



CERTIFICATE OF ANALYSIS

REPORTED TO	Mountainview Regional Water Services Commission 35566 Rge Rd 10 Red Deer County, AB T4G 0H5	WORK ORDER	22H2233
ATTENTION	Wesley Olstad	RECEIVED / TEMP REPORTED	2022-08-16 09:30 / 20.4°C
PO NUMBER		REPORTED	2022-08-30 14:25
PROJECT	Schedule 4 - Code of Practice	COC NUMBER	14367
PROJECT INFO			

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.

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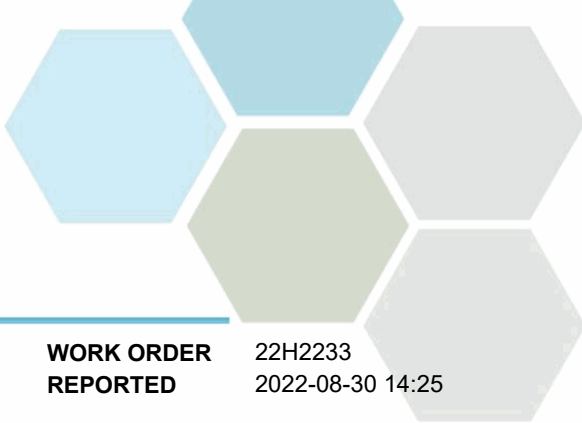
If you have any questions or concerns, please contact me at rpschyk@caro.ca

Authorized By:

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TEST RESULTS

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

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Treated (22H2233-01) | Matrix: Water | Sampled: 2022-08-15

Acid Herbicides

2,4-D	< 0.10	MAC = 100	0.10	µg/L	2022-08-24	
MCPA	< 0.02	MAC = 100	0.02	µg/L	2022-08-24	
2,4,5-T	< 0.10	N/A	0.10	µg/L	2022-08-24	
Dicamba	< 0.10	MAC = 120	0.10	µg/L	2022-08-24	
Picloram	< 0.10	MAC = 190	0.10	µg/L	2022-08-24	
Dinoseb	< 0.10	N/A	0.10	µg/L	2022-08-24	

Anions

Bromate	< 0.010	MAC = 0.01	0.010	mg/L	2022-08-23	
Chloride	9.02	AO ≤ 250	0.50	mg/L	2022-08-23	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2022-08-23	
Nitrate (as N)	< 0.050	MAC = 10	0.050	mg/L	2022-08-23	HT1
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2022-08-23	HT1
Sulfate	35.0	AO ≤ 500	1.0	mg/L	2022-08-23	

Calculated Parameters

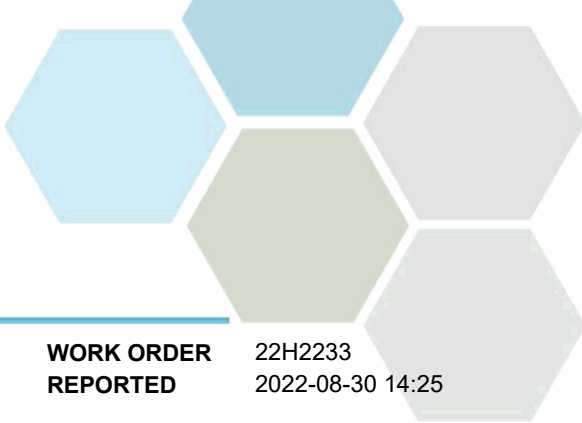
Chloramines	0.110	MAC = 3	0.0400	mg/L	N/A	
Total Trihalomethanes	0.128	MAC = 0.1	0.0130	mg/L	N/A	
Hardness, Total (as CaCO3)	190	None Required	0.541	mg/L	N/A	
Solids, Total Dissolved	211	AO ≤ 500	3.35	mg/L	N/A	

Chlorinated Phenols

2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2022-08-19	
3 & 4-Chlorophenol	< 2.80	N/A	0.10	µg/L	2022-08-19	RA1
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2022-08-19	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20	µg/L	2022-08-19	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2022-08-19	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2022-08-19	
3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2022-08-19	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50	µg/L	2022-08-19	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2022-08-19	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50	µg/L	2022-08-19	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50	µg/L	2022-08-19	
Surrogate: 2,4-Dibromophenol	91		60-130	%	2022-08-19	
Surrogate: 2,4,6-Tribromophenol	85		60-130	%	2022-08-19	

General Parameters

Alkalinity, Total (as CaCO3)	151	N/A	2.0	mg/L	2022-08-18	
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TEST RESULTS

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Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
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Treated (22H2233-01) | Matrix: Water | Sampled: 2022-08-15, Continued

General Parameters, Continued

Bicarbonate (HCO ₃)	185	N/A	2.0 mg/L	2022-08-18	
Carbonate (CO ₃)	< 2.0	N/A	2.0 mg/L	2022-08-18	
Hydroxide (OH)	< 2.0	N/A	2.0 mg/L	2022-08-18	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2022-08-23	
Carbon, Total Organic	3.50	N/A	0.50 mg/L	2022-08-19	
Chlorine, Total	1.15	None Required	0.02 mg/L	2022-08-17	HT2
Chlorine, Free	1.04	N/A	0.02 mg/L	2022-08-17	HT2
Colour, True	< 5.0	AO ≤ 15	5.0 CU	2022-08-18	
Conductivity (EC)	379	N/A	2.0 µS/cm	2022-08-22	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2022-08-18	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20 mg/L	2022-08-19	
pH	7.60	7.0-10.5	0.10 pH units	2022-08-18	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020 mg/L	2022-08-17	
Turbidity	0.16	OG < 1	0.10 NTU	2022-08-18	

Haloacetic Acids

Monochloroacetic Acid	< 0.0020	N/A	0.0020 mg/L	2022-08-20	
Monobromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2022-08-20	
Dichloroacetic Acid	0.0593	N/A	0.0020 mg/L	2022-08-20	
Trichloroacetic Acid	0.0621	N/A	0.0020 mg/L	2022-08-20	
Dibromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2022-08-20	
Total Haloacetic Acids (HAA5)	0.121	MAC = 0.08	0.00200 mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	99		70-130 %	2022-08-20	

Microbiological Parameters

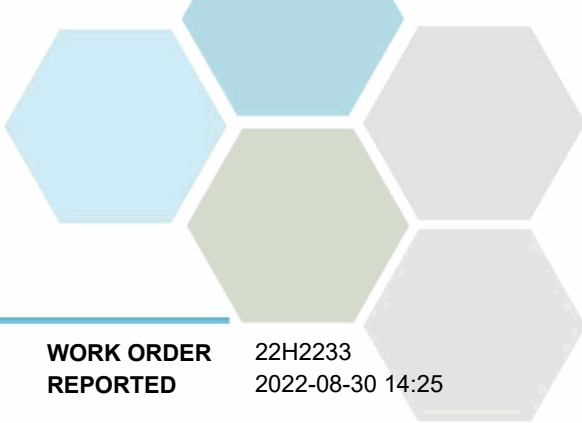
Microcystin, total	< 0.05	MAC = 1.5	0.05 µg/L	2022-08-25	
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Miscellaneous Herbicides

Glyphosate	< 0.050	MAC = 0.28	0.050 mg/L	2022-08-27	
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Pesticides, Herbicides, and Fungicides

Alachlor	< 0.100	N/A	0.100 µg/L	2022-08-20	
Aldrin	< 0.006	N/A	0.006 µg/L	2022-08-20	
Atrazine and metabolites	< 0.100	MAC = 5	0.100 µg/L	2022-08-20	
Azinphos-methyl	< 0.200	MAC = 20	0.200 µg/L	2022-08-20	
alpha-BHC	< 0.010	N/A	0.010 µg/L	2022-08-20	
beta-BHC	< 0.050	N/A	0.050 µg/L	2022-08-20	
delta-BHC	< 0.050	N/A	0.050 µg/L	2022-08-20	
gamma-BHC (Lindane)	< 0.050	N/A	0.050 µg/L	2022-08-20	
Bromacil	< 0.100	N/A	0.100 µg/L	2022-08-20	
Bromoxynil	< 0.200	MAC = 5	0.200 µg/L	2022-08-20	
Butachlor	< 0.020	N/A	0.020 µg/L	2022-08-20	
Captan	< 0.100	N/A	0.100 µg/L	2022-08-20	
Chlordane (cis + trans)	< 0.050	N/A	0.050 µg/L	2022-08-20	



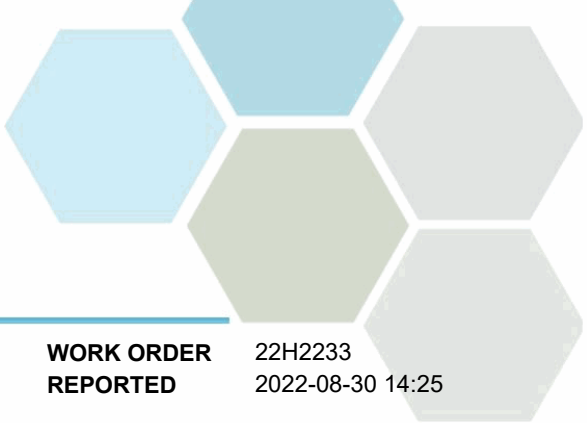
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Treated (22H2233-01) Matrix: Water Sampled: 2022-08-15, Continued						
<i>Pesticides, Herbicides, and Fungicides, Continued</i>						
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2022-08-20	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2022-08-20	
Cyanazine	< 0.100	N/A	0.100	µg/L	2022-08-20	
DDT, Total	< 0.010	N/A	0.010	µg/L	2022-08-20	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2022-08-20	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2022-08-20	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2022-08-20	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2022-08-20	
Dieldrin	< 0.010	N/A	0.010	µg/L	2022-08-20	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2022-08-20	
Disulfoton	< 0.100	N/A	0.100	µg/L	2022-08-20	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2022-08-20	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2022-08-20	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2022-08-20	
Endrin	< 0.020	N/A	0.020	µg/L	2022-08-20	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2022-08-20	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2022-08-20	
Fenchlorphos (Ronnell)	< 0.100	N/A	0.100	µg/L	2022-08-20	
Heptachlor	< 0.010	N/A	0.010	µg/L	2022-08-20	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2022-08-20	
Linuron	< 0.050	N/A	0.050	µg/L	2022-08-20	
Malathion	< 0.100	MAC = 190	0.100	µg/L	2022-08-20	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2022-08-20	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2022-08-20	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2022-08-20	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2022-08-20	
Parathion	< 0.100	N/A	0.100	µg/L	2022-08-20	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2022-08-20	
Permethrin	< 0.010	N/A	0.010	µg/L	2022-08-20	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2022-08-20	
Prometon	< 0.300	N/A	0.300	µg/L	2022-08-20	
Prometryne	< 0.100	N/A	0.100	µg/L	2022-08-20	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2022-08-20	
Sulfotep	< 0.100	N/A	0.100	µg/L	2022-08-20	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2022-08-20	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2022-08-20	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2022-08-20	
Triallate	< 0.100	N/A	0.100	µg/L	2022-08-20	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2022-08-20	
Surrogate: Tributyl Phosphate	72		50-140	%	2022-08-20	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	71		50-140	%	2022-08-20	

Polycyclic Aromatic Hydrocarbons (PAH)



TEST RESULTS

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2022-08-30 14:25

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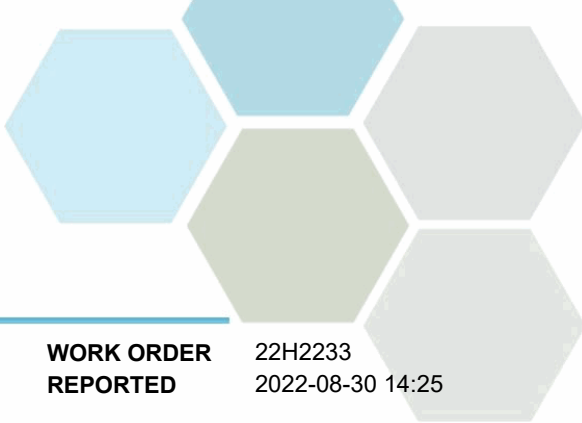
Treated (22H2233-01) | Matrix: Water | Sampled: 2022-08-15, Continued

Polycyclic Aromatic Hydrocarbons (PAH), Continued

Acenaphthene	< 0.050	N/A	0.050	µg/L	2022-08-19	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2022-08-19	
Anthracene	< 0.010	N/A	0.010	µg/L	2022-08-19	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2022-08-19	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2022-08-19	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2022-08-19	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2022-08-19	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2022-08-19	
2-Chloronaphthalene	0.471	N/A	0.100	µg/L	2022-08-19	
Chrysene	< 0.050	N/A	0.050	µg/L	2022-08-19	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2022-08-19	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2022-08-19	
Fluorene	< 0.050	N/A	0.050	µg/L	2022-08-19	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2022-08-19	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2022-08-19	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2022-08-19	
Naphthalene	< 0.200	N/A	0.200	µg/L	2022-08-19	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2022-08-19	
Pyrene	< 0.020	N/A	0.020	µg/L	2022-08-19	
Quinoline	< 0.050	N/A	0.050	µg/L	2022-08-19	
Surrogate: Naphthalene-d8	93		50-140	%	2022-08-19	
Surrogate: Perylene-d12	74		50-140	%	2022-08-19	

Total Metals

Aluminum, total	0.0471	OG < 0.1	0.0050	mg/L	2022-08-21	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2022-08-21	
Arsenic, total	0.00053	MAC = 0.01	0.00050	mg/L	2022-08-21	
Barium, total	0.107	MAC = 2	0.0050	mg/L	2022-08-21	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-08-21	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2022-08-21	
Calcium, total	50.4	None Required	0.20	mg/L	2022-08-21	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-21	
Copper, total	0.00097	MAC = 2	0.00040	mg/L	2022-08-21	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2022-08-21	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-08-21	
Magnesium, total	15.6	None Required	0.010	mg/L	2022-08-21	
Manganese, total	0.00477	MAC = 0.12	0.00020	mg/L	2022-08-21	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2022-08-18	
Potassium, total	1.50	N/A	0.10	mg/L	2022-08-21	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-21	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2022-08-21	
Sodium, total	6.83	AO ≤ 200	0.10	mg/L	2022-08-21	
Strontium, total	0.314	MAC = 7	0.0010	mg/L	2022-08-21	



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Treated (22H2233-01) | Matrix: Water | Sampled: 2022-08-15, Continued

Total Metals, Continued

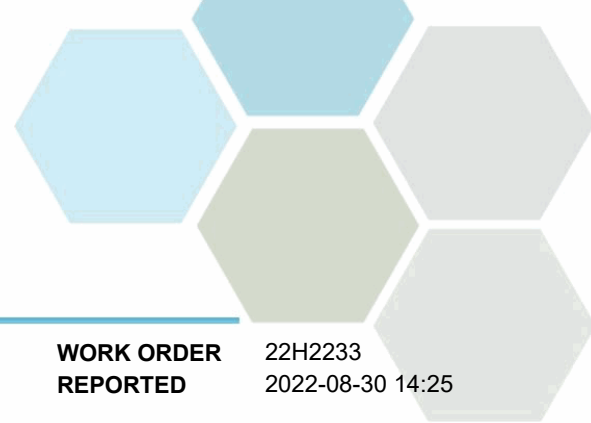
Uranium, total	0.000174	MAC = 0.02	0.000020	mg/L	2022-08-21	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2022-08-21	

Volatile Organic Compounds (VOC)

Benzene	< 0.5	MAC = 5	0.5	µg/L	2022-08-18	
Bromodichloromethane	2.8	N/A	1.0	µg/L	2022-08-18	
Bromoform	< 1.0	N/A	1.0	µg/L	2022-08-18	
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2022-08-18	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2022-08-18	
Chloroethane	< 2.0	N/A	2.0	µg/L	2022-08-18	
Chloroform	125	N/A	1.0	µg/L	2022-08-18	
Dibromochloromethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2022-08-18	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5	µg/L	2022-08-18	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2022-08-18	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2022-08-18	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0	µg/L	2022-08-18	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2022-08-18	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2022-08-18	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2022-08-18	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2022-08-18	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2022-08-18	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2022-08-18	
Styrene	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,1,1,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2022-08-18	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2022-08-18	
Toluene	< 1.0	MAC = 60	1.0	µg/L	2022-08-18	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2022-08-18	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2022-08-18	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2022-08-18	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2022-08-18	
Surrogate: Toluene-d8	101		70-130	%	2022-08-18	
Surrogate: 4-Bromofluorobenzene	103		70-130	%	2022-08-18	

MPR-In (22H2233-02) | Matrix: Water | Sampled: 2022-08-15

Calculated Parameters



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MPR-In (22H2233-02) | Matrix: Water | Sampled: 2022-08-15, Continued

Calculated Parameters, Continued

Total Trihalomethanes	0.102	MAC = 0.1	0.0130	mg/L		N/A
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L		2022-08-20
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L		2022-08-20
Dichloroacetic Acid	0.0466	N/A	0.0020	mg/L		2022-08-20
Trichloroacetic Acid	0.0571	N/A	0.0020	mg/L		2022-08-20
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L		2022-08-20
Total Haloacetic Acids (HAA5)	0.104	MAC = 0.08	0.00200	mg/L		N/A
Surrogate: 2-Bromopropionic Acid	106		70-130	%		2022-08-20

Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0027	N/A	0.0010	mg/L		2022-08-18
Bromoform	< 0.0010	N/A	0.0010	mg/L		2022-08-18
Chloroform	0.0993	N/A	0.0010	mg/L		2022-08-18
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L		2022-08-18
Surrogate: Toluene-d8	103		70-130	%		2022-08-18
Surrogate: 4-Bromofluorobenzene	105		70-130	%		2022-08-18

MPR-Out (22H2233-03) | Matrix: Water | Sampled: 2022-08-15

Calculated Parameters

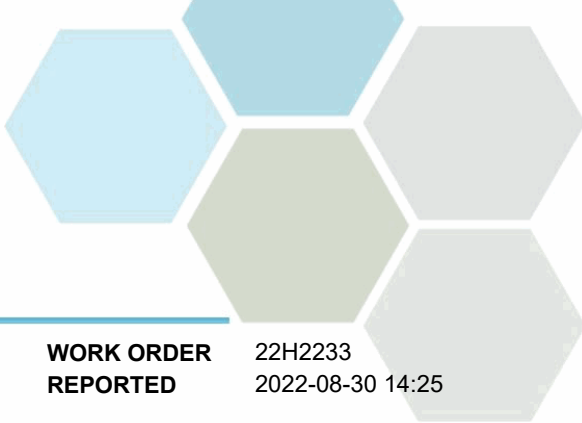
Total Trihalomethanes	0.124	MAC = 0.1	0.0130	mg/L		N/A
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L		2022-08-20
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L		2022-08-20
Dichloroacetic Acid	0.0570	N/A	0.0020	mg/L		2022-08-20
Trichloroacetic Acid	0.0613	N/A	0.0020	mg/L		2022-08-20
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L		2022-08-20
Total Haloacetic Acids (HAA5)	0.118	MAC = 0.08	0.00200	mg/L		N/A
Surrogate: 2-Bromopropionic Acid	107		70-130	%		2022-08-20

Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0029	N/A	0.0010	mg/L		2022-08-18
Bromoform	< 0.0010	N/A	0.0010	mg/L		2022-08-18
Chloroform	0.121	N/A	0.0010	mg/L		2022-08-18
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L		2022-08-18
Surrogate: Toluene-d8	102		70-130	%		2022-08-18
Surrogate: 4-Bromofluorobenzene	100		70-130	%		2022-08-18

Plant (22H2233-04) | Matrix: Water | Sampled: 2022-08-15

Calculated Parameters



TEST RESULTS

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Schedule 4 - Code of Practice

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Plant (22H2233-04) | Matrix: Water | Sampled: 2022-08-15, Continued

Calculated Parameters, Continued

Total Trihalomethanes	0.0750	MAC = 0.1	0.00400	mg/L		N/A
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Haloacetic Acids

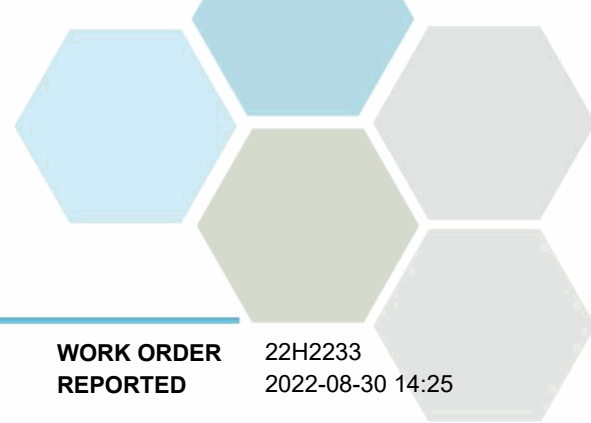
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L		2022-08-20
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L		2022-08-20
Dichloroacetic Acid	0.0263	N/A	0.0020	mg/L		2022-08-20
Trichloroacetic Acid	0.0316	N/A	0.0020	mg/L		2022-08-20
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L		2022-08-20
Total Haloacetic Acids (HAA5)	0.0579	MAC = 0.08	0.00200	mg/L		N/A
Surrogate: 2-Bromopropionic Acid	102		70-130	%		2022-08-20

Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0027	N/A	0.0010	mg/L		2022-08-18
Bromoform	< 0.0010	N/A	0.0010	mg/L		2022-08-18
Chloroform	0.0723	N/A	0.0010	mg/L		2022-08-18
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L		2022-08-18
Surrogate: Toluene-d8	106		70-130	%		2022-08-18
Surrogate: 4-Bromofluorobenzene	104		70-130	%		2022-08-18

Sample Qualifiers:

- HT1 The sample was prepared and/or analyzed past the recommended holding time.
- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
- RA1 The Reporting Limit has been raised due to matrix interference.



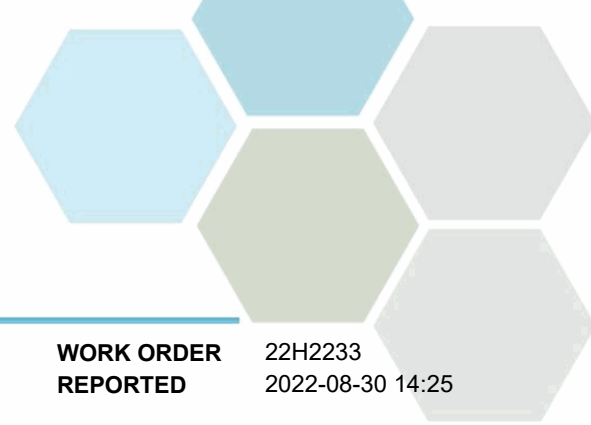
APPENDIX 1: SUPPORTING INFORMATION

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

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analysis Description	Method Ref.	Technique	Accredited	Location
Acid Herbicides in Water in Water	In-House	N/A	✓	Richmond
Alkalinity in Water	SM 2320 B* (2017)	Titration with H2SO4	✓	Edmonton
Ammonia, Total in Water	SM 4500-NH3 D* (2017)	Ion Selective Electrode	✓	Edmonton
Anions in Water	SM 4110 B (2017)	Ion Chromatography	✓	Edmonton
Bromate in Water	SM 4110 B (2017)	Ion Chromatography	✓	Sublet
Carbon, Total Organic in Water	SM 5310 B (2017)	Combustion, Infrared CO2 Detection	✓	Kelowna
Chlorine, Free in Water	SM 4500-Cl G (2017)	Colorimetry (DPD)	✓	Edmonton
Chlorine, Total in Water	SM 4500-Cl G (2017)	Colorimetry (DPD)	✓	Edmonton
Colour, True in Water	SM 2120 C (2017)	Spectrophotometry (456 nm)	✓	Edmonton
Conductivity in Water	SM 2510 B (2017)	Conductivity Meter	✓	Edmonton
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Cyanobacterial Toxins in Water	EPA 546*	Adda Enzyme-Linked Immunosorbent Assay (ELISA)	✓	Sublet
Glyphosate in Water	EPA 547*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	✓	Richmond
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Hardness in Water	SM 2340 B (2017)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitritotriacetic Acid in Water	EPA 430.1	Manual Colorimetry (Zinc-Zincon)		Kelowna
Pesticides in Water	EPA 3510C* / EPA 8270D*	Liquid-Liquid DCM Extraction (B/N) / GC-MSD (SIM)	✓	Richmond
pH in Water	SM 4500-H+ B (2017)	Electrometry	✓	Edmonton
Phenols, Chlorinated in Water	EPA 3510C* / EPA 8270D	Liquid-Liquid DCM Extraction (Acidic) / GC-MSD (SIM)	✓	Richmond
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MSD (SIM)		Edmonton
Solids, Total Dissolved in Water	SM 1030 E (2017)	SM 1030 E (2011)	✓	N/A
Sulfide, Total in Water	SM 4500-S2 D* (2017)	Colorimetry (Methylene Blue)	✓	Edmonton
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Edmonton
Turbidity in Water	SM 2130 B (2017)	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



APPENDIX 1: SUPPORTING INFORMATION

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

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Glossary of Terms:

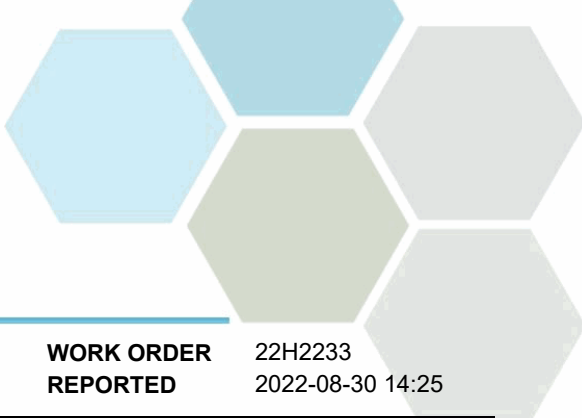
RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CU	Colour Units (referenced against a platinum cobalt standard)
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams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

General Comments:

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

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

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

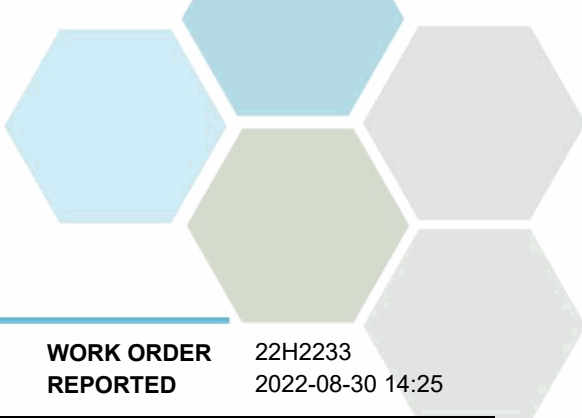
WORK ORDER REPORTED 22H2233
2022-08-30 14:25

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
Acid Herbicides, Batch B2H2863									
Blank (B2H2863-BLK1)			Prepared: 2022-08-23, Analyzed: 2022-08-24						
2,4-D	< 0.10	0.10 µg/L							
MCPA	< 0.02	0.02 µg/L							
2,4,5-T	< 0.10	0.10 µg/L							
Dicamba	< 0.10	0.10 µg/L							
Picloram	< 0.10	0.10 µg/L							
Dinoseb	< 0.10	0.10 µg/L							
LCS (B2H2863-BS1)			Prepared: 2022-08-23, Analyzed: 2022-08-24						
2,4-D	5.04	0.10 µg/L	5.05		100	70-130			
MCPA	5.03	0.02 µg/L	5.00		101	70-130			
2,4,5-T	4.67	0.10 µg/L	5.15		91	70-130			
Dicamba	4.58	0.10 µg/L	5.05		91	70-130			
Picloram	4.90	0.10 µg/L	5.10		96	70-130			
Dinoseb	4.61	0.10 µg/L	5.10		90	70-130			
LCS (B2H2863-BS2)			Prepared: 2022-08-23, Analyzed: 2022-08-24						
2,4-D	5.30	0.10 µg/L	5.05		105	70-130			
MCPA	4.97	0.02 µg/L	5.00		99	70-130			
2,4,5-T	4.51	0.10 µg/L	5.15		88	70-130			
Dicamba	5.62	0.10 µg/L	5.05		111	70-130			
Picloram	5.27	0.10 µg/L	5.10		103	70-130			
Dinoseb	4.57	0.10 µg/L	5.10		90	70-130			
LCS (B2H2863-BS3)			Prepared: 2022-08-23, Analyzed: 2022-08-24						
2,4-D	5.00	0.10 µg/L	5.05		99	70-130			
MCPA	4.97	0.02 µg/L	5.00		99	70-130			
2,4,5-T	4.21	0.10 µg/L	5.15		82	70-130			
Dicamba	5.41	0.10 µg/L	5.05		107	70-130			
Picloram	4.83	0.10 µg/L	5.10		95	70-130			
Dinoseb	4.59	0.10 µg/L	5.10		90	70-130			
LCS (B2H2863-BS4)			Prepared: 2022-08-23, Analyzed: 2022-08-24						
2,4-D	5.14	0.10 µg/L	5.05		102	70-130			
MCPA	4.77	0.02 µg/L	5.00		95	70-130			
2,4,5-T	5.57	0.10 µg/L	5.15		108	70-130			
Dicamba	4.78	0.10 µg/L	5.05		95	70-130			
Picloram	4.58	0.10 µg/L	5.10		90	70-130			



APPENDIX 2: QUALITY CONTROL RESULTS

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

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Acid Herbicides, Batch B2H2863, Continued

LCS (B2H2863-BS4), Continued

Prepared: 2022-08-23, Analyzed: 2022-08-24

Dinoseb	4.54	0.10 µg/L	5.10		89	70-130			
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Anions, Batch B2H2557

Blank (B2H2557-BLK1)

Prepared: 2022-08-22, Analyzed: 2022-08-22

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							

Blank (B2H2557-BLK2)

Prepared: 2022-08-23, Analyzed: 2022-08-23

Chloride	< 0.50	0.50 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.050	0.050 mg/L							
Nitrite (as N)	< 0.050	0.050 mg/L							
Sulfate	< 1.0	1.0 mg/L							

LCS (B2H2557-BS1)

Prepared: 2022-08-22, Analyzed: 2022-08-22

Chloride	9.73	0.50 mg/L	10.0		97	90-110			
Fluoride	0.88	0.10 mg/L	1.00		88	85-115			
Nitrate (as N)	0.979	0.050 mg/L	1.00		98	92-108			
Nitrite (as N)	0.518	0.050 mg/L	0.500		104	85-115			
Sulfate	51.5	1.0 mg/L	50.0		103	90-110			

LCS (B2H2557-BS2)

Prepared: 2022-08-23, Analyzed: 2022-08-23

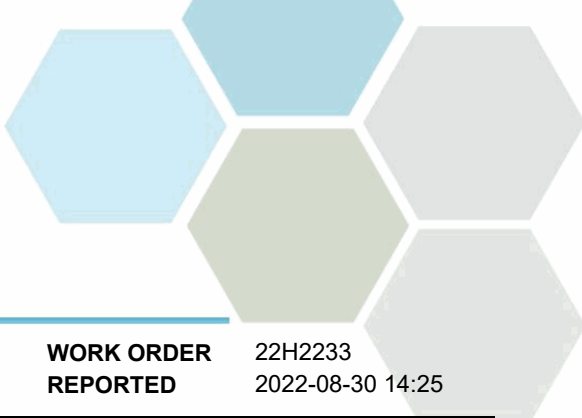
Chloride	10.1	0.50 mg/L	10.0		101	90-110			
Fluoride	1.11	0.10 mg/L	1.00		111	85-115			
Nitrate (as N)	0.959	0.050 mg/L	1.00		96	92-108			
Nitrite (as N)	0.431	0.050 mg/L	0.500		86	85-115			
Sulfate	52.2	1.0 mg/L	50.0		104	90-110			

Chlorinated Phenols, Batch B2H2270

Blank (B2H2270-BLK1)

Prepared: 2022-08-18, Analyzed: 2022-08-19

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	1.82	µg/L	2.00		91	60-130			
Surrogate: 2,4,6-Tribromophenol	1.63	µg/L	2.00		81	60-130			



APPENDIX 2: QUALITY CONTROL RESULTS

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

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Chlorinated Phenols, Batch B2H2270, Continued

LCS (B2H2270-BS1)

Prepared: 2022-08-18, Analyzed: 2022-08-19

2-Chlorophenol	8.96	0.10 µg/L	10.0		89	60-130			
3 & 4-Chlorophenol	15.7	0.10 µg/L	19.8		80	60-130			
4-Chloro-3-Methylphenol	9.70	0.50 µg/L	10.2		95	60-130			
2,3-Dichlorophenol	8.63	0.20 µg/L	10.1		85	60-130			
2,4 & 2,5-Dichlorophenol	19.2	0.20 µg/L	20.2		95	60-130			
2,6-Dichlorophenol	9.58	0.20 µg/L	10.0		96	60-130			
3,4-Dichlorophenol	9.10	0.20 µg/L	10.0		91	60-130			
3,5-Dichlorophenol	11.0	0.20 µg/L	10.2		108	60-130			
2,3,4-Trichlorophenol	9.86	0.50 µg/L	10.0		98	60-130			
2,3,5-Trichlorophenol	10.3	0.50 µg/L	10.0		102	60-130			
2,3,6-Trichlorophenol	9.54	0.50 µg/L	10.0		95	60-130			
2,4,5-Trichlorophenol	9.66	0.50 µg/L	10.0		96	60-130			
2,4,6-Trichlorophenol	10.3	0.50 µg/L	9.95		104	60-130			
3,4,5-Trichlorophenol	10.6	0.50 µg/L	10.0		106	60-130			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	17.4	0.50 µg/L	19.9		88	60-130			
2,3,4,6-Tetrachlorophenol	10.3	0.50 µg/L	10.0		103	60-130			
Pentachlorophenol	11.6	0.50 µg/L	9.95		117	60-130			
Surrogate: 2,4-Dibromophenol	3.31	µg/L	4.00		83	60-130			
Surrogate: 2,4,6-Tribromophenol	3.62	µg/L	4.00		90	60-130			

LCS Dup (B2H2270-BSD1)

Prepared: 2022-08-18, Analyzed: 2022-08-19

2-Chlorophenol	8.72	0.10 µg/L	10.0		87	60-130	3	40	
3 & 4-Chlorophenol	15.4	0.10 µg/L	19.8		78	60-130	2	40	
4-Chloro-3-Methylphenol	9.03	0.50 µg/L	10.2		89	60-130	7	40	
2,3-Dichlorophenol	9.16	0.20 µg/L	10.1		91	60-130	6	40	
2,4 & 2,5-Dichlorophenol	18.5	0.20 µg/L	20.2		92	60-130	4	40	
2,6-Dichlorophenol	9.32	0.20 µg/L	10.0		93	60-130	3	40	
3,4-Dichlorophenol	8.80	0.20 µg/L	10.0		88	60-130	3	40	
3,5-Dichlorophenol	10.5	0.20 µg/L	10.2		103	60-130	4	40	
2,3,4-Trichlorophenol	9.51	0.50 µg/L	10.0		95	60-130	4	40	
2,3,5-Trichlorophenol	9.81	0.50 µg/L	10.0		98	60-130	5	40	
2,3,6-Trichlorophenol	9.18	0.50 µg/L	10.0		91	60-130	4	40	
2,4,5-Trichlorophenol	10.0	0.50 µg/L	10.0		100	60-130	4	40	
2,4,6-Trichlorophenol	10.0	0.50 µg/L	9.95		101	60-130	3	40	
3,4,5-Trichlorophenol	10.2	0.50 µg/L	10.0		102	60-130	4	40	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	17.0	0.50 µg/L	19.9		85	60-130	3	40	
2,3,4,6-Tetrachlorophenol	9.47	0.50 µg/L	10.0		95	60-130	9	40	
Pentachlorophenol	10.5	0.50 µg/L	9.95		106	60-130	10	40	
Surrogate: 2,4-Dibromophenol	2.14	µg/L	2.00		107	60-130			
Surrogate: 2,4,6-Tribromophenol	1.98	µg/L	2.00		99	60-130			

General Parameters, Batch B2H1960

Blank (B2H1960-BLK1)

Prepared: 2022-08-19, Analyzed: 2022-08-19

Carbon, Total Organic	< 0.50	0.50 mg/L							
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Blank (B2H1960-BLK2)

Prepared: 2022-08-19, Analyzed: 2022-08-19

Carbon, Total Organic	< 0.50	0.50 mg/L							
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Blank (B2H1960-BLK3)

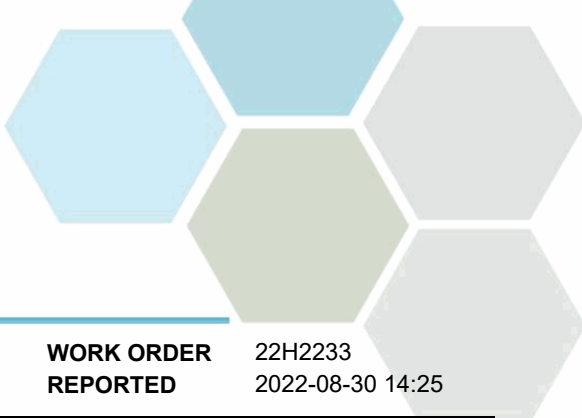
Prepared: 2022-08-19, Analyzed: 2022-08-19

Carbon, Total Organic	< 0.50	0.50 mg/L							
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Blank (B2H1960-BLK4)

Prepared: 2022-08-19, Analyzed: 2022-08-19

Carbon, Total Organic	< 0.50	0.50 mg/L							
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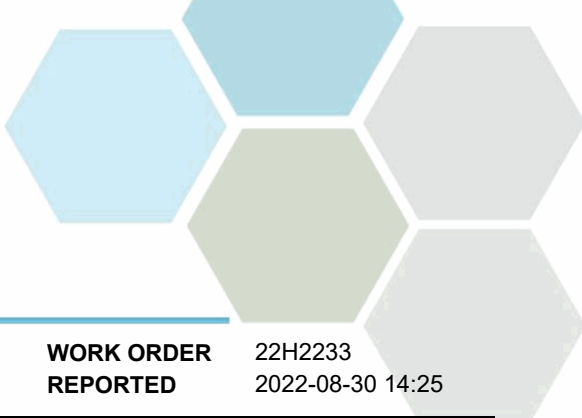


APPENDIX 2: QUALITY CONTROL RESULTS

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

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B2H1960, Continued									
LCS (B2H1960-BS1)			Prepared: 2022-08-19, Analyzed: 2022-08-19						
Carbon, Total Organic	9.54	0.50 mg/L	10.0		95	78-116			
LCS (B2H1960-BS2)			Prepared: 2022-08-19, Analyzed: 2022-08-19						
Carbon, Total Organic	9.53	0.50 mg/L	10.0		95	78-116			
LCS (B2H1960-BS3)			Prepared: 2022-08-19, Analyzed: 2022-08-19						
Carbon, Total Organic	9.28	0.50 mg/L	10.0		93	78-116			
LCS (B2H1960-BS4)			Prepared: 2022-08-19, Analyzed: 2022-08-19						
Carbon, Total Organic	9.34	0.50 mg/L	10.0		93	78-116			
General Parameters, Batch B2H2166									
Blank (B2H2166-BLK1)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Alkalinity, Total (as CaCO ₃)	< 2.0	2.0 mg/L							
Bicarbonate (HCO ₃)	< 2.0	2.0 mg/L							
Carbonate (CO ₃)	< 2.0	2.0 mg/L							
Hydroxide (OH)	< 2.0	2.0 mg/L							
LCS (B2H2166-BS1)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Alkalinity, Total (as CaCO ₃)	252	2.0 mg/L	250		101	94-108			
Reference (B2H2166-SRM1)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
pH	7.11	0.10 pH units	7.00		102	98-102			
General Parameters, Batch B2H2195									
Blank (B2H2195-BLK1)			Prepared: 2022-08-17, Analyzed: 2022-08-17						
Sulfide, Total	< 0.020	0.020 mg/L							
LCS (B2H2195-BS1)			Prepared: 2022-08-17, Analyzed: 2022-08-17						
Sulfide, Total	0.519	0.020 mg/L	0.500		104	80-120			
General Parameters, Batch B2H2207									
Blank (B2H2207-BLK1)			Prepared: 2022-08-17, Analyzed: 2022-08-17						
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	< 0.02	0.02 mg/L							
Duplicate (B2H2207-DUP1)			Source: 22H2233-01		Prepared: 2022-08-17, Analyzed: 2022-08-17				
Chlorine, Total	1.17	0.02 mg/L		1.15			2	10	
Chlorine, Free	1.01	0.02 mg/L		1.04			3	20	
Reference (B2H2207-SRM1)			Prepared: 2022-08-17, Analyzed: 2022-08-17						
Chlorine, Total	1.56	0.02 mg/L	1.59		98	91.2-108.8			
Chlorine, Free	1.56	0.02 mg/L	1.59		98	91.2-108.8			
General Parameters, Batch B2H2284									
Blank (B2H2284-BLK1)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Colour, True	< 5.0	5.0 CU							
LCS (B2H2284-BS1)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Colour, True	25	5.0 CU	25.0		101	90-109			



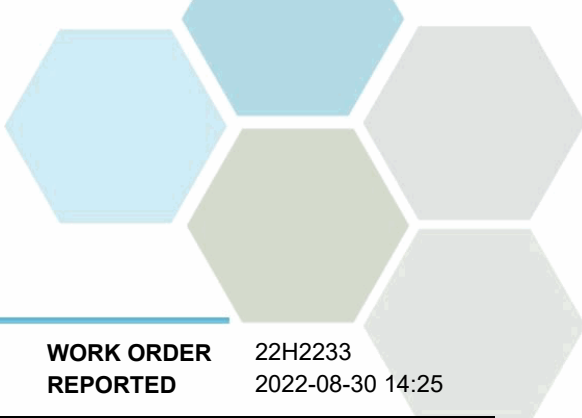
APPENDIX 2: QUALITY CONTROL RESULTS

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

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B2H2285									
Blank (B2H2285-BLK1)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Turbidity	< 0.10	0.10 NTU							
LCS (B2H2285-BS1)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Turbidity	40.3	0.10 NTU	40.0		101	90-110			
General Parameters, Batch B2H2303									
Blank (B2H2303-BLK1)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	< 0.0020	0.0020 mg/L							
Blank (B2H2303-BLK2)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	< 0.0020	0.0020 mg/L							
LCS (B2H2303-BS1)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	0.0185	0.0020 mg/L	0.0200		92	82-120			
LCS (B2H2303-BS2)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	0.0196	0.0020 mg/L	0.0200		98	82-120			
LCS Dup (B2H2303-BSD1)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	0.0187	0.0020 mg/L	0.0200		94	82-120	1	10	
LCS Dup (B2H2303-BSD2)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Cyanide, Total	0.0185	0.0020 mg/L	0.0200		92	82-120	6	10	
General Parameters, Batch B2H2548									
Blank (B2H2548-BLK1)			Prepared: 2022-08-19, Analyzed: 2022-08-19						
Nitritotriacetic Acid	< 0.20	0.20 mg/L							
LCS (B2H2548-BS1)			Prepared: 2022-08-19, Analyzed: 2022-08-19						
Nitritotriacetic Acid	0.91	0.20 mg/L	1.00		91	80-120			
LCS Dup (B2H2548-BSD1)			Prepared: 2022-08-19, Analyzed: 2022-08-19						
Nitritotriacetic Acid	0.97	0.20 mg/L	1.00		97	80-120	6	20	
General Parameters, Batch B2H2742									
Blank (B2H2742-BLK1)			Prepared: 2022-08-22, Analyzed: 2022-08-22						
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B2H2742-BS1)			Prepared: 2022-08-22, Analyzed: 2022-08-22						
Conductivity (EC)	999	2.0 µS/cm	1000		100	95-105			
General Parameters, Batch B2H2841									
Blank (B2H2841-BLK1)			Prepared: 2022-08-23, Analyzed: 2022-08-23						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B2H2841-BS1)			Prepared: 2022-08-23, Analyzed: 2022-08-23						
Ammonia, Total (as N)	0.207	0.050 mg/L	0.200		104	85-115			

Haloacetic Acids, Batch B2H2524



APPENDIX 2: QUALITY CONTROL RESULTS

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

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Haloacetic Acids, Batch B2H2524, Continued

Blank (B2H2524-BLK1)

Prepared: 2022-08-19, Analyzed: 2022-08-20

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	0.0117	mg/L	0.0117		100	70-130			

LCS (B2H2524-BS1)

Prepared: 2022-08-19, Analyzed: 2022-08-20

Monochloroacetic Acid	0.0553	0.0020 mg/L	0.0564		98	75-117			
Monobromoacetic Acid	0.0364	0.0020 mg/L	0.0374		97	83-113			
Dichloroacetic Acid	0.0532	0.0020 mg/L	0.0558		95	78-112			
Trichloroacetic Acid	0.0174	0.0020 mg/L	0.0186		94	81-110			
Dibromoacetic Acid	0.0178	0.0020 mg/L	0.0187		95	89-112			
Surrogate: 2-Bromopropionic Acid	0.0113	mg/L	0.0117		96	70-130			

LCS Dup (B2H2524-BSD1)

Prepared: 2022-08-19, Analyzed: 2022-08-20

Monochloroacetic Acid	0.0574	0.0020 mg/L	0.0564		102	75-117	4	30	
Monobromoacetic Acid	0.0387	0.0020 mg/L	0.0374		103	83-113	6	30	
Dichloroacetic Acid	0.0590	0.0020 mg/L	0.0558		106	78-112	10	30	
Trichloroacetic Acid	0.0200	0.0020 mg/L	0.0186		107	81-110	13	30	
Dibromoacetic Acid	0.0197	0.0020 mg/L	0.0187		106	89-112	10	30	
Surrogate: 2-Bromopropionic Acid	0.0120	mg/L	0.0117		102	70-130			

Matrix Spike (B2H2524-MS1)

Source: 22H2233-01

Prepared: 2022-08-19, Analyzed: 2022-08-20

Monochloroacetic Acid	0.0537	0.0020 mg/L	0.0564	< 0.0020	95	60-140			
Monobromoacetic Acid	0.0397	0.0020 mg/L	0.0374	< 0.0020	106	60-140			
Dichloroacetic Acid	0.117	0.0020 mg/L	0.0558	0.0593	103	60-140			
Trichloroacetic Acid	0.0860	0.0020 mg/L	0.0186	0.0621	129	60-140			
Dibromoacetic Acid	0.0187	0.0020 mg/L	0.0187	< 0.0020	100	60-140			
Surrogate: 2-Bromopropionic Acid	0.0118	mg/L	0.0117		100	70-130			

Miscellaneous Herbicides, Batch B2H2970

Blank (B2H2970-BLK1)

Prepared: 2022-08-26, Analyzed: 2022-08-27

Glyphosate	< 0.050	0.050 mg/L							
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LCS (B2H2970-BS1)

Prepared: 2022-08-26, Analyzed: 2022-08-27

Glyphosate	0.252	0.050 mg/L	0.250		101	70-130			
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LCS Dup (B2H2970-BSD1)

Prepared: 2022-08-26, Analyzed: 2022-08-27

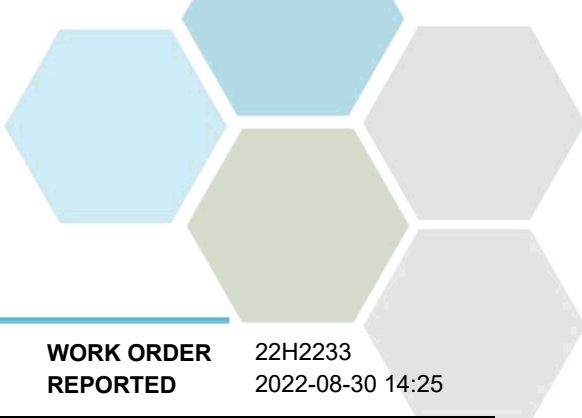
Glyphosate	0.311	0.050 mg/L	0.250		125	70-130	21	20	RPD1
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Pesticides, Herbicides, and Fungicides, Batch B2H2438

Blank (B2H2438-BLK1)

Prepared: 2022-08-19, Analyzed: 2022-08-20

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							



APPENDIX 2: QUALITY CONTROL RESULTS

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

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Pesticides, Herbicides, and Fungicides, Batch B2H2438, Continued

Blank (B2H2438-BLK1), Continued

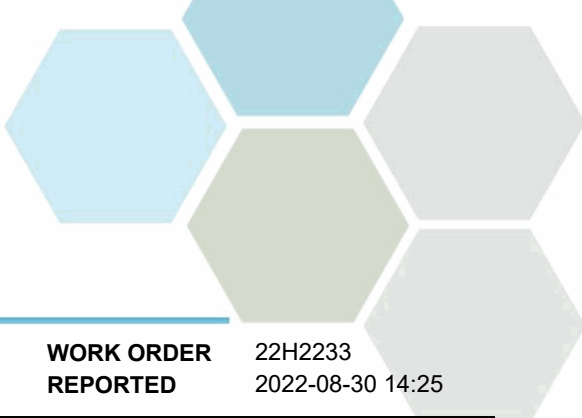
Prepared: 2022-08-19, Analyzed: 2022-08-20

Captan	< 0.100	0.100 µg/L							
Chlordane (cis + trans)	< 0.050	0.050 µg/L							
Chlorothalonil	< 0.050	0.050 µg/L							
Chlorpyrifos	< 0.010	0.010 µg/L							
Cyanazine	< 0.100	0.100 µg/L							
DDT, Total	< 0.010	0.010 µg/L							
Deltamethrin	< 0.100	0.100 µg/L							
Diazinon	< 0.020	0.020 µg/L							
Dichlorvos	< 0.100	0.100 µg/L							
Diclofop-methyl	< 0.100	0.100 µg/L							
Dieldrin	< 0.010	0.010 µg/L							
Dimethoate	< 0.200	0.200 µg/L							
Disulfoton	< 0.100	0.100 µg/L							
Diuron	< 0.200	0.200 µg/L							
Endosulfan I + II	< 0.010	0.010 µg/L							
Endosulfan sulfate	< 0.050	0.050 µg/L							
Endrin	< 0.020	0.020 µg/L							
Endrin aldehyde	< 0.020	0.020 µg/L							
Endrin ketone	< 0.020	0.020 µg/L							
Fenchlorphos (Ronnell)	< 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	0.701	µg/L	0.998		70	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.881	µg/L	1.00		88	50-140			

LCS (B2H2438-BS1)

Prepared: 2022-08-19, Analyzed: 2022-08-20

Alachlor	0.840	0.100 µg/L	1.01		83	50-140			
Aldrin	0.759	0.006 µg/L	1.00		76	50-140			
Atrazine	0.861	0.100 µg/L	1.01		85	50-140			
Atrazine-desethyl	0.647	0.100 µg/L	1.03		63	50-140			
Azinphos-methyl	0.654	0.200 µg/L	0.981		67	50-140			
alpha-BHC	0.827	0.010 µg/L	1.01		82	50-140			
beta-BHC	0.836	0.050 µg/L	1.01		83	50-140			
delta-BHC	0.971	0.050 µg/L	1.00		97	50-140			
gamma-BHC (Lindane)	0.875	0.050 µg/L	1.00		87	50-140			
Bromacil	0.818	0.100 µg/L	1.01		81	50-140			
Bromoxynil	0.888	0.200 µg/L	0.978		91	50-140			



APPENDIX 2: QUALITY CONTROL RESULTS

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Schedule 4 - Code of Practice

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Pesticides, Herbicides, and Fungicides, Batch B2H2438, Continued

LCS (B2H2438-BS1), Continued

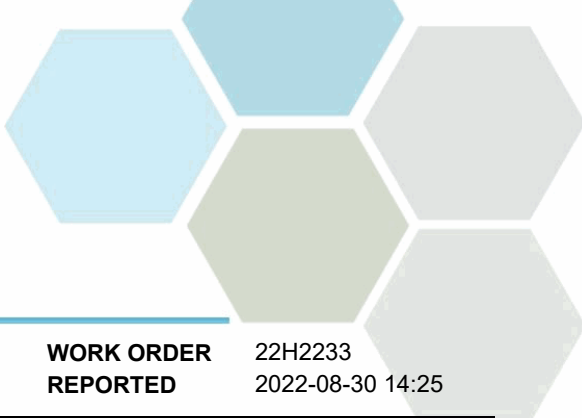
Prepared: 2022-08-19, Analyzed: 2022-08-20

Butachlor	0.762	0.020 µg/L	1.01		75	50-140			
Captan	1.09	0.100 µg/L	0.996		109	50-140			
Chlordane (cis + trans)	1.67	0.050 µg/L	2.01		83	50-140			
Chlorothalonil	1.08	0.050 µg/L	1.01		107	50-140			
Chlorpyrifos	0.717	0.010 µg/L	1.00		72	50-140			
Cyanazine	0.816	0.100 µg/L	1.01		81	50-140			
DDT, Total	4.63	0.010 µg/L	5.99		77	50-140			
Deltamethrin	8.83	0.100 µg/L	10.1		87	50-140			
Diazinon	0.833	0.020 µg/L	1.00		83	50-140			
Dichlorvos	0.563	0.100 µg/L	1.09		52	50-140			
Diclofop-methyl	0.685	0.100 µg/L	1.02		67	50-140			
Dieldrin	0.757	0.010 µg/L	1.00		76	50-140			
Dimethoate	0.643	0.200 µg/L	0.990		65	50-140			
Disulfoton	0.793	0.100 µg/L	1.02		78	50-140			
Diuron	0.671	0.200 µg/L	1.06		63	50-140			
Endosulfan I + II	1.52	0.010 µg/L	2.01		76	50-140			
Endosulfan sulfate	0.872	0.050 µg/L	1.01		86	50-140			
Endrin	0.728	0.020 µg/L	1.01		72	50-140			
Endrin aldehyde	0.747	0.020 µg/L	1.00		75	50-140			
Endrin ketone	0.953	0.020 µg/L	1.01		94	50-140			
Fenchlorphos (Ronnell)	0.829	0.100 µg/L	1.03		80	50-140			
Heptachlor	0.788	0.010 µg/L	1.01		78	50-140			
Heptachlor epoxide	0.852	0.010 µg/L	1.01		84	50-140			
Linuron	0.728	0.050 µg/L	1.07		68	50-140			
Malathion	0.852	0.100 µg/L	1.00		85	50-140			
Methoxychlor	1.10	0.050 µg/L	1.01		109	50-140			
Methyl parathion	0.712	0.100 µg/L	0.997		71	50-140			
Metolachlor	0.833	0.100 µg/L	1.00		83	50-140			
Metribuzin	0.798	0.200 µg/L	1.00		80	50-140			
Parathion	0.877	0.100 µg/L	0.999		88	50-140			
Pentachloronitrobenzene	0.812	0.100 µg/L	0.989		82	50-140			
Permethrin	0.752	0.010 µg/L	1.04		72	50-140			
Phorate	0.712	0.100 µg/L	1.00		71	50-140			
Prometon	0.546	0.300 µg/L	1.00		55	50-140			
Prometryne	0.648	0.100 µg/L	1.00		65	50-140			
Simazine	0.788	0.200 µg/L	1.01		78	50-140			
Sulfotep	0.901	0.100 µg/L	1.04		87	50-140			
Tebuthiuron	0.509	0.200 µg/L	1.01		50	50-140			
Temephos (Abate)	5.90	0.500 µg/L	10.5		56	50-140			
Terbufos	0.848	0.100 µg/L	0.994		85	50-140			
Triallate	0.846	0.100 µg/L	0.992		85	50-140			
Trifluralin	0.844	0.200 µg/L	1.00		84	50-140			
Surrogate: Tributyl Phosphate	0.746	µg/L	0.998		75	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.709	µg/L	1.00		71	50-140			

LCS Dup (B2H2438-BSD1)

Prepared: 2022-08-19, Analyzed: 2022-08-20

Alachlor	0.816	0.100 µg/L	1.01		81	50-140	3	30	
Aldrin	0.745	0.006 µg/L	1.00		74	50-140	2	30	
Atrazine	0.842	0.100 µg/L	1.01		83	50-140	2	30	
Atrazine-desethyl	0.631	0.100 µg/L	1.03		61	50-140	2	30	
Azinphos-methyl	0.606	0.200 µg/L	0.981		62	50-140	8	30	
alpha-BHC	0.820	0.010 µg/L	1.01		81	50-140	< 1	30	
beta-BHC	0.805	0.050 µg/L	1.01		80	50-140	4	30	
delta-BHC	0.943	0.050 µg/L	1.00		94	50-140	3	30	
gamma-BHC (Lindane)	0.836	0.050 µg/L	1.00		84	50-140	5	30	
Bromacil	0.758	0.100 µg/L	1.01		75	50-140	8	30	



APPENDIX 2: QUALITY CONTROL RESULTS

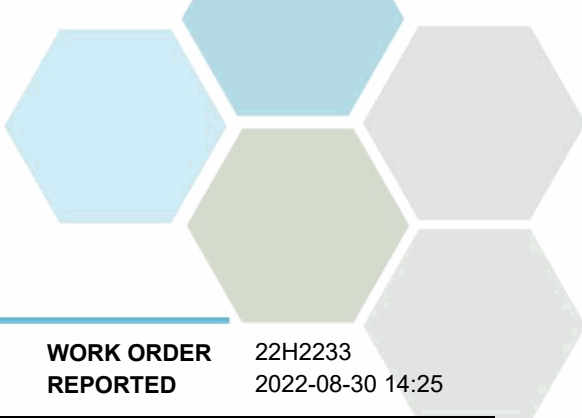
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WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B2H2438, Continued									
LCS Dup (B2H2438-BSD1), Continued					Prepared: 2022-08-19, Analyzed: 2022-08-20				
Bromoxynil	0.801	0.200 µg/L	0.978		82	50-140	10	30	
Butachlor	0.730	0.020 µg/L	1.01		72	50-140	4	30	
Captan	1.06	0.100 µg/L	0.996		106	50-140	3	30	
Chlordane (cis + trans)	1.60	0.050 µg/L	2.01		80	50-140	4	30	
Chlorothalonil	1.04	0.050 µg/L	1.01		103	50-140	4	30	
Chlorpyrifos	0.705	0.010 µg/L	1.00		70	50-140	2	30	
Cyanazine	0.828	0.100 µg/L	1.01		82	50-140	2	30	
DDT, Total	4.48	0.010 µg/L	5.99		75	50-140	3	30	
Deltamethrin	8.27	0.100 µg/L	10.1		82	50-140	7	30	
Diazinon	0.825	0.020 µg/L	1.00		83	50-140	< 1	30	
Dichlorvos	0.481	0.100 µg/L	1.09		44	50-140	16	30	SPK1
Diclofop-methyl	0.658	0.100 µg/L	1.02		64	50-140	4	30	
Dieldrin	0.736	0.010 µg/L	1.00		74	50-140	3	30	
Dimethoate	0.688	0.200 µg/L	0.990		69	50-140	7	30	
Disulfoton	0.756	0.100 µg/L	1.02		74	50-140	5	30	
Diuron	0.564	0.200 µg/L	1.06		53	50-140	17	30	
Endosulfan I + II	1.49	0.010 µg/L	2.01		74	50-140	2	30	
Endosulfan sulfate	0.828	0.050 µg/L	1.01		82	50-140	5	30	
Endrin	0.696	0.020 µg/L	1.01		69	50-140	4	30	
Endrin aldehyde	0.723	0.020 µg/L	1.00		72	50-140	3	30	
Endrin ketone	0.893	0.020 µg/L	1.01		88	50-140	6	30	
Fenchlorphos (Ronnel)	0.819	0.100 µg/L	1.03		80	50-140	1	30	
Heptachlor	0.920	0.010 µg/L	1.01		91	50-140	15	30	
Heptachlor epoxide	0.818	0.010 µg/L	1.01		81	50-140	4	30	
Linuron	0.681	0.050 µg/L	1.07		64	50-140	7	30	
Malathion	0.820	0.100 µg/L	1.00		82	50-140	4	30	
Methoxychlor	1.05	0.050 µg/L	1.01		104	50-140	4	30	
Methyl parathion	0.693	0.100 µg/L	0.997		69	50-140	3	30	
Metolachlor	0.797	0.100 µg/L	1.00		80	50-140	4	30	
Metribuzin	0.755	0.200 µg/L	1.00		75	50-140	6	30	
Parathion	0.825	0.100 µg/L	0.999		83	50-140	6	30	
Pentachloronitrobenzene	0.791	0.100 µg/L	0.989		80	50-140	3	30	
Permethrin	0.711	0.010 µg/L	1.04		68	50-140	6	30	
Phorate	0.714	0.100 µg/L	1.00		71	50-140	< 1	30	
Prometon	0.760	0.300 µg/L	1.00		76	50-140	33	30	RPD
Prometryne	0.773	0.100 µg/L	1.00		77	50-140	18	30	
Simazine	0.789	0.200 µg/L	1.01		78	50-140	< 1	30	
Sulfotep	0.865	0.100 µg/L	1.04		83	50-140	4	30	
Tebuthiuron	0.748	0.200 µg/L	1.01		74	50-140	38	30	RPD
Temephos (Abate)	5.56	0.500 µg/L	10.5		53	50-140	6	30	
Terbufos	0.816	0.100 µg/L	0.994		82	50-140	4	30	
Triallate	0.819	0.100 µg/L	0.992		83	50-140	3	30	
Trifluralin	0.809	0.200 µg/L	1.00		81	50-140	4	30	
Surrogate: Tributyl Phosphate	0.800	µg/L	0.998		80	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.645	µg/L	1.00		64	50-140			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B2H2304

Blank (B2H2304-BLK1)			Prepared: 2022-08-18, Analyzed: 2022-08-18						
Acenaphthene	< 0.050	0.050 µg/L							
Acenaphthylene	< 0.200	0.200 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							

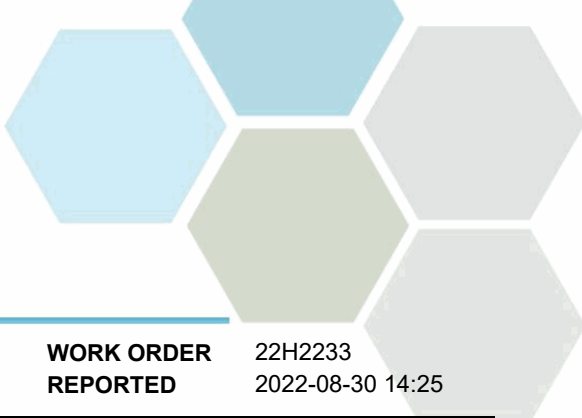


APPENDIX 2: QUALITY CONTROL RESULTS

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Schedule 4 - Code of Practice

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B2H2304, Continued									
Blank (B2H2304-BLK1), Continued					Prepared: 2022-08-18, Analyzed: 2022-08-18				
Benzo(k)fluoranthene	< 0.050	0.050 µg/L							
2-Chloronaphthalene	< 0.100	0.100 µg/L							
Chrysene	< 0.050	0.050 µg/L							
Dibenz(a,h)anthracene	< 0.010	0.010 µg/L							
Fluoranthene	< 0.030	0.030 µg/L							
Fluorene	< 0.050	0.050 µg/L							
Indeno(1,2,3-cd)pyrene	< 0.050	0.050 µg/L							
1-Methylnaphthalene	< 0.100	0.100 µg/L							
2-Methylnaphthalene	< 0.100	0.100 µg/L							
Naphthalene	< 0.200	0.200 µg/L							
Phenanthrene	< 0.100	0.100 µg/L							
Pyrene	< 0.020	0.020 µg/L							
Quinoline	< 0.050	0.050 µg/L							
Surrogate: Naphthalene-d8	30.0	µg/L	29.6		101	50-140			
Surrogate: Perylene-d12	33.5	µg/L	29.6		113	50-140			
LCS (B2H2304-BS2)					Prepared: 2022-08-18, Analyzed: 2022-08-18				
Acenaphthene	23.1	0.050 µg/L	22.2		104	50-140			
Acenaphthylene	24.9	0.200 µg/L	22.2		112	50-140			
Anthracene	23.6	0.010 µg/L	22.2		106	50-140			
Benz(a)anthracene	24.8	0.010 µg/L	22.2		112	50-140			
Benzo(a)pyrene	25.5	0.010 µg/L	22.2		115	50-140			
Benzo(b+j)fluoranthene	44.5	0.050 µg/L	44.4		100	50-140			
Benzo(g,h,i)perylene	26.2	0.050 µg/L	22.2		118	50-140			
Benzo(k)fluoranthene	21.9	0.050 µg/L	22.2		99	50-140			
2-Chloronaphthalene	21.2	0.100 µg/L	22.4		95	50-140			
Chrysene	24.0	0.050 µg/L	22.2		108	50-140			
Dibenz(a,h)anthracene	29.4	0.010 µg/L	22.2		132	50-140			
Fluoranthene	23.3	0.030 µg/L	22.2		105	50-140			
Fluorene	23.4	0.050 µg/L	22.2		106	50-140			
Indeno(1,2,3-cd)pyrene	26.5	0.050 µg/L	22.2		119	50-140			
1-Methylnaphthalene	22.7	0.100 µg/L	22.2		102	50-140			
2-Methylnaphthalene	22.4	0.100 µg/L	22.2		101	50-140			
Naphthalene	23.3	0.200 µg/L	22.2		105	50-140			
Phenanthrene	22.9	0.100 µg/L	22.2		103	50-140			
Pyrene	23.1	0.020 µg/L	22.2		104	50-140			
Quinoline	26.0	0.050 µg/L	23.4		111	50-140			
Surrogate: Naphthalene-d8	30.7	µg/L	29.6		103	50-140			
Surrogate: Perylene-d12	32.8	µg/L	29.6		111	50-140			
Total Metals, Batch B2H2367									
Blank (B2H2367-BLK1)					Prepared: 2022-08-18, Analyzed: 2022-08-18				
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B2H2367-BLK2)					Prepared: 2022-08-18, Analyzed: 2022-08-18				
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B2H2367-BS1)					Prepared: 2022-08-18, Analyzed: 2022-08-18				
Mercury, total	0.000496	0.000010 mg/L	0.000500		99	80-120			
LCS (B2H2367-BS2)					Prepared: 2022-08-18, Analyzed: 2022-08-18				
Mercury, total	0.000492	0.000010 mg/L	0.000500		98	80-120			
Duplicate (B2H2367-DUP1)					Source: 22H2233-01 Prepared: 2022-08-18, Analyzed: 2022-08-18				
Mercury, total	< 0.000010	0.000010 mg/L	< 0.000010					20	



APPENDIX 2: QUALITY CONTROL RESULTS

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Schedule 4 - Code of Practice

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Total Metals, Batch B2H2473

Blank (B2H2473-BLK1)

Prepared: 2022-08-19, Analyzed: 2022-08-21

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 (B2H2473-BS1)

Prepared: 2022-08-19, Analyzed: 2022-08-21

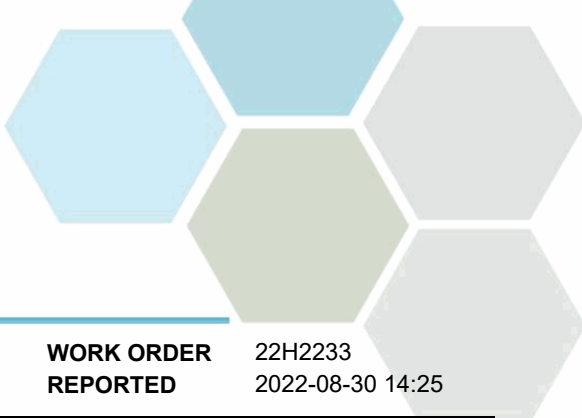
Aluminum, total	3.86	0.0050 mg/L	4.00	97	80-120
Antimony, total	0.0372	0.00020 mg/L	0.0400	93	80-120
Arsenic, total	0.0371	0.00050 mg/L	0.0400	93	80-120
Barium, total	0.0380	0.0050 mg/L	0.0400	95	80-120
Boron, total	< 0.0500	0.0500 mg/L	0.0400	107	80-120
Cadmium, total	0.0375	0.000010 mg/L	0.0400	94	80-120
Calcium, total	3.95	0.20 mg/L	4.00	99	80-120
Chromium, total	0.0382	0.00050 mg/L	0.0400	96	80-120
Copper, total	0.0395	0.00040 mg/L	0.0400	99	80-120
Iron, total	3.85	0.010 mg/L	4.00	96	80-120
Lead, total	0.0394	0.00020 mg/L	0.0400	98	80-120
Magnesium, total	3.97	0.010 mg/L	4.00	99	80-120
Manganese, total	0.0386	0.00020 mg/L	0.0400	97	80-120
Potassium, total	3.87	0.10 mg/L	4.00	97	80-120
Selenium, total	0.0373	0.00050 mg/L	0.0400	93	80-120
Silver, total	0.0391	0.000050 mg/L	0.0400	98	80-120
Sodium, total	3.92	0.10 mg/L	4.00	98	80-120
Strontium, total	0.0379	0.0010 mg/L	0.0400	95	80-120
Uranium, total	0.0392	0.000020 mg/L	0.0400	98	80-120
Zinc, total	0.0374	0.0040 mg/L	0.0400	94	80-120

Volatile Organic Compounds (VOC), Batch B2H2091

Blank (B2H2091-BLK1)

Prepared: 2022-08-17, Analyzed: 2022-08-18

Benzene	< 0.5	0.5 µg/L			S02
Bromodichloromethane	< 0.0010	0.0010 mg/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	< 0.0010	0.0010 mg/L			
Dibromochloromethane	< 0.0010	0.0010 mg/L			
1,2-Dibromoethane	< 0.3	0.3 µg/L			
Dibromomethane	< 1.0	1.0 µg/L			

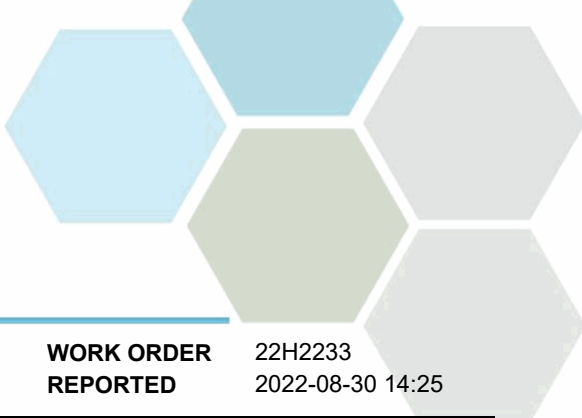


APPENDIX 2: QUALITY CONTROL RESULTS

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Schedule 4 - Code of Practice

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B2H2091, Continued									
Blank (B2H2091-BLK1), Continued					Prepared: 2022-08-17, Analyzed: 2022-08-18				
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethylene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
Dichloromethane	< 3.0	3.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							
1,3-Dichloropropene (cis + trans)	< 1.0	1.0 µg/L							
Ethylbenzene	< 1.0	1.0 µg/L							
Methyl tert-butyl ether	< 1.0	1.0 µg/L							
Styrene	< 1.0	1.0 µg/L							
1,1,2,2-Tetrachloroethane	< 0.5	0.5 µg/L							
Tetrachloroethylene	< 1.0	1.0 µg/L							
Toluene	< 1.0	1.0 µg/L							
1,1,1-Trichloroethane	< 1.0	1.0 µg/L							
1,1,2-Trichloroethane	< 1.0	1.0 µg/L							
Trichloroethylene	< 1.0	1.0 µg/L							
Trichlorofluoromethane	< 1.0	1.0 µg/L							
Vinyl chloride	< 1.0	1.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							
Surrogate: Toluene-d8	0.0131	mg/L	0.0200		65	70-130			S02
Surrogate: 4-Bromofluorobenzene	13.2	µg/L	20.0		66	70-130			S02
LCS (B2H2091-BS1)					Prepared: 2022-08-17, Analyzed: 2022-08-18				
Benzene	19.4	0.5 µg/L	20.1		97	70-130			
Bromodichloromethane	18.7	1.0 µg/L	20.1		93	70-130			
Bromoform	17.7	1.0 µg/L	20.1		88	70-130			
Carbon tetrachloride	20.5	0.5 µg/L	20.0		103	70-130			
Chlorobenzene	19.6	1.0 µg/L	20.0		98	70-130			
Chloroethane	13.7	2.0 µg/L	20.1		68	60-140			
Chloroform	0.0202	0.0010 mg/L	0.0201		101	70-130			
Dibromochloromethane	18.6	1.0 µg/L	20.1		93	70-130			
1,2-Dibromoethane	18.5	0.3 µg/L	20.1		92	70-130			
Dibromomethane	16.9	1.0 µg/L	20.0		85	70-130			
1,2-Dichlorobenzene	21.7	0.5 µg/L	20.1		108	70-130			
1,3-Dichlorobenzene	22.8	1.0 µg/L	20.1		114	70-130			
1,4-Dichlorobenzene	22.3	1.0 µg/L	20.0		112	70-130			
1,1-Dichloroethane	19.8	1.0 µg/L	20.1		99	70-130			
1,2-Dichloroethane	21.9	1.0 µg/L	20.1		109	70-130			
1,1-Dichloroethylene	16.6	1.0 µg/L	20.1		83	70-130			
cis-1,2-Dichloroethylene	18.3	1.0 µg/L	20.1		91	70-130			
trans-1,2-Dichloroethylene	14.4	1.0 µg/L	20.1		71	70-130			
Dichloromethane	16.5	3.0 µg/L	20.1		82	70-130			
1,2-Dichloropropane	22.9	1.0 µg/L	20.0		114	70-130			
1,3-Dichloropropene (cis + trans)	39.1	1.0 µg/L	40.0		98	70-130			
Ethylbenzene	21.8	1.0 µg/L	20.0		109	70-130			
Methyl tert-butyl ether	21.9	1.0 µg/L	20.0		109	70-130			
Styrene	22.5	1.0 µg/L	20.1		112	70-130			
1,1,2,2-Tetrachloroethane	18.5	0.5 µg/L	20.1		92	70-130			
Tetrachloroethylene	20.0	1.0 µg/L	20.1		100	70-130			
Toluene	22.3	1.0 µg/L	20.1		111	70-130			
1,1,1-Trichloroethane	20.1	1.0 µg/L	20.1		100	70-130			
1,1,2-Trichloroethane	18.6	1.0 µg/L	20.1		93	70-130			



APPENDIX 2: QUALITY CONTROL RESULTS

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Schedule 4 - Code of Practice

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Volatile Organic Compounds (VOC), Batch B2H2091, Continued

LCS (B2H2091-BS1), Continued

Prepared: 2022-08-17, Analyzed: 2022-08-18

Trichloroethylene	19.0	1.0 µg/L	20.1	95	70-130				
Trichlorofluoromethane	14.8	1.0 µg/L	20.1	73	60-140				
Vinyl chloride	13.1	1.0 µg/L	20.1	65	60-140				
Xylenes (total)	70.5	2.0 µg/L	60.2	117	70-130				
Surrogate: Toluene-d8	21.8	µg/L	20.0	109	70-130				
Surrogate: 4-Bromofluorobenzene	0.0216	mg/L	0.0200	108	70-130				

Duplicate (B2H2091-DUP1)

Source: 22H2233-04

Prepared: 2022-08-17, Analyzed: 2022-08-18

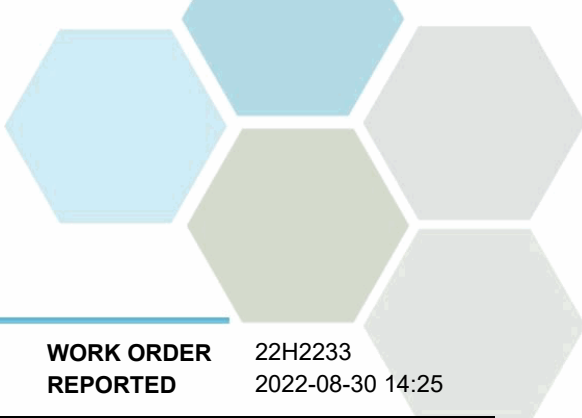
Benzene	< 0.5	0.5 µg/L	< 0.5					30	
Bromodichloromethane	2.7	1.0 µg/L	2.7					30	
Bromoform	< 1.0	1.0 µg/L	< 1.0					30	
Carbon tetrachloride	< 0.5	0.5 µg/L	< 0.5					30	
Chlorobenzene	< 1.0	1.0 µg/L	< 1.0					30	
Chloroethane	< 2.0	2.0 µg/L	< 2.0					30	
Chloroform	0.0699	0.0010 mg/L	0.0723				3	30	
Dibromochloromethane	< 0.0010	0.0010 mg/L	< 0.0010					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	
1,2-Dichloropropane	< 1.0	1.0 µg/L	< 1.0					30	
1,3-Dichloropropane (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	< 1.0	1.0 µg/L	< 1.0					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	21.1	µg/L	20.0	106	70-130				
Surrogate: 4-Bromofluorobenzene	0.0201	mg/L	0.0200	101	70-130				

Matrix Spike (B2H2091-MS1)

Source: 22H2233-04

Prepared: 2022-08-17, Analyzed: 2022-08-18

Benzene	22.0	0.5 µg/L	20.1	< 0.5	110	70-130			
Bromodichloromethane	26.4	1.0 µg/L	20.1	2.7	118	70-130			
Bromoform	20.0	1.0 µg/L	20.1	< 1.0	99	70-130			
Carbon tetrachloride	22.9	0.5 µg/L	20.0	< 0.5	115	70-130			
Chlorobenzene	22.3	1.0 µg/L	20.0	< 1.0	112	70-130			
Chloroethane	14.2	2.0 µg/L	20.1	< 2.0	71	60-140			
Chloroform	90.7	1.0 µg/L	20.1	72.3	91	70-130			
Dibromochloromethane	18.3	1.0 µg/L	20.1	< 1.0	91	70-130			
1,2-Dibromoethane	18.8	0.3 µg/L	20.1	< 0.3	94	70-130			
Dibromomethane	19.3	1.0 µg/L	20.0	< 1.0	97	70-130			
1,2-Dichlorobenzene	24.0	0.5 µg/L	20.1	< 0.5	120	70-130			



APPENDIX 2: QUALITY CONTROL RESULTS

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

WORK ORDER REPORTED 22H2233
2022-08-30 14:25

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B2H2091, Continued									
Matrix Spike (B2H2091-MS1), Continued		Source: 22H2233-04		Prepared: 2022-08-17, Analyzed: 2022-08-18					
1,3-Dichlorobenzene	24.3	1.0 µg/L	20.1	< 1.0	121	70-130			
1,4-Dichlorobenzene	23.8	1.0 µg/L	20.0	< 1.0	119	70-130			
1,1-Dichloroethane	21.1	1.0 µg/L	20.1	< 1.0	105	70-130			
1,2-Dichloroethane	21.5	1.0 µg/L	20.1	< 1.0	107	70-130			
1,1-Dichloroethylene	15.1	1.0 µg/L	20.1	< 1.0	75	70-130			
cis-1,2-Dichloroethylene	20.4	1.0 µg/L	20.1	< 1.0	101	70-130			
trans-1,2-Dichloroethylene	15.1	1.0 µg/L	20.1	< 1.0	75	70-130			
Dichloromethane	18.0	3.0 µg/L	20.1	< 3.0	90	70-130			
1,2-Dichloropropane	25.4	1.0 µg/L	20.0	< 1.0	127	70-130			
1,3-Dichloropropene (cis + trans)	< 1.0	1.0 µg/L	40.0	< 1.0		70-130			MS1
Ethylbenzene	23.9	1.0 µg/L	20.0	< 1.0	119	70-130			
Methyl tert-butyl ether	24.6	1.0 µg/L	20.0	< 1.0	123	70-130			
Styrene	24.3	1.0 µg/L	20.1	< 1.0	121	70-130			
1,1,2,2-Tetrachloroethane	17.9	0.5 µg/L	20.1	< 0.5	89	70-130			
Tetrachloroethylene	20.9	1.0 µg/L	20.1	< 1.0	104	70-130			
Toluene	24.3	1.0 µg/L	20.1	< 1.0	121	70-130			
1,1,1-Trichloroethane	22.1	1.0 µg/L	20.1	< 1.0	110	70-130			
1,1,2-Trichloroethane	21.1	1.0 µg/L	20.1	< 1.0	105	70-130			
Trichloroethylene	24.4	1.0 µg/L	20.1	< 1.0	121	70-130			
Trichlorofluoromethane	13.8	1.0 µg/L	20.1	< 1.0	68	60-140			
Vinyl chloride	13.5	1.0 µg/L	20.1	< 1.0	67	60-140			
Xylenes (total)	76.7	2.0 µg/L	60.2	< 2.0	127	70-130			
Surrogate: Toluene-d8	0.0200	mg/L	0.0200		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0209	mg/L	0.0200		105	70-130			

QC Qualifiers:

- MS1 The matrix spike recovery was outside of control limits due to a matrix effect and/or interference.
- RPD Relative percent difference (RPD) of duplicate analysis are outside of control limits for unknown reason(s).
- RPD1 Relative percent difference(s) (RPD) of one or more analytes on duplicate analysis are outside of control limits due to sample heterogeneity.
- 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.