

CERTIFICATE OF ANALYSIS

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

ATTENTION Wesley Olstad

PO NUMBER

PROJECT Schedule 4 - Code of Practice

PROJECT INFO

WORK ORDER 23B2790

RECEIVED / TEMP 2023-02-28 09:00 / 8.6°C

REPORTED 2023-03-14 12:52

COC NUMBER 09777

Introduction:

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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

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TEST RESULTS

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated (23B2790-01) Matrix: Water Sampled: 2023-02-27						
Acid Herbicides						
2,4-D	< 0.10	MAC = 100	0.10	µg/L	2023-03-14	HT1
MCPA	< 0.02	MAC = 350	0.02	µg/L	2023-03-14	HT1
2,4,5-T	< 0.10	N/A	0.10	µg/L	2023-03-14	HT1
Dicamba	< 0.10	MAC = 110	0.10	µg/L	2023-03-14	HT1
Picloram	< 0.10	MAC = 190	0.10	µg/L	2023-03-14	HT1
Dinoseb	< 0.10	N/A	0.10	µg/L	2023-03-14	HT1
Anions						
Bromate	< 0.010	MAC = 0.01	0.010	mg/L	2023-03-06	
Chloride	4.40	AO ≤ 250	0.50	mg/L	2023-03-01	
Fluoride	0.15	MAC = 1.5	0.10	mg/L	2023-03-01	
Nitrate (as N)	0.088	MAC = 10	0.050	mg/L	2023-03-01	
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2023-03-01	
Sulfate	56.3	AO ≤ 500	1.0	mg/L	2023-03-01	
Calculated Parameters						
Chloramines	< 0.0400	MAC = 3	0.0400	mg/L	N/A	
Total Trihalomethanes	0.0291	MAC = 0.1	0.00400	mg/L	N/A	
Ion Balance	55.3	N/A		%	N/A	
Hardness, Total (as CaCO ₃)	233	None Required	0.541	mg/L	N/A	
Nitrate+Nitrite (as N)	0.0876	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	384	AO ≤ 500	2.00	mg/L	N/A	
Chlorinated Phenols						
2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2023-03-06	
3 & 4-Chlorophenol	< 0.10	N/A	0.10	µg/L	2023-03-06	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2023-03-06	
2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2023-03-06	
2,4 & 2,5-Dichlorophenol	< 0.20	AO ≤ 0.3	0.20	µg/L	2023-03-06	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2023-03-06	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2023-03-06	
3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2023-03-06	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2023-03-06	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2023-03-06	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2023-03-06	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2023-03-06	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50	µg/L	2023-03-06	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2023-03-06	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2023-03-06	
2,3,4,6-Tetrachlorophenol	< 0.50	AO ≤ 1	0.50	µg/L	2023-03-06	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50	µg/L	2023-03-06	
Surrogate: 2,4-Dibromophenol	77		60-130	%	2023-03-06	
Surrogate: 2,4,6-Tribromophenol	112		60-130	%	2023-03-06	

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Treated (23B2790-01) Matrix: Water Sampled: 2023-02-27, Continued						
General Parameters						
Alkalinity, Total (as CaCO ₃)	384	N/A	2.0	mg/L	2023-03-02	
Bicarbonate (HCO ₃)	468	N/A	2.0	mg/L	2023-03-02	
Carbonate (CO ₃)	< 2.0	N/A	2.0	mg/L	2023-03-02	
Hydroxide (OH)	< 2.0	N/A	2.0	mg/L	2023-03-02	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2023-03-02	
Carbon, Total Organic	1.35	N/A	0.50	mg/L	2023-03-02	
Chlorine, Total	0.37	None Required	0.02	mg/L	2023-03-02	HT2
Chlorine, Free	0.39	N/A	0.02	mg/L	2023-03-02	HT2
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2023-03-02	
Conductivity (EC)	466	N/A	2.0	µS/cm	2023-03-02	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-03-01	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20	mg/L	2023-03-02	
pH	7.42	7.0-10.5	0.10	pH units	2023-03-02	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2023-03-01	
Turbidity	< 0.10	OG < 1	0.10	NTU	2023-02-28	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Dichloroacetic Acid	0.0119	N/A	0.0020	mg/L	2023-03-03	
Trichloroacetic Acid	0.0147	N/A	0.0020	mg/L	2023-03-03	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Total Haloacetic Acids (HAA5)	0.0266	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	102		70-130	%	2023-03-03	
Microbiological Parameters						
Microcystin, total	< 0.05	MAC = 1.5	0.05	µg/L	2023-03-02	
Miscellaneous Herbicides						
Glyphosate	< 0.050	MAC = 0.28	0.050	mg/L	2023-03-06	
Pesticides, Herbicides, and Fungicides						
Alachlor	< 0.100	N/A	0.100	µg/L	2023-03-03	
Aldrin	< 0.006	N/A	0.006	µg/L	2023-03-03	
Atrazine and metabolites	< 0.100	MAC = 5	0.100	µg/L	2023-03-03	
Azinphos-methyl	< 0.200	MAC = 20	0.200	µg/L	2023-03-03	
alpha-BHC	< 0.010	N/A	0.010	µg/L	2023-03-03	
beta-BHC	< 0.050	N/A	0.050	µg/L	2023-03-03	
delta-BHC	< 0.050	N/A	0.050	µg/L	2023-03-03	
gamma-BHC (Lindane)	< 0.050	N/A	0.050	µg/L	2023-03-03	
Bromacil	< 0.100	N/A	0.100	µg/L	2023-03-03	
Bromoxynil	< 0.200	MAC = 30	0.200	µg/L	2023-03-03	
Butachlor	< 0.020	N/A	0.020	µg/L	2023-03-03	
Captan	< 0.100	N/A	0.100	µg/L	2023-03-03	

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<i>Pesticides, Herbicides, and Fungicides, Continued</i>						
Chlordane (cis + trans)	< 0.050	N/A	0.050	µg/L	2023-03-03	
Chlorothalonil	< 0.050	N/A	0.050	µg/L	2023-03-03	
Chlorpyrifos	< 0.010	MAC = 90	0.010	µg/L	2023-03-03	
Cyanazine	< 0.100	N/A	0.100	µg/L	2023-03-03	
DDT, Total	< 0.010	N/A	0.010	µg/L	2023-03-03	
Deltamethrin	< 0.100	N/A	0.100	µg/L	2023-03-03	
Diazinon	< 0.020	MAC = 20	0.020	µg/L	2023-03-03	
Dichlorvos	< 0.100	N/A	0.100	µg/L	2023-03-03	
Diclofop-methyl	< 0.100	MAC = 9	0.100	µg/L	2023-03-03	
Dieldrin	< 0.010	N/A	0.010	µg/L	2023-03-03	
Dimethoate	< 0.200	MAC = 20	0.200	µg/L	2023-03-03	
Disulfoton	< 0.100	N/A	0.100	µg/L	2023-03-03	
Diuron	< 0.200	MAC = 150	0.200	µg/L	2023-03-03	
Endosulfan I + II	< 0.010	N/A	0.010	µg/L	2023-03-03	
Endosulfan sulfate	< 0.050	N/A	0.050	µg/L	2023-03-03	
Endrin	< 0.020	N/A	0.020	µg/L	2023-03-03	
Endrin aldehyde	< 0.020	N/A	0.020	µg/L	2023-03-03	
Endrin ketone	< 0.020	N/A	0.020	µg/L	2023-03-03	
Fenchlorphos (Ronnell)	< 0.100	N/A	0.100	µg/L	2023-03-03	
Heptachlor	< 0.010	N/A	0.010	µg/L	2023-03-03	
Heptachlor epoxide	< 0.010	N/A	0.010	µg/L	2023-03-03	
Linuron	< 0.050	N/A	0.050	µg/L	2023-03-03	
Malathion	< 0.100	MAC = 290	0.100	µg/L	2023-03-03	
Methoxychlor	< 0.050	N/A	0.050	µg/L	2023-03-03	
Methyl parathion	< 0.100	N/A	0.100	µg/L	2023-03-03	
Metolachlor	< 0.100	MAC = 50	0.100	µg/L	2023-03-03	
Metribuzin	< 0.200	MAC = 80	0.200	µg/L	2023-03-03	
Parathion	< 0.100	N/A	0.100	µg/L	2023-03-03	
Pentachloronitrobenzene	< 0.100	N/A	0.100	µg/L	2023-03-03	
Permethrin	< 0.010	N/A	0.010	µg/L	2023-03-03	
Phorate	< 0.100	MAC = 2	0.100	µg/L	2023-03-03	
Prometon	< 0.300	N/A	0.300	µg/L	2023-03-03	
Prometryne	< 0.100	N/A	0.100	µg/L	2023-03-03	
Simazine	< 0.200	MAC = 10	0.200	µg/L	2023-03-03	
Sulfotep	< 0.100	N/A	0.100	µg/L	2023-03-03	
Tebuthiuron	< 0.200	N/A	0.200	µg/L	2023-03-03	
Temephos (Abate)	< 0.500	N/A	0.500	µg/L	2023-03-03	
Terbufos	< 0.100	MAC = 1	0.100	µg/L	2023-03-03	
Triallate	< 0.100	N/A	0.100	µg/L	2023-03-03	
Trifluralin	< 0.200	MAC = 45	0.200	µg/L	2023-03-03	
Surrogate: Tributyl Phosphate	78		50-140	%	2023-03-03	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	137		50-140	%	2023-03-03	

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Treated (23B2790-01) | Matrix: Water | Sampled: 2023-02-27, Continued

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	N/A	0.050	µg/L	2023-03-02	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2023-03-02	
Anthracene	< 0.010	N/A	0.010	µg/L	2023-03-02	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2023-03-02	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2023-03-02	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2023-03-02	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2023-03-02	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2023-03-02	
2-Chloronaphthalene	< 0.100	N/A	0.100	µg/L	2023-03-02	
Chrysene	< 0.050	N/A	0.050	µg/L	2023-03-02	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2023-03-02	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2023-03-02	
Fluorene	< 0.050	N/A	0.050	µg/L	2023-03-02	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2023-03-02	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2023-03-02	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2023-03-02	
Naphthalene	< 0.200	N/A	0.200	µg/L	2023-03-02	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2023-03-02	
Pyrene	0.023	N/A	0.020	µg/L	2023-03-02	
Quinoline	< 0.050	N/A	0.050	µg/L	2023-03-02	
Surrogate: Naphthalene-d8	103		50-140	%	2023-03-02	
Surrogate: Perylene-d12	102		50-140	%	2023-03-02	

Total Metals

Aluminum, total	0.0271	OG < 0.1	0.0050	mg/L	2023-03-04	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-03-04	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2023-03-04	
Barium, total	0.121	MAC = 2	0.0050	mg/L	2023-03-04	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-03-04	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2023-03-04	
Calcium, total	62.1	None Required	0.20	mg/L	2023-03-04	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-03-04	
Copper, total	0.00102	MAC = 2	0.00040	mg/L	2023-03-04	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-03-04	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-03-04	
Magnesium, total	18.9	None Required	0.010	mg/L	2023-03-04	
Manganese, total	0.00127	MAC = 0.12	0.00020	mg/L	2023-03-04	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2023-03-03	
Potassium, total	1.08	N/A	0.10	mg/L	2023-03-04	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-03-04	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2023-03-04	
Sodium, total	6.45	AO ≤ 200	0.10	mg/L	2023-03-04	
Strontium, total	0.440	MAC = 7	0.0010	mg/L	2023-03-04	

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Treated (23B2790-01) | Matrix: Water | Sampled: 2023-02-27, Continued

Total Metals, Continued

Uranium, total	0.000252	MAC = 0.02	0.000020	mg/L	2023-03-04	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2023-03-04	

Volatile Organic Compounds (VOC)

Benzene	< 0.5	MAC = 5	0.5	µg/L	2023-03-01	
Bromodichloromethane	1.6	N/A	1.0	µg/L	2023-03-01	
Bromoform	< 1.0	N/A	1.0	µg/L	2023-03-01	
Carbon tetrachloride	1.0	MAC = 2	0.5	µg/L	2023-03-01	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2023-03-01	
Chloroethane	< 2.0	N/A	2.0	µg/L	2023-03-01	
Chloroform	27.5	N/A	1.0	µg/L	2023-03-01	
Dibromochloromethane	< 1.0	N/A	1.0	µg/L	2023-03-01	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2023-03-01	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2023-03-01	
1,2-Dichlorobenzene	< 0.5	AO ≤ 3	0.5	µg/L	2023-03-01	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2023-03-01	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2023-03-01	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2023-03-01	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2023-03-01	
1,1-Dichloroethylene	< 1.0	MAC = 14	1.0	µg/L	2023-03-01	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2023-03-01	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2023-03-01	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2023-03-01	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2023-03-01	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2023-03-01	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2023-03-01	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2023-03-01	
Styrene	< 1.0	N/A	1.0	µg/L	2023-03-01	
1,1,2,2-Tetrachloroethane	< 0.5	N/A	0.5	µg/L	2023-03-01	
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2023-03-01	
Toluene	< 0.5	MAC = 60	0.5	µg/L	2023-03-01	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2023-03-01	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2023-03-01	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2023-03-01	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2023-03-01	
Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2023-03-01	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2023-03-01	
Surrogate: Toluene-d8	75		70-130	%	2023-03-01	
Surrogate: 4-Bromofluorobenzene	90		70-130	%	2023-03-01	

MPR-In (23B2790-02) | Matrix: Water | Sampled: 2023-02-27

Calculated Parameters

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MPR-In (23B2790-02) | Matrix: Water | Sampled: 2023-02-27, Continued

Calculated Parameters, Continued

Total Trihalomethanes	0.0198	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Dichloroacetic Acid	0.0076	N/A	0.0020	mg/L	2023-03-03	
Trichloroacetic Acid	0.0099	N/A	0.0020	mg/L	2023-03-03	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Total Haloacetic Acids (HAA5)	0.0175	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	106		70-130	%	2023-03-03	

Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0012	N/A	0.0010	mg/L	2023-03-01	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2023-03-01	
Chloroform	0.0186	N/A	0.0010	mg/L	2023-03-01	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2023-03-01	
Surrogate: Toluene-d8	68		70-130	%	2023-03-01	S02
Surrogate: 4-Bromofluorobenzene	85		70-130	%	2023-03-01	

MPR-Out (23B2790-03) | Matrix: Water | Sampled: 2023-02-27

Calculated Parameters

Total Trihalomethanes	0.0249	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Dichloroacetic Acid	0.0106	N/A	0.0020	mg/L	2023-03-03	
Trichloroacetic Acid	0.0135	N/A	0.0020	mg/L	2023-03-03	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Total Haloacetic Acids (HAA5)	0.0241	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	104		70-130	%	2023-03-03	

Volatile Organic Compounds (VOC)

Bromodichloromethane	0.0015	N/A	0.0010	mg/L	2023-03-01	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2023-03-01	
Chloroform	0.0234	N/A	0.0010	mg/L	2023-03-01	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2023-03-01	
Surrogate: Toluene-d8	65		70-130	%	2023-03-01	S02
Surrogate: 4-Bromofluorobenzene	81		70-130	%	2023-03-01	

Plant (23B2790-04) | Matrix: Water | Sampled: 2023-02-27

Calculated Parameters

TEST RESULTS

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Plant (23B2790-04) Matrix: Water Sampled: 2023-02-27, Continued						
Calculated Parameters, Continued						
Total Trihalomethanes	0.0130	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Dichloroacetic Acid	0.0052	N/A	0.0020	mg/L	2023-03-03	
Trichloroacetic Acid	0.0057	N/A	0.0020	mg/L	2023-03-03	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2023-03-03	
Total Haloacetic Acids (HAA5)	0.0109	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	105		70-130	%	2023-03-03	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	< 0.0010	N/A	0.0010	mg/L	2023-03-01	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2023-03-01	
Chloroform	0.0130	N/A	0.0010	mg/L	2023-03-01	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2023-03-01	
Surrogate: Toluene-d8	67		70-130	%	2023-03-01	S02
Surrogate: 4-Bromofluorobenzene	83		70-130	%	2023-03-01	

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.
S02	Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.

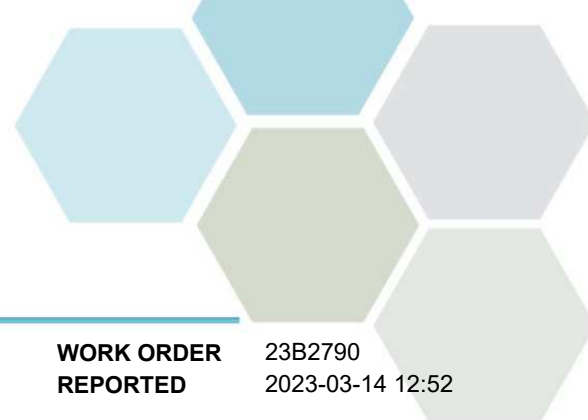
APPENDIX 1: SUPPORTING INFORMATION

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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
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	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
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 (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
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Edmonton
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: rpschyk@caro.ca

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

APPENDIX 2: QUALITY CONTROL RESULTS

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

- **Method Blank (BLK):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with 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 B3C1252

Blank (B3C1252-BLK1)			Prepared: 2023-03-13, Analyzed: 2023-03-14						
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 (B3C1252-BS1)			Prepared: 2023-03-13, Analyzed: 2023-03-14						
2,4-D	5.40	0.10 µg/L	5.00		108	70-130			
MCPA	5.05	0.02 µg/L	5.00		101	70-130			
2,4,5-T	4.99	0.10 µg/L	4.98		100	70-130			
Dicamba	4.81	0.10 µg/L	5.00		96	70-130			
Picloram	5.19	0.10 µg/L	5.00		104	70-130			
Dinoseb	5.55	0.10 µg/L	5.00		111	70-130			
LCS Dup (B3C1252-BSD1)			Prepared: 2023-03-13, Analyzed: 2023-03-14						
2,4-D	5.25	0.10 µg/L	5.00		105	70-130	3	30	
MCPA	5.24	0.02 µg/L	5.00		105	70-130	4	30	
2,4,5-T	5.07	0.10 µg/L	4.98		102	70-130	2	30	
Dicamba	4.63	0.10 µg/L	5.00		93	70-130	4	30	
Picloram	5.74	0.10 µg/L	5.00		115	70-130	10	30	
Dinoseb	5.68	0.10 µg/L	5.00		114	70-130	2	30	

Anions, Batch B3C0111

Blank (B3C0111-BLK1)			Prepared: 2023-03-01, Analyzed: 2023-03-01						
Chloride	< 0.50	0.50 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.050	0.050 mg/L							
Nitrite (as N)	< 0.050	0.050 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B3C0111-BS1)			Prepared: 2023-03-01, Analyzed: 2023-03-01						
Chloride	10.2	0.50 mg/L	10.0		102	90-110			
Fluoride	0.96	0.10 mg/L	1.00		96	85-115			
Nitrate (as N)	0.990	0.050 mg/L	1.00		99	92-108			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Anions, Batch B3C0111, Continued									
LCS (B3C0111-BS1), Continued				Prepared: 2023-03-01, Analyzed: 2023-03-01					
Nitrite (as N)	0.491	0.050 mg/L	0.500		98	85-115			
Sulfate	52.3	1.0 mg/L	50.0		105	90-110			
Duplicate (B3C0111-DUP1)				Source: 23B2790-01	Prepared: 2023-03-01, Analyzed: 2023-03-01				
Chloride	4.44	0.50 mg/L		4.40			< 1	7	
Fluoride	0.15	0.10 mg/L		0.15				15	
Nitrate (as N)	0.085	0.050 mg/L		0.088				12	
Nitrite (as N)	< 0.050	0.050 mg/L		< 0.050				18	
Sulfate	56.3	1.0 mg/L		56.3			< 1	8	
Matrix Spike (B3C0111-MS1)				Source: 23B2790-01	Prepared: 2023-03-01, Analyzed: 2023-03-01				
Chloride	14.2	0.50 mg/L	10.0	4.40	98	85-115			
Fluoride	1.09	0.10 mg/L	1.00	0.15	94	85-115			
Nitrate (as N)	1.10	0.050 mg/L	1.00	0.088	101	87-111			
Nitrite (as N)	0.440	0.050 mg/L	0.500	< 0.050	88	81-127			
Sulfate	101	1.0 mg/L	50.0	56.3	89	85-115			
Chlorinated Phenols, Batch B3C0430									
Blank (B3C0430-BLK1)				Prepared: 2023-03-04, Analyzed: 2023-03-06					
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	1.49	µg/L	2.00		74	60-130			
Surrogate: 2,4,6-Tribromophenol	2.14	µg/L	2.02		106	60-130			
LCS (B3C0430-BS1)				Prepared: 2023-03-04, Analyzed: 2023-03-06					
2-Chlorophenol	10.0	0.10 µg/L	10.0		100	60-130			
3 & 4-Chlorophenol	20.4	0.10 µg/L	20.0		102	60-130			
4-Chloro-3-Methylphenol	10.9	0.50 µg/L	10.0		109	60-130			
2,3-Dichlorophenol	9.32	0.20 µg/L	10.0		93	60-130			
2,4 & 2,5-Dichlorophenol	19.8	0.20 µg/L	20.0		99	60-130			
2,6-Dichlorophenol	10.1	0.20 µg/L	10.0		101	60-130			
3,4-Dichlorophenol	10.0	0.20 µg/L	10.0		100	60-130			
3,5-Dichlorophenol	9.42	0.20 µg/L	10.0		94	60-130			
2,3,4-Trichlorophenol	8.79	0.50 µg/L	10.0		88	60-130			
2,3,5-Trichlorophenol	9.69	0.50 µg/L	10.0		97	60-130			
2,3,6-Trichlorophenol	9.60	0.50 µg/L	10.0		96	60-130			
2,4,5-Trichlorophenol	8.95	0.50 µg/L	10.0		90	60-130			
2,4,6-Trichlorophenol	9.25	0.50 µg/L	10.0		92	60-130			
3,4,5-Trichlorophenol	9.42	0.50 µg/L	10.0		94	60-130			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	17.9	0.50 µg/L	20.0		90	60-130			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Chlorinated Phenols, Batch B3C0430, Continued									
LCS (B3C0430-BS1), Continued					Prepared: 2023-03-04, Analyzed: 2023-03-06				
2,3,4,6-Tetrachlorophenol	7.28	0.50 µg/L	10.0		73	60-130			
Pentachlorophenol	11.7	0.50 µg/L	10.0		117	60-130			
Surrogate: 2,4-Dibromophenol	1.73	µg/L	2.00		87	60-130			
Surrogate: 2,4,6-Tribromophenol	2.46	µg/L	2.02		122	60-130			
LCS Dup (B3C0430-BSD1)					Prepared: 2023-03-04, Analyzed: 2023-03-06				
2-Chlorophenol	9.65	0.10 µg/L	10.0		96	60-130	4	40	
3 & 4-Chlorophenol	20.1	0.10 µg/L	20.0		100	60-130	2	40	
4-Chloro-3-Methylphenol	10.6	0.50 µg/L	10.0		106	60-130	3	40	
2,3-Dichlorophenol	9.18	0.20 µg/L	10.0		92	60-130	2	40	
2,4 & 2,5-Dichlorophenol	19.6	0.20 µg/L	20.0		98	60-130	< 1	40	
2,6-Dichlorophenol	9.81	0.20 µg/L	10.0		98	60-130	3	40	
3,4-Dichlorophenol	10.1	0.20 µg/L	10.0		101	60-130	< 1	40	
3,5-Dichlorophenol	9.50	0.20 µg/L	10.0		95	60-130	< 1	40	
2,3,4-Trichlorophenol	8.97	0.50 µg/L	10.0		90	60-130	2	40	
2,3,5-Trichlorophenol	10.1	0.50 µg/L	10.0		101	60-130	4	40	
2,3,6-Trichlorophenol	9.84	0.50 µg/L	10.0		98	60-130	2	40	
2,4,5-Trichlorophenol	9.84	0.50 µg/L	10.0		98	60-130	9	40	
2,4,6-Trichlorophenol	10.2	0.50 µg/L	10.0		102	60-130	10	40	
3,4,5-Trichlorophenol	10.0	0.50 µg/L	10.0		100	60-130	6	40	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	19.5	0.50 µg/L	20.0		97	60-130	8	40	
2,3,4,6-Tetrachlorophenol	7.32	0.50 µg/L	10.0		73	60-130	< 1	40	
Pentachlorophenol	12.1	0.50 µg/L	10.0		121	60-130	3	40	
Surrogate: 2,4-Dibromophenol	1.70	µg/L	2.00		85	60-130			
Surrogate: 2,4,6-Tribromophenol	2.35	µg/L	2.02		116	60-130			

General Parameters, Batch B3B2598

Blank (B3B2598-BLK1)					Prepared: 2023-02-27, Analyzed: 2023-02-27				
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B3B2598-BLK2)					Prepared: 2023-03-02, Analyzed: 2023-03-02				
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B3B2598-BLK3)					Prepared: 2023-03-02, Analyzed: 2023-03-02				
Carbon, Total Organic	< 0.50	0.50 mg/L							
LCS (B3B2598-BS1)					Prepared: 2023-02-27, Analyzed: 2023-02-27				
Carbon, Total Organic	9.47	0.50 mg/L	10.0		95	78-116			
LCS (B3B2598-BS2)					Prepared: 2023-03-02, Analyzed: 2023-03-02				
Carbon, Total Organic	9.54	0.50 mg/L	10.0		95	78-116			
LCS (B3B2598-BS3)					Prepared: 2023-03-02, Analyzed: 2023-03-02				
Carbon, Total Organic	10.6	0.50 mg/L	10.0		106	78-116			

General Parameters, Batch B3B2733

Blank (B3B2733-BLK1)					Prepared: 2023-02-28, Analyzed: 2023-02-28				
Turbidity	< 0.10	0.10 NTU							
LCS (B3B2733-BS1)					Prepared: 2023-02-28, Analyzed: 2023-02-28				
Turbidity	40.8	0.10 NTU	40.0		102	90-110			

General Parameters, Batch B3C0026

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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General Parameters, Batch B3C0026, Continued

Blank (B3C0026-BLK1)			Prepared: 2023-03-02, Analyzed: 2023-03-02						
Colour, True	< 5.0	5.0 CU							
LCS (B3C0026-BS1)			Prepared: 2023-03-02, Analyzed: 2023-03-02						
Colour, True	25	5.0 CU	25.0		98	90-109			

General Parameters, Batch B3C0047

Blank (B3C0047-BLK1)			Prepared: 2023-03-01, Analyzed: 2023-03-01						
Cyanide, Total	< 0.0020	0.0020 mg/L							
Blank (B3C0047-BLK2)			Prepared: 2023-03-01, Analyzed: 2023-03-01						
Cyanide, Total	< 0.0020	0.0020 mg/L							
LCS (B3C0047-BS1)			Prepared: 2023-03-01, Analyzed: 2023-03-01						
Cyanide, Total	0.0207	0.0020 mg/L	0.0200		104	82-120			
LCS (B3C0047-BS2)			Prepared: 2023-03-01, Analyzed: 2023-03-01						
Cyanide, Total	0.0207	0.0020 mg/L	0.0200		103	82-120			
LCS Dup (B3C0047-BSD1)			Prepared: 2023-03-01, Analyzed: 2023-03-01						
Cyanide, Total	0.0203	0.0020 mg/L	0.0200		102	82-120	2	10	
LCS Dup (B3C0047-BSD2)			Prepared: 2023-03-01, Analyzed: 2023-03-01						
Cyanide, Total	0.0210	0.0020 mg/L	0.0200		105	82-120	1	10	

General Parameters, Batch B3C0086

Blank (B3C0086-BLK1)			Prepared: 2023-03-01, Analyzed: 2023-03-01						
Sulfide, Total	< 0.020	0.020 mg/L							
LCS (B3C0086-BS1)			Prepared: 2023-03-01, Analyzed: 2023-03-01						
Sulfide, Total	0.487	0.020 mg/L	0.520		94	80-120			
Matrix Spike (B3C0086-MS1)			Prepared: 2023-03-01, Analyzed: 2023-03-01						
Sulfide, Total	0.394	0.020 mg/L	0.520	< 0.020	76	70-130			

General Parameters, Batch B3C0142

Blank (B3C0142-BLK1)			Prepared: 2023-03-02, Analyzed: 2023-03-02						
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							
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B3C0142-BS1)			Prepared: 2023-03-02, Analyzed: 2023-03-02						
Alkalinity, Total (as CaCO ₃)	247	2.0 mg/L	250		99	94-108			
Conductivity (EC)	1000	2.0 µS/cm	1000		100	95-105			
Reference (B3C0142-SRM1)			Prepared: 2023-03-02, Analyzed: 2023-03-02						
pH	7.04	0.10 pH units	7.00		101	98-102			

General Parameters, Batch B3C0150

Blank (B3C0150-BLK1)			Prepared: 2023-03-02, Analyzed: 2023-03-02						
Chlorine, Total	< 0.02	0.02 mg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B3C0150, Continued									
Blank (B3C0150-BLK1), Continued				Prepared: 2023-03-02, Analyzed: 2023-03-02					
Chlorine, Free	< 0.02	0.02 mg/L							
Duplicate (B3C0150-DUP1)				Source: 23B2790-01		Prepared: 2023-03-02, Analyzed: 2023-03-02			
Chlorine, Total	0.37	0.02 mg/L		0.37			< 1	10	HT2
Chlorine, Free	0.39	0.02 mg/L		0.39			< 1	20	HT2
Reference (B3C0150-SRM1)				Prepared: 2023-03-02, Analyzed: 2023-03-02					
Chlorine, Total	1.58	0.02 mg/L	1.59		99	91.2-108.8			
Chlorine, Free	1.58	0.02 mg/L	1.59		99	91.2-108.8			
General Parameters, Batch B3C0160									
Blank (B3C0160-BLK1)				Prepared: 2023-03-02, Analyzed: 2023-03-02					
Nitritotriacetic Acid	< 0.20	0.20 mg/L							
LCS (B3C0160-BS1)				Prepared: 2023-03-02, Analyzed: 2023-03-02					
Nitritotriacetic Acid	1.11	0.20 mg/L	1.00		111	80-120			
LCS Dup (B3C0160-BSD1)				Prepared: 2023-03-02, Analyzed: 2023-03-02					
Nitritotriacetic Acid	1.12	0.20 mg/L	1.00		112	80-120	< 1	20	
Matrix Spike (B3C0160-MS1)				Source: 23B2790-01		Prepared: 2023-03-02, Analyzed: 2023-03-02			
Nitritotriacetic Acid	1.78	0.20 mg/L	2.00	< 0.20	80	70-130			
General Parameters, Batch B3C0241									
Blank (B3C0241-BLK1)				Prepared: 2023-03-02, Analyzed: 2023-03-02					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B3C0241-BS1)				Prepared: 2023-03-02, Analyzed: 2023-03-02					
Ammonia, Total (as N)	0.195	0.050 mg/L	0.200		98	85-115			
Haloacetic Acids, Batch B3C0309									
Blank (B3C0309-BLK1)				Prepared: 2023-03-03, Analyzed: 2023-03-03					
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	0.0122	mg/L	0.0117		104	70-130			
LCS (B3C0309-BS1)				Prepared: 2023-03-03, Analyzed: 2023-03-03					
Monochloroacetic Acid	0.0548	0.0020 mg/L	0.0564		97	75-117			
Monobromoacetic Acid	0.0364	0.0020 mg/L	0.0374		97	83-113			
Dichloroacetic Acid	0.0544	0.0020 mg/L	0.0558		97	78-112			
Trichloroacetic Acid	0.0182	0.0020 mg/L	0.0186		98	81-110			
Dibromoacetic Acid	0.0183	0.0020 mg/L	0.0187		98	89-112			
Surrogate: 2-Bromopropionic Acid	0.0114	mg/L	0.0117		97	70-130			
LCS Dup (B3C0309-BSD1)				Prepared: 2023-03-03, Analyzed: 2023-03-03					
Monochloroacetic Acid	0.0578	0.0020 mg/L	0.0564		102	75-117	5	30	
Monobromoacetic Acid	0.0389	0.0020 mg/L	0.0374		104	83-113	7	30	
Dichloroacetic Acid	0.0578	0.0020 mg/L	0.0558		104	78-112	6	30	
Trichloroacetic Acid	0.0192	0.0020 mg/L	0.0186		103	81-110	5	30	
Dibromoacetic Acid	0.0194	0.0020 mg/L	0.0187		104	89-112	6	30	

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Haloacetic Acids, Batch B3C0309, Continued

LCS Dup (B3C0309-BSD1), Continued

Prepared: 2023-03-03, Analyzed: 2023-03-03

Surrogate: 2-Bromopropionic Acid	0.0118	mg/L	0.0117		101	70-130			
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Miscellaneous Herbicides, Batch B3C0037

Blank (B3C0037-BLK1)

Prepared: 2023-03-04, Analyzed: 2023-03-06

Glyphosate	< 0.050	0.050 mg/L							
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LCS (B3C0037-BS1)

Prepared: 2023-03-04, Analyzed: 2023-03-06

Glyphosate	0.280	0.050 mg/L	0.250		112	70-130			
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LCS Dup (B3C0037-BSD1)

Prepared: 2023-03-04, Analyzed: 2023-03-06

Glyphosate	0.456	0.050 mg/L	0.250		183	70-130	48	20	SPK1
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Pesticides, Herbicides, and Fungicides, Batch B3C0152

Blank (B3C0152-BLK1)

Prepared: 2023-03-02, Analyzed: 2023-03-02

Alachlor	< 0.100	0.100 µg/L							
Aldrin	< 0.006	0.006 µg/L							
Atrazine and metabolites	< 0.100	0.100 µg/L							
Azinphos-methyl	< 0.200	0.200 µg/L							
alpha-BHC	< 0.010	0.010 µg/L							
beta-BHC	< 0.050	0.050 µg/L							
delta-BHC	< 0.050	0.050 µg/L							
gamma-BHC (Lindane)	< 0.050	0.050 µg/L							
Bromacil	< 0.100	0.100 µg/L							
Bromoxynil	< 0.200	0.200 µg/L							
Butachlor	< 0.020	0.020 µg/L							
Captan	< 0.100	0.100 µg/L							
Chlordane (cis + trans)	< 0.050	0.050 µg/L							
Chlorothalonil	< 0.050	0.050 µg/L							
Chlorpyrifos	< 0.010	0.010 µg/L							
Cyanazine	< 0.100	0.100 µg/L							
DDT, Total	< 0.010	0.010 µg/L							
Deltamethrin	< 0.100	0.100 µg/L							
Diazinon	< 0.020	0.020 µg/L							
Dichlorvos	< 0.100	0.100 µg/L							
Diclofop-methyl	< 0.100	0.100 µg/L							
Dieldrin	< 0.010	0.010 µg/L							
Dimethoate	< 0.200	0.200 µg/L							
Disulfoton	< 0.100	0.100 µg/L							
Diuron	< 0.200	0.200 µg/L							
Endosulfan I + II	< 0.010	0.010 µg/L							
Endosulfan sulfate	< 0.050	0.050 µg/L							
Endrin	< 0.020	0.020 µg/L							
Endrin aldehyde	< 0.020	0.020 µg/L							
Endrin ketone	< 0.020	0.020 µg/L							
Fenchlorphos (Ronnel)	< 0.100	0.100 µg/L							
Heptachlor	< 0.010	0.010 µg/L							
Heptachlor epoxide	< 0.010	0.010 µg/L							
Linuron	< 0.050	0.050 µg/L							
Malathion	< 0.100	0.100 µg/L							
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							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B3C0152, Continued									
Blank (B3C0152-BLK1), Continued					Prepared: 2023-03-02, Analyzed: 2023-03-02				
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	0.887	µg/L	0.998		89	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	1.58	µg/L	0.970		163	50-140			S02
LCS (B3C0152-BS1)					Prepared: 2023-03-02, Analyzed: 2023-03-02				
Alachlor	0.661	0.100 µg/L	0.768		86	50-140			
Aldrin	0.767	0.006 µg/L	1.00		77	50-140			
Atrazine	0.720	0.100 µg/L	0.768		94	50-140			
Atrazine-desethyl	0.536	0.100 µg/L	1.03		52	50-140			
Azinphos-methyl	1.27	0.200 µg/L	0.981		130	50-140			
alpha-BHC	1.03	0.010 µg/L	1.01		102	50-140			
beta-BHC	0.826	0.050 µg/L	1.01		82	50-140			
delta-BHC	0.808	0.050 µg/L	1.00		81	50-140			
gamma-BHC (Lindane)	0.903	0.050 µg/L	1.00		90	50-140			
Bromacil	0.678	0.100 µg/L	0.768		88	50-140			
Bromoxynil	0.884	0.200 µg/L	0.978		90	50-140			
Butachlor	0.780	0.020 µg/L	0.768		102	50-140			
Captan	0.923	0.100 µg/L	0.996		93	50-140			
Chlordane (cis + trans)	1.58	0.050 µg/L	2.01		79	50-140			
Chlorothalonil	0.769	0.050 µg/L	1.01		76	50-140			
Chlorpyrifos	0.763	0.010 µg/L	1.00		76	50-140			
Cyanazine	0.705	0.100 µg/L	0.768		92	50-140			
DDT, Total	5.16	0.010 µg/L	5.97		86	50-140			
Deltamethrin	12.1	0.100 µg/L	11.3		107	50-140			
Diazinon	0.761	0.020 µg/L	1.00		76	50-140			
Dichlorvos	0.959	0.100 µg/L	1.09		88	50-140			
Diclofop-methyl	0.830	0.100 µg/L	1.02		81	50-140			
Dieldrin	0.820	0.010 µg/L	1.00		82	50-140			
Dimethoate	0.684	0.200 µg/L	0.990		69	50-140			
Disulfoton	0.851	0.100 µg/L	1.02		83	50-140			
Diuron	1.07	0.200 µg/L	1.06		101	50-140			
Endosulfan I + II	1.68	0.010 µg/L	2.01		83	50-140			
Endosulfan sulfate	0.833	0.050 µg/L	1.01		82	50-140			
Endrin	0.894	0.020 µg/L	1.01		89	50-140			
Endrin aldehyde	0.639	0.020 µg/L	1.00		64	50-140			
Endrin ketone	0.830	0.020 µg/L	1.01		82	50-140			
Fenchlorphos (Ronnel)	0.772	0.100 µg/L	1.03		75	50-140			
Heptachlor	0.801	0.010 µg/L	1.01		79	50-140			
Heptachlor epoxide	0.780	0.010 µg/L	1.01		77	50-140			
Linuron	1.26	0.050 µg/L	1.07		118	50-140			
Malathion	0.922	0.100 µg/L	1.00		92	50-140			
Methoxychlor	1.19	0.050 µg/L	1.01		118	50-140			
Methyl parathion	0.995	0.100 µg/L	0.997		100	50-140			
Metolachlor	0.685	0.100 µg/L	0.760		90	50-140			
Metribuzin	0.667	0.200 µg/L	0.760		88	50-140			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B3C0152, Continued									
LCS (B3C0152-BS1), Continued					Prepared: 2023-03-02, Analyzed: 2023-03-02				
Parathion	1.07	0.100 µg/L	0.999		107	50-140			
Pentachloronitrobenzene	0.984	0.100 µg/L	0.989		100	50-140			
Permethrin	1.26	0.010 µg/L	1.04		121	50-140			
Phorate	0.996	0.100 µg/L	1.00		100	50-140			
Prometon	0.786	0.300 µg/L	0.760		103	50-140			
Prometryne	0.753	0.100 µg/L	0.760		99	50-140			
Simazine	0.628	0.200 µg/L	0.768		82	50-140			
Sulfotep	0.957	0.100 µg/L	1.04		92	50-140			
Tebuthiuron	0.756	0.200 µg/L	0.768		98	50-140			
Temephos (Abate)	9.43	0.500 µg/L	10.5		90	50-140			
Terbufos	1.04	0.100 µg/L	0.994		104	50-140			
Triallate	0.814	0.100 µg/L	1.01		81	50-140			
Trifluralin	0.775	0.200 µg/L	0.760		102	50-140			
Surrogate: Tributyl Phosphate	0.790	µg/L	0.998		79	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	1.21	µg/L	0.970		125	50-140			
LCS Dup (B3C0152-BSD1)					Prepared: 2023-03-02, Analyzed: 2023-03-02				
Alachlor	0.689	0.100 µg/L	0.768		90	50-140	4	30	
Aldrin	0.837	0.006 µg/L	1.00		84	50-140	9	30	
Atrazine	0.736	0.100 µg/L	0.768		96	50-140	2	30	
Atrazine-desethyl	0.623	0.100 µg/L	1.03		60	50-140	15	30	
Azinphos-methyl	1.24	0.200 µg/L	0.981		127	50-140	2	30	
alpha-BHC	1.11	0.010 µg/L	1.01		110	50-140	7	30	
beta-BHC	0.907	0.050 µg/L	1.01		90	50-140	9	30	
delta-BHC	0.911	0.050 µg/L	1.00		91	50-140	12	30	
gamma-BHC (Lindane)	0.975	0.050 µg/L	1.00		98	50-140	8	30	
Bromacil	0.701	0.100 µg/L	0.768		91	50-140	3	30	
Bromoxynil	0.957	0.200 µg/L	0.978		98	50-140	8	30	
Butachlor	0.827	0.020 µg/L	0.768		108	50-140	6	30	
Captan	0.992	0.100 µg/L	0.996		100	50-140	7	30	
Chlordane (cis + trans)	1.63	0.050 µg/L	2.01		81	50-140	3	30	
Chlorothalonil	0.882	0.050 µg/L	1.01		87	50-140	14	30	
Chlorpyrifos	0.845	0.010 µg/L	1.00		85	50-140	10	30	
Cyanazine	0.713	0.100 µg/L	0.768		93	50-140	1	30	
DDT, Total	5.42	0.010 µg/L	5.97		91	50-140	5	30	
Deltamethrin	10.5	0.100 µg/L	11.3		93	50-140	14	30	
Diazinon	0.720	0.020 µg/L	1.00		72	50-140	5	30	
Dichlorvos	1.03	0.100 µg/L	1.09		95	50-140	8	30	
Diclofop-methyl	0.869	0.100 µg/L	1.02		85	50-140	5	30	
Dieldrin	0.915	0.010 µg/L	1.00		92	50-140	11	30	
Dimethoate	0.796	0.200 µg/L	0.990		80	50-140	15	30	
Disulfoton	0.894	0.100 µg/L	1.02		88	50-140	5	30	
Diuron	0.470	0.200 µg/L	1.06		44	50-140	78	30	RPD, SPK
Endosulfan I + II	1.82	0.010 µg/L	2.01		90	50-140	8	30	
Endosulfan sulfate	0.935	0.050 µg/L	1.01		93	50-140	12	30	
Endrin	0.996	0.020 µg/L	1.01		99	50-140	11	30	
Endrin aldehyde	0.049	0.020 µg/L	1.00		5	50-140	172	30	RPD, SPK
Endrin ketone	0.826	0.020 µg/L	1.01		82	50-140	< 1	30	
Fenchlorphos (Ronnell)	0.855	0.100 µg/L	1.03		83	50-140	10	30	
Heptachlor	0.906	0.010 µg/L	1.01		90	50-140	12	30	
Heptachlor epoxide	0.803	0.010 µg/L	1.01		79	50-140	3	30	
Linuron	0.905	0.050 µg/L	1.07		85	50-140	33	30	RPD
Malathion	0.957	0.100 µg/L	1.00		96	50-140	4	30	
Methoxychlor	1.10	0.050 µg/L	1.01		108	50-140	9	30	
Methyl parathion	1.06	0.100 µg/L	0.997		107	50-140	7	30	
Metolachlor	0.728	0.100 µg/L	0.760		96	50-140	6	30	

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B3C0152, Continued									
LCS Dup (B3C0152-BSD1), Continued					Prepared: 2023-03-02, Analyzed: 2023-03-02				
Metribuzin	0.601	0.200 µg/L	0.760		79	50-140	10	30	
Parathion	1.14	0.100 µg/L	0.999		114	50-140	7	30	
Pentachloronitrobenzene	1.06	0.100 µg/L	0.989		107	50-140	7	30	
Permethrin	1.21	0.010 µg/L	1.04		116	50-140	4	30	
Phorate	1.05	0.100 µg/L	1.00		105	50-140	5	30	
Prometon	0.785	0.300 µg/L	0.760		103	50-140	< 1	30	
Prometryne	0.776	0.100 µg/L	0.760		102	50-140	3	30	
Simazine	0.692	0.200 µg/L	0.768		90	50-140	10	30	
Sulfotep	0.980	0.100 µg/L	1.04		94	50-140	2	30	
Tebuthiuron	0.872	0.200 µg/L	0.768		114	50-140	14	30	
Temephos (Abate)	8.35	0.500 µg/L	10.5		80	50-140	12	30	
Terbufos	1.04	0.100 µg/L	0.994		105	50-140	< 1	30	
Triallate	0.888	0.100 µg/L	1.01		88	50-140	9	30	
Trifluralin	0.823	0.200 µg/L	0.760		108	50-140	6	30	
Surrogate: Tributyl Phosphate	0.818	µg/L	0.998		82	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	1.38	µg/L	0.970		143	50-140			S02

Polycyclic Aromatic Hydrocarbons (PAH), Batch B3B2620

Blank (B3B2620-BLK1)			Prepared: 2023-02-27, Analyzed: 2023-03-02						
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							
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	36.0	µg/L	44.9		80	50-140			
Surrogate: Perylene-d12	38.3	µg/L	44.9		85	50-140			

LCS (B3B2620-BS2)			Prepared: 2023-02-27, Analyzed: 2023-03-02						
Acenaphthene	22.9	0.050 µg/L	22.2		103	50-140			
Acenaphthylene	24.1	0.200 µg/L	22.2		108	50-140			
Anthracene	22.7	0.010 µg/L	22.2		102	50-140			
Benz(a)anthracene	24.7	0.010 µg/L	22.2		111	50-140			
Benzo(a)pyrene	29.4	0.010 µg/L	22.2		132	50-140			
Benzo(b+j)fluoranthene	45.9	0.050 µg/L	44.4		103	50-140			
Benzo(g,h,i)perylene	27.6	0.050 µg/L	22.2		124	50-140			
Benzo(k)fluoranthene	25.5	0.050 µg/L	22.2		115	50-140			
2-Chloronaphthalene	19.8	0.100 µg/L	22.4		88	50-140			
Chrysene	26.5	0.050 µg/L	22.2		119	50-140			
Dibenz(a,h)anthracene	28.1	0.010 µg/L	22.2		126	50-140			
Fluoranthene	23.8	0.030 µg/L	22.2		107	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 B3B2620, Continued

LCS (B3B2620-BS2), Continued			Prepared: 2023-02-27, Analyzed: 2023-03-02						
Fluorene	22.4	0.050 µg/L	22.2		101	50-140			
Indeno(1,2,3-cd)pyrene	26.7	0.050 µg/L	22.2		120	50-140			
1-Methylnaphthalene	21.5	0.100 µg/L	22.2		97	50-140			
2-Methylnaphthalene	22.1	0.100 µg/L	22.2		99	50-140			
Naphthalene	21.4	0.200 µg/L	22.2		96	50-140			
Phenanthrene	23.3	0.100 µg/L	22.2		105	50-140			
Pyrene	23.9	0.020 µg/L	22.2		108	50-140			
Quinoline	29.5	0.050 µg/L	23.4		126	50-140			
Surrogate: Naphthalene-d8	36.8	µg/L	44.9		82	50-140			
Surrogate: Perylene-d12	38.8	µg/L	44.9		86	50-140			

Total Metals, Batch B3C0385

Blank (B3C0385-BLK1)			Prepared: 2023-03-03, Analyzed: 2023-03-03						
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B3C0385-BS1)			Prepared: 2023-03-03, Analyzed: 2023-03-03						
Mercury, total	0.000250	0.000010 mg/L	0.000250		100	80-120			

Total Metals, Batch B3C0434

Blank (B3C0434-BLK1)			Prepared: 2023-03-04, Analyzed: 2023-03-04						
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
LCS (B3C0434-BS1)			Prepared: 2023-03-04, Analyzed: 2023-03-04						
Aluminum, total	4.00	0.0050 mg/L	4.00		100	80-120			
Antimony, total	0.0400	0.00020 mg/L	0.0400		100	80-120			
Arsenic, total	0.398	0.00050 mg/L	0.400		99	80-120			
Barium, total	0.0383	0.0050 mg/L	0.0400		96	80-120			
Boron, total	0.415	0.0500 mg/L	0.400		104	80-120			
Cadmium, total	0.0390	0.000010 mg/L	0.0400		97	80-120			
Calcium, total	3.96	0.20 mg/L	4.00		99	80-120			
Chromium, total	0.0398	0.00050 mg/L	0.0400		100	80-120			
Copper, total	0.0398	0.00040 mg/L	0.0400		99	80-120			
Iron, total	4.04	0.010 mg/L	4.00		101	80-120			
Lead, total	0.0397	0.00020 mg/L	0.0400		99	80-120			
Magnesium, total	4.06	0.010 mg/L	4.00		101	80-120			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B3C0434, Continued									
LCS (B3C0434-BS1), Continued				Prepared: 2023-03-04, Analyzed: 2023-03-04					
Manganese, total	0.0402	0.00020 mg/L	0.0400		101	80-120			
Potassium, total	3.87	0.10 mg/L	4.00		97	80-120			
Selenium, total	0.396	0.00050 mg/L	0.400		99	80-120			
Silver, total	0.0404	0.000050 mg/L	0.0400		101	80-120			
Sodium, total	3.91	0.10 mg/L	4.00		98	80-120			
Strontium, total	0.0398	0.0010 mg/L	0.0400		100	80-120			
Uranium, total	0.0398	0.000020 mg/L	0.0400		99	80-120			
Zinc, total	0.394	0.0040 mg/L	0.400		98	80-120			

Volatile Organic Compounds (VOC), Batch B3B2623

Blank (B3B2623-BLK1)			Prepared: 2023-02-27, Analyzed: 2023-03-01						
Benzene	< 0.5	0.5 µg/L							
Bromodichloromethane	< 1.0	1.0 µg/L							
Bromoform	< 0.0010	0.0010 mg/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	< 0.0010	0.0010 mg/L							
1,2-Dibromoethane	< 0.3	0.3 µg/L							
Dibromomethane	< 1.0	1.0 µg/L							
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethylene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
Dichloromethane	< 3.0	3.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							
1,3-Dichloropropane (cis + trans)	< 1.0	1.0 µg/L							
Ethylbenzene	< 1.0	1.0 µg/L							
Methyl tert-butyl ether	< 1.0	1.0 µg/L							
Styrene	< 1.0	1.0 µg/L							
1,1,2,2-Tetrachloroethane	< 0.5	0.5 µg/L							
Tetrachloroethylene	< 1.0	1.0 µg/L							
Toluene	< 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	15.0	µg/L	20.0		75	70-130			
Surrogate: 4-Bromofluorobenzene	18.9	µg/L	20.0		95	70-130			

LCS (B3B2623-BS1)			Prepared: 2023-02-27, Analyzed: 2023-03-01						
Benzene	17.7	0.5 µg/L	20.1		88	70-130			
Bromodichloromethane	0.0204	0.0010 mg/L	0.0201		101	70-130			
Bromoform	23.1	1.0 µg/L	20.1		115	70-130			
Carbon tetrachloride	19.2	0.5 µg/L	20.1		95	70-130			
Chlorobenzene	22.5	1.0 µg/L	20.1		112	70-130			
Chloroethane	24.5	2.0 µg/L	20.1		122	60-140			
Chloroform	0.0193	0.0010 mg/L	0.0201		96	70-130			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B3B2623, Continued									
LCS (B3B2623-BS1), Continued					Prepared: 2023-02-27, Analyzed: 2023-03-01				
Dibromochloromethane	19.5	1.0 µg/L	20.1		97	70-130			
1,2-Dibromoethane	17.9	0.3 µg/L	20.1		89	70-130			
Dibromomethane	18.6	1.0 µg/L	20.1		92	70-130			
1,2-Dichlorobenzene	22.8	0.5 µg/L	20.1		113	70-130			
1,3-Dichlorobenzene	23.5	1.0 µg/L	20.1		117	70-130			
1,4-Dichlorobenzene	23.2	1.0 µg/L	20.1		115	70-130			
1,1-Dichloroethane	19.0	1.0 µg/L	20.1		94	70-130			
1,2-Dichloroethane	18.2	1.0 µg/L	20.1		91	70-130			
1,1-Dichloroethylene	28.2	1.0 µg/L	20.1		140	70-130			SPK1
cis-1,2-Dichloroethylene	20.1	1.0 µg/L	20.1		100	70-130			
trans-1,2-Dichloroethylene	26.9	1.0 µg/L	20.1		134	70-130			SPK1
Dichloromethane	25.1	3.0 µg/L	20.1		125	70-130			
1,2-Dichloropropane	18.6	1.0 µg/L	20.1		92	70-130			
1,3-Dichloropropene (cis + trans)	42.9	1.0 µg/L	40.0		107	70-130			
Ethylbenzene	19.8	1.0 µg/L	20.1		99	70-130			
Methyl tert-butyl ether	18.7	1.0 µg/L	20.0		93	70-130			
Styrene	20.4	1.0 µg/L	20.1		101	70-130			
1,1,2,2-Tetrachloroethane	18.8	0.5 µg/L	20.1		94	70-130			
Tetrachloroethylene	18.5	1.0 µg/L	20.1		92	70-130			
Toluene	18.7	0.5 µg/L	20.1		93	70-130			
1,1,1-Trichloroethane	19.1	1.0 µg/L	20.1		95	70-130			
1,1,2-Trichloroethane	19.5	1.0 µg/L	20.1		97	70-130			
Trichloroethylene	19.3	1.0 µg/L	20.1		96	70-130			
Trichlorofluoromethane	27.0	1.0 µg/L	20.1		134	60-140			
Vinyl chloride	27.2	1.0 µg/L	20.1		135	60-140			
Xylenes (total)	62.9	2.0 µg/L	60.2		105	70-130			
Surrogate: Toluene-d8	0.0185	mg/L	0.0200		92	70-130			
Surrogate: 4-Bromofluorobenzene	0.0226	mg/L	0.0200		113	70-130			

QC Qualifiers:

HT2	The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
RPD	Relative percent difference (RPD) of duplicate analysis are outside of control limits for unknown reason(s).
S02	Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.
SPK	The recovery of this analyte was outside of established control limits.
SPK1	The recovery of this analyte was outside of established control limits. The data was accepted based on performance of other batch QC.