



## 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>	24H0492
<b>ATTENTION</b>	Wesley Olstad	<b>RECEIVED / TEMP REPORTED</b>	2024-08-06 13:20 / 13.8°C 2024-08-21 11:57
<b>PO NUMBER</b>		<b>COC NUMBER</b>	No #
<b>PROJECT</b>	Schedule 4 - Code of Practice		
<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.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: <https://www.caro.ca/terms-conditions>

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

### Authorized By:

Team CARO  
Client Service Representative

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# TEST RESULTS

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

**WORK ORDER REPORTED** 24H0492  
2024-08-21 11:57

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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**Treated (24H0492-01) | Matrix: Water | Sampled: 2024-08-06**

**Acid Herbicides**

2,4-D	< 0.10	MAC = 100	0.10	µg/L	2024-08-14	
2,4-DB	< 0.10	N/A	0.10	µg/L	2024-08-14	
Dichlorprop (2,4-DP)	< 0.10	N/A	0.10	µg/L	2024-08-14	
Fenoprop	< 0.10	N/A	0.10	µg/L	2024-08-14	
MCPA	< 0.02	MAC = 350	0.02	µg/L	2024-08-14	
MCPB	< 0.10	N/A	0.10	µg/L	2024-08-14	
2,4,5-T	< 0.10	N/A	0.10	µg/L	2024-08-14	
MCPB	< 0.10	N/A	0.10	µg/L	2024-08-14	
Acifluorfen	< 0.10	N/A	0.10	µg/L	2024-08-14	
Bentazon	< 0.10	N/A	0.10	µg/L	2024-08-14	
Chloramben	< 0.10	N/A	0.10	µg/L	2024-08-14	
Dicamba	< 0.10	MAC = 110	0.10	µg/L	2024-08-14	
Triclopyr	< 0.10	N/A	0.10	µg/L	2024-08-14	
Picloram	< 0.10	MAC = 190	0.10	µg/L	2024-08-14	
Clopyralid	< 0.10	N/A	0.10	µg/L	2024-08-14	
Bromoxynil	< 0.10	MAC = 30	0.10	µg/L	2024-08-14	
Dinoseb	< 0.10	N/A	0.10	µg/L	2024-08-14	

**Anions**

Bromate	< 0.005	MAC = 0.01	0.010	mg/L	2024-08-14	
Chloride	<b>4.72</b>	AO ≤ 250	0.50	mg/L	2024-08-08	
Fluoride	<b>0.13</b>	MAC = 1.5	0.10	mg/L	2024-08-08	
Nitrate (as N)	< 0.050	MAC = 10	0.050	mg/L	2024-08-08	
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2024-08-08	
Sulfate	<b>45.0</b>	AO ≤ 500	1.0	mg/L	2024-08-08	

**Calculated Parameters**

Chloramines	<b>0.190</b>	MAC = 3	0.0400	mg/L	N/A	
Total Trihalomethanes	<b>0.0690</b>	MAC = 0.1	0.00400	mg/L	N/A	
Ion Balance	<b>98.9</b>	N/A		%	N/A	
Hardness, Total (as CaCO3)	<b>180</b>	None Required	0.541	mg/L	N/A	
Nitrate+Nitrite (as N)	< 0.0500	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	<b>203</b>	AO ≤ 500	2.00	mg/L	N/A	

**Chlorinated Phenols**

C4

2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2024-08-09	
3 & 4-Chlorophenol	< 0.10	N/A	0.10	µg/L	2024-08-09	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2024-08-09	
2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2024-08-09	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20	µg/L	2024-08-09	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2024-08-09	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2024-08-09	
3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2024-08-09	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2024-08-09	



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2024-08-21 11:57

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**Treated (24H0492-01) | Matrix: Water | Sampled: 2024-08-06, Continued**

**Chlorinated Phenols, Continued**

2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2024-08-09	C4
2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2024-08-09	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2024-08-09	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50	µg/L	2024-08-09	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2024-08-09	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2024-08-09	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50	µg/L	2024-08-09	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50	µg/L	2024-08-09	
Surrogate: 2,4-Dibromophenol	60		60-130	%	2024-08-09	
Surrogate: 2,4,6-Tribromophenol	58		60-130	%	2024-08-09	S02
Surrogate: Phenol-d6	93		70-130	%	2024-08-09	

**General Parameters**

Alkalinity, Total (as CaCO3)	140	N/A	2.0	mg/L	2024-08-09	
Bicarbonate (HCO3)	170	N/A	2.0	mg/L	2024-08-09	
Carbonate (CO3)	< 2.0	N/A	2.0	mg/L	2024-08-09	
Hydroxide (OH)	< 2.0	N/A	2.0	mg/L	2024-08-09	
Ammonia, Total (as N)	0.053	None Required	0.050	mg/L	2024-08-08	
Carbon, Total Organic	2.24	N/A	0.50	mg/L	2024-08-09	
Chlorine, Total	0.95	None Required	0.02	mg/L	2024-08-09	HT2
Chlorine, Free	0.76	N/A	0.02	mg/L	2024-08-09	HT2
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-08-09	
Conductivity (EC)	368	N/A	2.0	µS/cm	2024-08-09	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-08-09	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20	mg/L	2024-08-09	
pH	7.98	7.0-10.5	0.10	pH units	2024-08-09	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2024-08-08	
Turbidity	0.12	OG < 1	0.10	NTU	2024-08-09	HT1

**Microbiological Parameters**

Microcystin, total	< 0.05	MAC = 1.5	0.05	µg/L	2024-08-09	
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**Miscellaneous Herbicides**

Glyphosate	< 0.050	MAC = 0.28	0.050	mg/L	2024-08-13	
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**Pesticides, Herbicides, and Fungicides**

Alachlor	< 0.100	N/A	0.100	µg/L	2024-08-16	
Aldrin	< 0.006	N/A	0.006	µg/L	2024-08-16	
Atrazine and metabolites	< 0.100	MAC = 5	0.100	µg/L	2024-08-16	
Azinphos-methyl	< 0.200	MAC = 20	0.200	µg/L	2024-08-16	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2024-08-16	
beta-BHC	< 0.100	N/A	0.050	µg/L	2024-08-16	RA1
delta-BHC	< 0.050	N/A	0.050	µg/L	2024-08-16	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2024-08-16	



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**Treated (24H0492-01) | Matrix: Water | Sampled: 2024-08-06, Continued**

*Pesticides, Herbicides, and Fungicides, Continued*

Bromacil	< 0.100	N/A	0.100	µg/L	2024-08-16	
Bromoxynil	< 0.200	MAC = 30	0.200	µg/L	2024-08-16	
Butachlor	< 0.020	N/A	0.020	µg/L	2024-08-16	
Captan	< 0.100	N/A	0.100	µg/L	2024-08-16	
Chlordane (cis + trans)	< 0.050	N/A	0.050	µg/L	2024-08-16	
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2024-08-16	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2024-08-16	
Cyanazine	< 0.100	N/A	0.100	µg/L	2024-08-16	
DDT, Total	< 0.010	N/A	0.010	µg/L	2024-08-16	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2024-08-16	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2024-08-16	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2024-08-16	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2024-08-16	
Dieldrin	< 0.010	N/A	0.010	µg/L	2024-08-16	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2024-08-16	
Disulfoton	< 0.100	N/A	0.100	µg/L	2024-08-16	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2024-08-16	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2024-08-16	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2024-08-16	
Endrin	< 0.020	N/A	0.020	µg/L	2024-08-16	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2024-08-16	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2024-08-16	
Fenchlorphos (Ronnell)	< 0.100	N/A	0.100	µg/L	2024-08-16	
Heptachlor	< 0.010	N/A	0.010	µg/L	2024-08-16	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2024-08-16	
Linuron	< 0.050	N/A	0.050	µg/L	2024-08-16	
Malathion	< 0.100	MAC = 290	0.100	µg/L	2024-08-16	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2024-08-16	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2024-08-16	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2024-08-16	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2024-08-16	
Parathion	< 0.100	N/A	0.100	µg/L	2024-08-16	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2024-08-16	
Permethrin	< 0.010	N/A	0.010	µg/L	2024-08-16	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2024-08-16	
Prometon	< 0.300	N/A	0.300	µg/L	2024-08-16	
Prometryne	< 0.100	N/A	0.100	µg/L	2024-08-16	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2024-08-16	
Sulfotep	< 0.100	N/A	0.100	µg/L	2024-08-16	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2024-08-16	
Temphos (Abate)	< 0.500	N/A	0.500	µg/L	2024-08-16	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2024-08-16	
Triallate	< 0.100	N/A	0.100	µg/L	2024-08-16	



# TEST RESULTS

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2024-08-21 11:57

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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**Treated (24H0492-01) | Matrix: Water | Sampled: 2024-08-06, Continued**

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

Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2024-08-16	
Surrogate: Tributyl Phosphate	91		50-140	%	2024-08-16	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	80		50-140	%	2024-08-16	

**Polycyclic Aromatic Hydrocarbons (PAH)**

Acenaphthene	< 0.050	N/A	0.050	µg/L	2024-08-09	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2024-08-09	
Acridine	< 0.050	N/A	0.050	µg/L	2024-08-09	
Anthracene	< 0.010	N/A	0.010	µg/L	2024-08-09	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2024-08-09	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2024-08-09	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2024-08-09	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2024-08-09	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2024-08-09	
2-Chloronaphthalene	< 0.100	N/A	0.100	µg/L	2024-08-09	
Chrysene	< 0.050	N/A	0.050	µg/L	2024-08-09	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2024-08-09	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2024-08-09	
Fluorene	< 0.050	N/A	0.050	µg/L	2024-08-09	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2024-08-09	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2024-08-09	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2024-08-09	
Naphthalene	< 0.200	N/A	0.200	µg/L	2024-08-09	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2024-08-09	
Pyrene	< 0.020	N/A	0.020	µg/L	2024-08-09	
Quinoline	< 0.100	N/A	0.050	µg/L	2024-08-09	RA1
Surrogate: Naphthalene-d8	92		50-140	%	2024-08-09	
Surrogate: Perylene-d12	117		50-140	%	2024-08-09	

**Total Metals**

Aluminum, total	<b>0.0480</b>	OG < 0.1	0.0050	mg/L	2024-08-07	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-08-07	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2024-08-07	
Barium, total	<b>0.0910</b>	MAC = 2	0.0050	mg/L	2024-08-07	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2024-08-07	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2024-08-07	
Calcium, total	<b>47.7</b>	None Required	0.20	mg/L	2024-08-07	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-08-07	
Copper, total	<b>0.00054</b>	MAC = 2	0.00040	mg/L	2024-08-07	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2024-08-07	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2024-08-07	
Magnesium, total	<b>14.9</b>	None Required	0.010	mg/L	2024-08-07	
Manganese, total	<b>0.00039</b>	MAC = 0.12	0.00020	mg/L	2024-08-07	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-08-08	



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**Treated (24H0492-01) | Matrix: Water | Sampled: 2024-08-06, Continued**

**Total Metals, Continued**

Potassium, total	1.01	N/A	0.10	mg/L	2024-08-07	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2024-08-07	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2024-08-07	
Sodium, total	4.46	AO ≤ 200	0.10	mg/L	2024-08-07	
Strontium, total	0.313	MAC = 7	0.0010	mg/L	2024-08-07	
Uranium, total	0.000247	MAC = 0.02	0.000020	mg/L	2024-08-07	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2024-08-07	

**Volatile Organic Compounds (VOC)**

Benzene	< 0.5	MAC = 5	0.5	µg/L	2024-08-08	
Bromodichloromethane	1.3	N/A	1.0	µg/L	2024-08-08	
Bromoform	< 1.0	N/A	1.0	µg/L	2024-08-08	
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2024-08-08	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2024-08-08	
Chloroethane	< 2.0	N/A	2.0	µg/L	2024-08-08	
Chloroform	67.8	N/A	1.0	µg/L	2024-08-08	
Dibromochloromethane	< 1.0	N/A	1.0	µg/L	2024-08-08	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2024-08-08	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2024-08-08	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5	µg/L	2024-08-08	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2024-08-08	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2024-08-08	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2024-08-08	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2024-08-08	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0	µg/L	2024-08-08	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2024-08-08	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2024-08-08	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2024-08-08	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2024-08-08	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2024-08-08	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2024-08-08	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2024-08-08	
Styrene	< 1.0	N/A	1.0	µg/L	2024-08-08	
1,1,1,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2024-08-08	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2024-08-08	
Toluene	< 0.5	MAC = 60	0.5	µg/L	2024-08-08	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2024-08-08	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2024-08-08	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2024-08-08	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2024-08-08	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2024-08-08	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2024-08-08	
Surrogate: Toluene-d8	103		70-130	%	2024-08-08	



## TEST RESULTS

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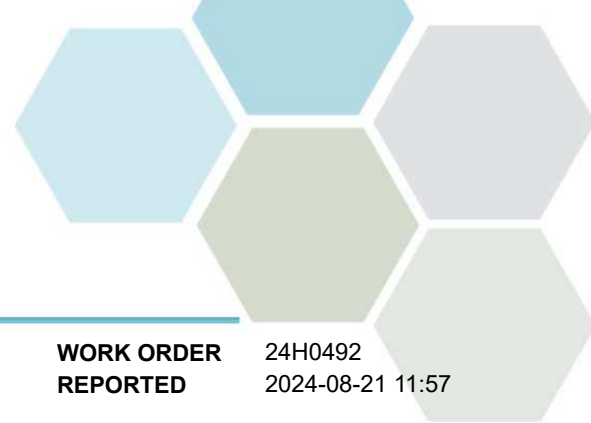
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
<b>Treated (24H0492-01)   Matrix: Water   Sampled: 2024-08-06, Continued</b>						
<i>Volatile Organic Compounds (VOC), Continued</i>						
Surrogate: 4-Bromofluorobenzene	111		70-130	%	2024-08-08	

**Sample Qualifiers:**

- C4 The sample extract has undergone SPE cleanup (UCT Enviroclean) to reduce matrix interference.
- 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 for this sample has been raised due to matrix interference.
- S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.





## APPENDIX 1: SUPPORTING INFORMATION

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Analysis Description	Method Ref.	Technique	Accredited	Location
Acid Herbicides in Water in Water	In-House	N/A	✓	Richmond
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Edmonton
Ammonia, Total in Water	SM 4500-NH3 D* (2021)	Ion Selective Electrode	✓	Edmonton
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Edmonton
Bromate in Water	SM 4110 B (2020)	Ion Chromatography	✓	Sublet
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO2 Detection	✓	Kelowna
Chlorine, Free in Water	SM 4500-Cl G (2021)	Colorimetry (DPD)	✓	Edmonton
Chlorine, Total in Water	SM 4500-Cl G (2021)	Colorimetry (DPD)	✓	Edmonton
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Edmonton
Conductivity in Water	SM 2510 B (2021)	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
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Ion Balance in Water	SM 2340 B (2021)	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
Nitrate+Nitrite in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Nitrotriacetic 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 (2021)	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)		Edmonton
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E	✓	N/A
Sulfide, Total in Water	SM 4500-S2 D* (2021)	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 (2020)	Nephelometry	✓	Edmonton
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)		Edmonton

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





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### Glossary of Terms:

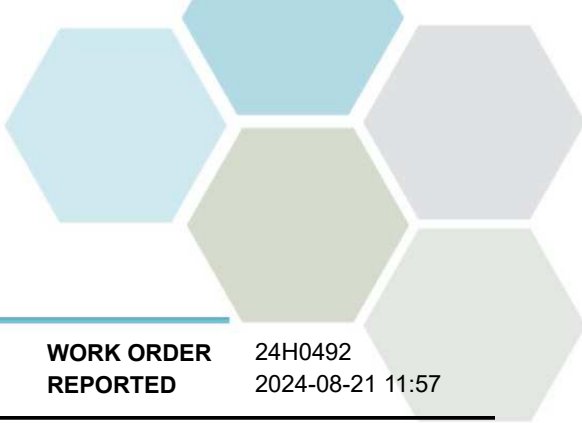
RL	Reporting Limit (default)
%	Percent
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CU	Colour Units (referenced against a platinum cobalt standard)
MAC	Maximum Acceptable Concentration (health based)
mg/L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

### General Comments:

The results in this report apply to the received 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. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

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: [TeamCaro@caro.ca](mailto:TeamCaro@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 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 B4H2518

Blank (B4H2518-BLK1)			Prepared: 2024-08-13, Analyzed: 2024-08-14						
2,4-D	< 0.10	0.10 µg/L							
2,4-DB	< 0.10	0.10 µg/L							
Dichlorprop (2,4-DP)	< 0.10	0.10 µg/L							
Fenoprop	< 0.10	0.10 µg/L							
MCPA	< 0.02	0.02 µg/L							
MCPB	< 0.10	0.10 µg/L							
2,4,5-T	< 0.10	0.10 µg/L							
MCPP	< 0.10	0.10 µg/L							
Acifluorfen	< 0.10	0.10 µg/L							
Bentazon	< 0.10	0.10 µg/L							
Chloramben	< 0.10	0.10 µg/L							
Dicamba	< 0.10	0.10 µg/L							
Triclopyr	< 0.10	0.10 µg/L							
Picloram	< 0.10	0.10 µg/L							
Clopyralid	< 0.10	0.10 µg/L							
Bromoxynil	< 0.10	0.10 µg/L							
Dinoseb	< 0.10	0.10 µg/L							

LCS (B4H2518-BS1)			Prepared: 2024-08-13, Analyzed: 2024-08-14						
2,4-D	4.72	0.10 µg/L	4.98		95	70-130			
2,4-DB	4.95	0.10 µg/L	5.00		99	70-130			
Dichlorprop (2,4-DP)	4.61	0.10 µg/L	4.99		92	70-130			
Fenoprop	4.71	0.10 µg/L	5.00		94	70-130			
MCPA	5.40	0.02 µg/L	5.00		108	70-130			
MCPB	4.46	0.10 µg/L	5.00		89	70-130			
2,4,5-T	5.20	0.10 µg/L	5.00		104	70-130			
MCPP	4.92	0.10 µg/L	5.00		98	70-130			
Acifluorfen	4.65	0.10 µg/L	4.98		93	70-130			
Bentazon	5.75	0.10 µg/L	5.00		115	70-130			
Chloramben	5.14	0.10 µg/L	4.99		103	70-130			
Dicamba	4.60	0.10 µg/L	5.00		92	70-130			
Triclopyr	5.27	0.10 µg/L	5.00		105	70-130			
Picloram	5.37	0.10 µg/L	4.98		108	70-130			
Clopyralid	5.27	0.10 µg/L	4.98		106	70-130			
Bromoxynil	4.95	0.10 µg/L	5.00		99	70-130			
Dinoseb	4.43	0.10 µg/L	4.99		89	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>Acid Herbicides, Batch B4H2518, Continued</b>									
<b>LCS Dup (B4H2518-BSD1)</b>					Prepared: 2024-08-13, Analyzed: 2024-08-14				
2,4-D	4.90	0.10 µg/L	4.98		98	70-130	4	30	
2,4-DB	4.91	0.10 µg/L	5.00		98	70-130	< 1	30	
Dichlorprop (2,4-DP)	4.67	0.10 µg/L	4.99		94	70-130	1	30	
Fenoprop	5.05	0.10 µg/L	5.00		101	70-130	7	30	
MCPA	5.27	0.02 µg/L	5.00		105	70-130	2	30	
MCPB	4.39	0.10 µg/L	5.00		88	70-130	2	30	
2,4,5-T	5.09	0.10 µg/L	5.00		102	70-130	2	30	
MCPB	4.98	0.10 µg/L	5.00		100	70-130	1	30	
Acifluorfen	4.52	0.10 µg/L	4.98		91	70-130	3	30	
Bentazon	6.04	0.10 µg/L	5.00		121	70-130	5	30	
Chloramben	5.34	0.10 µg/L	4.99		107	70-130	4	30	
Dicamba	4.80	0.10 µg/L	5.00		96	70-130	4	30	
Triclopyr	5.14	0.10 µg/L	5.00		103	70-130	3	30	
Picloram	5.66	0.10 µg/L	4.98		113	70-130	5	30	
Clopyralid	5.70	0.10 µg/L	4.98		114	70-130	8	30	
Bromoxynil	5.10	0.10 µg/L	5.00		102	70-130	3	30	
Dinoseb	4.29	0.10 µg/L	4.99		86	70-130	3	30	

**Anions, Batch B4H1987**

<b>Blank (B4H1987-BLK1)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
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							

<b>Blank (B4H1987-BLK2)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
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							

<b>LCS (B4H1987-BS1)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
Chloride	9.53	0.50 mg/L	10.0		95	90-110			
Fluoride	1.01	0.10 mg/L	1.00		101	85-115			
Nitrate (as N)	0.983	0.050 mg/L	1.00		98	92-108			
Nitrite (as N)	0.475	0.050 mg/L	0.500		95	85-115			
Sulfate	51.4	1.0 mg/L	50.0		103	90-110			

<b>LCS (B4H1987-BS2)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Chloride	9.69	0.50 mg/L	10.0		97	90-110			
Fluoride	0.98	0.10 mg/L	1.00		98	85-115			
Nitrate (as N)	0.983	0.050 mg/L	1.00		98	92-108			
Nitrite (as N)	0.486	0.050 mg/L	0.500		97	85-115			
Sulfate	52.1	1.0 mg/L	50.0		104	90-110			

<b>Duplicate (B4H1987-DUP1)</b>			<b>Source: 24H0492-01</b>		Prepared: 2024-08-08, Analyzed: 2024-08-08				
Chloride	4.71	0.50 mg/L		4.72			< 1	7	
Fluoride	0.14	0.10 mg/L		0.13				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	44.7	1.0 mg/L		45.0			< 1	8	



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier	
<b>Anions, Batch B4H1987, Continued</b>										
<b>Matrix Spike (B4H1987-MS1)</b>		<b>Source: 24H0492-01</b>		Prepared: 2024-08-08, Analyzed: 2024-08-08						
Chloride	15.6	0.50 mg/L	10.0	4.72	109	85-115				
Fluoride	1.12	0.10 mg/L	1.00	0.13	99	85-115				
Nitrate (as N)	1.15	0.050 mg/L	1.00	< 0.050	115	87-111			MS1	
Nitrite (as N)	0.373	0.050 mg/L	0.500	< 0.050	75	81-127			MS1	
<b>Matrix Spike Dup (B4H1987-MSD1)</b>		<b>Source: 24H0492-01</b>		Prepared: 2024-08-08, Analyzed: 2024-08-08						
Chloride	16.1	0.50 mg/L	10.0	4.72	114	85-115	3			
Fluoride	1.11	0.10 mg/L	1.00	0.13	97	85-115	1			
Nitrate (as N)	1.20	0.050 mg/L	1.00	< 0.050	120	87-111	4		MS1	
Nitrite (as N)	0.382	0.050 mg/L	0.500	< 0.050	76	81-127	2		MS1	
<b>Chlorinated Phenols, Batch B4H1972</b>										
<b>Blank (B4H1972-BLK1)</b>		Prepared: 2024-08-08, Analyzed: 2024-08-08						C4		
2-Chlorophenol	< 0.10	0.10 µg/L								
3 & 4-Chlorophenol	< 0.10	0.10 µg/L								
4-Chloro-3-Methylphenol	< 0.50	0.50 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	1.41	µg/L	2.36		60	60-130				
Surrogate: 2,4,6-Tribromophenol	1.40	µg/L	2.68		52	60-130			S02	
Surrogate: Phenol-d6	1.93	µg/L	2.10		92	70-130				
<b>LCS (B4H1972-BS1)</b>		Prepared: 2024-08-08, Analyzed: 2024-08-08						C4		
2-Chlorophenol	6.21	0.10 µg/L	10.0		62	60-130				
3 & 4-Chlorophenol	12.3	0.10 µg/L	20.0		61	60-130				
4-Chloro-3-Methylphenol	6.56	0.50 µg/L	9.80		67	60-130				
2,3-Dichlorophenol	6.94	0.20 µg/L	10.0		69	60-130				
2,4 & 2,5-Dichlorophenol	13.6	0.20 µg/L	20.0		68	60-130				
2,6-Dichlorophenol	6.51	0.20 µg/L	10.0		65	60-130				
3,4-Dichlorophenol	7.11	0.20 µg/L	10.0		71	60-130				
3,5-Dichlorophenol	7.74	0.20 µg/L	10.0		77	60-130				
2,3,4-Trichlorophenol	6.85	0.50 µg/L	10.0		68	60-130				
2,3,5-Trichlorophenol	7.44	0.50 µg/L	10.0		74	60-130				
2,3,6-Trichlorophenol	7.06	0.50 µg/L	10.0		71	60-130				
2,4,5-Trichlorophenol	7.65	0.50 µg/L	10.0		76	60-130				
2,4,6-Trichlorophenol	7.21	0.50 µg/L	10.0		72	60-130				
3,4,5-Trichlorophenol	8.36	0.50 µg/L	10.0		84	60-130				
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	14.3	0.50 µg/L	20.0		72	60-130				
2,3,4,6-Tetrachlorophenol	7.32	0.50 µg/L	10.0		73	60-130				
Pentachlorophenol	9.90	0.50 µg/L	10.0		99	60-130				
Surrogate: 2,4-Dibromophenol	1.88	µg/L	2.36		80	60-130				
Surrogate: 2,4,6-Tribromophenol	1.88	µg/L	2.68		70	60-130				
Surrogate: Phenol-d6	2.03	µg/L	2.10		97	70-130				



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>General Parameters, Batch B4H1742</b>									
<b>Blank (B4H1742-BLK1)</b>			Prepared: 2024-08-06, Analyzed: 2024-08-09						
Carbon, Total Organic	< 0.50	0.50 mg/L							
<b>Blank (B4H1742-BLK2)</b>			Prepared: 2024-08-06, Analyzed: 2024-08-09						
Carbon, Total Organic	< 0.50	0.50 mg/L							
<b>Blank (B4H1742-BLK3)</b>			Prepared: 2024-08-07, Analyzed: 2024-08-09						
Carbon, Total Organic	< 0.50	0.50 mg/L							
<b>Blank (B4H1742-BLK4)</b>			Prepared: 2024-08-07, Analyzed: 2024-08-09						
Carbon, Total Organic	< 0.50	0.50 mg/L							
<b>LCS (B4H1742-BS1)</b>			Prepared: 2024-08-06, Analyzed: 2024-08-09						
Carbon, Total Organic	9.68	0.50 mg/L	10.0		97	78-116			
<b>LCS (B4H1742-BS2)</b>			Prepared: 2024-08-06, Analyzed: 2024-08-09						
Carbon, Total Organic	9.57	0.50 mg/L	10.0		96	78-116			
<b>LCS (B4H1742-BS3)</b>			Prepared: 2024-08-07, Analyzed: 2024-08-09						
Carbon, Total Organic	10.0	0.50 mg/L	10.0		100	78-116			
<b>LCS (B4H1742-BS4)</b>			Prepared: 2024-08-07, Analyzed: 2024-08-09						
Carbon, Total Organic	9.50	0.50 mg/L	10.0		95	78-116			
<b>General Parameters, Batch B4H1817</b>									
<b>Blank (B4H1817-BLK1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Cyanide, Total	< 0.0020	0.0020 mg/L							
<b>Blank (B4H1817-BLK2)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Cyanide, Total	< 0.0020	0.0020 mg/L							
<b>LCS (B4H1817-BS1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Cyanide, Total	0.0206	0.0020 mg/L	0.0200		103	82-120			
<b>LCS (B4H1817-BS2)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Cyanide, Total	0.0228	0.0020 mg/L	0.0200		114	82-120			
<b>LCS Dup (B4H1817-BSD1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Cyanide, Total	0.0208	0.0020 mg/L	0.0200		104	82-120	< 1	10	
<b>LCS Dup (B4H1817-BSD2)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Cyanide, Total	0.0225	0.0020 mg/L	0.0200		112	82-120	1	10	
<b>General Parameters, Batch B4H1975</b>									
<b>Blank (B4H1975-BLK1)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
<b>LCS (B4H1975-BS1)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
Ammonia, Total (as N)	0.218	0.050 mg/L	0.200		109	85-115			
<b>General Parameters, Batch B4H1985</b>									
<b>Blank (B4H1985-BLK1)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
Sulfide, Total	< 0.020	0.020 mg/L							



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>General Parameters, Batch B4H1985, Continued</b>									
<b>LCS (B4H1985-BS1)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
Sulfide, Total	0.553	0.020 mg/L	0.530		104	80-120			
<b>General Parameters, Batch B4H2126</b>									
<b>Blank (B4H2126-BLK1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Colour, True	< 5.0	5.0 CU							
<b>LCS (B4H2126-BS1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Colour, True	26	5.0 CU	25.0		104	90-109			
<b>General Parameters, Batch B4H2127</b>									
<b>Blank (B4H2127-BLK1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Turbidity	< 0.10	0.10 NTU							
<b>LCS (B4H2127-BS1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Turbidity	39.1	0.10 NTU	40.0		98	90-110			
<b>General Parameters, Batch B4H2128</b>									
<b>Blank (B4H2128-BLK1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
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							
Conductivity (EC)	< 2.0	2.0 µS/cm							
<b>Blank (B4H2128-BLK2)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
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							
Conductivity (EC)	< 2.0	2.0 µS/cm							
<b>LCS (B4H2128-BS1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Alkalinity, Total (as CaCO3)	251	2.0 mg/L	250		100	94-108			
Conductivity (EC)	1000	2.0 µS/cm	1000		100	95-105			
<b>LCS (B4H2128-BS2)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Alkalinity, Total (as CaCO3)	251	2.0 mg/L	250		100	94-108			
Conductivity (EC)	1000	2.0 µS/cm	1000		100	95-105			
<b>Duplicate (B4H2128-DUP1)</b>			<b>Source: 24H0492-01</b>		Prepared: 2024-08-09, Analyzed: 2024-08-09				
Alkalinity, Total (as CaCO3)	139	2.0 mg/L		140			< 1		7
Bicarbonate (HCO3)	170	2.0 mg/L		170			< 1		7
Carbonate (CO3)	< 2.0	2.0 mg/L		< 2.0					7
Hydroxide (OH)	< 2.0	2.0 mg/L		< 2.0					7
Conductivity (EC)	370	2.0 µS/cm		368			< 1		3
pH	7.97	0.10 pH units		7.98			< 1		1.5
<b>Reference (B4H2128-SRM1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
pH	7.10	0.10 pH units	7.00		101	98-102			
<b>Reference (B4H2128-SRM2)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
pH	7.09	0.10 pH units	7.00		101	98-102			



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>General Parameters, Batch B4H2169</b>									
<b>Blank (B4H2169-BLK1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Nitritotriacetic Acid	< 0.20	0.20 mg/L							
<b>LCS (B4H2169-BS1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Nitritotriacetic Acid	1.02	0.20 mg/L	1.00		102	80-120			
<b>LCS Dup (B4H2169-BSD1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Nitritotriacetic Acid	1.00	0.20 mg/L	1.00		100	80-120	1	20	
<b>General Parameters, Batch B4H2170</b>									
<b>Blank (B4H2170-BLK1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	< 0.02	0.02 mg/L							
<b>Duplicate (B4H2170-DUP1)</b>			Source: 24H0492-01		Prepared: 2024-08-09, Analyzed: 2024-08-09				
Chlorine, Total	0.96	0.02 mg/L		0.95			1	10	
Chlorine, Free	0.80	0.02 mg/L		0.76			5	20	
<b>Reference (B4H2170-SRM1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
Chlorine, Total	1.54	0.02 mg/L	1.59		97	91.2-108.8			
Chlorine, Free	1.54	0.02 mg/L	1.59		97	91.2-108.8			
<b>Miscellaneous Herbicides, Batch B4H2352</b>									
<b>Blank (B4H2352-BLK1)</b>			Prepared: 2024-08-13, Analyzed: 2024-08-13						
Glyphosate	< 0.050	0.050 mg/L							
<b>LCS (B4H2352-BS1)</b>			Prepared: 2024-08-13, Analyzed: 2024-08-13						
Glyphosate	0.307	0.050 mg/L	0.248		124	70-130			
<b>LCS Dup (B4H2352-BSD1)</b>			Prepared: 2024-08-13, Analyzed: 2024-08-13						
Glyphosate	0.351	0.050 mg/L	0.248		142	70-130	13	20	SPK1
<b>Pesticides, Herbicides, and Fungicides, Batch B4H2078</b>									
<b>Blank (B4H2078-BLK1)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-16						
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							





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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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**Pesticides, Herbicides, and Fungicides, Batch B4H2078, Continued**

**Blank (B4H2078-BLK1), Continued**

Prepared: 2024-08-08, Analyzed: 2024-08-16

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	0.901	µg/L	1.00		90	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.756	µg/L	0.970		78	50-140			

**LCS (B4H2078-BS1)**

Prepared: 2024-08-08, Analyzed: 2024-08-15

Alachlor	0.875	0.100 µg/L	1.01		87	50-140			
Aldrin	0.799	0.006 µg/L	1.00		80	50-140			
Atrazine	0.848	0.100 µg/L	1.01		84	50-140			
Atrazine-desethyl	0.669	0.100 µg/L	1.01		66	50-140			
Azinphos-methyl	1.07	0.200 µg/L	0.992		108	50-140			
alpha-BHC	0.772	0.010 µg/L	1.00		77	50-140			
beta-BHC	1.28	0.050 µg/L	1.01		127	50-140			
delta-BHC	0.798	0.050 µg/L	1.00		80	50-140			
gamma-BHC (Lindane)	0.828	0.050 µg/L	1.00		83	50-140			
Bromacil	1.02	0.100 µg/L	1.00		102	50-140			
Bromoxynil	1.04	0.200 µg/L	1.01		103	50-140			
Butachlor	1.02	0.020 µg/L	1.00		102	50-140			
Captan	0.968	0.100 µg/L	0.998		97	50-140			
Chlordane (cis + trans)	1.62	0.050 µg/L	2.01		81	50-140			
Chlorothalonil	0.907	0.050 µg/L	0.989		92	50-140			
Chlorpyrifos	0.912	0.010 µg/L	1.00		91	50-140			
Cyanazine	1.03	0.100 µg/L	1.00		103	50-140			
DDT, Total	5.67	0.010 µg/L	6.03		94	50-140			
Deltamethrin	8.83	0.100 µg/L	10.0		88	50-140			
Diazinon	0.862	0.020 µg/L	1.02		84	50-140			



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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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**Pesticides, Herbicides, and Fungicides, Batch B4H2078, Continued**

**LCS (B4H2078-BS1), Continued**

Prepared: 2024-08-08, Analyzed: 2024-08-15

Dichlorvos	0.842	0.100 µg/L	1.02		83	50-140			
Diclofop-methyl	1.06	0.100 µg/L	1.00		106	50-140			
Dieldrin	1.00	0.010 µg/L	1.00		100	50-140			
Dimethoate	0.848	0.200 µg/L	1.01		84	50-140			
Disulfoton	0.725	0.100 µg/L	1.01		72	50-140			
Diuron	0.831	0.200 µg/L	1.01		82	50-140			
Endosulfan I + II	1.87	0.010 µg/L	2.01		93	50-140			
Endosulfan sulfate	1.15	0.050 µg/L	1.01		114	50-140			
Endrin	1.17	0.020 µg/L	1.01		116	50-140			
Endrin aldehyde	0.868	0.020 µg/L	1.00		87	50-140			
Endrin ketone	0.634	0.020 µg/L	1.01		63	50-140			
Fenchlorphos (Ronnel)	0.972	0.100 µg/L	1.01		96	50-140			
Heptachlor	0.959	0.010 µg/L	1.01		95	50-140			
Heptachlor epoxide	0.849	0.010 µg/L	1.01		84	50-140			
Linuron	0.949	0.050 µg/L	0.994		95	50-140			
Malathion	0.981	0.100 µg/L	0.998		98	50-140			
Methoxychlor	0.763	0.050 µg/L	1.01		76	50-140			
Methyl parathion	1.04	0.100 µg/L	0.998		105	50-140			
Metolachlor	0.994	0.100 µg/L	1.00		99	50-140			
Metribuzin	0.919	0.200 µg/L	1.00		92	50-140			
Parathion	1.28	0.100 µg/L	1.02		126	50-140			
Pentachloronitrobenzene	0.987	0.100 µg/L	0.989		100	50-140			
Permethrin	1.01	0.010 µg/L	1.06		95	50-140			
Phorate	0.782	0.100 µg/L	1.01		77	50-140			
Prometon	0.891	0.300 µg/L	1.00		89	50-140			
Prometryne	0.906	0.100 µg/L	1.00		91	50-140			
Simazine	0.848	0.200 µg/L	1.01		84	50-140			
Sulfotep	1.02	0.100 µg/L	0.972		105	50-140			
Tebuthiuron	1.04	0.200 µg/L	1.00		104	50-140			
Temephos (Abate)	7.82	0.500 µg/L	10.0		78	50-140			
Terbufos	0.877	0.100 µg/L	1.01		87	50-140			
Triallate	1.00	0.100 µg/L	1.04		96	50-140			
Trifluralin	1.10	0.200 µg/L	1.00		110	50-140			
Surrogate: Tributyl Phosphate	0.906	µg/L	1.00		91	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.675	µg/L	0.970		70	50-140			

**LCS Dup (B4H2078-BSD1)**

Prepared: 2024-08-08, Analyzed: 2024-08-15

Alachlor	0.922	0.100 µg/L	1.01		91	50-140	5	30	
Aldrin	0.825	0.006 µg/L	1.00		83	50-140	3	30	
Atrazine	0.876	0.100 µg/L	1.01		87	50-140	3	30	
Atrazine-desethyl	0.669	0.100 µg/L	1.01		66	50-140	< 1	30	
Azinphos-methyl	1.15	0.200 µg/L	0.992		116	50-140	7	30	
alpha-BHC	0.794	0.010 µg/L	1.00		79	50-140	3	30	
beta-BHC	1.29	0.050 µg/L	1.01		127	50-140	< 1	30	
delta-BHC	0.833	0.050 µg/L	1.00		83	50-140	4	30	
gamma-BHC (Lindane)	0.861	0.050 µg/L	1.00		86	50-140	4	30	
Bromacil	1.08	0.100 µg/L	1.00		108	50-140	6	30	
Bromoxynil	1.02	0.200 µg/L	1.01		101	50-140	2	30	
Butachlor	1.03	0.020 µg/L	1.00		103	50-140	< 1	30	
Captan	0.986	0.100 µg/L	0.998		99	50-140	2	30	
Chlordane (cis + trans)	1.57	0.050 µg/L	2.01		78	50-140	3	30	
Chlorothalonil	0.924	0.050 µg/L	0.989		93	50-140	2	30	
Chlorpyrifos	0.992	0.010 µg/L	1.00		99	50-140	8	30	
Cyanazine	1.06	0.100 µg/L	1.00		106	50-140	3	30	
DDT, Total	5.73	0.010 µg/L	6.03		95	50-140	1	30	
Deltamethrin	9.32	0.100 µg/L	10.0		93	50-140	5	30	



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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 B4H2078, Continued</b>									
<b>LCS Dup (B4H2078-BSD1), Continued</b>					Prepared: 2024-08-08, Analyzed: 2024-08-15				
Diazinon	0.893	0.020 µg/L	1.02		88	50-140	4	30	
Dichlorvos	0.868	0.100 µg/L	1.02		85	50-140	3	30	
Diclofop-methyl	1.08	0.100 µg/L	1.00		108	50-140	2	30	
Dieldrin	1.05	0.010 µg/L	1.00		105	50-140	5	30	
Dimethoate	0.880	0.200 µg/L	1.01		87	50-140	4	30	
Disulfoton	0.763	0.100 µg/L	1.01		76	50-140	5	30	
Diuron	0.825	0.200 µg/L	1.01		82	50-140	< 1	30	
Endosulfan I + II	1.95	0.010 µg/L	2.01		97	50-140	4	30	
Endosulfan sulfate	1.16	0.050 µg/L	1.01		115	50-140	< 1	30	
Endrin	1.26	0.020 µg/L	1.01		125	50-140	8	30	
Endrin aldehyde	0.883	0.020 µg/L	1.00		88	50-140	2	30	
Endrin ketone	0.668	0.020 µg/L	1.01		66	50-140	5	30	
Fenchlorphos (Ronnel)	1.01	0.100 µg/L	1.01		100	50-140	4	30	
Heptachlor	0.980	0.010 µg/L	1.01		97	50-140	2	30	
Heptachlor epoxide	0.824	0.010 µg/L	1.01		82	50-140	3	30	
Linuron	0.915	0.050 µg/L	0.994		92	50-140	4	30	
Malathion	0.990	0.100 µg/L	0.998		99	50-140	< 1	30	
Methoxychlor	0.805	0.050 µg/L	1.01		80	50-140	5	30	
Methyl parathion	1.12	0.100 µg/L	0.998		112	50-140	7	30	
Metolachlor	1.03	0.100 µg/L	1.00		103	50-140	4	30	
Metribuzin	0.945	0.200 µg/L	1.00		95	50-140	3	30	
Parathion	1.15	0.100 µg/L	1.02		113	50-140	11	30	
Pentachloronitrobenzene	1.02	0.100 µg/L	0.989		103	50-140	4	30	
Permethrin	1.07	0.010 µg/L	1.06		101	50-140	6	30	
Phorate	0.808	0.100 µg/L	1.01		80	50-140	3	30	
Prometon	0.924	0.300 µg/L	1.00		92	50-140	4	30	
Prometryne	0.932	0.100 µg/L	1.00		93	50-140	3	30	
Simazine	0.865	0.200 µg/L	1.01		86	50-140	2	30	
Sulfotep	1.01	0.100 µg/L	0.972		104	50-140	< 1	30	
Tebuthiuron	1.09	0.200 µg/L	1.00		109	50-140	5	30	
Temephos (Abate)	8.04	0.500 µg/L	10.0		80	50-140	3	30	
Terbufos	0.912	0.100 µg/L	1.01		90	50-140	4	30	
Triallate	1.01	0.100 µg/L	1.04		97	50-140	< 1	30	
Trifluralin	1.11	0.200 µg/L	1.00		111	50-140	1	30	
Surrogate: Tributyl Phosphate	0.914	µg/L	1.00		91	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.716	µg/L	0.970		74	50-140			

### Polycyclic Aromatic Hydrocarbons (PAH), Batch B4H1958

<b>Blank (B4H1958-BLK1)</b>			Prepared: 2024-08-09, Analyzed: 2024-08-09						
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	< 0.010	0.010 µg/L							
Benzo(a)pyrene	< 0.010	0.010 µg/L							
Benzo(b+j)fluoranthene	< 0.050	0.050 µg/L							
Benzo(g,h,i)perylene	< 0.050	0.050 µg/L							
Benzo(k)fluoranthene	< 0.050	0.050 µg/L							
2-Chloronaphthalene	< 0.100	0.100 µg/L							
Chrysene	< 0.050	0.050 µg/L							
Dibenz(a,h)anthracene	< 0.010	0.010 µg/L							
Fluoranthene	< 0.030	0.030 µg/L							
Fluorene	< 0.050	0.050 µg/L							
Indeno(1,2,3-cd)pyrene	< 0.050	0.050 µg/L							
1-Methylnaphthalene	< 0.100	0.100 µg/L							



## APPENDIX 2: QUALITY CONTROL RESULTS

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**WORK ORDER REPORTED** 24H0492  
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Polycyclic Aromatic Hydrocarbons (PAH), Batch B4H1958, Continued</b>									
<b>Blank (B4H1958-BLK1), Continued</b>					Prepared: 2024-08-09, Analyzed: 2024-08-09				
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: Naphthalene-d8	19.8	µg/L	20.0		99	50-140			
Surrogate: Perylene-d12	23.9	µg/L	20.0		119	50-140			
<b>LCS (B4H1958-BS2)</b>					Prepared: 2024-08-09, Analyzed: 2024-08-09				
Acenaphthene	21.0	0.050 µg/L	20.0		105	50-140			
Acenaphthylene	21.6	0.200 µg/L	20.0		108	50-140			
Acridine	17.6	0.050 µg/L	19.3		91	50-140			
Anthracene	21.7	0.010 µg/L	20.0		108	50-140			
Benz(a)anthracene	23.9	0.010 µg/L	20.0		119	50-140			
Benzo(a)pyrene	26.4	0.010 µg/L	20.0		132	50-140			
Benzo(b+j)fluoranthene	47.7	0.050 µg/L	40.0		119	50-140			
Benzo(g,h,i)perylene	26.3	0.050 µg/L	20.0		131	50-140			
Benzo(k)fluoranthene	21.4	0.050 µg/L	20.0		107	50-140			
2-Chloronaphthalene	23.1	0.100 µg/L	20.4		113	50-140			
Chrysene	25.6	0.050 µg/L	20.0		128	50-140			
Dibenz(a,h)anthracene	27.5	0.010 µg/L	20.0		137	50-140			
Fluoranthene	24.8	0.030 µg/L	20.0		124	50-140			
Fluorene	21.9	0.050 µg/L	20.0		110	50-140			
Indeno(1,2,3-cd)pyrene	25.9	0.050 µg/L	20.0		130	50-140			
1-Methylnaphthalene	20.7	0.100 µg/L	20.0		103	50-140			
2-Methylnaphthalene	20.6	0.100 µg/L	20.0		103	50-140			
Naphthalene	20.3	0.200 µg/L	20.0		101	50-140			
Phenanthrene	22.6	0.100 µg/L	20.0		113	50-140			
Pyrene	23.9	0.020 µg/L	20.0		120	50-140			
Quinoline	19.5	0.050 µg/L	20.2		96	50-140			
Surrogate: Naphthalene-d8	17.0	µg/L	20.0		85	50-140			
Surrogate: Perylene-d12	19.7	µg/L	20.0		99	50-140			
<b>LCS Dup (B4H1958-BSD2)</b>					Prepared: 2024-08-09, Analyzed: 2024-08-09				
Acenaphthene	21.0	0.050 µg/L	20.0		105	50-140	< 1	30	
Acenaphthylene	20.8	0.200 µg/L	20.0		104	50-140	4	30	
Acridine	16.8	0.050 µg/L	19.3		87	50-140	5	30	
Anthracene	22.7	0.010 µg/L	20.0		114	50-140	5	30	
Benz(a)anthracene	21.5	0.010 µg/L	20.0		107	50-140	11	30	
Benzo(a)pyrene	27.2	0.010 µg/L	20.0		136	50-140	3	30	
Benzo(b+j)fluoranthene	48.2	0.050 µg/L	40.0		121	50-140	1	30	
Benzo(g,h,i)perylene	25.1	0.050 µg/L	20.0		126	50-140	4	30	
Benzo(k)fluoranthene	21.7	0.050 µg/L	20.0		108	50-140	1	30	
2-Chloronaphthalene	22.6	0.100 µg/L	20.4		111	50-140	2	30	
Chrysene	23.0	0.050 µg/L	20.0		115	50-140	11	30	
Dibenz(a,h)anthracene	27.0	0.010 µg/L	20.0		135	50-140	2	30	
Fluoranthene	24.6	0.030 µg/L	20.0		123	50-140	< 1	30	
Fluorene	20.4	0.050 µg/L	20.0		102	50-140	7	30	
Indeno(1,2,3-cd)pyrene	25.6	0.050 µg/L	20.0		128	50-140	1	30	
1-Methylnaphthalene	20.7	0.100 µg/L	20.0		103	50-140	< 1	30	
2-Methylnaphthalene	20.2	0.100 µg/L	20.0		101	50-140	2	30	
Naphthalene	19.8	0.200 µg/L	20.0		99	50-140	2	30	
Phenanthrene	23.4	0.100 µg/L	20.0		117	50-140	3	30	
Pyrene	23.4	0.020 µg/L	20.0		117	50-140	2	30	
Quinoline	16.2	0.050 µg/L	20.2		80	50-140	18	30	
Surrogate: Naphthalene-d8	17.1	µg/L	20.0		85	50-140			



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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 B4H1958, Continued**

**LCS Dup (B4H1958-BSD2), Continued**

Prepared: 2024-08-09, Analyzed: 2024-08-09

Surrogate: Perylene-d12	21.6	µg/L	20.0		108	50-140			
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**Total Metals, Batch B4H1897**

**Blank (B4H1897-BLK1)**

Prepared: 2024-08-07, Analyzed: 2024-08-07

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							

**LCS (B4H1897-BS1)**

Prepared: 2024-08-07, Analyzed: 2024-08-07

Aluminum, total	3.87	0.0050 mg/L	4.00		97	80-120			
Antimony, total	0.0383	0.00020 mg/L	0.0400		96	80-120			
Arsenic, total	0.388	0.00050 mg/L	0.400		97	80-120			
Barium, total	0.0380	0.0050 mg/L	0.0400		95	80-120			
Boron, total	0.405	0.0500 mg/L	0.400		101	80-120			
Cadmium, total	0.0388	0.000010 mg/L	0.0400		97	80-120			
Calcium, total	3.93	0.20 mg/L	4.00		98	80-120			
Chromium, total	0.0393	0.00050 mg/L	0.0400		98	80-120			
Copper, total	0.0387	0.00040 mg/L	0.0400		97	80-120			
Iron, total	3.92	0.010 mg/L	4.00		98	80-120			
Lead, total	0.0401	0.00020 mg/L	0.0400		100	80-120			
Magnesium, total	3.87	0.010 mg/L	4.00		97	80-120			
Manganese, total	0.0391	0.00020 mg/L	0.0400		98	80-120			
Potassium, total	3.85	0.10 mg/L	4.00		96	80-120			
Selenium, total	0.394	0.00050 mg/L	0.400		98	80-120			
Silver, total	0.0389	0.000050 mg/L	0.0400		97	80-120			
Sodium, total	3.85	0.10 mg/L	4.00		96	80-120			
Strontium, total	0.0391	0.0010 mg/L	0.0400		98	80-120			
Uranium, total	0.0413	0.000020 mg/L	0.0400		103	80-120			
Zinc, total	0.387	0.0040 mg/L	0.400		97	80-120			

**Total Metals, Batch B4H1993**

**Blank (B4H1993-BLK1)**

Prepared: 2024-08-08, Analyzed: 2024-08-08

Mercury, total	< 0.000010	0.000010 mg/L							
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**Blank (B4H1993-BLK2)**

Prepared: 2024-08-08, Analyzed: 2024-08-08

Mercury, total	< 0.000010	0.000010 mg/L							
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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
<b>Total Metals, Batch B4H1993, Continued</b>									
<b>Blank (B4H1993-BLK3)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
Mercury, total	< 0.000010	0.000010 mg/L							
<b>Blank (B4H1993-BLK4)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
Mercury, total	< 0.000010	0.000010 mg/L							
<b>LCS (B4H1993-BS1)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
Mercury, total	0.00251	0.000010 mg/L	0.00250		100	80-120			
<b>LCS (B4H1993-BS2)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
Mercury, total	0.00242	0.000010 mg/L	0.00250		97	80-120			
<b>LCS (B4H1993-BS3)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
Mercury, total	0.00257	0.000010 mg/L	0.00250		103	80-120			
<b>LCS (B4H1993-BS4)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
Mercury, total	0.00245	0.000010 mg/L	0.00250		98	80-120			
<b>Volatile Organic Compounds (VOC), Batch B4H1955</b>									
<b>Blank (B4H1955-BLK1)</b>			Prepared: 2024-08-08, Analyzed: 2024-08-08						
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	< 0.5	0.5 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	21.1	µg/L	18.8		112	70-130			
Surrogate: 4-Bromofluorobenzene	24.3	µg/L	19.9		122	70-130			





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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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**Volatile Organic Compounds (VOC), Batch B4H1955, Continued**

<b>LCS (B4H1955-BS1)</b>				Prepared: 2024-08-08, Analyzed: 2024-08-08					
Benzene	21.2	0.5 µg/L	20.1	105	70-130				
Bromodichloromethane	15.3	1.0 µg/L	20.1	76	70-130				
Bromoform	16.0	1.0 µg/L	20.1	80	70-130				
Carbon tetrachloride	14.5	0.5 µg/L	20.1	72	70-130				
Chlorobenzene	20.8	1.0 µg/L	20.1	103	70-130				
Chloroethane	13.4	2.0 µg/L	20.1	67	60-140				
Chloroform	16.3	1.0 µg/L	20.1	81	70-130				
Dibromochloromethane	15.5	1.0 µg/L	20.1	77	70-130				
1,2-Dibromoethane	18.2	0.3 µg/L	20.1	91	70-130				
Dibromomethane	18.0	1.0 µg/L	20.1	90	70-130				
1,2-Dichlorobenzene	21.1	0.5 µg/L	20.1	105	70-130				
1,3-Dichlorobenzene	20.3	1.0 µg/L	20.1	101	70-130				
1,4-Dichlorobenzene	21.0	1.0 µg/L	20.1	105	70-130				
1,1-Dichloroethane	18.0	1.0 µg/L	20.1	90	70-130				
1,2-Dichloroethane	14.6	1.0 µg/L	20.1	73	70-130				
1,1-Dichloroethylene	15.6	1.0 µg/L	20.1	78	70-130				
cis-1,2-Dichloroethylene	19.1	1.0 µg/L	20.1	95	70-130				
trans-1,2-Dichloroethylene	14.7	1.0 µg/L	20.1	73	70-130				
Dichloromethane	21.3	3.0 µg/L	20.1	106	70-130				
1,2-Dichloropropane	20.8	1.0 µg/L	20.1	103	70-130				
1,3-Dichloropropene (cis + trans)	37.9	1.0 µg/L	40.0	95	70-130				
Ethylbenzene	21.9	1.0 µg/L	20.1	109	70-130				
Methyl tert-butyl ether	15.7	1.0 µg/L	20.0	79	70-130				
Styrene	23.1	1.0 µg/L	20.1	115	70-130				
1,1,2,2-Tetrachloroethane	23.3	0.5 µg/L	20.1	116	70-130				
Tetrachloroethylene	18.7	1.0 µg/L	20.1	93	70-130				
Toluene	22.1	0.5 µg/L	20.1	110	70-130				
1,1,1-Trichloroethane	16.6	1.0 µg/L	20.1	83	70-130				
1,1,2-Trichloroethane	18.0	1.0 µg/L	20.1	89	70-130				
Trichloroethylene	19.0	1.0 µg/L	20.1	94	70-130				
Trichlorofluoromethane	13.6	1.0 µg/L	20.1	68	60-140				
Vinyl chloride	15.5	1.0 µg/L	20.1	77	60-140				
Xylenes (total)	70.2	2.0 µg/L	60.3	116	70-130				
Surrogate: Toluene-d8	15.6	µg/L	18.8	83	70-130				
Surrogate: 4-Bromofluorobenzene	19.0	µg/L	19.9	95	70-130				

<b>Duplicate (B4H1955-DUP1)</b>		Source: 24H0492-01		Prepared: 2024-08-08, Analyzed: 2024-08-08					
Benzene	< 0.5	0.5 µg/L	< 0.5						30
Bromodichloromethane	1.2	1.0 µg/L	1.3						30
Bromoform	< 1.0	1.0 µg/L	< 1.0						30
Carbon tetrachloride	< 0.5	0.5 µg/L	< 0.5						30
Chlorobenzene	< 1.0	1.0 µg/L	< 1.0						30
Chloroethane	< 2.0	2.0 µg/L	< 2.0						30
Chloroform	66.2	1.0 µg/L	67.8				2		30
Dibromochloromethane	< 1.0	1.0 µg/L	< 1.0						30
1,2-Dibromoethane	< 0.3	0.3 µg/L	< 0.3						30
Dibromomethane	< 1.0	1.0 µg/L	< 1.0						30
1,2-Dichlorobenzene	< 0.5	0.5 µg/L	< 0.5						30
1,3-Dichlorobenzene	< 1.0	1.0 µg/L	< 1.0						30
1,4-Dichlorobenzene	< 1.0	1.0 µg/L	< 1.0						30
1,1-Dichloroethane	< 1.0	1.0 µg/L	< 1.0						30
1,2-Dichloroethane	< 1.0	1.0 µg/L	< 1.0						30
1,1-Dichloroethylene	< 1.0	1.0 µg/L	< 1.0						30
cis-1,2-Dichloroethylene	< 1.0	1.0 µg/L	< 1.0						30
trans-1,2-Dichloroethylene	< 1.0	1.0 µg/L	< 1.0						30
Dichloromethane	< 3.0	3.0 µg/L	< 3.0						30





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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 B4H1955, Continued</b>									
<b>Duplicate (B4H1955-DUP1), Continued</b>		<b>Source: 24H0492-01</b>		<b>Prepared: 2024-08-08, Analyzed: 2024-08-08</b>					
1,2-Dichloropropane	< 1.0	1.0 µg/L		< 1.0				30	
1,3-Dichloropropene (cis + trans)	< 1.0	1.0 µg/L		< 1.0				30	
Ethylbenzene	< 1.0	1.0 µg/L		< 1.0				30	
Methyl tert-butyl ether	< 1.0	1.0 µg/L		< 1.0				30	
Styrene	< 1.0	1.0 µg/L		< 1.0				30	
1,1,2,2-Tetrachloroethane	< 0.5	0.5 µg/L		< 0.5				30	
Tetrachloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
Toluene	< 0.5	0.5 µg/L		< 0.5				30	
1,1,1-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				30	
1,1,2-Trichloroethane	< 1.0	1.0 µg/L		< 1.0				30	
Trichloroethylene	< 1.0	1.0 µg/L		< 1.0				30	
Trichlorofluoromethane	< 1.0	1.0 µg/L		< 1.0				30	
Vinyl chloride	< 1.0	1.0 µg/L		< 1.0				30	
Xylenes (total)	< 2.0	2.0 µg/L		< 2.0				30	
Surrogate: Toluene-d8	19.6	µg/L	18.8		104	70-130			
Surrogate: 4-Bromofluorobenzene	23.0	µg/L	19.9		116	70-130			
<b>Matrix Spike (B4H1955-MS1)</b>		<b>Source: 24H0492-01</b>		<b>Prepared: 2024-08-08, Analyzed: 2024-08-09</b>					
Benzene	19.1	0.5 µg/L	20.1	< 0.5	95	70-130			
Bromodichloromethane	15.2	1.0 µg/L	20.1	1.3	69	70-130			MS1
Bromoform	12.6	1.0 µg/L	20.1	< 1.0	63	70-130			MS1
Carbon tetrachloride	14.5	0.5 µg/L	20.1	< 0.5	72	70-130			
Chlorobenzene	19.2	1.0 µg/L	20.1	< 1.0	95	70-130			
Chloroethane	12.4	2.0 µg/L	20.1	< 2.0	61	60-140			
Chloroform	81.3	1.0 µg/L	20.1	67.8	67	70-130			MS1
Dibromochloromethane	13.6	1.0 µg/L	20.1	< 1.0	68	70-130			MS1
1,2-Dibromoethane	16.4	0.3 µg/L	20.1	< 0.3	82	70-130			
Dibromomethane	17.2	1.0 µg/L	20.1	< 1.0	85	70-130			
1,2-Dichlorobenzene	19.5	0.5 µg/L	20.1	< 0.5	97	70-130			
1,3-Dichlorobenzene	18.8	1.0 µg/L	20.1	< 1.0	93	70-130			
1,4-Dichlorobenzene	19.1	1.0 µg/L	20.1	< 1.0	95	70-130			
1,1-Dichloroethane	16.8	1.0 µg/L	20.1	< 1.0	84	70-130			
1,2-Dichloroethane	15.0	1.0 µg/L	20.1	< 1.0	75	70-130			
1,1-Dichloroethylene	17.1	1.0 µg/L	20.1	< 1.0	85	70-130			
cis-1,2-Dichloroethylene	17.0	1.0 µg/L	20.1	< 1.0	85	70-130			
trans-1,2-Dichloroethylene	18.1	1.0 µg/L	20.1	< 1.0	90	70-130			
Dichloromethane	15.4	3.0 µg/L	20.1	< 3.0	76	70-130			
1,2-Dichloropropane	18.6	1.0 µg/L	20.1	< 1.0	93	70-130			
1,3-Dichloropropene (cis + trans)	29.2	1.0 µg/L	40.0	< 1.0	73	70-130			
Ethylbenzene	19.5	1.0 µg/L	20.1	< 1.0	96	70-130			
Methyl tert-butyl ether	15.1	1.0 µg/L	20.0	< 1.0	75	70-130			
Styrene	19.9	1.0 µg/L	20.1	< 1.0	99	70-130			
1,1,2,2-Tetrachloroethane	21.2	0.5 µg/L	20.1	< 0.5	106	70-130			
Tetrachloroethylene	17.9	1.0 µg/L	20.1	< 1.0	89	70-130			
Toluene	19.7	0.5 µg/L	20.1	< 0.5	98	70-130			
1,1,1-Trichloroethane	16.4	1.0 µg/L	20.1	< 1.0	82	70-130			
1,1,2-Trichloroethane	17.6	1.0 µg/L	20.1	< 1.0	87	70-130			
Trichloroethylene	18.3	1.0 µg/L	20.1	< 1.0	91	70-130			
Trichlorofluoromethane	13.7	1.0 µg/L	20.1	< 1.0	68	60-140			
Vinyl chloride	14.5	1.0 µg/L	20.1	< 1.0	72	60-140			
Xylenes (total)	63.6	2.0 µg/L	60.3	< 2.0	103	70-130			
Surrogate: Toluene-d8	14.2	µg/L	18.8		75	70-130			
Surrogate: 4-Bromofluorobenzene	18.0	µg/L	19.9		91	70-130			



## APPENDIX 2: QUALITY CONTROL RESULTS

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

**WORK ORDER** 24H0492  
**REPORTED** 2024-08-21 11:57

**QC Qualifiers:**

- C4 The sample extract has undergone SPE cleanup (UCT Enviroclean) to reduce matrix interference.
- MS1 The matrix spike recovery was outside of control limits due to a matrix effect and/or interference.
- S02 Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.
- SPK1 The recovery of this analyte was outside of established control limits. The data was accepted based on performance of other batch QC.