>			Prepared: 2021-09-07, Analyzed: 2021-09-07						
Colour, True	23	5.0 CU	25.0		91	90-109			
<b>General Parameters, Batch B110699</b>									
<b>Blank (B110699-BLK1)</b>			Prepared: 2021-09-07, Analyzed: 2021-09-07						
Conductivity (EC)	< 2.0	2.0 µS/cm							
<b>Blank (B110699-BLK2)</b>			Prepared: 2021-09-07, Analyzed: 2021-09-07						
Conductivity (EC)	< 2.0	2.0 µS/cm							
<b>LCS (B110699-BS1)</b>			Prepared: 2021-09-07, Analyzed: 2021-09-07						
Conductivity (EC)	995	2.0 µS/cm	1000		100	95-105			
<b>LCS (B110699-BS2)</b>			Prepared: 2021-09-07, Analyzed: 2021-09-07						
Conductivity (EC)	992	2.0 µS/cm	1000		99	95-105			
<b>Haloacetic Acids, Batch B110948</b>									
<b>Blank (B110948-BLK1)</b>			Prepared: 2021-09-09, Analyzed: 2021-09-10						
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	0.0121	mg/L	0.0116		104	70-130			
<b>LCS (B110948-BS1)</b>			Prepared: 2021-09-09, Analyzed: 2021-09-09						
Monochloroacetic Acid	0.0562	0.0020 mg/L	0.0563		100	75-117			
Monobromoacetic Acid	0.0378	0.0020 mg/L	0.0376		101	83-113			
Dichloroacetic Acid	0.0574	0.0020 mg/L	0.0561		102	78-112			
Trichloroacetic Acid	0.0192	0.0020 mg/L	0.0187		103	81-110			
Dibromoacetic Acid	0.0196	0.0020 mg/L	0.0188		105	89-112			
Surrogate: 2-Bromopropionic Acid	0.0117	mg/L	0.0116		100	70-130			
<b>LCS Dup (B110948-BSD1)</b>			Prepared: 2021-09-09, Analyzed: 2021-09-09						
Monochloroacetic Acid	0.0562	0.0020 mg/L	0.0563		100	75-117	< 1	30	
Monobromoacetic Acid	0.0374	0.0020 mg/L	0.0376		100	83-113	1	30	
Dichloroacetic Acid	0.0547	0.0020 mg/L	0.0561		97	78-112	5	30	
Trichloroacetic Acid	0.0182	0.0020 mg/L	0.0187		97	81-110	5	30	
Dibromoacetic Acid	0.0179	0.0020 mg/L	0.0188		96	89-112	9	30	
Surrogate: 2-Bromopropionic Acid	0.0116	mg/L	0.0116		99	70-130			



## APPENDIX 2: QUALITY CONTROL RESULTS

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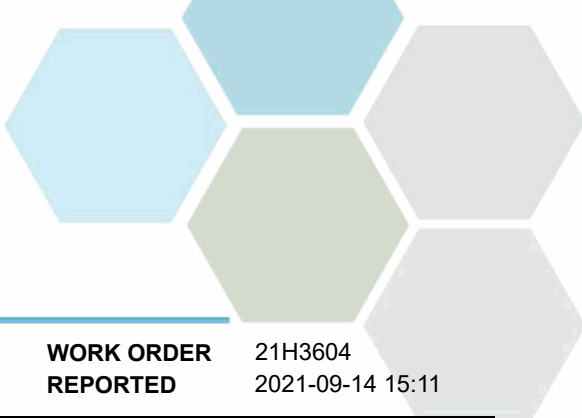
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Haloacetic Acids, Batch B110948, Continued</b>									
<b>Matrix Spike (B110948-MS1)</b>		<b>Source: 21H3604-01</b>		<b>Prepared: 2021-09-09, Analyzed: 2021-09-09</b>					
Monochloroacetic Acid	0.0512	0.0020 mg/L	0.0563	< 0.0020	91	60-140			
Monobromoacetic Acid	0.0381	0.0020 mg/L	0.0376	< 0.0020	101	60-140			
Dichloroacetic Acid	0.0770	0.0020 mg/L	0.0561	0.0225	97	60-140			
Trichloroacetic Acid	0.0439	0.0020 mg/L	0.0187	0.0235	109	60-140			
Dibromoacetic Acid	0.0178	0.0020 mg/L	0.0188	< 0.0020	95	60-140			
Surrogate: 2-Bromopropionic Acid	0.0117	mg/L	0.0116		101	70-130			

### Miscellaneous Herbicides, Batch B110592

<b>Blank (B110592-BLK1)</b>		<b>Prepared: 2021-09-05, Analyzed: 2021-09-08</b>							
Glyphosate	< 0.050	0.050 mg/L							
<b>LCS (B110592-BS1)</b>		<b>Prepared: 2021-09-05, Analyzed: 2021-09-08</b>							
Glyphosate	0.222	0.050 mg/L	0.250		89	70-130			
<b>LCS Dup (B110592-BSD1)</b>		<b>Prepared: 2021-09-05, Analyzed: 2021-09-08</b>							
Glyphosate	0.200	0.050 mg/L	0.250		80	70-130	11	20	

### Pesticides, Herbicides, and Fungicides, Batch B110644

<b>Blank (B110644-BLK1)</b>		<b>Prepared: 2021-09-07, Analyzed: 2021-09-12</b>							
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							
Endrin	< 0.020	0.020 µg/L							
Endrin aldehyde	< 0.020	0.020 µg/L							
Endrin ketone	< 0.020	0.020 µg/L							
Fenchlorphos (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							



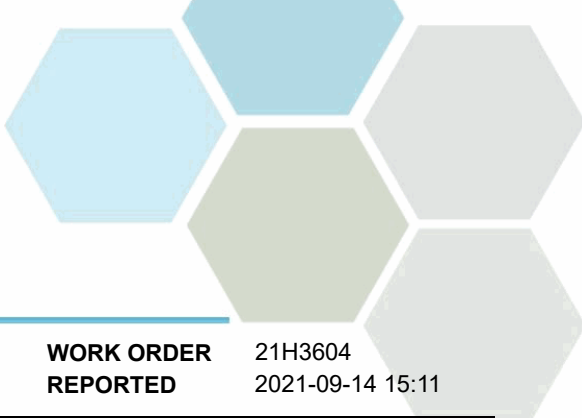
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Pesticides, Herbicides, and Fungicides, Batch B110644, Continued</b>									
<b>Blank (B110644-BLK1), Continued</b>					Prepared: 2021-09-07, Analyzed: 2021-09-12				
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	< 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	0.864	µg/L	0.998		87	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.666	µg/L	1.00		67	50-140			
<b>LCS (B110644-BS1)</b>					Prepared: 2021-09-07, Analyzed: 2021-09-12				
Alachlor	0.900	0.100 µg/L	1.01		89	50-140			
Aldrin	0.814	0.006 µg/L	1.00		81	50-140			
Atrazine	0.842	0.100 µg/L	1.00		84	50-140			
Atrazine-desethyl	0.525	0.100 µg/L	1.01		52	50-140			
Azinphos-methyl	1.15	0.200 µg/L	1.00		115	50-140			
alpha-BHC	0.788	0.010 µg/L	1.01		78	50-140			
beta-BHC	0.890	0.050 µg/L	1.01		88	50-140			
delta-BHC	0.844	0.050 µg/L	1.00		84	50-140			
gamma-BHC (Lindane)	0.708	0.050 µg/L	1.00		71	50-140			
Bromacil	0.979	0.100 µg/L	1.00		98	50-140			
Bromoxynil	0.841	0.200 µg/L	1.02		82	50-140			
Butachlor	0.923	0.020 µg/L	0.998		92	50-140			
Captan	1.11	0.100 µg/L	0.992		112	50-140			
Chlordane (cis + trans)	1.68	0.050 µg/L	2.01		83	50-140			
Chlorothalonil	0.798	0.050 µg/L	0.978		82	50-140			
Chlorpyrifos	0.921	0.010 µg/L	1.00		92	50-140			
Cyanazine	0.959	0.100 µg/L	1.00		96	50-140			
DDT, Total	6.05	0.010 µg/L	5.02		121	50-140			
Deltamethrin	7.15	0.100 µg/L	10.0		72	50-140			
Diazinon	0.894	0.020 µg/L	1.01		88	50-140			
Dichlorvos	0.831	0.100 µg/L	1.01		82	50-140			
Diclofop-methyl	1.13	0.100 µg/L	1.02		111	50-140			
Dieldrin	0.820	0.010 µg/L	1.00		82	50-140			
Dimethoate	0.978	0.200 µg/L	1.00		98	50-140			
Disulfoton	0.968	0.100 µg/L	1.04		93	50-140			
Diuron	0.872	0.200 µg/L	1.02		86	50-140			
Endosulfan I + II	1.97	0.010 µg/L	2.01		98	50-140			
Endosulfan sulfate	1.06	0.050 µg/L	1.01		105	50-140			
Endrin	1.18	0.020 µg/L	1.01		117	50-140			
Endrin aldehyde	1.17	0.020 µg/L	1.00		117	50-140			
Endrin ketone	0.850	0.020 µg/L	1.01		84	50-140			
Fenchlorphos (Ronnel)	0.901	0.100 µg/L	1.07		84	50-140			
Heptachlor	0.855	0.010 µg/L	1.01		85	50-140			
Heptachlor epoxide	0.802	0.010 µg/L	1.01		79	50-140			
Linuron	1.02	0.050 µg/L	1.01		101	50-140			



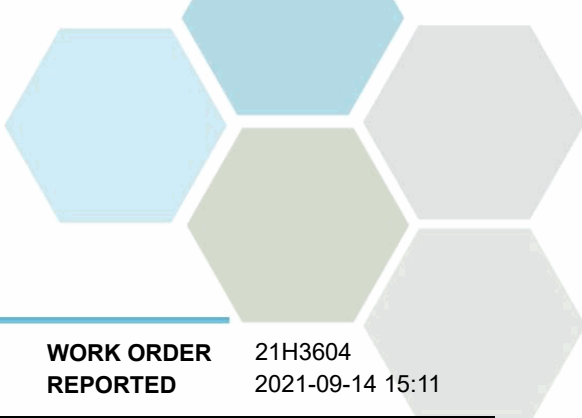


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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Pesticides, Herbicides, and Fungicides, Batch B110644, Continued</b>									
<b>LCS (B110644-BS1), Continued</b>					Prepared: 2021-09-07, Analyzed: 2021-09-12				
Malathion	1.01	0.100 µg/L	1.00		101	50-140			
Methoxychlor	0.848	0.050 µg/L	1.01		84	50-140			
Methyl parathion	0.972	0.100 µg/L	0.998		97	50-140			
Metolachlor	0.882	0.100 µg/L	1.01		87	50-140			
Metribuzin	0.964	0.200 µg/L	1.00		96	50-140			
Parathion	0.963	0.100 µg/L	1.00		96	50-140			
Pentachloronitrobenzene	0.828	0.100 µg/L	1.00		83	50-140			
Permethrin	0.896	0.010 µg/L	1.03		87	50-140			
Phorate	0.860	0.100 µg/L	1.02		84	50-140			
Prometon	0.606	0.300 µg/L	1.00		61	50-140			
Prometryne	0.846	0.100 µg/L	1.00		85	50-140			
Simazine	0.859	0.200 µg/L	1.01		85	50-140			
Sulfotep	0.914	0.100 µg/L	1.00		91	50-140			
Tebuthiuron	1.16	0.200 µg/L	1.01		114	50-140			
Temephos (Abate)	9.05	0.500 µg/L	10.7		85	50-140			
Terbufos	0.910	0.100 µg/L	0.990		92	50-140			
Triallate	0.807	0.100 µg/L	1.02		79	50-140			
Trifluralin	0.860	0.200 µg/L	1.00		86	50-140			
Surrogate: Tributyl Phosphate	1.04	µg/L	0.998		104	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.598	µg/L	1.00		60	50-140			
<b>LCS Dup (B110644-BSD1)</b>					Prepared: 2021-09-07, Analyzed: 2021-09-12				
Alachlor	0.838	0.100 µg/L	1.01		83	50-140	7	30	
Aldrin	0.752	0.006 µg/L	1.00		75	50-140	8	30	
Atrazine	0.818	0.100 µg/L	1.00		82	50-140	3	30	
Atrazine-desethyl	0.526	0.100 µg/L	1.01		52	50-140	< 1	30	
Azinphos-methyl	1.21	0.200 µg/L	1.00		121	50-140	5	30	
alpha-BHC	0.750	0.010 µg/L	1.01		74	50-140	5	30	
beta-BHC	0.836	0.050 µg/L	1.01		83	50-140	6	30	
delta-BHC	0.781	0.050 µg/L	1.00		78	50-140	8	30	
gamma-BHC (Lindane)	0.743	0.050 µg/L	1.00		74	50-140	5	30	
Bromacil	0.940	0.100 µg/L	1.00		94	50-140	4	30	
Bromoxynil	0.849	0.200 µg/L	1.02		83	50-140	< 1	30	
Butachlor	0.887	0.020 µg/L	0.998		89	50-140	4	30	
Captan	1.10	0.100 µg/L	0.992		111	50-140	1	30	
Chlordane (cis + trans)	1.60	0.050 µg/L	2.01		79	50-140	5	30	
Chlorothalonil	0.756	0.050 µg/L	0.978		77	50-140	5	30	
Chlorpyrifos	0.850	0.010 µg/L	1.00		85	50-140	8	30	
Cyanazine	0.919	0.100 µg/L	1.00		92	50-140	4	30	
DDT, Total	4.97	0.010 µg/L	5.02		99	50-140	20	30	
Deltamethrin	8.51	0.100 µg/L	10.0		85	50-140	17	30	
Diazinon	0.830	0.020 µg/L	1.01		82	50-140	7	30	
Dichlorvos	0.856	0.100 µg/L	1.01		85	50-140	3	30	
Diclofop-methyl	0.794	0.100 µg/L	1.02		78	50-140	35	30	RPD
Dieldrin	0.805	0.010 µg/L	1.00		80	50-140	2	30	
Dimethoate	0.981	0.200 µg/L	1.00		98	50-140	< 1	30	
Disulfoton	0.868	0.100 µg/L	1.04		83	50-140	11	30	
Diuron	0.823	0.200 µg/L	1.02		81	50-140	6	30	
Endosulfan I + II	1.63	0.010 µg/L	2.01		81	50-140	19	30	
Endosulfan sulfate	0.763	0.050 µg/L	1.01		76	50-140	33	30	RPD
Endrin	0.891	0.020 µg/L	1.01		88	50-140	28	30	
Endrin ketone	0.819	0.020 µg/L	1.01		81	50-140	4	30	
Fenchlorphos (Ronnel)	0.865	0.100 µg/L	1.07		81	50-140	4	30	
Heptachlor	0.812	0.010 µg/L	1.01		80	50-140	5	30	
Heptachlor epoxide	0.761	0.010 µg/L	1.01		75	50-140	5	30	
Linuron	1.14	0.050 µg/L	1.01		113	50-140	11	30	



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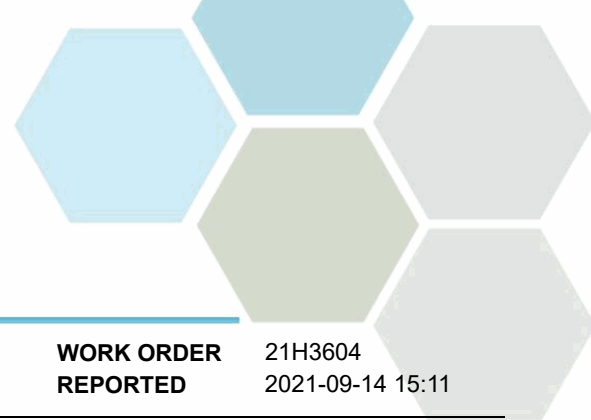
**WORK ORDER REPORTED** 21H3604  
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Pesticides, Herbicides, and Fungicides, Batch B110644, Continued</b>									
<b>LCS Dup (B110644-BS1), Continued</b>					Prepared: 2021-09-07, Analyzed: 2021-09-12				
Malathion	0.936	0.100 µg/L	1.00		94	50-140	7	30	
Methoxychlor	0.956	0.050 µg/L	1.01		95	50-140	12	30	
Methyl parathion	0.933	0.100 µg/L	0.998		93	50-140	4	30	
Metolachlor	0.830	0.100 µg/L	1.01		82	50-140	6	30	
Metribuzin	0.914	0.200 µg/L	1.00		91	50-140	5	30	
Parathion	0.899	0.100 µg/L	1.00		90	50-140	7	30	
Pentachloronitrobenzene	0.789	0.100 µg/L	1.00		79	50-140	5	30	
Permethrin	0.945	0.010 µg/L	1.03		92	50-140	5	30	
Phorate	0.816	0.100 µg/L	1.02		80	50-140	5	30	
Prometryne	0.842	0.100 µg/L	1.00		84	50-140	< 1	30	
Simazine	0.858	0.200 µg/L	1.01		85	50-140	< 1	30	
Sulfotep	0.878	0.100 µg/L	1.00		88	50-140	4	30	
Tebuthiuron	1.13	0.200 µg/L	1.01		112	50-140	2	30	
Temephos (Abate)	10.2	0.500 µg/L	10.7		95	50-140	12	30	
Terbufos	0.850	0.100 µg/L	0.990		86	50-140	7	30	
Triallate	0.756	0.100 µg/L	1.02		74	50-140	7	30	
Trifluralin	0.835	0.200 µg/L	1.00		84	50-140	3	30	
Surrogate: Tributyl Phosphate	0.976	µg/L	0.998		98	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.695	µg/L	1.00		70	50-140			

### Polycyclic Aromatic Hydrocarbons (PAH), Batch B110481

<b>Blank (B110481-BLK1)</b>			Prepared: 2021-09-03, Analyzed: 2021-09-04						
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							
Benz(a)anthracene	0.033	0.010 µg/L							BLK
Benzo(a)pyrene	0.015	0.010 µg/L							BLK
Benzo(b+j)fluoranthene	0.065	0.050 µg/L							BLK
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	0.056	0.050 µg/L							BLK
Dibenz(a,h)anthracene	0.024	0.010 µg/L							BLK
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	0.153	0.050 µg/L							BLK
Surrogate: Acridine-d9	0.454	µg/L	4.47		10	50-140			S09a
Surrogate: Naphthalene-d8	0.997	µg/L	4.44		22	50-140			S09a
Surrogate: Perylene-d12	0.886	µg/L	4.44		20	50-140			S09a

<b>LCS (B110481-BS1)</b>			Prepared: 2021-09-03, Analyzed: 2021-09-04						
Acenaphthene	4.20	0.050 µg/L	4.44		94	50-140			
Acenaphthylene	4.21	0.200 µg/L	4.44		95	50-140			
Acridine	3.32	0.050 µg/L	4.40		75	50-140			
Anthracene	3.86	0.010 µg/L	4.44		87	50-140			
Benz(a)anthracene	4.22	0.010 µg/L	4.44		95	50-140			
Benzo(a)pyrene	3.91	0.010 µg/L	4.44		88	50-140			
Benzo(b+j)fluoranthene	7.88	0.050 µg/L	8.89		89	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
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### Polycyclic Aromatic Hydrocarbons (PAH), Batch B110481, Continued

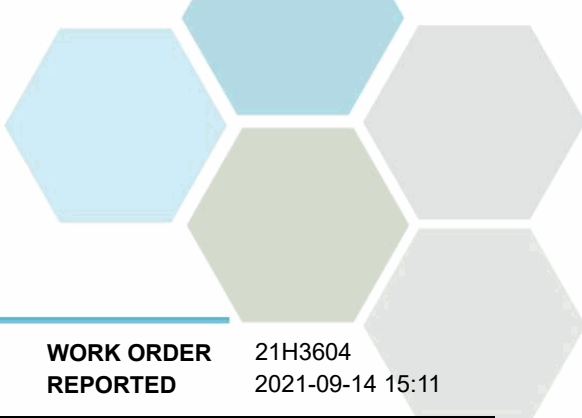
LCS (B110481-BS1), Continued				Prepared: 2021-09-03, Analyzed: 2021-09-04					
Benzo(g,h,i)perylene	3.81	0.050 µg/L	4.44		86	50-140			
Benzo(k)fluoranthene	4.12	0.050 µg/L	4.44		93	50-140			
2-Chloronaphthalene	3.80	0.100 µg/L	4.42		86	50-140			
Chrysene	4.34	0.050 µg/L	4.44		98	50-140			
Dibenz(a,h)anthracene	3.70	0.010 µg/L	4.44		83	50-140			
Fluoranthene	3.92	0.030 µg/L	4.44		88	50-140			
Fluorene	4.08	0.050 µg/L	4.44		92	50-140			
Indeno(1,2,3-cd)pyrene	3.86	0.050 µg/L	4.44		87	50-140			
1-Methylnaphthalene	4.41	0.100 µg/L	4.44		99	50-140			
2-Methylnaphthalene	4.42	0.100 µg/L	4.44		99	50-140			
Naphthalene	4.72	0.200 µg/L	4.44		106	50-140			
Phenanthrene	4.23	0.100 µg/L	4.44		95	50-140			
Pyrene	3.90	0.020 µg/L	4.44		88	50-140			
Quinoline	7.17	0.050 µg/L	4.44		161	50-140			SPK
Surrogate: Acridine-d9	2.43	µg/L	4.47		54	50-140			
Surrogate: Naphthalene-d8	3.47	µg/L	4.44		78	50-140			
Surrogate: Perylene-d12	2.70	µg/L	4.44		61	50-140			

LCS Dup (B110481-BSD1)				Prepared: 2021-09-03, Analyzed: 2021-09-04					
Acenaphthene	4.29	0.050 µg/L	4.44		96	50-140	2	30	
Acenaphthylene	4.30	0.200 µg/L	4.44		97	50-140	2	30	
Acridine	3.24	0.050 µg/L	4.40		74	50-140	3	30	
Anthracene	4.20	0.010 µg/L	4.44		94	50-140	8	30	
Benz(a)anthracene	4.18	0.010 µg/L	4.44		94	50-140	1	30	
Benzo(a)pyrene	3.90	0.010 µg/L	4.44		88	50-140	< 1	30	
Benzo(b+j)fluoranthene	7.94	0.050 µg/L	8.89		89	50-140	< 1	30	
Benzo(g,h,i)perylene	3.77	0.050 µg/L	4.44		85	50-140	1	30	
Benzo(k)fluoranthene	4.11	0.050 µg/L	4.44		92	50-140	< 1	30	
2-Chloronaphthalene	3.92	0.100 µg/L	4.42		89	50-140	3	30	
Chrysene	4.33	0.050 µg/L	4.44		98	50-140	< 1	30	
Dibenz(a,h)anthracene	3.70	0.010 µg/L	4.44		83	50-140	< 1	30	
Fluoranthene	3.87	0.030 µg/L	4.44		87	50-140	1	30	
Fluorene	4.13	0.050 µg/L	4.44		93	50-140	1	30	
Indeno(1,2,3-cd)pyrene	3.87	0.050 µg/L	4.44		87	50-140	< 1	30	
1-Methylnaphthalene	4.56	0.100 µg/L	4.44		103	50-140	3	30	
2-Methylnaphthalene	4.49	0.100 µg/L	4.44		101	50-140	2	30	
Naphthalene	4.85	0.200 µg/L	4.44		109	50-140	3	30	
Phenanthrene	4.24	0.100 µg/L	4.44		95	50-140	< 1	30	
Pyrene	3.87	0.020 µg/L	4.44		87	50-140	< 1	30	
Quinoline	6.36	0.050 µg/L	4.44		143	50-140	12	30	SPK
Surrogate: Acridine-d9	2.70	µg/L	4.47		60	50-140			
Surrogate: Naphthalene-d8	4.01	µg/L	4.44		90	50-140			
Surrogate: Perylene-d12	3.10	µg/L	4.44		70	50-140			

### Total Metals, Batch B110343

Blank (B110343-BLK1)				Prepared: 2021-09-02, Analyzed: 2021-09-02					
Mercury, total	< 0.000010	0.000010 mg/L							
Reference (B110343-SRM1)				Prepared: 2021-09-02, Analyzed: 2021-09-02					
Mercury, total	0.00536	0.000010 mg/L	0.00581		92	70-130			

### Total Metals, Batch B110408

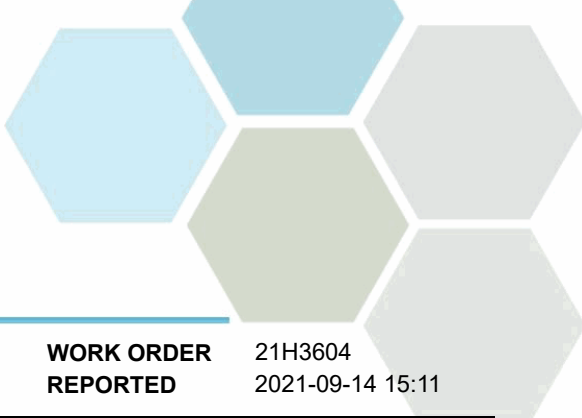


## APPENDIX 2: QUALITY CONTROL RESULTS

**REPORTED TO PROJECT** Mountainview Regional Water Services Commission  
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**WORK ORDER REPORTED** 21H3604  
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Total Metals, Batch B110408, Continued</b>									
<b>Blank (B110408-BLK1)</b>					Prepared: 2021-09-03, Analyzed: 2021-09-03				
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							
Boron, total	< 0.0500	0.0500 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							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 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							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
<b>Blank (B110408-BLK2)</b>					Prepared: 2021-09-03, Analyzed: 2021-09-04				
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							
Boron, total	< 0.0500	0.0500 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							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 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							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
<b>LCS (B110408-BS1)</b>					Prepared: 2021-09-03, Analyzed: 2021-09-04				
Aluminum, total	0.0233	0.0050 mg/L	0.0199		117	80-120			
Antimony, total	0.0208	0.00020 mg/L	0.0200		104	80-120			
Arsenic, total	0.0194	0.00050 mg/L	0.0200		97	80-120			
Barium, total	0.0195	0.0050 mg/L	0.0198		98	80-120			
Boron, total	< 0.0500	0.0500 mg/L	0.0200		112	80-120			
Cadmium, total	0.0196	0.000010 mg/L	0.0199		98	80-120			
Calcium, total	2.01	0.20 mg/L	2.02		99	80-120			
Chromium, total	0.0195	0.00050 mg/L	0.0198		99	80-120			
Copper, total	0.0197	0.00040 mg/L	0.0200		98	80-120			
Iron, total	1.93	0.010 mg/L	2.02		95	80-120			
Lead, total	0.0207	0.00020 mg/L	0.0199		104	80-120			
Magnesium, total	2.04	0.010 mg/L	2.02		101	80-120			
Manganese, total	0.0204	0.00020 mg/L	0.0199		103	80-120			

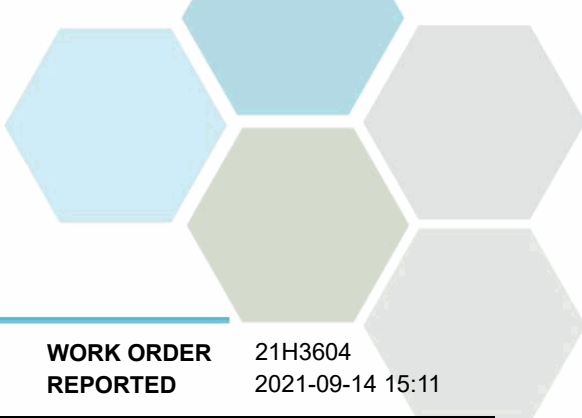


## APPENDIX 2: QUALITY CONTROL RESULTS

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**WORK ORDER REPORTED** 21H3604  
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Total Metals, Batch B110408, Continued</b>									
<b>LCS (B110408-BS1), Continued</b>					Prepared: 2021-09-03, Analyzed: 2021-09-04				
Potassium, total	1.88	0.10 mg/L	2.02		93	80-120			
Selenium, total	0.0201	0.00050 mg/L	0.0200		101	80-120			
Silver, total	0.0197	0.000050 mg/L	0.0200		99	80-120			
Sodium, total	2.00	0.10 mg/L	2.02		99	80-120			
Strontium, total	0.0173	0.0010 mg/L	0.0200		87	80-120			
Uranium, total	0.0200	0.000020 mg/L	0.0200		100	80-120			
Zinc, total	0.0201	0.0040 mg/L	0.0200		100	80-120			
<b>LCS (B110408-BS2)</b>					Prepared: 2021-09-03, Analyzed: 2021-09-04				
Aluminum, total	0.0218	0.0050 mg/L	0.0199		109	80-120			
Antimony, total	0.0207	0.00020 mg/L	0.0200		103	80-120			
Arsenic, total	0.0190	0.00050 mg/L	0.0200		95	80-120			
Barium, total	0.0191	0.0050 mg/L	0.0198		97	80-120			
Boron, total	< 0.0500	0.0500 mg/L	0.0200		110	80-120			
Cadmium, total	0.0197	0.000010 mg/L	0.0199		99	80-120			
Calcium, total	1.89	0.20 mg/L	2.02		94	80-120			
Chromium, total	0.0190	0.00050 mg/L	0.0198		96	80-120			
Copper, total	0.0194	0.00040 mg/L	0.0200		97	80-120			
Iron, total	1.89	0.010 mg/L	2.02		93	80-120			
Lead, total	0.0200	0.00020 mg/L	0.0199		101	80-120			
Magnesium, total	1.99	0.010 mg/L	2.02		99	80-120			
Manganese, total	0.0198	0.00020 mg/L	0.0199		100	80-120			
Potassium, total	1.79	0.10 mg/L	2.02		88	80-120			
Selenium, total	0.0195	0.00050 mg/L	0.0200		97	80-120			
Silver, total	0.0197	0.000050 mg/L	0.0200		99	80-120			
Sodium, total	1.92	0.10 mg/L	2.02		95	80-120			
Strontium, total	0.0176	0.0010 mg/L	0.0200		88	80-120			
Uranium, total	0.0192	0.000020 mg/L	0.0200		96	80-120			
Zinc, total	0.0203	0.0040 mg/L	0.0200		102	80-120			
<b>Reference (B110408-SRM1)</b>					Prepared: 2021-09-03, Analyzed: 2021-09-04				
Aluminum, total	0.300	0.0050 mg/L	0.299		100	70-130			
Antimony, total	0.0532	0.00020 mg/L	0.0517		103	70-130			
Arsenic, total	0.125	0.00050 mg/L	0.119		105	70-130			
Barium, total	0.766	0.0050 mg/L	0.801		96	70-130			
Boron, total	3.93	0.0500 mg/L	4.11		96	70-130			
Cadmium, total	0.0511	0.000010 mg/L	0.0503		102	70-130			
Calcium, total	9.58	0.20 mg/L	10.7		89	70-130			
Chromium, total	0.253	0.00050 mg/L	0.250		101	70-130			
Copper, total	0.504	0.00040 mg/L	0.487		104	70-130			
Iron, total	0.513	0.010 mg/L	0.504		102	70-130			
Lead, total	0.298	0.00020 mg/L	0.278		107	70-130			
Magnesium, total	3.86	0.010 mg/L	3.59		107	70-130			
Manganese, total	0.115	0.00020 mg/L	0.111		103	70-130			
Potassium, total	5.87	0.10 mg/L	5.89		100	70-130			
Selenium, total	0.124	0.00050 mg/L	0.120		103	70-130			
Sodium, total	9.22	0.10 mg/L	8.71		106	70-130			
Strontium, total	0.364	0.0010 mg/L	0.393		93	70-130			
Uranium, total	0.0346	0.000020 mg/L	0.0344		100	70-130			
Zinc, total	2.47	0.0040 mg/L	2.50		99	70-130			
<b>Reference (B110408-SRM2)</b>					Prepared: 2021-09-03, Analyzed: 2021-09-04				
Aluminum, total	0.300	0.0050 mg/L	0.299		100	70-130			
Antimony, total	0.0535	0.00020 mg/L	0.0517		104	70-130			
Arsenic, total	0.124	0.00050 mg/L	0.119		105	70-130			
Barium, total	0.758	0.0050 mg/L	0.801		95	70-130			
Boron, total	4.17	0.0500 mg/L	4.11		101	70-130			



## APPENDIX 2: QUALITY CONTROL RESULTS

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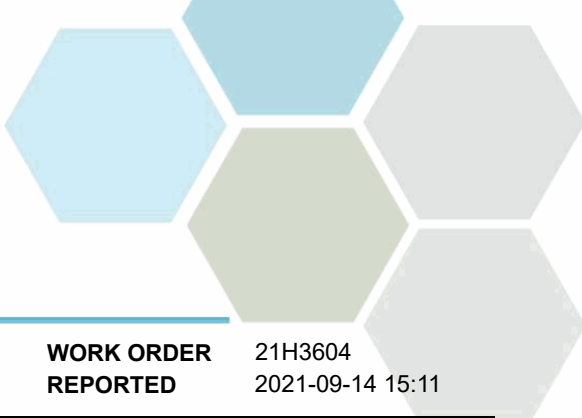
**WORK ORDER REPORTED** 21H3604  
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Total Metals, Batch B110408, Continued</b>									
<b>Reference (B110408-SRM2), Continued</b>					Prepared: 2021-09-03, Analyzed: 2021-09-04				
Cadmium, total	0.0514	0.000010 mg/L	0.0503		102	70-130			
Calcium, total	9.63	0.20 mg/L	10.7		90	70-130			
Chromium, total	0.251	0.00050 mg/L	0.250		100	70-130			
Copper, total	0.501	0.00040 mg/L	0.487		103	70-130			
Iron, total	0.505	0.010 mg/L	0.504		100	70-130			
Lead, total	0.300	0.00020 mg/L	0.278		108	70-130			
Magnesium, total	3.80	0.010 mg/L	3.59		106	70-130			
Manganese, total	0.115	0.00020 mg/L	0.111		103	70-130			
Potassium, total	5.77	0.10 mg/L	5.89		98	70-130			
Selenium, total	0.123	0.00050 mg/L	0.120		103	70-130			
Sodium, total	9.02	0.10 mg/L	8.71		104	70-130			
Strontium, total	0.359	0.0010 mg/L	0.393		91	70-130			
Uranium, total	0.0347	0.000020 mg/L	0.0344		101	70-130			
Zinc, total	2.43	0.0040 mg/L	2.50		97	70-130			

### Volatile Organic Compounds (VOC), Batch B110317

<b>Blank (B110317-BLK1)</b>			Prepared: 2021-09-04, Analyzed: 2021-09-04						
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-Dichloropropene (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	28.0	µg/L	25.0		112	70-130			
Surrogate: 4-Bromofluorobenzene	23.4	µg/L	25.0		94	70-130			

<b>LCS (B110317-BS1)</b>			Prepared: 2021-09-04, Analyzed: 2021-09-04						
Benzene	16.0	0.5 µg/L	20.0		80	70-130			



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Volatile Organic Compounds (VOC), Batch B1I0317, Continued</b>									
<b>LCS (B1I0317-BS1), Continued</b>					Prepared: 2021-09-04, Analyzed: 2021-09-04				
Bromodichloromethane	16.8	1.0 µg/L	20.0		84	70-130			
Bromoform	18.8	1.0 µg/L	20.1		93	70-130			
Carbon tetrachloride	20.0	0.5 µg/L	20.2		99	70-130			
Chlorobenzene	18.2	1.0 µg/L	20.1		90	70-130			
Chloroethane	12.1	2.0 µg/L	20.0		61	60-140			
Chloroform	17.4	1.0 µg/L	20.1		87	70-130			
Dibromochloromethane	18.2	1.0 µg/L	20.2		90	70-130			
1,2-Dibromoethane	18.1	0.3 µg/L	20.0		91	70-130			
Dibromomethane	15.6	1.0 µg/L	20.0		78	70-130			
1,2-Dichlorobenzene	18.6	0.5 µg/L	20.1		93	70-130			
1,3-Dichlorobenzene	17.4	1.0 µg/L	20.1		86	70-130			
1,4-Dichlorobenzene	15.8	1.0 µg/L	20.1		78	70-130			
1,1-Dichloroethane	17.6	1.0 µg/L	20.1		88	70-130			
1,2-Dichloroethane	15.7	1.0 µg/L	20.0		79	70-130			
1,1-Dichloroethylene	13.1	1.0 µg/L	20.0		66	70-130			SPK
cis-1,2-Dichloroethylene	14.9	1.0 µg/L	20.0		74	70-130			
trans-1,2-Dichloroethylene	12.9	1.0 µg/L	20.0		64	70-130			SPK
Dichloromethane	14.0	3.0 µg/L	20.1		70	70-130			
1,2-Dichloropropane	17.3	1.0 µg/L	20.1		86	70-130			
1,3-Dichloropropene (cis + trans)	33.0	1.0 µg/L	40.0		83	70-130			
Ethylbenzene	18.4	1.0 µg/L	20.0		92	70-130			
Methyl tert-butyl ether	14.5	1.0 µg/L	20.0		73	70-130			
Styrene	16.7	1.0 µg/L	20.0		84	70-130			
1,1,2,2-Tetrachloroethane	21.9	0.5 µg/L	20.1		109	70-130			
Tetrachloroethylene	17.3	1.0 µg/L	20.1		86	70-130			
Toluene	21.7	1.0 µg/L	20.0		108	70-130			
1,1,1-Trichloroethane	20.0	1.0 µg/L	20.0		100	70-130			
1,1,2-Trichloroethane	18.7	1.0 µg/L	20.1		93	70-130			
Trichloroethylene	17.2	1.0 µg/L	20.1		85	70-130			
Trichlorofluoromethane	15.8	1.0 µg/L	20.0		79	60-140			
Vinyl chloride	12.7	1.0 µg/L	20.0		64	60-140			
Xylenes (total)	55.7	2.0 µg/L	60.0		93	70-130			
Surrogate: Toluene-d8	28.2	µg/L	25.0		113	70-130			
Surrogate: 4-Bromofluorobenzene	29.3	µg/L	25.0		117	70-130			

**QC Qualifiers:**

- BLK Analyte concentration in the Method Blank is above the Reporting Limit (RL).
- RPD Relative percent difference (RPD) of duplicate analysis are outside of control limits for unknown reason(s).
- S09a The surrogate recovery for this sample is outside of established control limits Suspect syringe error. Sample surrogate recoveries within range, data not affected.
- SPK The recovery of this analyte was outside of established control limits.