

CERTIFICATE OF ANALYSIS

REPORTED TO Newell Regional Services Corporation
P.O. Box 638
Brooks, AB T1R 1B6

ATTENTION Ryan Melrose

PO NUMBER 5852

PROJECT Schedule 4

PROJECT INFO WTP 2025 SUMMER ANALYSES

WORK ORDER 25G2470

RECEIVED / TEMP 2025-07-16 09:00 / 16.2°C

REPORTED 2025-07-30 13:12

COC NUMBER no #

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.

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

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TEST RESULTS

REPORTED TO PROJECT Newell Regional Services Corporation
Schedule 4

WORK ORDER REPORTED 25G2470
2025-07-30 13:12

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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WTP HDR #1 (25G2470-01) | Matrix: Water | Sampled: 2025-07-15 10:15

Acid Herbicides

2,4-D	< 0.10	MAC = 100	0.10	µg/L	2025-07-25	
2,4-DB	< 0.10	N/A	0.10	µg/L	2025-07-25	
Dichlorprop (2,4-DP)	< 0.10	N/A	0.10	µg/L	2025-07-25	
Fenoprop	< 0.10	N/A	0.10	µg/L	2025-07-25	
MCPA	< 0.02	MAC = 350	0.02	µg/L	2025-07-25	
MCPB	< 0.10	N/A	0.10	µg/L	2025-07-25	
2,4,5-T	< 0.10	N/A	0.10	µg/L	2025-07-25	
MCPB	< 0.10	N/A	0.10	µg/L	2025-07-25	
Acifluorfen	< 0.10	N/A	0.10	µg/L	2025-07-25	
Bentazon	< 0.10	N/A	0.10	µg/L	2025-07-25	
Chloramben	< 0.10	N/A	0.10	µg/L	2025-07-25	
Dicamba	< 0.10	MAC = 110	0.10	µg/L	2025-07-25	
Triclopyr	< 0.10	N/A	0.10	µg/L	2025-07-25	
Picloram	< 0.10	N/A	0.10	µg/L	2025-07-25	
Clopyralid	< 0.10	N/A	0.10	µg/L	2025-07-25	
Bromoxynil	< 0.10	MAC = 30	0.10	µg/L	2025-07-25	
Dinoseb	< 0.10	N/A	0.10	µg/L	2025-07-25	

Anions

Bromate	< 0.005	MAC = 0.01	0.005	mg/L	2025-07-18	
Chlorate	< 0.50	MAC = 1	0.50	mg/L	2025-07-21	
Chloride	17.3	AO ≤ 250	0.50	mg/L	2025-07-21	
Chlorite	< 0.50	MAC = 1	0.50	mg/L	2025-07-21	
Fluoride	0.13	MAC = 1.5	0.10	mg/L	2025-07-21	
Nitrate (as N)	< 0.050	MAC = 10	0.050	mg/L	2025-07-21	HT1
Nitrite (as N)	< 0.050	MAC = 1	0.050	mg/L	2025-07-21	HT1
Sulfate	53.2	AO ≤ 500	1.0	mg/L	2025-07-21	

Calculated Parameters

Chloramines	0.200	MAC = 3	0.0400	mg/L	N/A	
Total Trihalomethanes	0.0339	MAC = 0.1	0.00400	mg/L	N/A	
Ion Balance	104	N/A		%	N/A	
Hardness, Total (as CaCO ₃)	169	None Required	0.541	mg/L	N/A	
Nitrate+Nitrite (as N)	< 0.0500	N/A	0.0500	mg/L	N/A	
Solids, Total Dissolved	229	AO ≤ 500	2.00	mg/L	N/A	

Chlorinated Phenols

2-Chlorophenol	< 0.10	N/A	0.10	µg/L	2025-07-23	
3 & 4-Chlorophenol	< 0.10	N/A	0.10	µg/L	2025-07-23	
4-Chloro-3-Methylphenol	< 0.50	N/A	0.50	µg/L	2025-07-23	
2,3-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-07-23	
2,4 & 2,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-07-23	
2,6-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-07-23	
3,4-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-07-23	

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WTP HDR #1 (25G2470-01) | Matrix: Water | Sampled: 2025-07-15 10:15, Continued

Chlorinated Phenols, Continued

3,5-Dichlorophenol	< 0.20	N/A	0.20	µg/L	2025-07-23	
2,3,4-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-23	
2,3,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-23	
2,3,6-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-23	
2,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-23	
2,4,6-Trichlorophenol	< 0.50	AO ≤ 2	0.50	µg/L	2025-07-23	
3,4,5-Trichlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-23	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-23	
2,3,4,6-Tetrachlorophenol	< 0.50	N/A	0.50	µg/L	2025-07-23	
Pentachlorophenol	< 0.50	AO ≤ 30	0.50	µg/L	2025-07-23	
Surrogate: 2,4-Dibromophenol	98		60-130	%	2025-07-23	
Surrogate: 2,4,6-Tribromophenol	86		60-130	%	2025-07-23	

General Parameters

Alkalinity, Total (as CaCO ₃)	129	N/A	2.0	mg/L	2025-07-18	
Bicarbonate (HCO ₃)	157	N/A	2.5	mg/L	2025-07-18	
Carbonate (CO ₃)	< 2.0	N/A	2.0	mg/L	2025-07-18	
Hydroxide (OH)	< 2.0	N/A	2.0	mg/L	2025-07-18	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-07-19	
Carbon, Total Organic	2.01	N/A	0.50	mg/L	2025-07-21	
Chlorine, Total	1.49	None Required	0.02	mg/L	2025-07-18	HT2
Chlorine, Free	1.29	N/A	0.02	mg/L	2025-07-18	HT2
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2025-07-23	HT2
Conductivity (EC)	427	N/A	2.0	µS/cm	2025-07-18	
Cyanide, Total	0.0031	MAC = 0.2	0.0020	mg/L	2025-07-22	
Nitritotriacetic Acid	< 0.20	MAC = 0.4	0.20	mg/L	2025-07-21	
pH	7.99	7.0-10.5	0.10	pH units	2025-07-18	HT2
Sulfide, Total	< 0.020	AO ≤ 0.05	0.020	mg/L	2025-07-22	
Turbidity	< 0.10	OG < 1	0.10	NTU	2025-07-18	HT1

Microbiological Parameters

Microcystin, total	< 0.05	MAC = 1.5	0.05	µg/L	2025-07-18	
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Miscellaneous Herbicides

Glyphosate	< 0.050	MAC = 0.28	0.050	mg/L	2025-07-29	
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Miscellaneous Organics

N-Nitrosodimethylamine	< 0.000009	MAC = 0.00004	0.000009	mg/L	2025-07-24	
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Pesticides, Herbicides, and Fungicides

Alachlor	< 0.140	N/A	0.100	µg/L	2025-07-26	
Aldrin	< 0.008	N/A	0.006	µg/L	2025-07-26	
Atrazine and metabolites	< 0.140	MAC = 5	0.100	µg/L	2025-07-26	
Azinphos-methyl	< 0.281	N/A	0.200	µg/L	2025-07-26	
alpha-BHC	< 0.014	N/A	0.010	µg/L	2025-07-26	

RS2

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WTP HDR #1 (25G2470-01) Matrix: Water Sampled: 2025-07-15 10:15, Continued						
<i>Pesticides, Herbicides, and Fungicides, Continued</i>						RS2
beta-BHC	< 0.070	N/A	0.050	µg/L	2025-07-26	
delta-BHC	< 0.070	N/A	0.050	µg/L	2025-07-26	
gamma-BHC (Lindane)	< 0.070	N/A	0.050	µg/L	2025-07-26	
Bromacil	< 0.140	N/A	0.100	µg/L	2025-07-26	
Bromoxynil	< 0.281	MAC = 30	0.200	µg/L	2025-07-26	
Butachlor	< 0.028	N/A	0.020	µg/L	2025-07-26	
Captan	< 0.140	N/A	0.100	µg/L	2025-07-26	
Chlordane (cis + trans)	< 0.070	N/A	0.050	µg/L	2025-07-26	
Chlorothalonil	< 0.070	N/A	0.050	µg/L	2025-07-26	
Chlorpyrifos	< 0.014	MAC = 90	0.010	µg/L	2025-07-26	
Cyanazine	< 0.140	N/A	0.100	µg/L	2025-07-26	
DDT, Total	< 0.014	N/A	0.010	µg/L	2025-07-26	
Deltamethrin	< 0.140	N/A	0.100	µg/L	2025-07-26	
Diazinon	< 0.028	N/A	0.020	µg/L	2025-07-26	
Dichlorvos	< 0.140	N/A	0.100	µg/L	2025-07-26	
Diclofop-methyl	< 0.140	N/A	0.100	µg/L	2025-07-26	
Dieldrin	< 0.014	N/A	0.010	µg/L	2025-07-26	
Dimethoate	< 0.281	MAC = 20	0.200	µg/L	2025-07-26	
Disulfoton	< 0.140	N/A	0.100	µg/L	2025-07-26	
Diuron	< 0.281	MAC = 150	0.200	µg/L	2025-07-26	
Endosulfan I + II	< 0.014	N/A	0.010	µg/L	2025-07-26	
Endosulfan sulfate	< 0.070	N/A	0.050	µg/L	2025-07-26	
Endrin	< 0.028	N/A	0.020	µg/L	2025-07-26	
Endrin aldehyde	< 0.028	N/A	0.020	µg/L	2025-07-26	
Endrin ketone	< 0.028	N/A	0.020	µg/L	2025-07-26	
Fenchlorphos (Ronnell)	< 0.140	N/A	0.100	µg/L	2025-07-26	
Heptachlor	< 0.014	N/A	0.010	µg/L	2025-07-26	
Heptachlor epoxide	< 0.014	N/A	0.010	µg/L	2025-07-26	
Linuron	< 0.070	N/A	0.050	µg/L	2025-07-26	
Malathion	< 0.140	MAC = 290	0.100	µg/L	2025-07-26	
Methoxychlor	< 0.070	N/A	0.050	µg/L	2025-07-26	
Methyl parathion	< 0.140	N/A	0.100	µg/L	2025-07-26	
Metolachlor	< 0.140	N/A	0.100	µg/L	2025-07-26	
Metribuzin	< 0.281	MAC = 80	0.200	µg/L	2025-07-26	
Parathion	< 0.140	N/A	0.100	µg/L	2025-07-26	
Pentachloronitrobenzene	< 0.140	N/A	0.100	µg/L	2025-07-26	
Permethrin	< 0.014	N/A	0.010	µg/L	2025-07-26	
Phorate	< 0.140	N/A	0.100	µg/L	2025-07-26	
Prometon	< 0.421	N/A	0.300	µg/L	2025-07-26	
Prometryne	< 0.140	N/A	0.100	µg/L	2025-07-26	
Simazine	< 0.281	N/A	0.200	µg/L	2025-07-26	
Sulfotep	< 0.140	N/A	0.100	µg/L	2025-07-26	
Tebuthiuron	< 0.281	N/A	0.200	µg/L	2025-07-26	

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WTP HDR #1 (25G2470-01) | Matrix: Water | Sampled: 2025-07-15 10:15, Continued

Pesticides, Herbicides, and Fungicides, Continued

RS2

Temephos (Abate)	< 0.702	N/A	0.500	µg/L	2025-07-26	
Terbufos	< 0.140	N/A	0.100	µg/L	2025-07-26	
Triallate	< 0.140	N/A	0.100	µg/L	2025-07-26	
Trifluralin	< 0.281	N/A	0.200	µg/L	2025-07-26	
Surrogate: Tributyl Phosphate	115		50-140	%	2025-07-26	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	84		50-140	%	2025-07-26	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	N/A	0.050	µg/L	2025-07-18	
Acenaphthylene	< 0.200	N/A	0.200	µg/L	2025-07-18	
Acridine	< 0.050	N/A	0.050	µg/L	2025-07-18	
Anthracene	< 0.010	N/A	0.010	µg/L	2025-07-18	
Benz(a)anthracene	< 0.010	N/A	0.010	µg/L	2025-07-18	
Benzo(a)pyrene	< 0.010	MAC = 0.04	0.010	µg/L	2025-07-18	
Benzo(b+j)fluoranthene	< 0.050	N/A	0.050	µg/L	2025-07-18	
Benzo(g,h,i)perylene	< 0.050	N/A	0.050	µg/L	2025-07-18	
Benzo(k)fluoranthene	< 0.050	N/A	0.050	µg/L	2025-07-18	
2-Chloronaphthalene	< 0.100	N/A	0.100	µg/L	2025-07-18	
Chrysene	< 0.050	N/A	0.050	µg/L	2025-07-18	
Dibenz(a,h)anthracene	< 0.010	N/A	0.010	µg/L	2025-07-18	
Fluoranthene	< 0.030	N/A	0.030	µg/L	2025-07-18	
Fluorene	< 0.050	N/A	0.050	µg/L	2025-07-18	
Indeno(1,2,3-cd)pyrene	< 0.050	N/A	0.050	µg/L	2025-07-18	
1-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2025-07-18	
2-Methylnaphthalene	< 0.100	N/A	0.100	µg/L	2025-07-18	
Naphthalene	< 0.200	N/A	0.200	µg/L	2025-07-18	
Phenanthrene	< 0.100	N/A	0.100	µg/L	2025-07-18	
Pyrene	< 0.020	N/A	0.020	µg/L	2025-07-18	
Quinoline	< 0.050	N/A	0.050	µg/L	2025-07-18	
Surrogate: Naphthalene-d8	104		50-140	%	2025-07-18	
Surrogate: Perylene-d12	162		50-140	%	2025-07-18	S02

Total Metals

Aluminum, total	0.0338	OG < 0.1	0.0050	mg/L	2025-07-19	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-07-19	
Arsenic, total	0.00128	MAC = 0.01	0.00050	mg/L	2025-07-19	
Barium, total	0.0675	MAC = 2	0.0050	mg/L	2025-07-19	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-07-19	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2025-07-19	
Calcium, total	39.9	None Required	0.20	mg/L	2025-07-19	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-07-19	
Copper, total	0.00051	MAC = 2	0.00040	mg/L	2025-07-19	
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2025-07-19	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-07-19	

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WTP HDR #1 (25G2470-01) | Matrix: Water | Sampled: 2025-07-15 10:15, Continued

Total Metals, Continued

Magnesium, total	16.8	None Required	0.010	mg/L	2025-07-19	
Manganese, total	0.00062	MAC = 0.12	0.00020	mg/L	2025-07-19	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2025-07-20	
Potassium, total	1.81	N/A	0.10	mg/L	2025-07-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-07-19	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2025-07-19	
Sodium, total	21.0	AO ≤ 200	0.10	mg/L	2025-07-19	
Strontium, total	0.232	MAC = 7	0.0010	mg/L	2025-07-19	
Uranium, total	0.000635	MAC = 0.02	0.000020	mg/L	2025-07-19	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-07-19	

Volatile Organic Compounds (VOC)

Benzene	< 0.5	MAC = 5	0.5	µg/L	2025-07-18	
Bromodichloromethane	5.5	N/A	1.0	µg/L	2025-07-18	
Bromoform	< 1.0	N/A	1.0	µg/L	2025-07-18	
Carbon tetrachloride	< 0.5	MAC = 2	0.5	µg/L	2025-07-18	
Chlorobenzene	< 1.0	AO ≤ 30	1.0	µg/L	2025-07-18	
Chloroethane	< 2.0	N/A	2.0	µg/L	2025-07-18	
Chloroform	28.3	N/A	1.0	µg/L	2025-07-18	
Dibromochloromethane	< 1.0	N/A	1.0	µg/L	2025-07-18	
1,2-Dibromoethane	< 0.3	N/A	0.3	µg/L	2025-07-18	
Dibromomethane	< 1.0	N/A	1.0	µg/L	2025-07-18	
1,2-Dichlorobenzene	< 0.5	N/A	0.5	µg/L	2025-07-18	
1,3-Dichlorobenzene	< 1.0	N/A	1.0	µg/L	2025-07-18	
1,4-Dichlorobenzene	< 1.0	AO ≤ 1	1.0	µg/L	2025-07-18	
1,1-Dichloroethane	< 1.0	N/A	1.0	µg/L	2025-07-18	
1,2-Dichloroethane	< 1.0	MAC = 5	1.0	µg/L	2025-07-18	
1,1-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2025-07-18	
cis-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2025-07-18	
trans-1,2-Dichloroethylene	< 1.0	N/A	1.0	µg/L	2025-07-18	
Dichloromethane	< 3.0	MAC = 50	3.0	µg/L	2025-07-18	
1,2-Dichloropropane	< 1.0	N/A	1.0	µg/L	2025-07-18	
1,3-Dichloropropene (cis + trans)	< 1.0	N/A	1.0	µg/L	2025-07-18	
Ethylbenzene	< 1.0	AO ≤ 1.6	1.0	µg/L	2025-07-18	
Methyl tert-butyl ether	< 1.0	AO ≤ 15	1.0	µg/L	2025-07-18	
Styrene	< 1.0	N/A	1.0	µg/L	2025-07-18	
1,1,2,2-Tetrachloroethane	< 3.0	N/A	0.5	µg/L	2025-07-18	RA1
Tetrachloroethylene	< 1.0	MAC = 10	1.0	µg/L	2025-07-18	
Toluene	< 0.5	MAC = 60	0.5	µg/L	2025-07-18	
1,1,1-Trichloroethane	< 1.0	N/A	1.0	µg/L	2025-07-18	
1,1,2-Trichloroethane	< 1.0	N/A	1.0	µg/L	2025-07-18	
Trichloroethylene	< 1.0	MAC = 5	1.0	µg/L	2025-07-18	
Trichlorofluoromethane	< 1.0	N/A	1.0	µg/L	2025-07-18	



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WTP HDR #1 (25G2470-01) | Matrix: Water | Sampled: 2025-07-15 10:15, Continued

Volatile Organic Compounds (VOC), Continued

Vinyl chloride	< 1.0	MAC = 2	1.0	µg/L	2025-07-18	
Xylenes (total)	< 2.0	AO ≤ 20	2.0	µg/L	2025-07-18	
Surrogate: Toluene-d8	113		70-130	%	2025-07-18	
Surrogate: 4-Bromofluorobenzene	109		70-130	%	2025-07-18	

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 for this sample has been raised due to matrix interference.
RS2	The Reporting Limits for this sample have been raised due to limited sample volume.
S02	Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.

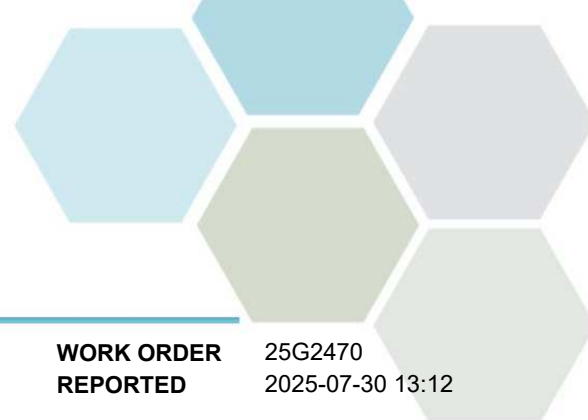
APPENDIX 1: SUPPORTING INFORMATION

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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
Anions in Water	SM 4110 B* (2020)	Ion Chromatography	✓	Edmonton
Bromate in Water	SM 4110 B (2020)	Ion Chromatography	✓	Sublet
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO2 Detection	✓	Kelowna
Chlorine, Free in Water	SM 4500-Cl G (2021)	Colorimetry (DPD)	✓	Edmonton
Chlorine, Total in Water	SM 4500-Cl G (2021)	Colorimetry (DPD)	✓	Edmonton
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Edmonton
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Edmonton
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Cyanobacterial Toxins in Water	EPA 546*	Adda Enzyme-Linked Immunosorbent Assay (ELISA)	✓	Sublet
Glyphosate in Water	EPA 547*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	✓	Richmond
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Ion Balance in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitrate+Nitrite in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Nitritotriacetic Acid in Water	EPA 430.1	Manual Colorimetry (Zinc-Zincon)	✓	Edmonton
N-Nitrosodimethylamine in Water	In-House	N/A	✓	Sublet
Pesticides in Water	EPA 3510C* / EPA 8270D*	Liquid-Liquid DCM Extraction (B/N) / GC-MSD (SIM)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Edmonton
Phenols, Chlorinated in Water	EPA 3510C* / EPA 8270D	Liquid-Liquid DCM Extraction (Acidic) / GC-MSD (SIM)	✓	Richmond
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MSD (SIM)		Edmonton
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E	✓	N/A
Sulfide, Total in Water	SM 4500-S2 D* (2021)	Colorimetry (Methylene Blue)	✓	Edmonton
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Edmonton
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Edmonton

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



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Glossary of Terms:

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

General Comments:

The results in this report apply to samples received by CARO and analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety and must not be modified. CARO is not responsible for losses or damages resulting directly or indirectly from errors or omissions in the conduct of the testing. Any 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. Results in **red** indicate values above the regulatory limits where these have been included. 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: hhannaoui@caro.ca

Regulatory limits are added to test reports on request and are as a convenience only. While CARO makes every effort to ensure accuracy of regulatory limits, CARO assumes no liability for the use of this information. It remains the client's responsibility to ensure that regulatory limits are correct for their circumstances.

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 B5G4465

Blank (B5G4465-BLK1)			Prepared: 2025-07-24, Analyzed: 2025-07-25						
2,4-D	< 0.10	0.10 µg/L							
2,4-DB	< 0.10	0.10 µg/L							
Dichlorprop (2,4-DP)	< 0.10	0.10 µg/L							
Fenoprop	< 0.10	0.10 µg/L							
MCPA	< 0.02	0.02 µg/L							
MCPB	< 0.10	0.10 µg/L							
2,4,5-T	< 0.10	0.10 µg/L							
MCP	< 0.10	0.10 µg/L							
Acifluorfen	< 0.10	0.10 µg/L							
Bentazon	< 0.10	0.10 µg/L							
Chloramben	< 0.10	0.10 µg/L							
Dicamba	< 0.10	0.10 µg/L							
Triclopyr	< 0.10	0.10 µg/L							
Picloram	< 0.10	0.10 µg/L							
Clpyralid	< 0.10	0.10 µg/L							
Bromoxynil	< 0.10	0.10 µg/L							
Dinoseb	< 0.10	0.10 µg/L							

LCS (B5G4465-BS1)			Prepared: 2025-07-24, Analyzed: 2025-07-25						
2,4-D	5.34	0.10 µg/L	5.05		106	75-125			
2,4-DB	5.32	0.10 µg/L	5.00		106	70-130			
Dichlorprop (2,4-DP)	5.08	0.10 µg/L	5.00		102	75-125			
Fenoprop	5.00	0.10 µg/L	5.00		100	70-130			
MCPA	5.09	0.02 µg/L	5.00		102	80-120			
MCPB	5.20	0.10 µg/L	5.00		104	70-130			
2,4,5-T	4.99	0.10 µg/L	5.05		99	75-125			
MCP	5.10	0.10 µg/L	5.00		102	75-125			
Acifluorfen	4.86	0.10 µg/L	5.00		97	70-130			
Bentazon	5.04	0.10 µg/L	5.00		101	70-130			
Chloramben	4.84	0.10 µg/L	5.00		97	75-125			
Dicamba	4.68	0.10 µg/L	5.00		94	70-130			
Triclopyr	5.17	0.10 µg/L	5.00		103	75-125			
Picloram	4.84	0.10 µg/L	5.00		97	70-130			
Clpyralid	4.70	0.10 µg/L	5.00		94	70-130			
Bromoxynil	5.27	0.10 µg/L	5.00		105	70-130			
Dinoseb	5.24	0.10 µg/L	5.00		105	70-130			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Acid Herbicides, Batch B5G4465, Continued									
LCS Dup (B5G4465-BSD1)				Prepared: 2025-07-24, Analyzed: 2025-07-25					
2,4-D	5.04	0.10 µg/L	5.05		100	75-125	6	30	
2,4-DB	5.23	0.10 µg/L	5.00		105	70-130	2	30	
Dichlorprop (2,4-DP)	5.09	0.10 µg/L	5.00		102	75-125	< 1	30	
Fenoprop	5.23	0.10 µg/L	5.00		105	70-130	5	30	
MCPA	4.99	0.02 µg/L	5.00		100	80-120	2	30	
MCPB	5.52	0.10 µg/L	5.00		110	70-130	6	30	
2,4,5-T	5.08	0.10 µg/L	5.05		101	75-125	2	30	
MCPB	5.14	0.10 µg/L	5.00		103	75-125	< 1	30	
Acifluorfen	4.91	0.10 µg/L	5.00		98	70-130	1	30	
Bentazon	4.97	0.10 µg/L	5.00		99	70-130	1	30	
Chloramben	4.97	0.10 µg/L	5.00		99	75-125	3	30	
Dicamba	5.07	0.10 µg/L	5.00		101	70-130	8	30	
Triclopyr	5.19	0.10 µg/L	5.00		104	75-125	< 1	30	
Picloram	4.86	0.10 µg/L	5.00		97	70-130	< 1	30	
Clopyralid	4.73	0.10 µg/L	5.00		95	70-130	< 1	30	
Bromoxynil	4.99	0.10 µg/L	5.00		100	70-130	6	30	
Dinoseb	5.32	0.10 µg/L	5.00		106	70-130	2	30	
Anions, Batch B5G4009									
Blank (B5G4009-BLK1)				Prepared: 2025-07-21, Analyzed: 2025-07-21					
Chlorate	< 0.50	0.50 mg/L							
Chloride	< 0.50	0.50 mg/L							
Chlorite	< 0.50	0.50 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.050	0.050 mg/L							
Nitrite (as N)	< 0.050	0.050 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5G4009-BS1)				Prepared: 2025-07-21, Analyzed: 2025-07-21					
Chlorate	9.28	0.50 mg/L	10.0		93	89-112			
Chloride	8.97	0.50 mg/L	10.0		90	90-110			
Chlorite	9.74	0.50 mg/L	10.0		97	80-120			
Fluoride	1.03	0.10 mg/L	1.00		103	85-115			
Nitrate (as N)	0.943	0.050 mg/L	1.00		94	92-108			
Nitrite (as N)	0.518	0.050 mg/L	0.500		104	85-115			
Sulfate	47.9	1.0 mg/L	50.0		96	90-110			
Duplicate (B5G4009-DUP1)				Source: 25G2470-01	Prepared: 2025-07-21, Analyzed: 2025-07-21				
Chlorate	< 0.50	0.50 mg/L		< 0.50					9
Chloride	17.5	0.50 mg/L		17.3			1		7
Chlorite	< 0.50	0.50 mg/L		< 0.50					20
Fluoride	0.11	0.10 mg/L		0.13					15
Nitrate (as N)	< 0.050	0.050 mg/L		< 0.050					12
Nitrite (as N)	< 0.050	0.050 mg/L		< 0.050					18
Sulfate	55.1	1.0 mg/L		53.2			3		8
Matrix Spike (B5G4009-MS1)				Source: 25G2470-01	Prepared: 2025-07-21, Analyzed: 2025-07-21				
Chlorate	9.67	0.50 mg/L	10.0	< 0.50	97	85-115			
Chloride	27.5	0.50 mg/L	10.0	17.3	102	85-115			
Chlorite	7.05	0.50 mg/L	10.0	< 0.50	70	80-120			MS1
Fluoride	0.89	0.10 mg/L	1.00	0.13	76	85-115			MS1
Nitrate (as N)	1.04	0.050 mg/L	1.00	< 0.050	99	87-111			
Nitrite (as N)	0.519	0.050 mg/L	0.500	< 0.050	104	81-127			
Sulfate	88.9	1.0 mg/L	50.0	53.2	71	85-115			MS2

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Anions, Batch B5G4009, Continued									
Matrix Spike Dup (B5G4009-MSD1)		Source: 25G2470-01		Prepared: 2025-07-21, Analyzed: 2025-07-21					
Chlorate	9.77	0.50 mg/L	10.0	< 0.50	98	85-115	1		
Chloride	29.1	0.50 mg/L	10.0	17.3	118	85-115	6		MS2
Chlorite	8.37	0.50 mg/L	10.0	< 0.50	84	80-120	17		
Fluoride	0.99	0.10 mg/L	1.00	0.13	87	85-115	11		
Nitrate (as N)	1.00	0.050 mg/L	1.00	< 0.050	96	87-111	4		
Nitrite (as N)	0.517	0.050 mg/L	0.500	< 0.050	103	81-127	< 1		
Sulfate	94.5	1.0 mg/L	50.0	53.2	82	85-115	6		MS2

Chlorinated Phenols, Batch B5G3968

Blank (B5G3968-BLK1)		Prepared: 2025-07-21, Analyzed: 2025-07-22							
2-Chlorophenol	< 0.10	0.10 µg/L							
3 & 4-Chlorophenol	< 0.10	0.10 µg/L							
4-Chloro-3-Methylphenol	< 0.20	0.20 µg/L							
2,3-Dichlorophenol	< 0.20	0.20 µg/L							
2,4 & 2,5-Dichlorophenol	< 0.20	0.20 µg/L							
2,6-Dichlorophenol	< 0.20	0.20 µg/L							
3,4-Dichlorophenol	< 0.20	0.20 µg/L							
3,5-Dichlorophenol	< 0.20	0.20 µg/L							
2,3,4-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,6-Trichlorophenol	< 0.50	0.50 µg/L							
2,4,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,4,6-Trichlorophenol	< 0.50	0.50 µg/L							
3,4,5-Trichlorophenol	< 0.50	0.50 µg/L							
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	0.50 µg/L							
2,3,4,6-Tetrachlorophenol	< 0.50	0.50 µg/L							
Pentachlorophenol	< 0.50	0.50 µg/L							
Surrogate: 2,4-Dibromophenol	1.65	µg/L	2.00		82	60-130			
Surrogate: 2,4,6-Tribromophenol	1.41	µg/L	2.01		70	60-130			

LCS (B5G3968-BS1)		Prepared: 2025-07-21, Analyzed: 2025-07-22							
2-Chlorophenol	6.31	0.10 µg/L	10.0		63	60-130			
3 & 4-Chlorophenol	12.2	0.10 µg/L	20.0		61	60-130			
4-Chloro-3-Methylphenol	6.14	0.20 µg/L	10.0		61	60-130			
2,3-Dichlorophenol	8.14	0.20 µg/L	10.0		81	60-130			
2,4 & 2,5-Dichlorophenol	16.2	0.20 µg/L	20.0		81	60-130			
2,6-Dichlorophenol	8.04	0.20 µg/L	10.0		80	60-130			
3,4-Dichlorophenol	8.48	0.20 µg/L	10.0		85	60-130			
3,5-Dichlorophenol	10.5	0.20 µg/L	10.0		105	60-130			
2,3,4-Trichlorophenol	9.73	0.50 µg/L	10.0		97	60-130			
2,3,5-Trichlorophenol	9.99	0.50 µg/L	10.0		100	60-130			
2,3,6-Trichlorophenol	9.81	0.50 µg/L	10.0		98	60-130			
2,4,5-Trichlorophenol	9.96	0.50 µg/L	10.0		100	60-130			
2,4,6-Trichlorophenol	9.52	0.50 µg/L	10.0		95	60-130			
3,4,5-Trichlorophenol	8.16	0.50 µg/L	10.0		82	60-130			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	18.7	0.50 µg/L	20.0		93	60-130			
2,3,4,6-Tetrachlorophenol	9.40	0.50 µg/L	10.0		94	60-130			
Pentachlorophenol	12.7	0.50 µg/L	10.0		127	60-130			
Surrogate: 2,4-Dibromophenol	2.35	µg/L	2.00		117	60-130			
Surrogate: 2,4,6-Tribromophenol	2.10	µg/L	2.01		104	60-130			

LCS Dup (B5G3968-BSD1)		Prepared: 2025-07-21, Analyzed: 2025-07-22							
2-Chlorophenol	5.84	0.10 µg/L	10.0		58	60-130	8	40	SPK1
3 & 4-Chlorophenol	12.3	0.10 µg/L	20.0		62	60-130	< 1	40	
4-Chloro-3-Methylphenol	5.88	0.20 µg/L	10.0		59	60-130	4	40	SPK1

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Chlorinated Phenols, Batch B5G3968, Continued									
LCS Dup (B5G3968-BSD1), Continued					Prepared: 2025-07-21, Analyzed: 2025-07-22				
2,3-Dichlorophenol	7.15	0.20 µg/L	10.0		72	60-130	13	40	
2,4 & 2,5-Dichlorophenol	14.4	0.20 µg/L	20.0		72	60-130	12	40	
2,6-Dichlorophenol	7.20	0.20 µg/L	10.0		72	60-130	11	40	
3,4-Dichlorophenol	8.13	0.20 µg/L	10.0		81	60-130	4	40	
3,5-Dichlorophenol	8.85	0.20 µg/L	10.0		88	60-130	17	40	
2,3,4-Trichlorophenol	9.65	0.50 µg/L	10.0		96	60-130	< 1	40	
2,3,5-Trichlorophenol	9.76	0.50 µg/L	10.0		98	60-130	2	40	
2,3,6-Trichlorophenol	8.94	0.50 µg/L	10.0		89	60-130	9	40	
2,4,5-Trichlorophenol	9.83	0.50 µg/L	10.0		98	60-130	1	40	
2,4,6-Trichlorophenol	8.66	0.50 µg/L	10.0		87	60-130	10	40	
3,4,5-Trichlorophenol	10.2	0.50 µg/L	10.0		102	60-130	22	40	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	20.2	0.50 µg/L	20.0		101	60-130	8	40	
2,3,4,6-Tetrachlorophenol	9.71	0.50 µg/L	10.0		97	60-130	3	40	
Pentachlorophenol	12.9	0.50 µg/L	10.0		129	60-130	2	40	
Surrogate: 2,4-Dibromophenol	2.22	µg/L	2.00		111	60-130			
Surrogate: 2,4,6-Tribromophenol	1.78	µg/L	2.01		89	60-130			

General Parameters, Batch B5G3690

Blank (B5G3690-BLK1)					Prepared: 2025-07-18, Analyzed: 2025-07-18				
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B5G3690-BLK2)					Prepared: 2025-07-18, Analyzed: 2025-07-18				
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B5G3690-BLK3)					Prepared: 2025-07-18, Analyzed: 2025-07-18				
Carbon, Total Organic	< 0.50	0.50 mg/L							
LCS (B5G3690-BS1)					Prepared: 2025-07-18, Analyzed: 2025-07-18				
Carbon, Total Organic	9.53	0.50 mg/L	10.0		95	78-116			
LCS (B5G3690-BS2)					Prepared: 2025-07-18, Analyzed: 2025-07-18				
Carbon, Total Organic	9.45	0.50 mg/L	10.0		94	78-116			
LCS (B5G3690-BS3)					Prepared: 2025-07-18, Analyzed: 2025-07-18				
Carbon, Total Organic	9.53	0.50 mg/L	10.0		95	78-116			

General Parameters, Batch B5G3697

Blank (B5G3697-BLK1)					Prepared: 2025-07-18, Analyzed: 2025-07-18				
Turbidity	< 0.10	0.10 NTU							
Blank (B5G3697-BLK2)					Prepared: 2025-07-18, Analyzed: 2025-07-18				
Turbidity	< 0.10	0.10 NTU							
LCS (B5G3697-BS1)					Prepared: 2025-07-18, Analyzed: 2025-07-18				
Turbidity	41.3	0.10 NTU	40.0		103	90-110			
LCS (B5G3697-BS2)					Prepared: 2025-07-18, Analyzed: 2025-07-18				
Turbidity	39.8	0.10 NTU	40.0		100	90-110			

General Parameters, Batch B5G3725

Blank (B5G3725-BLK1)					Prepared: 2025-07-18, Analyzed: 2025-07-18				
Alkalinity, Total (as CaCO ₃)	< 2.0	2.0 mg/L							
Bicarbonate (HCO ₃)	< 2.5	2.5 mg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B5G3725, Continued									
Blank (B5G3725-BLK1), Continued				Prepared: 2025-07-18, Analyzed: 2025-07-18					
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							
pH	< 0.10	0.10 pH units							
LCS (B5G3725-BS1)				Prepared: 2025-07-18, Analyzed: 2025-07-18					
Alkalinity, Total (as CaCO ₃)	233	2.0 mg/L	250		93	94-108			SPK1
Conductivity (EC)	1010	2.0 µS/cm	1000		101	95-105			
Reference (B5G3725-SRM1)				Prepared: 2025-07-18, Analyzed: 2025-07-18					
pH	6.97	0.10 pH units	7.00		100	98-102			
General Parameters, Batch B5G3781									
Blank (B5G3781-BLK1)				Prepared: 2025-07-18, Analyzed: 2025-07-18					
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	< 0.02	0.02 mg/L							
Reference (B5G3781-SRM1)				Prepared: 2025-07-18, Analyzed: 2025-07-18					
Chlorine, Total	1.68	0.02 mg/L	1.71		98	91.5-108.4			
Chlorine, Free	1.67	0.02 mg/L	1.71		98	91.5-108.4			
General Parameters, Batch B5G3901									
Blank (B5G3901-BLK1)				Prepared: 2025-07-19, Analyzed: 2025-07-19					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B5G3901-BS1)				Prepared: 2025-07-19, Analyzed: 2025-07-19					
Ammonia, Total (as N)	0.229	0.050 mg/L	0.200		115	85-115			
General Parameters, Batch B5G3962									
Blank (B5G3962-BLK1)				Prepared: 2025-07-21, Analyzed: 2025-07-21					
Nitritotriacetic Acid	< 0.20	0.20 mg/L							
LCS (B5G3962-BS1)				Prepared: 2025-07-21, Analyzed: 2025-07-21					
Nitritotriacetic Acid	0.96	0.20 mg/L	0.991		97	80-120			
LCS Dup (B5G3962-BSD1)				Prepared: 2025-07-21, Analyzed: 2025-07-21					
Nitritotriacetic Acid	0.96	0.20 mg/L	0.991		96	80-120	< 1	20	
General Parameters, Batch B5G4064									
Blank (B5G4064-BLK1)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Cyanide, Total	< 0.0020	0.0020 mg/L							
Blank (B5G4064-BLK2)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Cyanide, Total	0.0037	0.0020 mg/L							BLK
LCS (B5G4064-BS1)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Cyanide, Total	0.0164	0.0020 mg/L	0.0200		82	82-120			
LCS (B5G4064-BS2)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Cyanide, Total	0.0191	0.0020 mg/L	0.0200		95	82-120			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B5G4064, Continued									
LCS Dup (B5G4064-BSD1)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Cyanide, Total	0.0167	0.0020 mg/L	0.0200		83	82-120	2	10	
LCS Dup (B5G4064-BSD2)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Cyanide, Total	0.0194	0.0020 mg/L	0.0200		97	82-120	2	10	
Matrix Spike (B5G4064-MS1)				Source: 25G2470-01		Prepared: 2025-07-22, Analyzed: 2025-07-22			
Cyanide, Total	0.0365	0.0020 mg/L	0.0400	0.0031	84	70-130			
General Parameters, Batch B5G4141									
Blank (B5G4141-BLK1)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Sulfide, Total	< 0.020	0.020 mg/L							
Blank (B5G4141-BLK2)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Sulfide, Total	< 0.020	0.020 mg/L							
LCS (B5G4141-BS1)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Sulfide, Total	0.441	0.020 mg/L	0.500		88	80-120			
LCS (B5G4141-BS2)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Sulfide, Total	0.456	0.020 mg/L	0.500		91	80-120			
Matrix Spike (B5G4141-MS2)				Source: 25G2470-01		Prepared: 2025-07-22, Analyzed: 2025-07-22			
Sulfide, Total	0.363	0.020 mg/L	0.500	< 0.020	73	70-130			
General Parameters, Batch B5G4202									
Blank (B5G4202-BLK1)				Prepared: 2025-07-23, Analyzed: 2025-07-23					
Colour, True	< 5.0	5.0 CU							
LCS (B5G4202-BS1)				Prepared: 2025-07-23, Analyzed: 2025-07-23					
Colour, True	24	5.0 CU	25.0		97	90-110			
Miscellaneous Herbicides, Batch B5G4840									
Blank (B5G4840-BLK1)				Prepared: 2025-07-28, Analyzed: 2025-07-29					
Glyphosate	< 0.050	0.050 mg/L							
LCS (B5G4840-BS1)				Prepared: 2025-07-28, Analyzed: 2025-07-29					
Glyphosate	0.275	0.050 mg/L	0.250		110	70-130			
LCS Dup (B5G4840-BSD1)				Prepared: 2025-07-28, Analyzed: 2025-07-29					
Glyphosate	0.270	0.050 mg/L	0.250		108	70-130	2	20	
Pesticides, Herbicides, and Fungicides, Batch B5G3812									
Blank (B5G3812-BLK1)				Prepared: 2025-07-18, Analyzed: 2025-07-25					
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							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Pesticides, Herbicides, and Fungicides, Batch B5G3812, Continued

Blank (B5G3812-BLK1), Continued

Prepared: 2025-07-18, Analyzed: 2025-07-25

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							
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	0.834	µg/L	1.00		83	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.688	µg/L	0.970		71	50-140			

LCS (B5G3812-BS1)

Prepared: 2025-07-18, Analyzed: 2025-07-25

Alachlor	0.349	0.100 µg/L	0.505		69	50-140			
Aldrin	0.366	0.006 µg/L	0.500		73	50-140			
Atrazine	0.536	0.100 µg/L	0.505		106	50-140			
Atrazine-desethyl	0.210	0.100 µg/L	0.500		42	50-140			SPK
Azinphos-methyl	0.526	0.200 µg/L	0.495		106	50-140			
alpha-BHC	0.348	0.010 µg/L	0.500		70	50-140			
beta-BHC	0.781	0.050 µg/L	0.500		156	50-140			SPK
delta-BHC	0.377	0.050 µg/L	0.500		75	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 B5G3812, Continued									
LCS (B5G3812-BS1), Continued					Prepared: 2025-07-18, Analyzed: 2025-07-25				
gamma-BHC (Lindane)	0.388	0.050 µg/L	0.500		78	50-140			
Bromacil	0.356	0.100 µg/L	0.500		71	50-140			
Bromoxynil	0.381	0.200 µg/L	0.496		77	50-140			
Butachlor	0.408	0.020 µg/L	0.500		82	50-140			
Captan	0.315	0.100 µg/L	0.497		63	50-140			
Chlordane (cis + trans)	0.743	0.050 µg/L	1.00		74	50-140			
Chlorothalonil	0.459	0.050 µg/L	0.499		92	50-140			
Chlorpyrifos	0.442	0.010 µg/L	0.500		88	50-140			
Cyanazine	0.376	0.100 µg/L	0.500		75	50-140			
DDT, Total	2.24	0.010 µg/L	3.00		75	50-140			
Deltamethrin	4.29	0.100 µg/L	4.99		86	50-140			
Diazinon	0.368	0.020 µg/L	0.510		72	50-140			
Dichlorvos	0.365	0.100 µg/L	0.501		73	50-140			
Diclofop-methyl	0.491	0.100 µg/L	0.500		98	50-140			
Dieldrin	0.415	0.010 µg/L	0.500		83	50-140			
Dimethoate	0.409	0.200 µg/L	0.505		81	50-140			
Disulfoton	0.365	0.100 µg/L	0.512		71	50-140			
Diuron	0.455	0.200 µg/L	0.500		91	50-140			
Endosulfan I + II	0.760	0.010 µg/L	1.00		76	50-140			
Endosulfan sulfate	0.448	0.050 µg/L	0.500		90	50-140			
Endrin	0.471	0.020 µg/L	0.500		94	50-140			
Endrin aldehyde	0.391	0.020 µg/L	0.500		78	50-140			
Endrin ketone	0.386	0.020 µg/L	0.500		77	50-140			
Fenchlorphos (Ronnel)	0.378	0.100 µg/L	0.493		77	50-140			
Heptachlor	0.368	0.010 µg/L	0.500		74	50-140			
Heptachlor epoxide	0.388	0.010 µg/L	0.500		78	50-140			
Linuron	0.643	0.050 µg/L	0.506		127	50-140			
Malathion	0.493	0.100 µg/L	0.500		99	50-140			
Methoxychlor	0.337	0.050 µg/L	0.500		67	50-140			
Methyl parathion	0.417	0.100 µg/L	0.507		82	50-140			
Metolachlor	0.376	0.100 µg/L	0.500		75	50-140			
Metribuzin	0.374	0.200 µg/L	0.500		75	50-140			
Parathion	0.409	0.100 µg/L	0.510		80	50-140			
Pentachloronitrobenzene	0.389	0.100 µg/L	0.494		79	50-140			
Permethrin	0.480	0.010 µg/L	0.483		99	50-140			
Phorate	0.391	0.100 µg/L	0.505		77	50-140			
Prometon	0.338	0.300 µg/L	0.500		68	50-140			
Prometryne	0.337	0.100 µg/L	0.500		67	50-140			
Simazine	0.340	0.200 µg/L	0.505		67	50-140			
Sulfotep	0.321	0.100 µg/L	0.496		65	50-140			
Tebuthiuron	0.448	0.200 µg/L	0.500		90	50-140			
Temephos (Abate)	3.38	0.500 µg/L	5.04		67	50-140			
Terbufos	0.382	0.100 µg/L	0.505		76	50-140			
Triallate	0.371	0.100 µg/L	0.497		75	50-140			
Trifluralin	0.375	0.200 µg/L	0.500		75	50-140			
Surrogate: Tributyl Phosphate	1.03	µg/L	1.00		103	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.798	µg/L	0.970		82	50-140			
LCS Dup (B5G3812-BS1)					Prepared: 2025-07-18, Analyzed: 2025-07-25				
Alachlor	0.309	0.100 µg/L	0.505		61	50-140	12	30	
Aldrin	0.331	0.006 µg/L	0.500		66	50-140	10	30	
Atrazine	0.450	0.100 µg/L	0.505		89	50-140	17	30	
Atrazine-desethyl	0.174	0.100 µg/L	0.500		35	50-140	19	30	SPK
Azinphos-methyl	0.439	0.200 µg/L	0.495		89	50-140	18	30	
alpha-BHC	0.298	0.010 µg/L	0.500		60	50-140	16	30	
beta-BHC	0.670	0.050 µg/L	0.500		134	50-140	15	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 B5G3812, Continued									
LCS Dup (B5G3812-BSD1), Continued					Prepared: 2025-07-18, Analyzed: 2025-07-25				
delta-BHC	0.323	0.050 µg/L	0.500		65	50-140	15	30	
gamma-BHC (Lindane)	0.332	0.050 µg/L	0.500		66	50-140	16	30	
Bromacil	0.281	0.100 µg/L	0.500		56	50-140	23	30	
Bromoxynil	0.314	0.200 µg/L	0.496		63	50-140	19	30	
Butachlor	0.382	0.020 µg/L	0.500		76	50-140	7	30	
Captan	0.279	0.100 µg/L	0.497		56	50-140	12	30	
Chlordane (cis + trans)	0.688	0.050 µg/L	1.00		69	50-140	8	30	
Chlorothalonil	0.401	0.050 µg/L	0.499		80	50-140	14	30	
Chlorpyrifos	0.400	0.010 µg/L	0.500		80	50-140	10	30	
Cyanazine	0.306	0.100 µg/L	0.500		61	50-140	21	30	
DDT, Total	1.98	0.010 µg/L	3.00		66	50-140	12	30	
Deltamethrin	3.69	0.100 µg/L	4.99		74	50-140	15	30	
Diazinon	0.308	0.020 µg/L	0.510		60	50-140	18	30	
Dichlorvos	0.324	0.100 µg/L	0.501		65	50-140	12	30	
Diclofop-methyl	0.402	0.100 µg/L	0.500		80	50-140	20	30	
Dieldrin	0.383	0.010 µg/L	0.500		77	50-140	8	30	
Dimethoate	0.340	0.200 µg/L	0.505		67	50-140	18	30	
Disulfoton	0.360	0.100 µg/L	0.512		70	50-140	1	30	
Diuron	0.369	0.200 µg/L	0.500		74	50-140	21	30	
Endosulfan I + II	0.667	0.010 µg/L	1.00		67	50-140	13	30	
Endosulfan sulfate	0.369	0.050 µg/L	0.500		74	50-140	19	30	
Endrin	0.431	0.020 µg/L	0.500		86	50-140	9	30	
Endrin aldehyde	0.334	0.020 µg/L	0.500		67	50-140	16	30	
Endrin ketone	0.313	0.020 µg/L	0.500		63	50-140	21	30	
Fenchlorphos (Ronnel)	0.324	0.100 µg/L	0.493		66	50-140	15	30	
Heptachlor	0.332	0.010 µg/L	0.500		66	50-140	10	30	
Heptachlor epoxide	0.332	0.010 µg/L	0.500		66	50-140	15	30	
Linuron	0.626	0.050 µg/L	0.506		124	50-140	3	30	
Malathion	0.439	0.100 µg/L	0.500		88	50-140	12	30	
Methoxychlor	0.309	0.050 µg/L	0.500		62	50-140	9	30	
Methyl parathion	0.386	0.100 µg/L	0.507		76	50-140	8	30	
Metolachlor	0.326	0.100 µg/L	0.500		65	50-140	14	30	
Metribuzin	0.314	0.200 µg/L	0.500		63	50-140	17	30	
Parathion	0.366	0.100 µg/L	0.510		72	50-140	11	30	
Pentachloronitrobenzene	0.332	0.100 µg/L	0.494		67	50-140	16	30	
Permethrin	0.391	0.010 µg/L	0.483		81	50-140	21	30	
Phorate	0.413	0.100 µg/L	0.505		82	50-140	5	30	
Prometon	< 0.300	0.300 µg/L	0.500		57	50-140	16	30	
Prometryne	0.292	0.100 µg/L	0.500		58	50-140	14	30	
Simazine	0.288	0.200 µg/L	0.505		57	50-140	16	30	
Sulfotep	0.287	0.100 µg/L	0.496		58	50-140	11	30	
Tebuthiuron	0.389	0.200 µg/L	0.500		78	50-140	14	30	
Temephos (Abate)	3.05	0.500 µg/L	5.04		61	50-140	10	30	
Terbufos	0.346	0.100 µg/L	0.505		68	50-140	10	30	
Triallate	0.336	0.100 µg/L	0.497		68	50-140	10	30	
Trifluralin	0.354	0.200 µg/L	0.500		71	50-140	6	30	
Surrogate: Tributyl Phosphate	0.865	µg/L	1.00		86	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.628	µg/L	0.970		65	50-140			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B5G3732

Blank (B5G3732-BLK1)			Prepared: 2025-07-18, Analyzed: 2025-07-18						
Acenaphthene	< 0.050	0.050 µg/L							
Acenaphthylene	< 0.200	0.200 µg/L							
Acridine	< 0.050	0.050 µg/L							
Anthracene	< 0.010	0.010 µg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B5G3732, Continued									
Blank (B5G3732-BLK1), Continued					Prepared: 2025-07-18, Analyzed: 2025-07-18				
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	0.834	0.050 µg/L							BLK
Surrogate: Naphthalene-d8	19.0	µg/L	20.0		95	50-140			
Surrogate: Perylene-d12	28.2	µg/L	20.0		141	50-140			S02
LCS (B5G3732-BS2)					Prepared: 2025-07-18, Analyzed: 2025-07-22				
Acenaphthene	20.2	0.050 µg/L	20.0		101	50-140			
Acenaphthylene	17.9	0.200 µg/L	20.0		89	50-140			
Acridine	1.53	0.050 µg/L	20.0		8	50-140			
Anthracene	16.5	0.010 µg/L	20.0		82	50-140			
Benzo(a)anthracene	15.3	0.010 µg/L	20.0		77	50-140			
Benzo(a)pyrene	20.1	0.010 µg/L	20.0		100	50-140			
Benzo(b+j)fluoranthene	54.9	0.050 µg/L	40.0		137	50-140			
Benzo(g,h,i)perylene	24.5	0.050 µg/L	20.0		123	50-140			
Benzo(k)fluoranthene	26.2	0.050 µg/L	20.0		131	50-140			
2-Chloronaphthalene	20.1	0.100 µg/L	20.4		98	50-140			
Chrysene	19.0	0.050 µg/L	20.0		95	50-140			
Dibenz(a,h)anthracene	21.9	0.010 µg/L	20.0		110	50-140			
Fluoranthene	17.0	0.030 µg/L	20.0		85	50-140			
Fluorene	19.8	0.050 µg/L	20.0		99	50-140			
Indeno(1,2,3-cd)pyrene	23.4	0.050 µg/L	20.0		117	50-140			
1-Methylnaphthalene	20.3	0.100 µg/L	19.9		102	50-140			
2-Methylnaphthalene	19.8	0.100 µg/L	20.0		99	50-140			
Naphthalene	20.6	0.200 µg/L	20.0		103	50-140			
Phenanthrene	22.5	0.100 µg/L	20.0		112	50-140			
Pyrene	17.7	0.020 µg/L	20.0		88	50-140			
Quinoline	21.4	0.050 µg/L	20.0		107	50-140			
Surrogate: Naphthalene-d8	21.4	µg/L	20.0		107	50-140			
Surrogate: Perylene-d12	47.9	µg/L	20.0		240	50-140			S02
LCS Dup (B5G3732-BSD2)					Prepared: 2025-07-18, Analyzed: 2025-07-22				
Acenaphthene	24.0	0.050 µg/L	20.0		120	50-140	17	30	
Acenaphthylene	19.1	0.200 µg/L	20.0		95	50-140	7	30	
Acridine	15.3	0.050 µg/L	20.0		77	50-140	164	30	SPK1
Anthracene	20.2	0.010 µg/L	20.0		101	50-140	21	30	
Benzo(a)anthracene	18.3	0.010 µg/L	20.0		91	50-140	18	30	
Benzo(a)pyrene	25.3	0.010 µg/L	20.0		127	50-140	23	30	
Benzo(b+j)fluoranthene	69.8	0.050 µg/L	40.0		175	50-140	24	30	SPK1
Benzo(g,h,i)perylene	33.4	0.050 µg/L	20.0		167	50-140	31	30	SPK1
Benzo(k)fluoranthene	33.6	0.050 µg/L	20.0		168	50-140	25	30	SPK1
2-Chloronaphthalene	23.3	0.100 µg/L	20.4		114	50-140	15	30	

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B5G3732, Continued									
LCS Dup (B5G3732-BSD2), Continued					Prepared: 2025-07-18, Analyzed: 2025-07-22				
Chrysene	24.2	0.050 µg/L	20.0		121	50-140	24	30	
Dibenz(a,h)anthracene	29.6	0.010 µg/L	20.0		148	50-140	30	30	SPK1
Fluoranthene	22.5	0.030 µg/L	20.0		113	50-140	28	30	
Fluorene	24.9	0.050 µg/L	20.0		125	50-140	23	30	
Indeno(1,2,3-cd)pyrene	30.6	0.050 µg/L	20.0		153	50-140	27	30	SPK1
1-Methylnaphthalene	23.9	0.100 µg/L	19.9		120	50-140	16	30	
2-Methylnaphthalene	23.6	0.100 µg/L	20.0		118	50-140	17	30	
Naphthalene	24.2	0.200 µg/L	20.0		121	50-140	16	30	
Phenanthrene	28.7	0.100 µg/L	20.0		143	50-140	24	30	SPK1
Pyrene	23.0	0.020 µg/L	20.0		115	50-140	26	30	
Quinoline	21.9	0.050 µg/L	20.0		110	50-140	3	30	
Surrogate: Naphthalene-d8	24.1	µg/L	20.0		121	50-140			
Surrogate: Perylene-d12	47.9	µg/L	20.0		240	50-140			S02

Total Metals, Batch B5G3897

Blank (B5G3897-BLK1)			Prepared: 2025-07-19, Analyzed: 2025-07-19						
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 (B5G3897-BS1)			Prepared: 2025-07-19, Analyzed: 2025-07-19						
Aluminum, total	3.84	0.0050 mg/L	4.00		96	80-120			
Antimony, total	0.0387	0.00020 mg/L	0.0400		97	80-120			
Arsenic, total	0.384	0.00050 mg/L	0.400		96	80-120			
Barium, total	0.0394	0.0050 mg/L	0.0400		98	80-120			
Boron, total	0.420	0.0500 mg/L	0.400		105	80-120			
Cadmium, total	0.0393	0.000010 mg/L	0.0400		98	80-120			
Calcium, total	3.86	0.20 mg/L	4.00		97	80-120			
Chromium, total	0.0386	0.00050 mg/L	0.0400		96	80-120			
Copper, total	0.0387	0.00040 mg/L	0.0400		97	80-120			
Iron, total	3.86	0.010 mg/L	4.00		96	80-120			
Lead, total	0.0400	0.00020 mg/L	0.0400		100	80-120			
Magnesium, total	3.92	0.010 mg/L	4.00		98	80-120			
Manganese, total	0.0388	0.00020 mg/L	0.0400		97	80-120			
Potassium, total	3.89	0.10 mg/L	4.00		97	80-120			
Selenium, total	0.387	0.00050 mg/L	0.400		97	80-120			
Silver, total	0.0394	0.000050 mg/L	0.0400		99	80-120			
Sodium, total	3.88	0.10 mg/L	4.00		97	80-120			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B5G3897, Continued									
LCS (B5G3897-BS1), Continued				Prepared: 2025-07-19, Analyzed: 2025-07-19					
Strontium, total	0.0384	0.0010 mg/L	0.0400		96	80-120			
Uranium, total	0.0413	0.000020 mg/L	0.0400		103	80-120			
Zinc, total	0.378	0.0040 mg/L	0.400		95	80-120			

Total Metals, Batch B5G3944

Blank (B5G3944-BLK1)				Prepared: 2025-07-20, Analyzed: 2025-07-20					
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5G3944-BLK2)				Prepared: 2025-07-20, Analyzed: 2025-07-20					
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5G3944-BLK3)				Prepared: 2025-07-20, Analyzed: 2025-07-20					
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5G3944-BLK4)				Prepared: 2025-07-20, Analyzed: 2025-07-20					
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B5G3944-BS1)				Prepared: 2025-07-20, Analyzed: 2025-07-20					
Mercury, total	0.00265	0.000010 mg/L	0.00250		106	80-120			
LCS (B5G3944-BS2)				Prepared: 2025-07-20, Analyzed: 2025-07-20					
Mercury, total	0.00279	0.000010 mg/L	0.00250		112	80-120			
LCS (B5G3944-BS3)				Prepared: 2025-07-20, Analyzed: 2025-07-20					
Mercury, total	0.00264	0.000010 mg/L	0.00250		105	80-120			
LCS (B5G3944-BS4)				Prepared: 2025-07-20, Analyzed: 2025-07-20					
Mercury, total	0.00279	0.000010 mg/L	0.00250		112	80-120			

Volatile Organic Compounds (VOC), Batch B5G3684

Blank (B5G3684-BLK1)				Prepared: 2025-07-17, Analyzed: 2025-07-18					
Benzene	< 0.5	0.5 µg/L							
Bromodichloromethane	< 1.0	1.0 µg/L							
Bromoform	< 1.0	1.0 µg/L							
Carbon tetrachloride	< 0.5	0.5 µg/L							
Chlorobenzene	< 1.0	1.0 µg/L							
Chloroethane	< 2.0	2.0 µg/L							
Chloroform	< 1.0	1.0 µg/L							
Dibromochloromethane	< 1.0	1.0 µg/L							
1,2-Dibromoethane	< 0.3	0.3 µg/L							
Dibromomethane	< 1.0	1.0 µg/L							
1,2-Dichlorobenzene	< 0.5	0.5 µg/L							
1,3-Dichlorobenzene	< 1.0	1.0 µg/L							
1,4-Dichlorobenzene	< 1.0	1.0 µg/L							
1,1-Dichloroethane	< 1.0	1.0 µg/L							
1,2-Dichloroethane	< 1.0	1.0 µg/L							
1,1-Dichloroethylene	< 1.0	1.0 µg/L							
cis-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
trans-1,2-Dichloroethylene	< 1.0	1.0 µg/L							
Dichloromethane	< 3.0	3.0 µg/L							
1,2-Dichloropropane	< 1.0	1.0 µg/L							
1,3-Dichloropropene (cis + trans)	< 1.0	1.0 µg/L							
Ethylbenzene	< 1.0	1.0 µg/L							
Methyl tert-butyl ether	< 1.0	1.0 µg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B5G3684, Continued									
Blank (B5G3684-BLK1), Continued					Prepared: 2025-07-17, Analyzed: 2025-07-18				
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	20.3	µg/L	18.8		108	70-130			
Surrogate: 4-Bromofluorobenzene	19.0	µg/L	19.9		96	70-130			
LCS (B5G3684-BS1)					Prepared: 2025-07-17, Analyzed: 2025-07-18				
Benzene	23.4	0.5 µg/L	20.1		117	70-130			
Bromodichloromethane	27.0	1.0 µg/L	20.1		134	70-130			SPK
Bromoform	30.0	1.0 µg/L	20.1		149	70-130			SPK
Carbon tetrachloride	28.6	0.5 µg/L	20.1		142	70-130			SPK
Chlorobenzene	24.0	1.0 µg/L	20.1		119	70-130			
Chloroethane	24.8	2.0 µg/L	20.1		123	60-140			
Chloroform	22.5	1.0 µg/L	20.1		112	70-130			
Dibromochloromethane	29.4	1.0 µg/L	20.1		146	70-130			SPK
1,2-Dibromoethane	25.5	0.3 µg/L	20.1		127	70-130			
Dibromomethane	25.7	1.0 µg/L	20.1		128	70-130			
1,2-Dichlorobenzene	24.2	0.5 µg/L	20.1		120	70-130			
1,3-Dichlorobenzene	24.1	1.0 µg/L	20.1		120	70-130			
1,4-Dichlorobenzene	24.3	1.0 µg/L	20.1		121	70-130			
1,1-Dichloroethane	20.5	1.0 µg/L	20.1		102	70-130			
1,2-Dichloroethane	22.4	1.0 µg/L	20.1		111	70-130			
1,1-Dichloroethylene	28.8	1.0 µg/L	20.1		143	70-130			SPK
cis-1,2-Dichloroethylene	21.0	1.0 µg/L	20.1		105	70-130			
trans-1,2-Dichloroethylene	33.5	1.0 µg/L	20.1		167	70-130			SPK
Dichloromethane	28.9	3.0 µg/L	20.1		144	70-130			SPK
1,2-Dichloropropane	20.5	1.0 µg/L	20.1		102	70-130			
1,3-Dichloropropene (cis + trans)	54.8	1.0 µg/L	40.0		137	70-130			SPK
Ethylbenzene	23.5	1.0 µg/L	20.1		117	70-130			
Methyl tert-butyl ether	32.2	1.0 µg/L	20.0		161	70-130			SPK
Styrene	23.2	1.0 µg/L	20.1		116	70-130			
1,1,2,2-Tetrachloroethane	24.2	0.5 µg/L	20.1		120	70-130			
Tetrachloroethylene	26.5	1.0 µg/L	20.1		132	70-130			SPK
Toluene	23.8	0.5 µg/L	20.1		118	70-130			
1,1,1-Trichloroethane	25.0	1.0 µg/L	20.1		125	70-130			
1,1,2-Trichloroethane	22.9	1.0 µg/L	20.1		114	70-130			
Trichloroethylene	25.9	1.0 µg/L	20.1		129	70-130			
Trichlorofluoromethane	33.6	1.0 µg/L	20.1		167	60-140			SPK
Vinyl chloride	18.8	1.0 µg/L	20.1		93	60-140			
Xylenes (total)	72.5	2.0 µg/L	60.3		120	70-130			
Surrogate: Toluene-d8	20.7	µg/L	18.8		110	70-130			
Surrogate: 4-Bromofluorobenzene	21.2	µg/L	19.9		107	70-130			



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QC Qualifiers:	
BLK	Analyte concentration in the Method Blank is above the Reporting Limit (RL).
MS1	The matrix spike recovery was outside of control limits due to a matrix effect and/or interference.
MS2	The native sample concentration is greater than the spike concentration hence the matrix spike limits do not apply.
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.