



## 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** 9021639

**RECEIVED / TEMP** 2019-02-26 09:05 / 7°C  
**REPORTED** 2019-03-19 09:20

### 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.

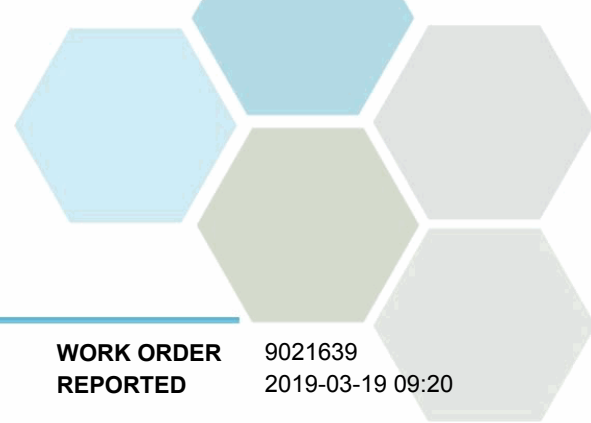
*If you have any questions or concerns, please contact me at [jnobrega@caro.ca](mailto:jnobrega@caro.ca)*

#### Authorized By:

Jessica Nobrega, B.Sc.  
Client Service Manager

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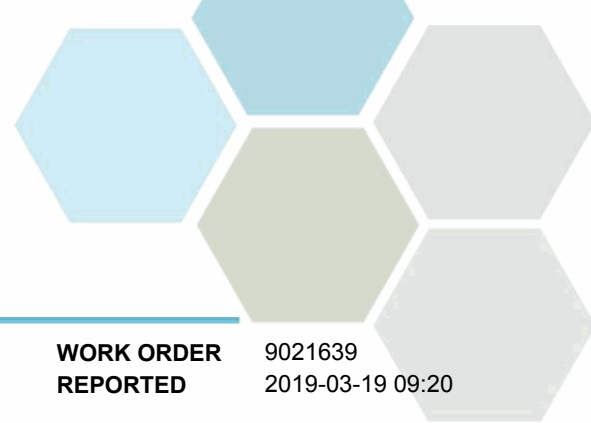


# TEST RESULTS

**REPORTED TO PROJECT** Mountainview Regional Water Services Commission  
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Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
<b>Treated- schedule 4 Code of Practice (9021639-01)   Matrix: Water   Sampled: 2019-02-25</b>					
<b>Acid Herbicides</b>					
2,4,5-T	< 0.10	N/A	0.10 µg/L	2019-03-12	
2,4-D	< 0.10	MAC = 100	0.10 µg/L	2019-03-12	
Dicamba	< 0.10	MAC = 120	0.10 µg/L	2019-03-12	
Dinoseb	< 0.10	N/A	0.10 µg/L	2019-03-12	
MCPA	< 0.20	MAC = 100	0.20 µg/L	2019-03-12	
Picloram	< 0.10	MAC = 190	0.10 µg/L	2019-03-12	
Surrogate: 2,4-DCAA	74		60-114 %	2019-03-12	
<b>Anions</b>					
Bromate	< 0.010	MAC = 0.01	0.010 mg/L	2019-02-28	
Chlorate	< 0.50	MAC = 1	0.50 mg/L	2019-02-28	
Chloride	3.59	AO ≤ 250	0.50 mg/L	2019-02-28	
Chlorite	< 0.50	MAC = 1	0.50 mg/L	2019-02-28	
Fluoride	0.10	MAC = 1.5	0.10 mg/L	2019-02-28	
Nitrate (as N)	0.107	MAC = 10	0.050 mg/L	2019-02-28	
Nitrite (as N)	< 0.050	MAC = 1	0.050 mg/L	2019-02-28	
Sulfate	56.0	AO ≤ 500	1.0 mg/L	2019-02-28	
<b>Calculated Parameters</b>					
Total Trihalomethanes	0.0336	MAC = 0.1	0.00400 mg/L	N/A	
Chloramines	0.150	MAC = 3	0.0200 mg/L	N/A	
Hardness, Total (as CaCO3)	239	None Required	0.500 mg/L	N/A	
Solids, Total Dissolved	266	AO ≤ 500	3.35 mg/L	N/A	
<b>Carbamates</b>					
Aldicarb	< 0.0010	N/A	0.0010 mg/L	2019-03-06	
Bendiocarb	< 0.0010	N/A	0.0010 mg/L	2019-03-06	
Carbaryl	< 0.0010	MAC = 0.09	0.0010 mg/L	2019-03-06	
Carbofuran	< 0.0010	MAC = 0.09	0.0010 mg/L	2019-03-06	
<b>Chlorinated Phenols</b>					
2-Chlorophenol	< 0.10	N/A	0.10 µg/L	2019-03-04	
3 & 4-Chlorophenol	< 0.10	N/A	0.10 µg/L	2019-03-04	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50 µg/L	2019-03-04	
2,3-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2019-03-04	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20 µg/L	2019-03-04	
2,6-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2019-03-04	
3,4-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2019-03-04	
3,5-Dichlorophenol	< 0.20	N/A	0.20 µg/L	2019-03-04	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2019-03-04	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2019-03-04	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2019-03-04	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2019-03-04	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50 µg/L	2019-03-04	

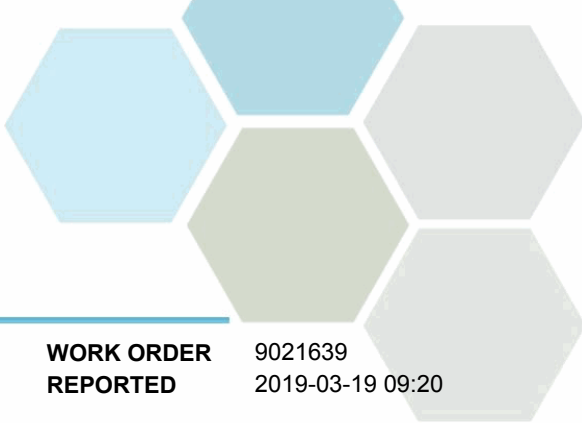


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<b>Chlorinated Phenols, Continued</b>					
3,4,5-Trichlorophenol	< 0.50	N/A	0.50 µg/L	2019-03-04	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50 µg/L	2019-03-04	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50 µg/L	2019-03-04	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50 µg/L	2019-03-04	
Surrogate: 2,4-Dibromophenol	60		60-130 %	2019-03-04	
Surrogate: 2,4,6-Tribromophenol	62		60-130 %	2019-03-04	
<b>General Parameters</b>					
Alkalinity, Total (as CaCO <sub>3</sub> )	190	N/A	2.0 mg/L	2019-02-27	
Bicarbonate (HCO <sub>3</sub> )	231	N/A	2.0 mg/L	2019-02-27	
Carbonate (CO <sub>3</sub> )	< 2.0	N/A	2.0 mg/L	2019-02-27	
Hydroxide (OH)	< 2.0	N/A	2.0 mg/L	2019-02-27	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2019-03-01	
Carbon, Total Organic	2.07	N/A	0.50 mg/L	2019-03-01	
Chlorine, Total	1.26	None Required	0.02 mg/L	2019-02-26	HT2
Chlorine, Free	1.11	N/A	0.02 mg/L	2019-02-26	HT2
Colour, True	< 5.0	AO ≤ 15	5.0 CU	2019-02-27	
Conductivity (EC)	445	N/A	2.0 µS/cm	2019-02-26	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2019-02-28	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20 mg/L	2019-03-02	
pH	7.50	7.0-10.5	0.10 pH units	2019-02-27	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020 mg/L	2019-02-26	
Turbidity	0.14	OG < 1	0.10 NTU	2019-02-26	
<b>Haloacetic Acids</b>					
Monochloroacetic Acid	< 0.0020	N/A	0.0020 mg/L	2019-03-04	
Monobromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2019-03-04	
Dichloroacetic Acid	0.0110	N/A	0.0020 mg/L	2019-03-04	
Trichloroacetic Acid	0.0143	N/A	0.0020 mg/L	2019-03-04	
Dibromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2019-03-04	
Total Haloacetic Acids (HAA5)	0.0253	MAC = 0.08	0.00200 mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	92		70-130 %	2019-03-04	
<b>Microbiological Parameters</b>					
Microcystin, total	< 0.14	MAC = 1.5	0.14 µg/L	2019-03-12	
<b>Miscellaneous Herbicides</b>					
Diquat	< 0.0100	MAC = 0.07	0.0100 mg/L	2019-02-27	
Paraquat	< 0.0050	MAC = 0.007	0.0050 mg/L	2019-02-27	
Glyphosate	< 0.050	MAC = 0.28	0.050 mg/L	2019-03-05	
<b>Miscellaneous Organics</b>					
N-Nitrosodimethylamine	< 0.0010	MAC = 0.04	0.0010 µg/L	2019-02-27	



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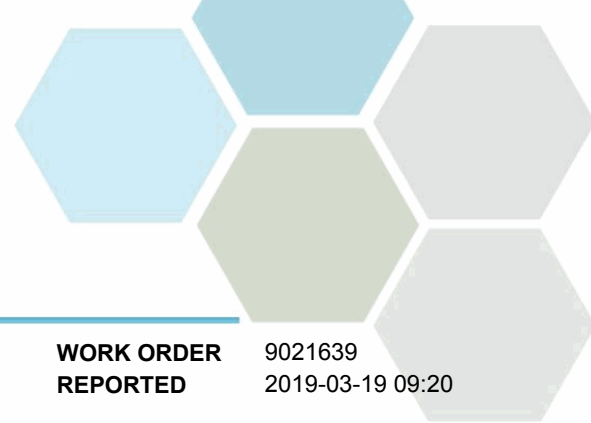
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**Treated- schedule 4 Code of Practice (9021639-01) | Matrix: Water | Sampled: 2019-02-25, Continued**

*Pesticides, Herbicides, and Fungicides*

Alachlor	< 0.100	N/A	0.100	µg/L	2019-03-01	
Aldrin	< 0.006	N/A	0.006	µg/L	2019-03-01	
Atrazine and metabolites	< 0.100	MAC = 5	0.100	µg/L	2019-03-01	
Azinphos-methyl	< 0.200	MAC = 20	0.200	µg/L	2019-03-01	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2019-03-01	
beta-BHC	< 0.050	N/A	0.050	µg/L	2019-03-01	
delta-BHC	< 0.050	N/A	0.050	µg/L	2019-03-01	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2019-03-01	
Bromacil	< 0.100	N/A	0.100	µg/L	2019-03-01	
Bromoxynil	< 0.200	MAC = 5	0.200	µg/L	2019-03-01	
Butachlor	< 0.020	N/A	0.020	µg/L	2019-03-01	
Captan	< 0.100	N/A	0.100	µg/L	2019-03-01	
Chlordane (cis + trans)	< 0.050	N/A	0.050	µg/L	2019-03-01	
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2019-03-01	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2019-03-01	
Cyanazine	< 0.100	N/A	0.100	µg/L	2019-03-01	
DDT, Total	< 0.010	N/A	0.010	µg/L	2019-03-01	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2019-03-01	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2019-03-01	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2019-03-01	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2019-03-01	
Dieldrin	< 0.010	N/A	0.010	µg/L	2019-03-01	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2019-03-01	
Disulfoton	< 0.100	N/A	0.100	µg/L	2019-03-01	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2019-03-01	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2019-03-01	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2019-03-01	
Endrin	< 0.020	N/A	0.020	µg/L	2019-03-01	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2019-03-01	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2019-03-01	
Fenchlorphos (Ronnel)	< 0.100	N/A	0.100	µg/L	2019-03-01	
Heptachlor	< 0.010	N/A	0.010	µg/L	2019-03-01	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2019-03-01	
Linuron	< 0.050	N/A	0.050	µg/L	2019-03-01	
Malathion	< 0.100	MAC = 190	0.100	µg/L	2019-03-01	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2019-03-01	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2019-03-01	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2019-03-01	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2019-03-01	
Parathion	< 0.100	N/A	0.100	µg/L	2019-03-01	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2019-03-01	
Permethrin	< 0.010	N/A	0.010	µg/L	2019-03-01	



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**Pesticides, Herbicides, and Fungicides, Continued**

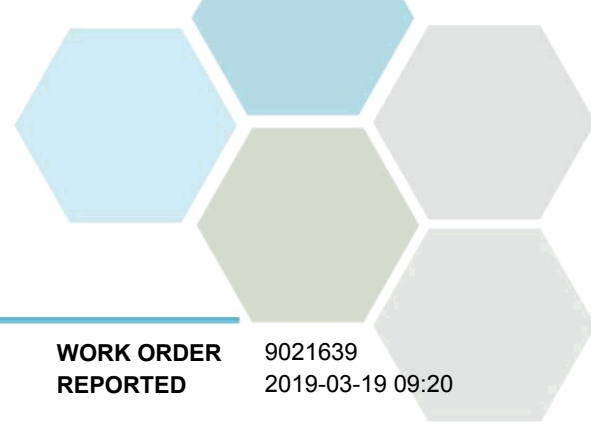
Phorate	< 0.100	MAC = 2	0.100 µg/L	2019-03-01	
Prometon	< 0.300	N/A	0.300 µg/L	2019-03-01	
Prometryne	< 0.100	N/A	0.100 µg/L	2019-03-01	
Simazine	< 0.200	MAC = 10	0.200 µg/L	2019-03-01	
Sulfotep	< 0.100	N/A	0.100 µg/L	2019-03-01	
Tebuthiuron	< 0.200	N/A	0.200 µg/L	2019-03-01	
Temephos (Abate)	< 0.500	N/A	0.500 µg/L	2019-03-01	
Terbufos	< 0.100	MAC = 1	0.100 µg/L	2019-03-01	
Triallate	< 0.100	N/A	0.100 µg/L	2019-03-01	
Trifluralin	< 0.200	MAC = 45	0.200 µg/L	2019-03-01	
Surrogate: Tributyl Phosphate	101		50-140 %	2019-03-01	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	95		50-140 %	2019-03-01	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.050	N/A	0.050 µg/L	2019-03-04	
Acenaphthylene	< 0.200	N/A	0.200 µg/L	2019-03-04	
Acridine	< 0.050	N/A	0.050 µg/L	2019-03-04	
Anthracene	< 0.010	N/A	0.010 µg/L	2019-03-04	
Benz(a)anthracene	< 0.010	N/A	0.010 µg/L	2019-03-04	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010 µg/L	2019-03-04	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050 µg/L	2019-03-04	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050 µg/L	2019-03-04	
Benzo(k)fluoranthene	< 0.050	N/A	0.050 µg/L	2019-03-04	
2-Chloronaphthalene	<b>0.131</b>	N/A	0.100 µg/L	2019-03-04	
Chrysene	< 0.050	N/A	0.050 µg/L	2019-03-04	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010 µg/L	2019-03-04	
Fluoranthene	< 0.030	N/A	0.030 µg/L	2019-03-04	
Fluorene	< 0.050	N/A	0.050 µg/L	2019-03-04	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050 µg/L	2019-03-04	
1-Methylnaphthalene	< 0.100	N/A	0.100 µg/L	2019-03-04	
2-Methylnaphthalene	< 0.100	N/A	0.100 µg/L	2019-03-04	
Naphthalene	< 0.200	N/A	0.200 µg/L	2019-03-04	
Phenanthrene	< 0.100	N/A	0.100 µg/L	2019-03-04	
Pyrene	< 0.020	N/A	0.020 µg/L	2019-03-04	
Quinoline	< 0.050	N/A	0.050 µg/L	2019-03-04	
Surrogate: Acridine-d9	69		50-140 %	2019-03-04	
Surrogate: Naphthalene-d8	87		50-140 %	2019-03-04	
Surrogate: Perylene-d12	119		50-140 %	2019-03-04	

**Total Metals**

Aluminum, total	<b>0.0125</b>	OG < 0.1	0.0050 mg/L	2019-02-28	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2019-02-28	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050 mg/L	2019-02-28	



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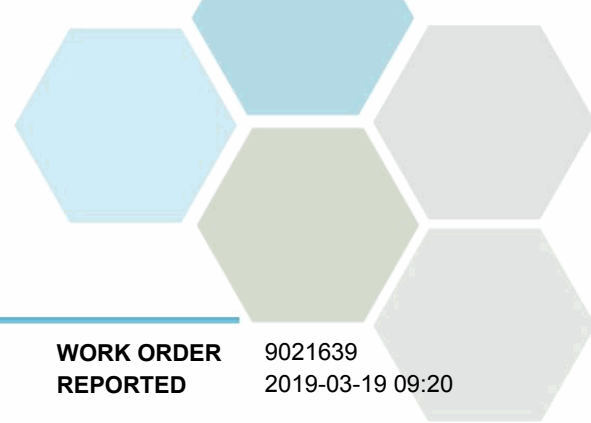
**Total Metals, Continued**

Barium, total	0.125	MAC = 1	0.0050 mg/L	2019-02-28	
Beryllium, total	< 0.00010	N/A	0.00010 mg/L	2019-02-28	
Bismuth, total	< 0.00010	N/A	0.00010 mg/L	2019-02-28	
Boron, total	0.0121	MAC = 5	0.0050 mg/L	2019-02-28	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010 mg/L	2019-02-28	
Calcium, total	63.2	None Required	0.20 mg/L	2019-02-28	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2019-02-28	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2019-02-28	
Copper, total	0.00057	AO ≤ 1	0.00040 mg/L	2019-02-28	
Iron, total	< 0.010	AO ≤ 0.3	0.010 mg/L	2019-02-28	
Lead, total	< 0.00020	MAC = 0.01	0.00020 mg/L	2019-02-28	
Lithium, total	0.00465	N/A	0.00010 mg/L	2019-02-28	
Magnesium, total	19.6	None Required	0.010 mg/L	2019-02-28	
Manganese, total	0.00132	AO ≤ 0.05	0.00020 mg/L	2019-02-28	
Mercury, total	< 0.000010	MAC = 0.001	0.000010 mg/L	2019-02-28	
Molybdenum, total	0.00098	N/A	0.00010 mg/L	2019-02-28	
Nickel, total	< 0.00040	N/A	0.00040 mg/L	2019-02-28	
Phosphorus, total	< 0.050	N/A	0.050 mg/L	2019-02-28	
Potassium, total	0.96	N/A	0.10 mg/L	2019-02-28	
Selenium, total	0.00051	MAC = 0.05	0.00050 mg/L	2019-02-28	
Silicon, total	2.4	N/A	1.0 mg/L	2019-02-28	
Silver, total	< 0.000050	None Required	0.000050 mg/L	2019-02-28	
Sodium, total	6.19	AO ≤ 200	0.10 mg/L	2019-02-28	
Strontium, total	0.391	N/A	0.0010 mg/L	2019-02-28	
Sulfur, total	19.3	N/A	3.0 mg/L	2019-02-28	
Tellurium, total	< 0.00050	N/A	0.00050 mg/L	2019-02-28	
Thallium, total	< 0.000020	N/A	0.000020 mg/L	2019-02-28	
Thorium, total	< 0.00010	N/A	0.00010 mg/L	2019-02-28	
Tin, total	< 0.00020	N/A	0.00020 mg/L	2019-02-28	
Titanium, total	< 0.0050	N/A	0.0050 mg/L	2019-02-28	
Tungsten, total	< 0.0010	N/A	0.0010 mg/L	2019-02-28	
Uranium, total	0.000339	MAC = 0.02	0.000020 mg/L	2019-02-28	
Vanadium, total	< 0.0010	N/A	0.0010 mg/L	2019-02-28	
Zinc, total	< 0.0040	AO ≤ 5	0.0040 mg/L	2019-02-28	
Zirconium, total	< 0.00010	N/A	0.00010 mg/L	2019-02-28	

**Volatile Organic Compounds (VOC)**

S03

Benzene	< 0.5	MAC = 5	0.5 µg/L	2019-03-03	
Bromodichloromethane	0.0019	N/A	0.0010 mg/L	2019-03-02	
Bromodichloromethane	4.8	N/A	1.0 µg/L	2019-03-03	
Bromoform	< 0.0010	N/A	0.0010 mg/L	2019-03-02	
Bromoform	< 7.0	N/A	1.0 µg/L	2019-03-03	RA1
Carbon tetrachloride	< 0.5	MAC = 2	0.5 µg/L	2019-03-03	



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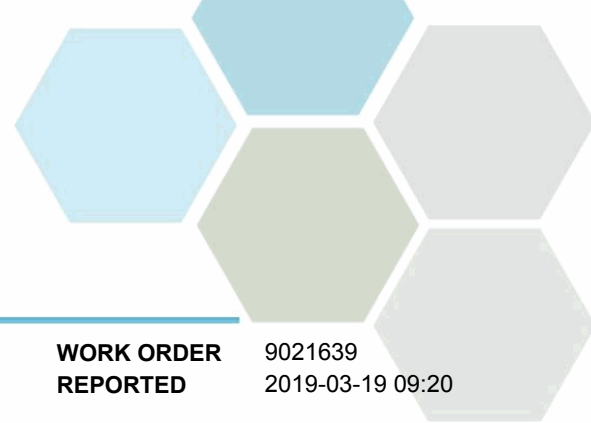
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<i>Volatile Organic Compounds (VOC), Continued</i>					S03
Chlorobenzene	< 1.0	AO ≤ 30	1.0 µg/L	2019-03-03	
Chloroethane	< 2.0	N/A	2.0 µg/L	2019-03-03	
Chloroform	<b>0.0318</b>	N/A	0.0010 mg/L	2019-03-02	
Chloroform	<b>30.8</b>	N/A	1.0 µg/L	2019-03-03	
Dibromochloromethane	< 0.0010	N/A	0.0010 mg/L	2019-03-02	
Dibromochloromethane	<b>2.8</b>	N/A	1.0 µg/L	2019-03-03	
1,2-Dibromoethane	< 0.3	N/A	0.3 µg/L	2019-03-03	
Dibromomethane	< 1.0	N/A	1.0 µg/L	2019-03-03	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5 µg/L	2019-03-03	
1,3-Dichlorobenzene	< 1.0	N/A	1.0 µg/L	2019-03-03	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0 µg/L	2019-03-03	
1,1-Dichloroethane	< 1.0	N/A	1.0 µg/L	2019-03-03	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0 µg/L	2019-03-03	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0 µg/L	2019-03-03	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0 µg/L	2019-03-03	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0 µg/L	2019-03-03	
Dichloromethane	< 3.0	MAC = 50	3.0 µg/L	2019-03-03	
1,2-Dichloropropane	< 1.0	N/A	1.0 µg/L	2019-03-03	
1,3-Dichloropropane (cis + trans)	< 1.0	N/A	1.0 µg/L	2019-03-03	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0 µg/L	2019-03-03	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0 µg/L	2019-03-03	
Styrene	< 1.0	N/A	1.0 µg/L	2019-03-03	
1,1,2,2-Tetrachloroethane	< 0.5	N/A	0.5 µg/L	2019-03-03	
Tetrachloroethylene	< 1.0	MAC = 10	1.0 µg/L	2019-03-03	
Toluene	< 1.0	AO ≤ 24	1.0 µg/L	2019-03-03	
1,1,1-Trichloroethane	< 1.0	N/A	1.0 µg/L	2019-03-03	
1,1,2-Trichloroethane	< 1.0	N/A	1.0 µg/L	2019-03-03	
Trichloroethylene	< 1.0	MAC = 5	1.0 µg/L	2019-03-03	
Trichlorofluoromethane	< 1.0	N/A	1.0 µg/L	2019-03-03	
Vinyl chloride	< 1.0	MAC = 2	1.0 µg/L	2019-03-03	
Xylenes (total)	< 2.0	AO ≤ 20	2.0 µg/L	2019-03-03	
Surrogate: Toluene-d8	94		70-130 %	2019-03-02	
Surrogate: 4-Bromofluorobenzene	103		70-130 %	2019-03-02	
Surrogate: 1,4-Dichlorobenzene-d4	93		70-130 %	2019-03-03	

**Sample Qualifiers:**

- 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.
- S03 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.



## APPENDIX 1: SUPPORTING INFORMATION

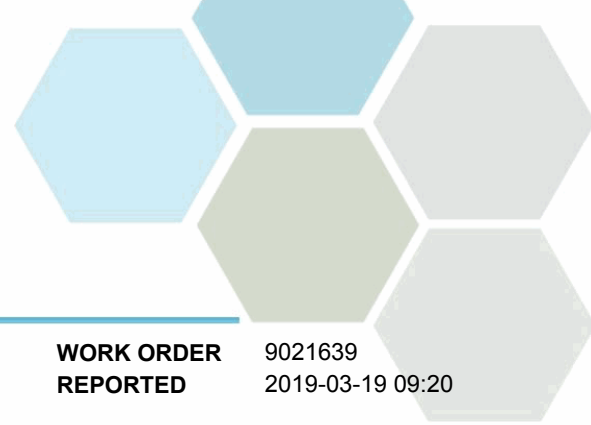
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Schedule 4 - Code of Practice

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

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 <sub>2</sub> SO <sub>4</sub>	Edmonton
Ammonia, Total in Water	SM 4500-NH <sub>3</sub> 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 <sub>2</sub> 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
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
Mercury, total in Water	EPA 245.7*	BrCl <sub>2</sub> Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Nitrilotriacetic 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 <sub>2</sub> D* (2011)	Colorimetry (Methylene Blue)	Edmonton
Total Metals in Water	EPA 200.2* / EPA 6020B	HNO <sub>3</sub> +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectrometry (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*





## APPENDIX 1: SUPPORTING INFORMATION

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

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

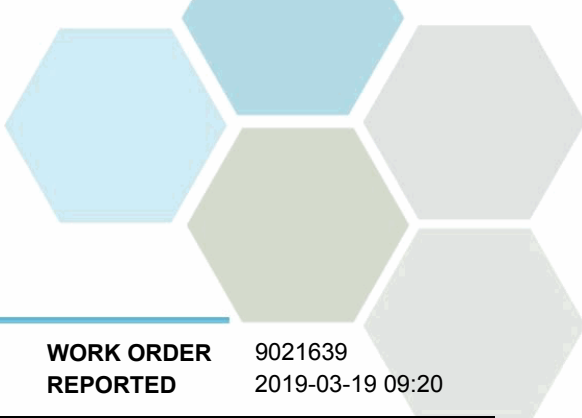
### Glossary of Terms:

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 unless otherwise 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: [jnobra@caro.ca](mailto:jnobra@caro.ca)



## APPENDIX 2: QUALITY CONTROL RESULTS

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Schedule 4 - Code of Practice

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

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:

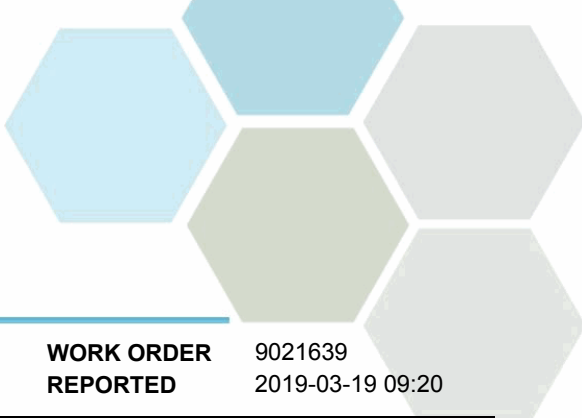
- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected 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
<b>Acid Herbicides, Batch B9C0150</b>									
<b>Blank (B9C0150-BLK1)</b>			Prepared: 2019-03-04, Analyzed: 2019-03-12						
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	0.810	µg/L	1.01		80	60-114			
<b>LCS (B9C0150-BS1)</b>			Prepared: 2019-03-04, Analyzed: 2019-03-12						
2,4,5-T	0.72	0.10 µg/L	1.03		70	59-120			
2,4-D	0.75	0.10 µg/L	1.03		73	58-112			
Dicamba	0.62	0.10 µg/L	1.02		61	50-109			
Dinoseb	0.69	0.10 µg/L	1.09		63	50-114			
MCPA	61.7	2.00 µg/L	100		62	50-101			
Picloram	0.69	0.10 µg/L	1.05		66	53-119			
Surrogate: 2,4-DCAA	0.796	µg/L	1.01		79	60-114			
<b>LCS Dup (B9C0150-BSD1)</b>			Prepared: 2019-03-04, Analyzed: 2019-03-12						
2,4,5-T	0.74	0.10 µg/L	1.03		72	59-120	2	30	
2,4-D	0.77	0.10 µg/L	1.03		75	58-112	3	30	
Dicamba	0.62	0.10 µg/L	1.02		60	50-109	< 1	30	
Dinoseb	0.76	0.10 µg/L	1.09		70	50-114	10	30	
MCPA	60.5	2.00 µg/L	100		61	50-101	2	30	
Picloram	0.90	0.10 µg/L	1.05		85	53-119	26	30	
Surrogate: 2,4-DCAA	0.795	µg/L	1.01		79	60-114			

### Anions, Batch B9B1822

<b>Blank (B9B1822-BLK1)</b>			Prepared: 2019-02-28, Analyzed: 2019-02-28						
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

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

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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**Anions, Batch B9B1822, Continued**

**Blank (B9B1822-BLK1), Continued**

Prepared: 2019-02-28, Analyzed: 2019-02-28

Sulfate	< 1.0	1.0 mg/L							
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**Blank (B9B1822-BLK2)**

Prepared: 2019-02-28, Analyzed: 2019-02-28

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							
Sulfate	< 1.0	1.0 mg/L							

**LCS (B9B1822-BS1)**

Prepared: 2019-02-28, Analyzed: 2019-02-28

Chloride	9.62	0.50 mg/L	10.0		96	94-106			
Fluoride	0.94	0.10 mg/L	1.00		94	85-115			
Nitrate (as N)	1.03	0.050 mg/L	1.00		103	92-108			
Nitrite (as N)	0.470	0.050 mg/L	0.500		94	85-110			
Sulfate	50.3	1.0 mg/L	50.0		101	93-108			

**LCS (B9B1822-BS2)**

Prepared: 2019-02-28, Analyzed: 2019-02-28

Chlorate	7.66	0.50 mg/L	7.50		102	89-112			
Chlorite	2.96	0.50 mg/L	3.00		99	80-120			

**LCS (B9B1822-BS3)**

Prepared: 2019-02-28, Analyzed: 2019-02-28

Chloride	10.1	0.50 mg/L	10.0		101	94-106			
Fluoride	1.03	0.10 mg/L	1.00		103	85-115			
Nitrate (as N)	1.00	0.050 mg/L	1.00		100	92-108			
Nitrite (as N)	0.498	0.050 mg/L	0.500		100	85-110			
Sulfate	50.9	1.0 mg/L	50.0		102	93-108			

**LCS (B9B1822-BS4)**

Prepared: 2019-02-28, Analyzed: 2019-02-28

Chlorate	7.95	0.50 mg/L	7.50		106	89-112			
Chlorite	3.12	0.50 mg/L	3.00		104	80-120			

**Duplicate (B9B1822-DUP1)**

Source: 9021639-01

Prepared: 2019-02-28, Analyzed: 2019-02-28

Chlorate	< 0.50	0.50 mg/L	< 0.50					9	
Chloride	3.69	0.50 mg/L	3.59				3	5	
Chlorite	< 0.50	0.50 mg/L	< 0.50					20	
Fluoride	0.10	0.10 mg/L	0.10					20	
Nitrate (as N)	0.105	0.050 mg/L	0.107					12	
Nitrite (as N)	< 0.050	0.050 mg/L	< 0.050					18	
Sulfate	56.2	1.0 mg/L	56.0				< 1	4	

**Carbamates, Batch B9C0391**

**Blank (B9C0391-BLK1)**

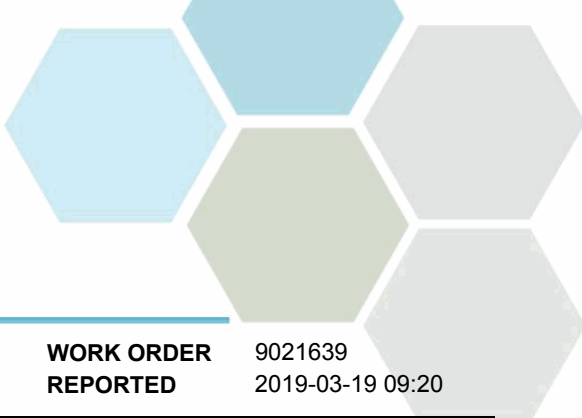
Prepared: 2019-03-06, Analyzed: 2019-03-06

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 (B9C0391-BS1)**

Prepared: 2019-03-06, Analyzed: 2019-03-06

Aldicarb	0.0220	0.0010 mg/L	0.0200		110	80-120			
Bendiocarb	0.0208	0.0010 mg/L	0.0200		104	80-120			
Carbaryl	0.0195	0.0010 mg/L	0.0200		98	80-120			
Carbofuran	0.0215	0.0010 mg/L	0.0200		108	80-120			

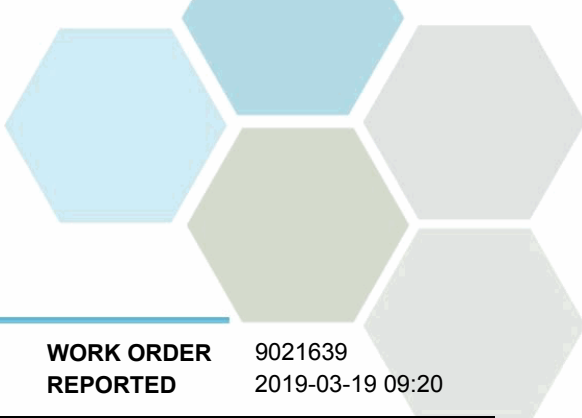


## APPENDIX 2: QUALITY CONTROL RESULTS

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Schedule 4 - Code of Practice

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Carbamates, Batch B9C0391, Continued</b>									
<b>LCS Dup (B9C0391-BSD1)</b>			Prepared: 2019-03-06, Analyzed: 2019-03-06						
Aldicarb	0.0224	0.0010 mg/L	0.0200		112	80-120	2	20	
Bendiocarb	0.0212	0.0010 mg/L	0.0200		106	80-120	2	20	
Carbaryl	0.0194	0.0010 mg/L	0.0200		97	80-120	< 1	20	
Carbofuran	0.0213	0.0010 mg/L	0.0200		106	80-120	1	20	
<b>Matrix Spike (B9C0391-MS1)</b>			Source: 9021639-01		Prepared: 2019-03-06, Analyzed: 2019-03-06				
Aldicarb	0.0200	0.0010 mg/L	0.0200	< 0.0010	100	70-130			
Bendiocarb	0.0186	0.0010 mg/L	0.0200	< 0.0010	93	70-130			
Carbaryl	0.0173	0.0010 mg/L	0.0200	< 0.0010	87	70-130			
Carbofuran	0.0183	0.0010 mg/L	0.0200	< 0.0010	91	70-130			
<b>Chlorinated Phenols, Batch B9C0078</b>									
<b>Blank (B9C0078-BLK1)</b>			Prepared: 2019-03-01, Analyzed: 2019-03-04						
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	1.15	µg/L	2.01		57	60-130			S09
Surrogate: 2,4,6-Tribromophenol	1.18	µg/L	2.00		59	60-130			S09
<b>LCS (B9C0078-BS1)</b>			Prepared: 2019-03-01, Analyzed: 2019-03-04						
2-Chlorophenol	7.85	0.10 µg/L	10.0		78	60-108			
3 & 4-Chlorophenol	14.3	0.10 µg/L	19.8		73	60-120			
4-Chloro-3-Methylphenol	8.09	0.20 µg/L	10.0		81	60-140			
2,3-Dichlorophenol	8.37	0.20 µg/L	10.1		83	60-111			
2,4 & 2,5-Dichlorophenol	17.0	0.20 µg/L	20.2		84	60-116			
2,6-Dichlorophenol	8.50	0.20 µg/L	10.0		85	60-112			
3,4-Dichlorophenol	7.79	0.20 µg/L	10.0		78	60-120			
3,5-Dichlorophenol	7.42	0.20 µg/L	10.2		73	60-121			
2,3,4-Trichlorophenol	7.98	0.50 µg/L	10.0		79	60-122			
2,3,5-Trichlorophenol	8.45	0.50 µg/L	10.0		84	60-126			
2,3,6-Trichlorophenol	9.25	0.50 µg/L	10.0		92	60-130			
2,4,5-Trichlorophenol	8.64	0.50 µg/L	10.0		86	60-118			
2,4,6-Trichlorophenol	8.53	0.50 µg/L	9.95		86	60-120			
3,4,5-Trichlorophenol	8.79	0.50 µg/L	10.0		88	60-129			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	16.0	0.50 µg/L	19.9		81	60-127			
2,3,4,6-Tetrachlorophenol	8.98	0.50 µg/L	10.0		90	60-127			
Pentachlorophenol	10.2	0.50 µg/L	9.95		102	60-130			
Surrogate: 2,4-Dibromophenol	1.62	µg/L	2.01		80	60-130			
Surrogate: 2,4,6-Tribromophenol	1.55	µg/L	2.00		77	60-130			



## APPENDIX 2: QUALITY CONTROL RESULTS

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Schedule 4 - Code of Practice

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Chlorinated Phenols, Batch B9C0078, Continued</b>									
<b>LCS Dup (B9C0078-BS1)</b>					Prepared: 2019-03-01, Analyzed: 2019-03-04				
2-Chlorophenol	7.87	0.10 µg/L	10.0		78	60-108	< 1	32	
3 & 4-Chlorophenol	14.5	0.10 µg/L	19.8		73	60-120	1	21	
4-Chloro-3-Methylphenol	8.21	0.20 µg/L	10.0		82	60-140	1	30	
2,3-Dichlorophenol	8.36	0.20 µg/L	10.1		83	60-111	< 1	27	
2,4 & 2,5-Dichlorophenol	17.4	0.20 µg/L	20.2		86	60-116	2	22	
2,6-Dichlorophenol	8.71	0.20 µg/L	10.0		87	60-112	2	27	
3,4-Dichlorophenol	7.97	0.20 µg/L	10.0		80	60-120	2	22	
3,5-Dichlorophenol	8.78	0.20 µg/L	10.2		86	60-121	17	23	
2,3,4-Trichlorophenol	8.04	0.50 µg/L	10.0		80	60-122	< 1	26	
2,3,5-Trichlorophenol	8.41	0.50 µg/L	10.0		84	60-126	< 1	24	
2,3,6-Trichlorophenol	9.54	0.50 µg/L	10.0		95	60-130	3	26	
2,4,5-Trichlorophenol	8.73	0.50 µg/L	10.0		87	60-118	< 1	22	
2,4,6-Trichlorophenol	8.53	0.50 µg/L	9.95		86	60-120	< 1	26	
3,4,5-Trichlorophenol	8.79	0.50 µg/L	10.0		88	60-129	< 1	19	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	16.7	0.50 µg/L	19.9		84	60-127	4	26	
2,3,4,6-Tetrachlorophenol	9.68	0.50 µg/L	10.0		97	60-127	7	23	
Pentachlorophenol	10.2	0.50 µg/L	9.95		103	60-130	< 1	17	
Surrogate: 2,4-Dibromophenol	1.62	µg/L	2.01		80	60-130			
Surrogate: 2,4,6-Tribromophenol	1.48	µg/L	2.00		74	60-130			

### General Parameters, Batch B9B1659

<b>Blank (B9B1659-BLK1)</b>					Prepared: 2019-02-26, Analyzed: 2019-02-26				
Conductivity (EC)	< 2.0	2.0 µS/cm							
<b>LCS (B9B1659-BS1)</b>					Prepared: 2019-02-26, Analyzed: 2019-02-26				
Conductivity (EC)	1000	2.0 µS/cm	1000		100	95-105			
<b>Duplicate (B9B1659-DUP1)</b>					Source: 9021639-01 Prepared: 2019-02-26, Analyzed: 2019-02-26				
Conductivity (EC)	446	2.0 µS/cm		445			< 1	3	

### General Parameters, Batch B9B1666

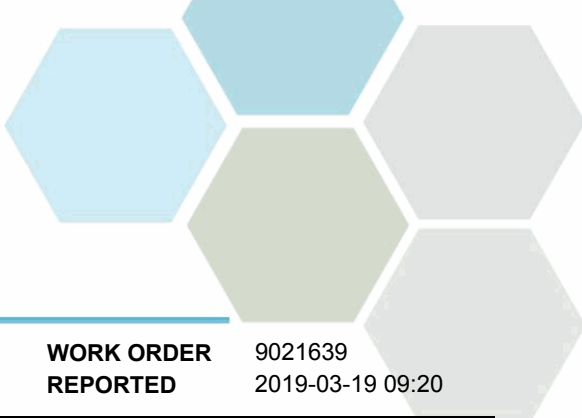
<b>Blank (B9B1666-BLK1)</b>					Prepared: 2019-02-26, Analyzed: 2019-02-26				
Sulfide, Total	< 0.020	0.020 mg/L							
<b>LCS (B9B1666-BS1)</b>					Prepared: 2019-02-26, Analyzed: 2019-02-26				
Sulfide, Total	0.482	0.020 mg/L	0.500		96	82-116			

### General Parameters, Batch B9B1693

<b>Blank (B9B1693-BLK1)</b>					Prepared: 2019-02-26, Analyzed: 2019-02-26				
Turbidity	< 0.10	0.10 NTU							
<b>LCS (B9B1693-BS1)</b>					Prepared: 2019-02-26, Analyzed: 2019-02-26				
Turbidity	40.2	0.10 NTU	40.0		100	90-110			

### General Parameters, Batch B9B1694

<b>Blank (B9B1694-BLK1)</b>					Prepared: 2019-02-26, Analyzed: 2019-02-26				
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	< 0.02	0.02 mg/L							



## APPENDIX 2: QUALITY CONTROL RESULTS

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

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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### General Parameters, Batch B9B1694, Continued

Duplicate (B9B1694-DUP1)		Source: 9021639-01		Prepared: 2019-02-26, Analyzed: 2019-02-26					
Chlorine, Total	1.25	0.02 mg/L		1.26			< 1	10	
Chlorine, Free	1.14	0.02 mg/L		1.11			3	20	
Reference (B9B1694-SRM1)				Prepared: 2019-02-26, Analyzed: 2019-02-26					
Chlorine, Total	1.59	0.02 mg/L		1.59	100	91.2-108.8			
Chlorine, Free	1.59	0.02 mg/L		1.59	100	91.2-108.8			

### General Parameters, Batch B9B1728

Blank (B9B1728-BLK1)				Prepared: 2019-03-01, Analyzed: 2019-03-01					
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B9B1728-BLK2)				Prepared: 2019-03-01, Analyzed: 2019-03-01					
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B9B1728-BLK3)				Prepared: 2019-03-01, Analyzed: 2019-03-01					
Carbon, Total Organic	< 0.50	0.50 mg/L							
LCS (B9B1728-BS1)				Prepared: 2019-03-01, Analyzed: 2019-03-01					
Carbon, Total Organic	9.76	0.50 mg/L		10.0	98	78-116			
LCS (B9B1728-BS2)				Prepared: 2019-03-01, Analyzed: 2019-03-01					
Carbon, Total Organic	10.0	0.50 mg/L		10.0	100	78-116			
LCS (B9B1728-BS3)				Prepared: 2019-03-01, Analyzed: 2019-03-01					
Carbon, Total Organic	9.29	0.50 mg/L		10.0	93	78-116			

### General Parameters, Batch B9B1735

Blank (B9B1735-BLK1)				Prepared: 2019-02-27, Analyzed: 2019-02-27					
Alkalinity, Total (as CaCO <sub>3</sub> )	< 2.0	2.0 mg/L							
Bicarbonate (HCO <sub>3</sub> )	< 2.0	2.0 mg/L							
Carbonate (CO <sub>3</sub> )	< 2.0	2.0 mg/L							
Hydroxide (OH)	< 2.0	2.0 mg/L							
LCS (B9B1735-BS1)				Prepared: 2019-02-27, Analyzed: 2019-02-27					
Alkalinity, Total (as CaCO <sub>3</sub> )	253	2.0 mg/L		250	101	94-108			

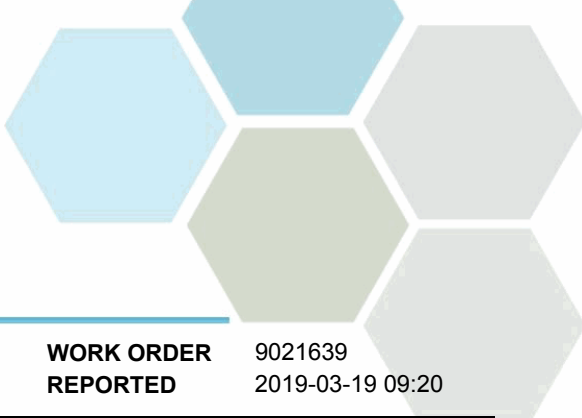
### General Parameters, Batch B9B1737

Reference (B9B1737-SRM1)				Prepared: 2019-02-27, Analyzed: 2019-02-27					
pH	7.02	0.10 pH units		7.00	100	98-102			

### General Parameters, Batch B9B1783

Blank (B9B1783-BLK1)				Prepared: 2019-02-27, Analyzed: 2019-02-27					
Colour, True	< 5.0	5.0 CU							
LCS (B9B1783-BS1)				Prepared: 2019-02-27, Analyzed: 2019-02-27					
Colour, True	19	5.0 CU		20.0	95	90-109			

### General Parameters, Batch B9B1833

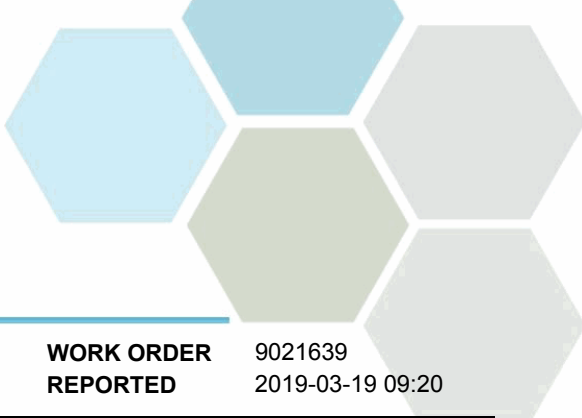


## APPENDIX 2: QUALITY CONTROL RESULTS

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

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>General Parameters, Batch B9B1833, Continued</b>									
<b>Blank (B9B1833-BLK1)</b>			Prepared: 2019-02-28, Analyzed: 2019-02-28						
Cyanide, Total	< 0.0020	0.0020 mg/L							
<b>LCS (B9B1833-BS1)</b>			Prepared: 2019-02-28, Analyzed: 2019-02-28						
Cyanide, Total	0.0198	0.0020 mg/L	0.0200		99	82-120			
<b>LCS Dup (B9B1833-BSD1)</b>			Prepared: 2019-02-28, Analyzed: 2019-02-28						
Cyanide, Total	0.0202	0.0020 mg/L	0.0200		101	82-120	2	10	
<b>General Parameters, Batch B9C0046</b>									
<b>Blank (B9C0046-BLK1)</b>			Prepared: 2019-03-01, Analyzed: 2019-03-01						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
<b>LCS (B9C0046-BS1)</b>			Prepared: 2019-03-01, Analyzed: 2019-03-01						
Ammonia, Total (as N)	0.208	0.050 mg/L	0.200		104	94-113			
<b>General Parameters, Batch B9C0103</b>									
<b>Blank (B9C0103-BLK1)</b>			Prepared: 2019-03-02, Analyzed: 2019-03-02						
Nitritotriacetic Acid	< 0.20	0.20 mg/L							
<b>LCS (B9C0103-BS1)</b>			Prepared: 2019-03-02, Analyzed: 2019-03-02						
Nitritotriacetic Acid	0.95	0.20 mg/L	1.00		95	80-120			
<b>Duplicate (B9C0103-DUP1)</b>			<b>Source: 9021639-01</b>		Prepared: 2019-03-02, Analyzed: 2019-03-02				
Nitritotriacetic Acid	< 0.20	0.20 mg/L		< 0.20				20	
<b>Matrix Spike (B9C0103-MS1)</b>			<b>Source: 9021639-01</b>		Prepared: 2019-03-02, Analyzed: 2019-03-02				
Nitritotriacetic Acid	1.94	0.20 mg/L	2.04	< 0.20	95	70-130			
<b>Haloacetic Acids, Batch B9C0177</b>									
<b>Blank (B9C0177-BLK1)</b>			Prepared: 2019-03-04, Analyzed: 2019-03-04						
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	0.0114	mg/L	0.0116		99	70-130			
<b>LCS (B9C0177-BS1)</b>			Prepared: 2019-03-04, Analyzed: 2019-03-04						
Monochloroacetic Acid	0.0543	0.0020 mg/L	0.0558		97	70-130			
Monobromoacetic Acid	0.0353	0.0020 mg/L	0.0368		96	70-130			
Dichloroacetic Acid	0.0522	0.0020 mg/L	0.0567		92	70-130			
Trichloroacetic Acid	0.0176	0.0020 mg/L	0.0190		93	70-130			
Dibromoacetic Acid	0.0185	0.0020 mg/L	0.0188		99	70-130			
Surrogate: 2-Bromopropionic Acid	0.0120	mg/L	0.0116		104	70-130			
<b>LCS Dup (B9C0177-BSD1)</b>			Prepared: 2019-03-04, Analyzed: 2019-03-04						
Monochloroacetic Acid	0.0526	0.0020 mg/L	0.0558		94	70-130	3	30	
Monobromoacetic Acid	0.0371	0.0020 mg/L	0.0368		101	70-130	5	30	
Dichloroacetic Acid	0.0544	0.0020 mg/L	0.0567		96	70-130	4	30	
Trichloroacetic Acid	0.0190	0.0020 mg/L	0.0190		100	70-130	8	30	
Dibromoacetic Acid	0.0194	0.0020 mg/L	0.0188		103	70-130	5	30	
Surrogate: 2-Bromopropionic Acid	0.0113	mg/L	0.0116		97	70-130			



## APPENDIX 2: QUALITY CONTROL RESULTS

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

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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**Haloacetic Acids, Batch B9C0177, Continued**

Matrix Spike (B9C0177-MS1)		Source: 9021639-01		Prepared: 2019-03-04, Analyzed: 2019-03-04					
Monochloroacetic Acid	0.0624	0.0020	mg/L	0.0572	< 0.0020	109	60-140		
Monobromoacetic Acid	0.0389	0.0020	mg/L	0.0377	< 0.0020	103	60-140		
Dichloroacetic Acid	0.0639	0.0020	mg/L	0.0581	0.0110	91	60-140		
Trichloroacetic Acid	0.0326	0.0020	mg/L	0.0194	0.0143	94	60-140		
Dibromoacetic Acid	0.0199	0.0020	mg/L	0.0192	< 0.0020	103	60-140		
Surrogate: 2-Bromopropionic Acid	0.00962		mg/L	0.0118		81	70-130		

**Miscellaneous Herbicides, Batch B9B1764**

Blank (B9B1764-BLK1)		Prepared: 2019-02-27, Analyzed: 2019-02-27							
Diquat	< 0.0100	0.0100	mg/L						
Paraquat	< 0.0050	0.0050	mg/L						
LCS (B9B1764-BS1)		Prepared: 2019-02-27, Analyzed: 2019-02-27							
Diquat	0.0280	0.0100	mg/L	0.0250	112	80-120			
Paraquat	0.0295	0.0050	mg/L	0.0250	118	80-120			
LCS Dup (B9B1764-BSD1)		Prepared: 2019-02-27, Analyzed: 2019-02-27							
Diquat	0.0266	0.0100	mg/L	0.0250	106	80-120	5	20	
Paraquat	0.0296	0.0050	mg/L	0.0250	119	80-120	< 1	20	

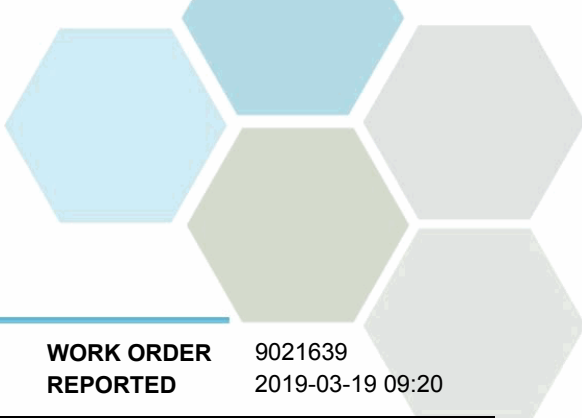
**Miscellaneous Herbicides, Batch B9C0204**

Blank (B9C0204-BLK1)		Prepared: 2019-03-05, Analyzed: 2019-03-05							
Glyphosate	< 0.050	0.050	mg/L						
LCS (B9C0204-BS1)		Prepared: 2019-03-05, Analyzed: 2019-03-05							
Glyphosate	0.249	0.050	mg/L	0.250	100	80-120			
LCS Dup (B9C0204-BSD1)		Prepared: 2019-03-05, Analyzed: 2019-03-05							
Glyphosate	0.295	0.050	mg/L	0.250	118	80-120	17	20	
Duplicate (B9C0204-DUP1)		Source: 9021639-01		Prepared: 2019-03-05, Analyzed: 2019-03-05					
Glyphosate	< 0.050	0.050	mg/L	< 0.050	20				

**Pesticides, Herbicides, and Fungicides, Batch B9B1727**

Blank (B9B1727-BLK1)		Prepared: 2019-02-27, Analyzed: 2019-02-28							
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						





## APPENDIX 2: QUALITY CONTROL RESULTS

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

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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**Pesticides, Herbicides, and Fungicides, Batch B9B1727, Continued**

**Blank (B9B1727-BLK1), Continued**

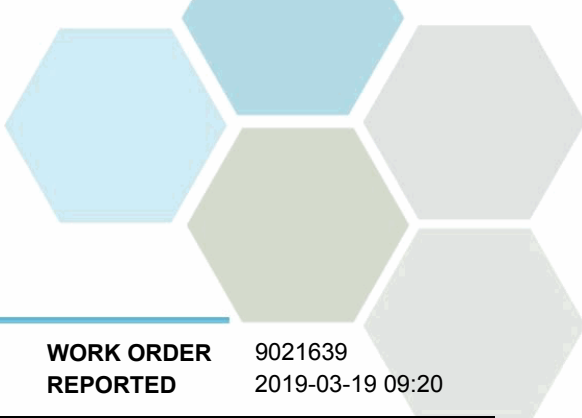
Prepared: 2019-02-27, Analyzed: 2019-02-28

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							
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	0.706	µg/L	1.00		71	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.870	µg/L	1.00		87	50-140			

**LCS (B9B1727-BS1)**

Prepared: 2019-02-27, Analyzed: 2019-02-28

Alachlor	1.02	0.100 µg/L	1.00		102	65-118			
Aldrin	0.918	0.006 µg/L	1.00		92	58-107			
Atrazine	0.967	0.100 µg/L	1.00		97	61-122			
Atrazine-desethyl	1.20	0.100 µg/L	0.991		121	50-140			
Azinphos-methyl	1.10	0.200 µg/L	1.00		110	53-127			
alpha-BHC	0.912	0.010 µg/L	1.01		90	54-134			
beta-BHC	0.947	0.050 µg/L	1.01		94	58-112			
delta-BHC	0.889	0.050 µg/L	1.00		89	58-119			
gamma-BHC (Lindane)	0.884	0.050 µg/L	1.00		88	59-113			
Bromacil	1.11	0.100 µg/L	1.00		111	52-123			
Bromoxynil	0.909	0.200 µg/L	1.01		90	50-132			
Butachlor	1.07	0.020 µg/L	1.01		106	50-140			
Captan	1.95	0.100 µg/L	0.994		196	63-137			SPK
Chlordane (cis + trans)	1.88	0.050 µg/L	2.01		94	50-140			
Chlorothalonil	0.966	0.050 µg/L	1.01		96	50-110			
Chlorpyrifos	0.959	0.010 µg/L	1.00		96	61-121			
Cyanazine	1.07	0.100 µg/L	1.00		107	57-126			



## APPENDIX 2: QUALITY CONTROL RESULTS

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

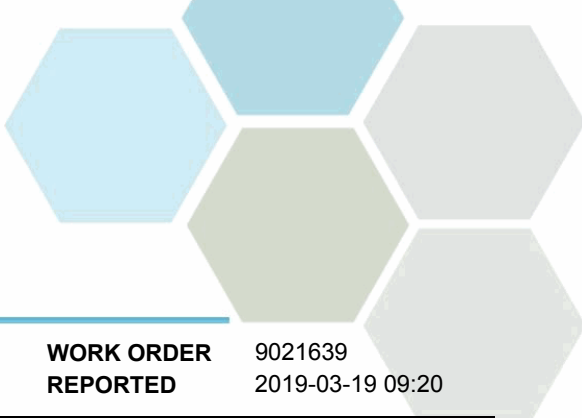
**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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**Pesticides, Herbicides, and Fungicides, Batch B9B1727, Continued**

LCS (B9B1727-BS1), Continued				Prepared: 2019-02-27, Analyzed: 2019-02-28					
DDT, Total	6.15	0.010 µg/L	5.03		122	50-140			
Deltamethrin	9.70	0.100 µg/L	9.96		97	50-121			
Diazinon	1.26	0.020 µg/L	1.00		126	52-126			
Dichlorvos	0.928	0.100 µg/L	1.00		93	50-110			
Diclofop-methyl	1.09	0.100 µg/L	0.991		110	58-112			
Dieldrin	0.998	0.010 µg/L	1.00		100	64-112			
Dimethoate	0.864	0.200 µg/L	0.989		87	50-120			
Disulfoton	0.948	0.100 µg/L	0.994		95	50-122			
Diuron	0.979	0.200 µg/L	1.00		98	54-116			
Endosulfan I + II	1.94	0.010 µg/L	2.01		97	50-140			
Endosulfan sulfate	1.11	0.050 µg/L	1.01		109	64-110			
Endrin	1.08	0.020 µg/L	1.01		107	59-123			
Endrin aldehyde	1.10	0.020 µg/L	1.00		110	58-118			
Endrin ketone	0.844	0.020 µg/L	1.01		84	53-114			
Fenchlorphos (Ronnel)	0.912	0.100 µg/L	1.01		90	63-110			
Heptachlor	0.913	0.010 µg/L	1.01		90	58-128			
Heptachlor epoxide	0.926	0.010 µg/L	1.01		92	64-110			
Linuron	1.32	0.050 µg/L	0.996		133	59-140			
Malathion	1.12	0.100 µg/L	1.00		112	61-121			
Methoxychlor	1.00	0.050 µg/L	1.01		99	53-121			
Methyl parathion	1.14	0.100 µg/L	1.00		114	65-114			
Metolachlor	1.08	0.100 µg/L	1.01		107	65-112			
Metribuzin	1.05	0.200 µg/L	1.00		105	53-123			
Parathion	1.14	0.100 µg/L	0.997		114	53-130			
Pentachloronitrobenzene	0.986	0.100 µg/L	0.998		99	54-136			
Permethrin	1.02	0.010 µg/L	1.01		101	50-130			
Phorate	1.16	0.100 µg/L	1.00		116	55-120			
Prometon	0.968	0.300 µg/L	1.00		97	57-124			
Prometryne	0.991	0.100 µg/L	1.00		99	50-140			
Simazine	0.979	0.200 µg/L	1.00		98	54-119			
Sulfotep	0.931	0.100 µg/L	1.01		92	61-121			
Tebuthiuron	0.998	0.200 µg/L	1.01		99	50-127			
Temephos (Abate)	9.52	0.500 µg/L	10.0		95	67-135			
Terbufos	1.06	0.100 µg/L	0.993		106	51-122			
Triallate	1.02	0.100 µg/L	0.995		102	50-120			
Trifluralin	0.985	0.200 µg/L	1.00		98	52-129			
Surrogate: Tributyl Phosphate	1.09	µg/L	1.00		109	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.923	µg/L	1.00		92	50-140			

LCS Dup (B9B1727-BSD1)				Prepared: 2019-02-27, Analyzed: 2019-02-28					
Alachlor	1.01	0.100 µg/L	1.00		101	65-118	1	30	
Aldrin	0.896	0.006 µg/L	1.00		90	58-107	2	30	
Atrazine	0.965	0.100 µg/L	1.00		96	61-122	< 1	30	
Atrazine-desethyl	1.21	0.100 µg/L	0.991		122	50-140	< 1	30	
Azinphos-methyl	1.12	0.200 µg/L	1.00		112	53-127	1	30	
alpha-BHC	0.852	0.010 µg/L	1.01		84	54-134	7	30	
beta-BHC	0.937	0.050 µg/L	1.01		93	58-112	1	30	
delta-BHC	0.879	0.050 µg/L	1.00		88	58-119	1	30	
gamma-BHC (Lindane)	0.867	0.050 µg/L	1.00		87	59-113	2	30	
Bromacil	1.11	0.100 µg/L	1.00		111	52-123	< 1	30	
Bromoxynil	0.937	0.200 µg/L	1.01		93	50-132	3	30	
Butachlor	1.10	0.020 µg/L	1.01		109	50-140	2	30	
Captan	2.03	0.100 µg/L	0.994		204	63-137	4	30	SPK
Chlordane (cis + trans)	1.96	0.050 µg/L	2.01		97	50-140	4	30	
Chlorothalonil	0.971	0.050 µg/L	1.01		96	50-110	< 1	30	
Chlorpyrifos	0.979	0.010 µg/L	1.00		98	61-121	2	30	



## APPENDIX 2: QUALITY CONTROL RESULTS

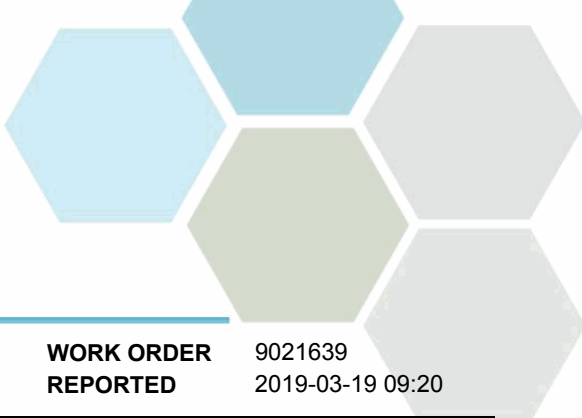
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**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Pesticides, Herbicides, and Fungicides, Batch B9B1727, Continued</b>									
<b>LCS Dup (B9B1727-BSD1), Continued</b>					Prepared: 2019-02-27, Analyzed: 2019-02-28				
Cyanazine	1.10	0.100 µg/L	1.00		110	57-126	3	30	
DDT, Total	6.21	0.010 µg/L	5.03		123	50-140	1	30	
Deltamethrin	10.0	0.100 µg/L	9.96		101	50-121	3	30	
Diazinon	1.25	0.020 µg/L	1.00		125	52-126	< 1	30	
Dichlorvos	0.952	0.100 µg/L	1.00		95	50-110	3	30	
Diclofop-methyl	1.09	0.100 µg/L	0.991		109	58-112	< 1	30	
Dieldrin	1.00	0.010 µg/L	1.00		100	64-112	< 1	30	
Dimethoate	0.872	0.200 µg/L	0.989		88	50-120	1	30	
Disulfoton	0.948	0.100 µg/L	0.994		95	50-122	< 1	30	
Diuron	1.00	0.200 µg/L	1.00		100	54-116	3	30	
Endosulfan I + II	1.96	0.010 µg/L	2.01		98	50-140	1	30	
Endosulfan sulfate	1.14	0.050 µg/L	1.01		112	64-110	3	30	SPK1
Endrin	1.16	0.020 µg/L	1.01		115	59-123	7	30	
Endrin aldehyde	1.14	0.020 µg/L	1.00		114	58-118	3	30	
Endrin ketone	0.866	0.020 µg/L	1.01		86	53-114	3	30	
Fenchlorphos (Ronnel)	0.908	0.100 µg/L	1.01		90	63-110	< 1	30	
Heptachlor	0.902	0.010 µg/L	1.01		89	58-128	1	30	
Heptachlor epoxide	0.946	0.010 µg/L	1.01		94	64-110	2	30	
Linuron	1.40	0.050 µg/L	0.996		140	59-140	6	30	
Malathion	1.15	0.100 µg/L	1.00		115	61-121	3	30	
Methoxychlor	1.04	0.050 µg/L	1.01		103	53-121	3	30	
Methyl parathion	1.18	0.100 µg/L	1.00		118	65-114	4	30	SPK1
Metolachlor	1.08	0.100 µg/L	1.01		107	65-112	< 1	30	
Metribuzin	1.07	0.200 µg/L	1.00		107	53-123	2	30	
Parathion	1.18	0.100 µg/L	0.997		119	53-130	4	30	
Pentachloronitrobenzene	0.986	0.100 µg/L	0.998		99	54-136	< 1	30	
Permethrin	1.09	0.010 µg/L	1.01		108	50-130	6	30	
Phorate	1.14	0.100 µg/L	1.00		114	55-120	2	30	
Prometon	0.910	0.300 µg/L	1.00		91	57-124	6	30	
Prometryne	0.976	0.100 µg/L	1.00		98	50-140	2	30	
Simazine	0.991	0.200 µg/L	1.00		99	54-119	1	30	
Sulfotep	0.907	0.100 µg/L	1.01		90	61-121	3	30	
Tebuthiuron	1.02	0.200 µg/L	1.01		101	50-127	2	30	
Temephos (Abate)	9.19	0.500 µg/L	10.0		92	67-135	4	30	
Terbufos	1.05	0.100 µg/L	0.993		106	51-122	< 1	30	
Triallate	0.996	0.100 µg/L	0.995		100	50-120	2	30	
Trifluralin	1.05	0.200 µg/L	1.00		105	52-129	7	30	
Surrogate: Tributyl Phosphate	1.07	µg/L	1.00		107	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.885	µg/L	1.00		89	50-140			

### Polycyclic Aromatic Hydrocarbons (PAH), Batch B9C0105

<b>Blank (B9C0105-BLK1)</b>			Prepared: 2019-03-02, Analyzed: 2019-03-04						
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							
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							

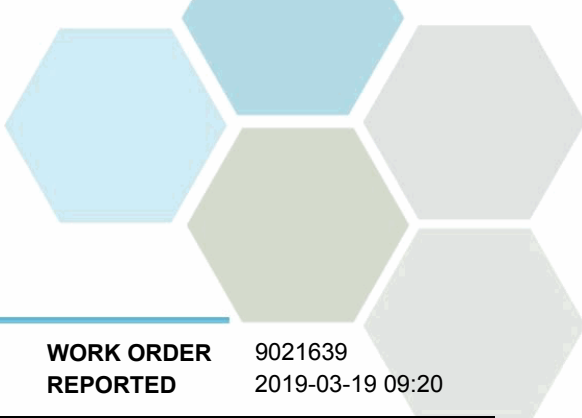


## APPENDIX 2: QUALITY CONTROL RESULTS

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Schedule 4 - Code of Practice

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Polycyclic Aromatic Hydrocarbons (PAH), Batch B9C0105, Continued</b>									
<b>Blank (B9C0105-BLK1), Continued</b>					Prepared: 2019-03-02, Analyzed: 2019-03-04				
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	2.38	µg/L	4.38		54	50-140			
Surrogate: Naphthalene-d8	3.01	µg/L	4.47		67	50-140			
Surrogate: Perylene-d12	3.71	µg/L	4.47		83	50-140			
<b>LCS (B9C0105-BS1)</b>					Prepared: 2019-03-02, Analyzed: 2019-03-04				
Acenaphthene	4.49	0.050 µg/L	4.40		102	58-125			
Acenaphthylene	4.24	0.200 µg/L	4.40		96	54-128			
Acridine	3.33	0.050 µg/L	4.44		75	50-112			
Anthracene	4.56	0.010 µg/L	4.44		103	66-125			
Benz(a)anthracene	4.29	0.010 µg/L	4.44		96	59-123			
Benzo(a)pyrene	4.01	0.010 µg/L	4.40		91	62-116			
Benzo(b+j)fluoranthene	8.52	0.050 µg/L	8.89		96	69-121			
Benzo(g,h,i)perylene	3.84	0.050 µg/L	4.40		87	58-129			
Benzo(k)fluoranthene	4.85	0.050 µg/L	4.44		109	67-128			
2-Chloronaphthalene	3.64	0.100 µg/L	4.44		82	50-140			
Chrysene	4.46	0.050 µg/L	4.42		101	58-125			
Dibenz(a,h)anthracene	3.59	0.010 µg/L	4.42		81	58-126			
Fluoranthene	4.63	0.030 µg/L	4.36		106	67-133			
Fluorene	4.18	0.050 µg/L	4.40		95	55-122			
Indeno(1,2,3-cd)pyrene	3.63	0.050 µg/L	4.44		82	62-126			
1-Methylnaphthalene	3.40	0.100 µg/L	4.38		78	53-125			
2-Methylnaphthalene	3.40	0.100 µg/L	4.36		78	52-122			
Naphthalene	3.24	0.200 µg/L	4.44		73	50-130			
Phenanthrene	4.47	0.100 µg/L	4.40		102	67-127			
Pyrene	4.58	0.020 µg/L	4.44		103	68-133			
Quinoline	4.97	0.050 µg/L	4.44		112	51-140			
Surrogate: Acridine-d9	2.93	µg/L	4.38		67	50-140			
Surrogate: Naphthalene-d8	2.98	µg/L	4.47		67	50-140			
Surrogate: Perylene-d12	4.05	µg/L	4.47		91	50-140			
<b>LCS Dup (B9C0105-BSD1)</b>					Prepared: 2019-03-02, Analyzed: 2019-03-04				
Acenaphthene	4.27	0.050 µg/L	4.40		97	58-125	5	16	
Acenaphthylene	4.09	0.200 µg/L	4.40		93	54-128	4	16	
Acridine	3.13	0.050 µg/L	4.44		70	50-112	6	26	
Anthracene	4.38	0.010 µg/L	4.44		98	66-125	4	14	
Benz(a)anthracene	3.85	0.010 µg/L	4.44		87	59-123	11	23	
Benzo(a)pyrene	3.72	0.010 µg/L	4.40		84	62-116	8	16	
Benzo(b+j)fluoranthene	8.02	0.050 µg/L	8.89		90	69-121	6	14	
Benzo(g,h,i)perylene	3.75	0.050 µg/L	4.40		85	58-129	2	25	
Benzo(k)fluoranthene	4.75	0.050 µg/L	4.44		107	67-128	2	18	
2-Chloronaphthalene	3.59	0.100 µg/L	4.44		81	50-140	2	30	
Chrysene	4.01	0.050 µg/L	4.42		91	58-125	10	24	
Dibenz(a,h)anthracene	3.61	0.010 µg/L	4.42		82	58-126	< 1	23	
Fluoranthene	4.04	0.030 µg/L	4.36		93	67-133	14	18	
Fluorene	3.92	0.050 µg/L	4.40		89	55-122	6	16	
Indeno(1,2,3-cd)pyrene	3.61	0.050 µg/L	4.44		81	62-126	< 1	22	
1-Methylnaphthalene	3.68	0.100 µg/L	4.38		84	53-125	8	16	



## APPENDIX 2: QUALITY CONTROL RESULTS

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Schedule 4 - Code of Practice

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

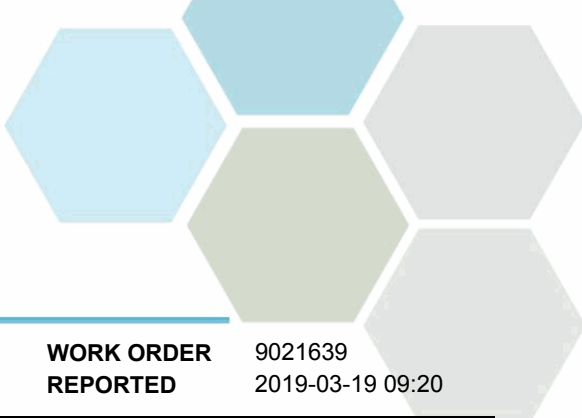
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Polycyclic Aromatic Hydrocarbons (PAH), Batch B9C0105, Continued</b>									
<b>LCS Dup (B9C0105-BSD1), Continued</b>					Prepared: 2019-03-02, Analyzed: 2019-03-04				
2-Methylnaphthalene	3.76	0.100 µg/L	4.36		86	52-122	10	17	
Naphthalene	3.66	0.200 µg/L	4.44		82	50-130	12	18	
Phenanthrene	4.25	0.100 µg/L	4.40		97	67-127	5	14	
Pyrene	4.00	0.020 µg/L	4.44		90	68-133	14	18	
Quinoline	4.55	0.050 µg/L	4.44		102	51-140	9	12	
Surrogate: Acridine-d9	3.05	µg/L	4.38		70	50-140			
Surrogate: Naphthalene-d8	3.84	µg/L	4.47		86	50-140			
Surrogate: Perylene-d12	3.87	µg/L	4.47		87	50-140			

**Total Metals, Batch B9B1788**

<b>Blank (B9B1788-BLK1)</b>					Prepared: 2019-02-27, Analyzed: 2019-02-28				
Mercury, total	< 0.000010	0.000010 mg/L							
<b>Reference (B9B1788-SRM1)</b>					Prepared: 2019-02-27, Analyzed: 2019-02-28				
Mercury, total	0.00404	0.000010 mg/L	0.00489		83	80-120			

**Total Metals, Batch B9B1815**

<b>Blank (B9B1815-BLK1)</b>					Prepared: 2019-02-27, Analyzed: 2019-02-28				
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							

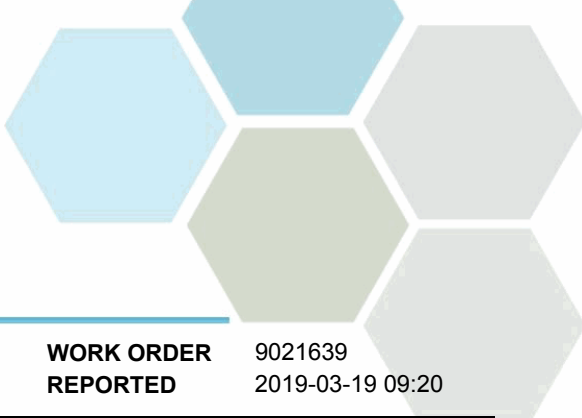


## APPENDIX 2: QUALITY CONTROL RESULTS

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Schedule 4 - Code of Practice

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Total Metals, Batch B9B1815, Continued</b>									
<b>Blank (B9B1815-BLK1), Continued</b>					Prepared: 2019-02-27, Analyzed: 2019-02-28				
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							
<b>LCS (B9B1815-BS1)</b>					Prepared: 2019-02-27, Analyzed: 2019-02-28				
Aluminum, total	0.0205	0.0050 mg/L	0.0200		103	80-120			
Antimony, total	0.0202	0.00020 mg/L	0.0200		101	80-120			
Arsenic, total	0.0207	0.00050 mg/L	0.0200		103	80-120			
Barium, total	0.0206	0.0050 mg/L	0.0200		103	80-120			
Beryllium, total	0.0164	0.00010 mg/L	0.0200		82	80-120			
Bismuth, total	0.0185	0.00010 mg/L	0.0200		92	80-120			
Boron, total	0.0179	0.0050 mg/L	0.0200		89	80-120			
Cadmium, total	0.0200	0.000010 mg/L	0.0200		100	80-120			
Calcium, total	1.67	0.20 mg/L	2.00		83	80-120			
Chromium, total	0.0232	0.00050 mg/L	0.0200		116	80-120			
Cobalt, total	0.0193	0.00010 mg/L	0.0200		97	80-120			
Copper, total	0.0191	0.00040 mg/L	0.0200		95	80-120			
Iron, total	1.91	0.010 mg/L	2.00		95	80-120			
Lead, total	0.0199	0.00020 mg/L	0.0200		100	80-120			
Lithium, total	0.0173	0.00010 mg/L	0.0200		86	80-120			
Magnesium, total	1.93	0.010 mg/L	2.00		96	80-120			
Manganese, total	0.0190	0.00020 mg/L	0.0200		95	80-120			
Molybdenum, total	0.0181	0.00010 mg/L	0.0200		90	80-120			
Nickel, total	0.0204	0.00040 mg/L	0.0200		102	80-120			
Phosphorus, total	1.90	0.050 mg/L	2.00		95	80-120			
Potassium, total	1.90	0.10 mg/L	2.00		95	80-120			
Selenium, total	0.0199	0.00050 mg/L	0.0200		99	80-120			
Silicon, total	1.7	1.0 mg/L	2.00		87	80-120			
Silver, total	0.0166	0.000050 mg/L	0.0200		83	80-120			
Sodium, total	2.04	0.10 mg/L	2.00		102	80-120			
Strontium, total	0.0174	0.0010 mg/L	0.0200		87	80-120			
Sulfur, total	4.5	3.0 mg/L	5.00		90	80-120			
Tellurium, total	0.0214	0.00050 mg/L	0.0200		107	80-120			
Thallium, total	0.0199	0.000020 mg/L	0.0200		100	80-120			
Thorium, total	0.0196	0.00010 mg/L	0.0200		98	80-120			
Tin, total	0.0184	0.00020 mg/L	0.0200		92	80-120			
Titanium, total	0.0192	0.0050 mg/L	0.0200		96	80-120			
Tungsten, total	0.0180	0.0010 mg/L	0.0200		90	80-120			
Uranium, total	0.0190	0.000020 mg/L	0.0200		95	80-120			
Vanadium, total	0.0220	0.0010 mg/L	0.0200		110	80-120			
Zinc, total	0.0197	0.0040 mg/L	0.0200		99	80-120			
Zirconium, total	0.0177	0.00010 mg/L	0.0200		89	80-120			
<b>Reference (B9B1815-SRM1)</b>					Prepared: 2019-02-27, Analyzed: 2019-02-28				
Aluminum, total	0.282	0.0050 mg/L	0.303		93	82-114			
Antimony, total	0.0520	0.00020 mg/L	0.0511		102	88-115			
Arsenic, total	0.125	0.00050 mg/L	0.118		106	88-111			
Barium, total	0.820	0.0050 mg/L	0.823		100	83-110			
Beryllium, total	0.0416	0.00010 mg/L	0.0496		84	80-119			
Boron, total	3.04	0.0050 mg/L	3.45		88	80-118			
Cadmium, total	0.0492	0.000010 mg/L	0.0495		99	90-110			
Calcium, total	11.2	0.20 mg/L	11.6		97	85-113			
Chromium, total	0.273	0.00050 mg/L	0.250		109	88-111			
Cobalt, total	0.0375	0.00010 mg/L	0.0377		100	90-114			
Copper, total	0.536	0.00040 mg/L	0.486		110	90-117			
Iron, total	0.524	0.010 mg/L	0.488		107	90-116			
Lead, total	0.206	0.00020 mg/L	0.204		101	90-110			



## APPENDIX 2: QUALITY CONTROL RESULTS

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

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Total Metals, Batch B9B1815, Continued</b>									
<b>Reference (B9B1815-SRM1), Continued</b>					Prepared: 2019-02-27, Analyzed: 2019-02-28				
Lithium, total	0.355	0.00010 mg/L	0.403		88	79-118			
Magnesium, total	3.68	0.010 mg/L	3.79		97	88-116			
Manganese, total	0.102	0.00020 mg/L	0.109		94	88-108			
Molybdenum, total	0.190	0.00010 mg/L	0.198		96	88-110			
Nickel, total	0.243	0.00040 mg/L	0.249		98	90-112			
Phosphorus, total	0.244	0.050 mg/L	0.227		107	72-118			
Potassium, total	6.84	0.10 mg/L	7.21		95	87-116			
Selenium, total	0.123	0.00050 mg/L	0.121		101	90-122			
Sodium, total	7.97	0.10 mg/L	7.54		106	86-118			
Strontium, total	0.331	0.0010 mg/L	0.375		88	86-110			
Thallium, total	0.0875	0.000020 mg/L	0.0805		109	90-113			
Uranium, total	0.0292	0.000020 mg/L	0.0306		95	88-112			
Vanadium, total	0.426	0.0010 mg/L	0.386		110	87-110			
Zinc, total	2.75	0.0040 mg/L	2.49		110	90-113			

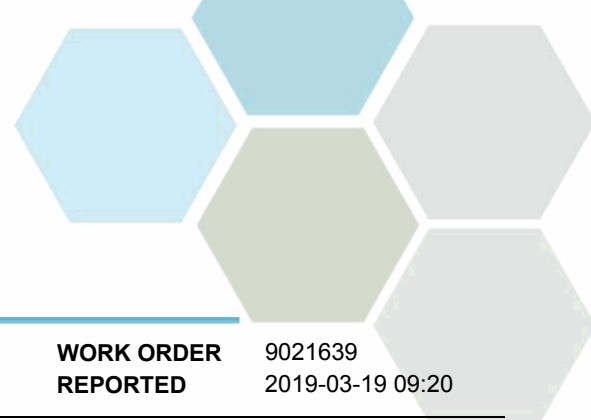
### Volatile Organic Compounds (VOC), Batch B9C0050

<b>Blank (B9C0050-BLK1)</b>									
					Prepared: 2019-03-02, Analyzed: 2019-03-02				
Bromodichloromethane	< 0.0010	0.0010 mg/L							
Bromoform	< 0.0010	0.0010 mg/L							
Chloroform	< 0.0010	0.0010 mg/L							
Dibromochloromethane	< 0.0010	0.0010 mg/L							
Surrogate: Toluene-d8	0.0244	mg/L	0.0265		92	70-130			
Surrogate: 4-Bromofluorobenzene	0.0237	mg/L	0.0250		95	70-130			

<b>LCS (B9C0050-BS1)</b>									
					Prepared: 2019-03-02, Analyzed: 2019-03-02				
Bromodichloromethane	0.0207	0.0010 mg/L	0.0202		102	70-130			
Bromoform	0.0166	0.0010 mg/L	0.0201		82	70-130			
Chloroform	0.0210	0.0010 mg/L	0.0201		104	70-130			
Dibromochloromethane	0.0191	0.0010 mg/L	0.0202		95	70-130			
Surrogate: Toluene-d8	0.0236	mg/L	0.0265		89	70-130			
Surrogate: 4-Bromofluorobenzene	0.0262	mg/L	0.0250		105	70-130			

### Volatile Organic Compounds (VOC), Batch B9C0101

<b>Blank (B9C0101-BLK1)</b>									
					Prepared: 2019-03-03, Analyzed: 2019-03-03				
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							



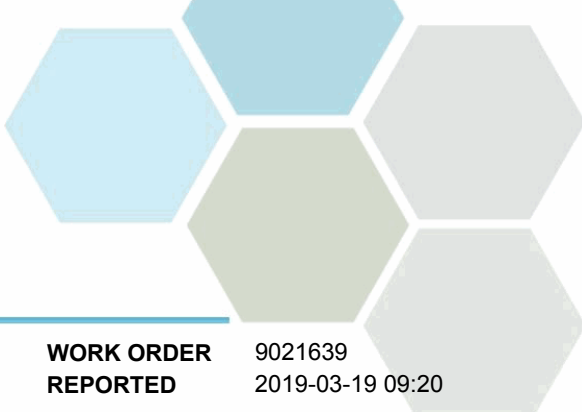
## APPENDIX 2: QUALITY CONTROL RESULTS

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

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Volatile Organic Compounds (VOC), Batch B9C0101, Continued</b>									
<b>Blank (B9C0101-BLK1), Continued</b>					Prepared: 2019-03-03, Analyzed: 2019-03-03				
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	23.8	µg/L	26.5		90	70-130			
Surrogate: 4-Bromofluorobenzene	23.0	µg/L	25.0		92	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	22.5	µg/L	24.7		91	70-130			
<b>LCS (B9C0101-BS1)</b>					Prepared: 2019-03-03, Analyzed: 2019-03-03				
Benzene	20.5	0.5 µg/L	20.1		102	70-130			
Bromodichloromethane	22.5	1.0 µg/L	20.2		112	70-130			
Bromoform	16.3	1.0 µg/L	20.1		81	70-130			
Carbon tetrachloride	16.6	0.5 µg/L	20.1		83	70-130			
Chlorobenzene	20.8	1.0 µg/L	20.2		103	70-130			
Chloroethane	20.5	2.0 µg/L	20.0		103	60-140			
Chloroform	21.3	1.0 µg/L	20.1		106	70-130			
Dibromochloromethane	18.9	1.0 µg/L	20.2		94	70-130			
1,2-Dibromoethane	20.1	0.3 µg/L	20.1		100	70-130			
Dibromomethane	15.5	1.0 µg/L	20.1		77	70-130			
1,2-Dichlorobenzene	25.3	0.5 µg/L	20.1		126	70-130			
1,3-Dichlorobenzene	22.3	1.0 µg/L	20.1		111	70-130			
1,4-Dichlorobenzene	23.3	1.0 µg/L	20.1		116	70-130			
1,1-Dichloroethane	20.1	1.0 µg/L	20.1		100	70-130			
1,2-Dichloroethane	22.2	1.0 µg/L	20.1		110	70-130			
1,1-Dichloroethylene	18.5	1.0 µg/L	20.1		92	70-130			
cis-1,2-Dichloroethylene	19.8	1.0 µg/L	20.1		99	70-130			
trans-1,2-Dichloroethylene	19.6	1.0 µg/L	20.1		97	70-130			
Dichloromethane	21.4	3.0 µg/L	20.1		107	70-130			
1,2-Dichloropropane	20.6	1.0 µg/L	20.2		102	70-130			
1,3-Dichloropropene (cis + trans)	31.4	1.0 µg/L	40.0		78	70-130			
Ethylbenzene	19.7	1.0 µg/L	20.1		98	70-130			
Methyl tert-butyl ether	8.4	1.0 µg/L	20.0		42	70-130			SPK
Styrene	18.0	1.0 µg/L	20.1		89	70-130			
1,1,2,2-Tetrachloroethane	112	0.5 µg/L	20.2		557	70-130			SPK
Tetrachloroethylene	13.9	1.0 µg/L	20.1		69	70-130			SPK
Toluene	20.8	1.0 µg/L	20.1		103	70-130			
1,1,1-Trichloroethane	16.1	1.0 µg/L	20.2		80	70-130			
1,1,2-Trichloroethane	22.9	1.0 µg/L	20.1		114	70-130			
Trichloroethylene	17.6	1.0 µg/L	20.1		87	70-130			
Trichlorofluoromethane	18.4	1.0 µg/L	20.0		92	60-140			
Vinyl chloride	13.4	1.0 µg/L	20.0		67	60-140			
Xylenes (total)	59.0	2.0 µg/L	60.1		98	70-130			
Surrogate: Toluene-d8	25.4	µg/L	26.5		96	70-130			
Surrogate: 4-Bromofluorobenzene	27.2	µg/L	25.0		109	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	27.7	µg/L	24.7		112	70-130			





## APPENDIX 2: QUALITY CONTROL RESULTS

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

**WORK ORDER REPORTED** 9021639  
2019-03-19 09:20

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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**QC Qualifiers:**

- S09 The surrogate recovery for this sample is outside of established control limits .
- 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.



# Microcystin Test Results

Sample collected February 25, 2019

Final Report

March 18, 2019

Submitted to: **CARO Analytical Services**  
Edmonton, AB

## SAMPLE INFORMATION

Sample ID/ Internal ID	Dates			Receipt Temperature
	Collected	Received	Test Initiation	
9021639-01/ 1819-0845	25-Feb-19	27-Feb-19 at 0830h	12-Mar-19	22.0°C

## METHODS

- Microcystin – Total
  - Test Protocol: Abraxis – Microcystin (ADDA) ELIZA kit (Cat #520011) user guide
  - W.J. Fischer, I. Garthwaite, C.O. Miles, K.M. Ross, J.B. Aggen, A.R. Chamberlin, N.A. Towers and D.R. Dietrich. Congener-Independent Immunoassay for Microcystins and Nodularins. Environ. Sci. Technol. 35, 2001, 4849-4858; Worldwide Patenting PCT WO 01-18059 A2, US Patent Number 6,967,240.

## RESULTS

### Test results

Sample ID	Microcystin - Total	MDL
	µg/L	µg/L
9021639-01	<0.14	0.14

MDL = Method Detection Limit

## QA/QC

QA/QC summary	Internal ID	Microcystin – Total (µg/L)	Percent Recovery (%)	RPD	Limit
PCS		0.73	98%	NA	75%-125%
MB		<0.14	NA	NA	0.14 µg/L
DUP	1819-0877-01	0.16	NA	17	50%
Protocol deviations			None		
Test performance			Valid		

PCS = Positive Control Sample, MB = Method Blank, DUP = Duplicate, NA = Not Applicable, ND = Not Determined, RPD-NA = Relative Percent Difference Not Available due to results being less than the detection limit.



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Report By:  
Sara Thiessen, BSc  
Biologist

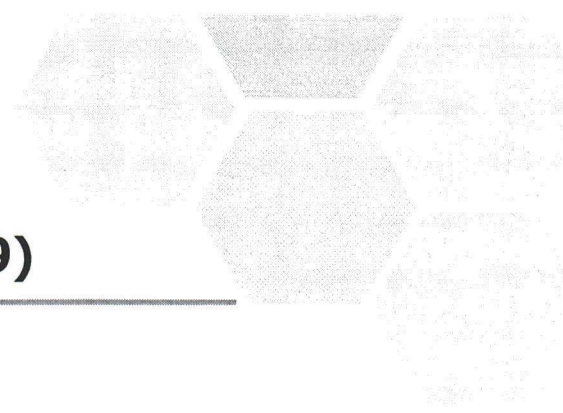


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Reviewed By:  
Courtney Bogstie, BSc  
Biologist

This report has been prepared by Nautilus Environmental Company Inc. based on data and/or samples provided by our client and the results of this study are for their sole benefit. Any reliance on the data by a third party is at the sole and exclusive risk of that party. The results presented here relate only to the samples tested.

**APPENDIX A – Chain-of-custody form**



**SUBCONTRACT REQUEST (WO# 9021639)**

**SENDING LABORATORY:**

CARO Analytical Services  
17225 109 Avenue NW  
Edmonton, AB T5S 1H7  
Phone: (780) 489-9100

**Contact** Eilish St.Clair, B.Sc.  
sublet@caro.ca

**RECEIVING LABORATORY:**

Nautilus Environmental (Calgary)  
#4, 6125 12th Street SE  
Calgary, AB T2H 2K1  
Phone: (403) 253-7121

**REGULAR TAT**

Analysis / Method	Expires	Comments
<b>CARO Sample ID: 9021639-01   Matrix: Water   Sampled: 2019-02-25 00:00</b>		
<i>Container(s) Submitted:</i> L = C21_100 mL Glass (General)		
Cyanobacterial Toxins (Microcystin) [EPA 546*]	2019-03-02	1819-0845

2019/02/27  
08:30  
Perulator  
J.C.  
1x250mL amber bottle  
NoS/NoI  
Good Condition  
22.0°C

**END OF REPORT**