

CERTIFICATE OF ANALYSIS

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

ATTENTION Kole Steinley

PO NUMBER 3136

PROJECT Winter Analysis 2019

PROJECT INFO Water Treatment Plant

WORK ORDER 9012097

RECEIVED / TEMP REPORTED 2019-01-29 08:45 / 9°C
2019-02-19 17:07

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO 17025:2005 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

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

Authorized By:

Team CARO
Client Service Representative

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TEST RESULTS

REPORTED TO PROJECT Newell Regional Services Corporation
Winter Analysis 2019

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Analyte	Result	RL	Units	Analyzed	Qualifier
Winter analysis WTP (9012097-01) Matrix: Water Sampled: 2019-01-28 09:40					
Acid Herbicides					HT1
2,4,5-T	< 0.10	0.10	µg/L	2019-02-16	
2,4-D	< 0.10	0.10	µg/L	2019-02-16	
Dicamba	< 0.10	0.10	µg/L	2019-02-16	
Dinoseb	< 0.10	0.10	µg/L	2019-02-16	
MCPA	< 0.20	0.20	µg/L	2019-02-16	
Picloram	< 0.10	0.10	µg/L	2019-02-16	
Surrogate: 2,4-DCAA	92	60-114	%	2019-02-16	
Anions					
Bromate	< 0.010	0.010	mg/L	2019-01-30	
Chlorate	< 0.50	0.50	mg/L	2019-01-30	
Chloride	16.3	0.50	mg/L	2019-01-30	
Chlorite	< 0.50	0.50	mg/L	2019-01-30	
Fluoride	0.15	0.10	mg/L	2019-01-30	
Nitrate (as N)	< 0.050	0.050	mg/L	2019-01-30	
Nitrite (as N)	< 0.050	0.050	mg/L	2019-01-30	
Sulfate	61.6	1.0	mg/L	2019-01-30	
Calculated Parameters					
Total Trihalomethanes	0.0734	0.00400	mg/L	N/A	
Chloramines	0.290	0.0200	mg/L	N/A	
Total Chlorinated Phenols	< 0.500	0.500	µg/L	N/A	
Hardness, Total (as CaCO3)	173	0.500	mg/L	N/A	
Solids, Total Dissolved	249	3.35	mg/L	N/A	
Chlorinated Phenols					
2-Chlorophenol	< 0.10	0.10	µg/L	2019-02-14	
3 & 4-Chlorophenol	< 0.10	0.10	µg/L	2019-02-14	
4-Chloro-3-Methylphenol	< 0.50	0.50	µg/L	2019-02-14	
2,3-Dichlorophenol	< 0.20	0.20	µg/L	2019-02-14	
2,4 & 2,5-Dichlorophenol	< 0.20	0.20	µg/L	2019-02-14	
2,6-Dichlorophenol	< 0.20	0.20	µg/L	2019-02-14	
3,4-Dichlorophenol	< 0.20	0.20	µg/L	2019-02-14	
3,5-Dichlorophenol	< 0.20	0.20	µg/L	2019-02-14	
2,3,4-Trichlorophenol	< 0.50	0.50	µg/L	2019-02-14	
2,3,5-Trichlorophenol	< 0.50	0.50	µg/L	2019-02-14	
2,3,6-Trichlorophenol	< 0.50	0.50	µg/L	2019-02-14	
2,4,5-Trichlorophenol	< 0.50	0.50	µg/L	2019-02-14	
2,4,6-Trichlorophenol	< 0.50	0.50	µg/L	2019-02-14	
3,4,5-Trichlorophenol	< 0.50	0.50	µg/L	2019-02-14	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	< 0.50	0.50	µg/L	2019-02-14	
2,3,4,6-Tetrachlorophenol	< 0.50	0.50	µg/L	2019-02-14	
Pentachlorophenol	< 0.50	0.50	µg/L	2019-02-14	

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Winter analysis WTP (9012097-01) Matrix: Water Sampled: 2019-01-28 09:40, Continued					
Chlorinated Phenols, Continued					
Surrogate: 2,4-Dibromophenol	79	60-130	%	2019-02-14	
Surrogate: 2,4,6-Tribromophenol	84	60-130	%	2019-02-14	
General Parameters					
Alkalinity, Total (as CaCO ₃)	148	2.0	mg/L	2019-01-31	
Bicarbonate (HCO ₃)	181	2.0	mg/L	2019-01-31	
Carbonate (CO ₃)	< 2.0	2.0	mg/L	2019-01-31	
Hydroxide (OH)	< 2.0	2.0	mg/L	2019-01-31	
Ammonia, Total (as N)	< 0.050	0.050	mg/L	2019-02-04	
Carbon, Total Organic	3.30	0.50	mg/L	2019-02-01	
Chlorine, Total	1.82	0.02	mg/L	2019-01-30	HT2
Chlorine, Free	1.53	0.02	mg/L	2019-01-30	HT2
Colour, True	< 5.0	5.0	CU	2019-01-30	
Conductivity (EC)	422	2.0	µS/cm	2019-02-01	
Cyanide, Total	< 0.0020	0.0020	mg/L	2019-01-31	
Nitritotriacetic Acid	< 0.20	0.20	mg/L	2019-01-31	
pH	7.76	0.10	pH units	2019-01-31	HT2
Phosphorus, Total (as P)	< 0.020	0.020	mg/L	2019-02-01	
Solids, Total Dissolved	254	10	mg/L	2019-02-01	
Sulfide, Total	< 0.020	0.020	mg/L	2019-02-01	
Turbidity	< 0.10	0.10	NTU	2019-01-30	
Microbiological Parameters					
Microcystin, total	< 0.14	0.14	µg/L	2019-02-07	
Miscellaneous Organics					
N-Nitrosodimethylamine	< 0.0010	0.0010	µg/L	2019-01-30	
Pesticides, Herbicides, and Fungicides					
Alachlor	< 0.100	0.100	µg/L	2019-02-13	
Aldrin	< 0.006	0.006	µg/L	2019-02-13	
Atrazine and metabolites	< 0.100	0.100	µg/L	2019-02-13	
Azinphos-methyl	< 0.200	0.200	µg/L	2019-02-13	
alpha-BHC	< 0.010	0.010	µg/L	2019-02-13	
beta-BHC	< 0.050	0.050	µg/L	2019-02-13	
delta-BHC	< 0.050	0.050	µg/L	2019-02-13	
gamma-BHC (Lindane)	< 0.050	0.050	µg/L	2019-02-13	
Bromacil	< 0.100	0.100	µg/L	2019-02-13	
Bromoxynil	< 0.200	0.200	µg/L	2019-02-13	
Butachlor	< 0.020	0.020	µg/L	2019-02-13	
Captan	< 0.100	0.100	µg/L	2019-02-13	
Chlordane (cis + trans)	< 0.050	0.050	µg/L	2019-02-13	
Chlorothalonil	< 0.050	0.050	µg/L	2019-02-13	
Chlorpyrifos	< 0.010	0.010	µg/L	2019-02-13	

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Winter analysis WTP (9012097-01) | Matrix: Water | Sampled: 2019-01-28 09:40, Continued

Pesticides, Herbicides, and Fungicides, Continued

Cyanazine	< 0.100	0.100	µg/L	2019-02-13	
DDT, Total	< 0.010	0.010	µg/L	2019-02-13	
Deltamethrin	< 0.100	0.100	µg/L	2019-02-13	
Diazinon	< 0.020	0.020	µg/L	2019-02-13	
Dichlorvos	< 0.100	0.100	µg/L	2019-02-13	
Diclofop-methyl	< 0.100	0.100	µg/L	2019-02-13	
Dieldrin	< 0.010	0.010	µg/L	2019-02-13	
Dimethoate	< 0.200	0.200	µg/L	2019-02-13	
Disulfoton	< 0.100	0.100	µg/L	2019-02-13	
Diuron	< 0.200	0.200	µg/L	2019-02-13	
Endosulfan I + II	< 0.010	0.010	µg/L	2019-02-13	
Endosulfan sulfate	< 0.050	0.050	µg/L	2019-02-13	
Endrin	< 0.020	0.020	µg/L	2019-02-13	
Endrin aldehyde	< 0.020	0.020	µg/L	2019-02-13	
Endrin ketone	< 0.020	0.020	µg/L	2019-02-13	
Fenchlorphos (Ronnell)	< 0.100	0.100	µg/L	2019-02-13	
Heptachlor	< 0.010	0.010	µg/L	2019-02-13	
Heptachlor epoxide	< 0.010	0.010	µg/L	2019-02-13	
Linuron	< 0.050	0.050	µg/L	2019-02-13	
Malathion	< 0.100	0.100	µg/L	2019-02-13	
Methoxychlor	< 0.050	0.050	µg/L	2019-02-13	
Methyl parathion	< 0.100	0.100	µg/L	2019-02-13	
Metolachlor	< 0.100	0.100	µg/L	2019-02-13	
Metribuzin	< 0.200	0.200	µg/L	2019-02-13	
Parathion	< 0.100	0.100	µg/L	2019-02-13	
Pentachloronitrobenzene	< 0.100	0.100	µg/L	2019-02-13	
Permethrin	< 0.010	0.010	µg/L	2019-02-13	
Phorate	< 0.100	0.100	µg/L	2019-02-13	
Prometon	< 0.300	0.300	µg/L	2019-02-13	
Prometryne	< 0.100	0.100	µg/L	2019-02-13	
Simazine	< 0.200	0.200	µg/L	2019-02-13	
Sulfotep	< 0.100	0.100	µg/L	2019-02-13	
Tebuthiuron	< 0.200	0.200	µg/L	2019-02-13	
Temephos (Abate)	< 0.500	0.500	µg/L	2019-02-13	
Terbufos	< 0.100	0.100	µg/L	2019-02-13	
Triallate	< 0.100	0.100	µg/L	2019-02-13	
Trifluralin	< 0.200	0.200	µg/L	2019-02-13	
Surrogate: Tributyl Phosphate	108	50-140	%	2019-02-13	
Surrogate: 4-chloro-3-nitrobenzotrifluoride	96	50-140	%	2019-02-13	

Polycyclic Aromatic Hydrocarbons (PAH)

Acenaphthene	< 0.050	0.050	µg/L	2019-02-10	
Acenaphthylene	< 0.200	0.200	µg/L	2019-02-10	

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Winter analysis WTP (9012097-01) | Matrix: Water | Sampled: 2019-01-28 09:40, Continued

Polycyclic Aromatic Hydrocarbons (PAH), Continued

Acridine	< 0.050	0.050	µg/L	2019-02-10	
Anthracene	< 0.010	0.010	µg/L	2019-02-10	
Benz(a)anthracene	< 0.010	0.010	µg/L	2019-02-10	
Benzo(a)pyrene	< 0.010	0.010	µg/L	2019-02-10	
Benzo(b+j)fluoranthene	< 0.050	0.050	µg/L	2019-02-10	
Benzo(g,h,i)perylene	< 0.050	0.050	µg/L	2019-02-10	
Benzo(k)fluoranthene	< 0.050	0.050	µg/L	2019-02-10	
2-Chloronaphthalene	< 0.100	0.100	µg/L	2019-02-10	
Chrysene	< 0.050	0.050	µg/L	2019-02-10	
Dibenz(a,h)anthracene	< 0.010	0.010	µg/L	2019-02-10	
Fluoranthene	< 0.030	0.030	µg/L	2019-02-10	
Fluorene	< 0.050	0.050	µg/L	2019-02-10	
Indeno(1,2,3-cd)pyrene	< 0.050	0.050	µg/L	2019-02-10	
1-Methylnaphthalene	< 0.100	0.100	µg/L	2019-02-10	
2-Methylnaphthalene	< 0.100	0.100	µg/L	2019-02-10	
Naphthalene	< 0.200	0.200	µg/L	2019-02-10	
Phenanthrene	< 0.100	0.100	µg/L	2019-02-10	
Pyrene	< 0.020	0.020	µg/L	2019-02-10	
Quinoline	< 0.050	0.050	µg/L	2019-02-10	
Surrogate: Acridine-d9	79	50-140	%	2019-02-10	
Surrogate: Naphthalene-d8	81	50-140	%	2019-02-10	
Surrogate: Perylene-d12	91	50-140	%	2019-02-10	

Total Metals

Aluminum, total	0.0526	0.0050	mg/L	2019-02-08	
Antimony, total	< 0.00020	0.00020	mg/L	2019-02-08	
Arsenic, total	0.00102	0.00050	mg/L	2019-02-08	
Barium, total	0.0780	0.0050	mg/L	2019-02-08	
Beryllium, total	< 0.00010	0.00010	mg/L	2019-02-08	
Bismuth, total	< 0.00010	0.00010	mg/L	2019-02-08	
Boron, total	0.0252	0.0050	mg/L	2019-02-08	
Cadmium, total	< 0.000010	0.000010	mg/L	2019-02-08	
Calcium, total	38.7	0.20	mg/L	2019-02-08	
Chromium, total	< 0.00050	0.00050	mg/L	2019-02-08	
Cobalt, total	< 0.00010	0.00010	mg/L	2019-02-08	
Copper, total	0.00091	0.00040	mg/L	2019-02-08	
Iron, total	< 0.010	0.010	mg/L	2019-02-08	
Lead, total	< 0.00020	0.00020	mg/L	2019-02-08	
Lithium, total	0.00647	0.00010	mg/L	2019-02-08	
Magnesium, total	18.5	0.010	mg/L	2019-02-08	
Manganese, total	0.00065	0.00020	mg/L	2019-02-08	
Mercury, total	< 0.000010	0.000010	mg/L	2019-02-06	
Molybdenum, total	0.00132	0.00010	mg/L	2019-02-08	

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Winter analysis WTP (9012097-01) | Matrix: Water | Sampled: 2019-01-28 09:40, Continued

Total Metals, Continued

Nickel, total	0.00096	0.00040	mg/L	2019-02-08	
Phosphorus, total	< 0.050	0.050	mg/L	2019-02-08	
Potassium, total	2.03	0.10	mg/L	2019-02-08	
Selenium, total	< 0.00050	0.00050	mg/L	2019-02-08	
Silicon, total	< 1.0	1.0	mg/L	2019-02-08	
Silver, total	< 0.000050	0.000050	mg/L	2019-02-08	
Sodium, total	21.2	0.10	mg/L	2019-02-08	
Strontium, total	0.219	0.0010	mg/L	2019-02-08	
Sulfur, total	20.9	3.0	mg/L	2019-02-08	
Tellurium, total	< 0.00050	0.00050	mg/L	2019-02-08	
Thallium, total	< 0.000020	0.000020	mg/L	2019-02-08	
Thorium, total	< 0.00010	0.00010	mg/L	2019-02-08	
Tin, total	< 0.00020	0.00020	mg/L	2019-02-08	
Titanium, total	< 0.0050	0.0050	mg/L	2019-02-08	
Tungsten, total	< 0.0010	0.0010	mg/L	2019-02-08	
Uranium, total	0.000713	0.000020	mg/L	2019-02-08	
Vanadium, total	< 0.0010	0.0010	mg/L	2019-02-08	
Zinc, total	< 0.0040	0.0040	mg/L	2019-02-08	
Zirconium, total	< 0.00010	0.00010	mg/L	2019-02-08	

Volatile Organic Compounds (VOC)

S03

Benzene	< 0.5	0.5	µg/L	2019-02-10	
Bromodichloromethane	10.4	1.0	µg/L	2019-02-10	
Bromoform	27.2	1.0	µg/L	2019-02-10	
Carbon tetrachloride	< 0.5	0.5	µg/L	2019-02-10	
Chlorobenzene	< 1.0	1.0	µg/L	2019-02-10	
Chloroethane	< 2.0	2.0	µg/L	2019-02-10	
Chloroform	30.6	1.0	µg/L	2019-02-10	
Dibromochloromethane	5.2	1.0	µg/L	2019-02-10	
1,2-Dibromoethane	< 0.3	0.3	µg/L	2019-02-10	
Dibromomethane	< 1.0	1.0	µg/L	2019-02-10	
1,2-Dichlorobenzene	< 0.5	0.5	µg/L	2019-02-10	
1,3-Dichlorobenzene	< 1.0	1.0	µg/L	2019-02-10	
1,4-Dichlorobenzene	< 1.0	1.0	µg/L	2019-02-10	
1,1-Dichloroethane	< 1.0	1.0	µg/L	2019-02-10	
1,2-Dichloroethane	< 1.0	1.0	µg/L	2019-02-10	
1,1-Dichloroethylene	< 1.0	1.0	µg/L	2019-02-10	
cis-1,2-Dichloroethylene	< 1.0	1.0	µg/L	2019-02-10	
trans-1,2-Dichloroethylene	< 1.0	1.0	µg/L	2019-02-10	
Dichloromethane	< 3.0	3.0	µg/L	2019-02-10	
1,2-Dichloropropane	< 1.0	1.0	µg/L	2019-02-10	
1,3-Dichloropropene (cis + trans)	< 1.0	1.0	µg/L	2019-02-10	
Ethylbenzene	< 1.0	1.0	µg/L	2019-02-10	

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Winter analysis WTP (9012097-01) Matrix: Water Sampled: 2019-01-28 09:40, Continued					
Volatile Organic Compounds (VOC), Continued					S03
Methyl tert-butyl ether	< 1.0	1.0	µg/L	2019-02-10	
Styrene	< 1.0	1.0	µg/L	2019-02-10	
1,1,2,2-Tetrachloroethane	< 0.5	0.5	µg/L	2019-02-10	
Tetrachloroethylene	< 1.0	1.0	µg/L	2019-02-10	
Toluene	< 1.0	1.0	µg/L	2019-02-10	
1,1,1-Trichloroethane	< 1.0	1.0	µg/L	2019-02-10	
1,1,2-Trichloroethane	< 1.0	1.0	µg/L	2019-02-10	
Trichloroethylene	< 1.0	1.0	µg/L	2019-02-10	
Trichlorofluoromethane	< 1.0	1.0	µg/L	2019-02-10	
Vinyl chloride	< 1.0	1.0	µg/L	2019-02-10	
Xylenes (total)	< 2.0	2.0	µg/L	2019-02-10	
Surrogate: Toluene-d8	0.2	70-130	%	2019-02-10	
Surrogate: 4-Bromofluorobenzene	88	70-130	%	2019-02-10	
Surrogate: 1,4-Dichlorobenzene-d4	79	70-130	%	2019-02-10	

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.

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

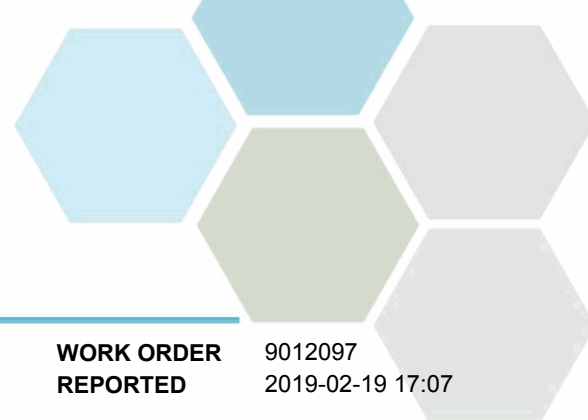
APPENDIX 1: SUPPORTING INFORMATION

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Winter Analysis 2019

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Analysis Description	Method Ref.	Technique	Location
Acid Herbicides in Water	EPA 8151A*	DCM Extraction with Diazomethane Derivatization, GC-MS	Richmond
Alkalinity in Water	SM 2320 B* (2011)	Titration with H ₂ SO ₄	Edmonton
Ammonia, Total in Water	SM 4500-NH ₃ D* (2011)	Ion Selective Electrode	Edmonton
Anions in Water	SM 4110 B (2011)	Ion Chromatography	Edmonton
Bromate in Water	SM 4110 B (2011)	Ion Chromatography	Sublet
Carbon, Total Organic in Water	SM 5310 B (2011)	Combustion, Infrared CO ₂ Detection	Kelowna
Chlorine, Free in Water	SM 4500-Cl G (2011)	Colorimetry (DPD)	Edmonton
Chlorine, Total in Water	SM 4500-Cl G (2011)	Colorimetry (DPD)	Edmonton
Colour, True in Water	SM 2120 C (2011)	Spectrophotometry (456 nm)	Edmonton
Conductivity in Water	SM 2510 B (2011)	Conductivity Meter	Edmonton
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	Kelowna
Cyanobacterial Toxins in Water	EPA 546*	Adda Enzyme-Linked Immunosorbent Assay (ELISA)	Sublet
Hardness in Water	SM 2340 B (2011)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	N/A
Mercury, total in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
Nitritotriacetic Acid in Water	EPA 430.1	Manual Colorimetry (Zinc-Zincon)	Kelowna
N-Nitrosodimethylamine in Water	In-House	N/A	Sublet
Pesticides in Water	EPA 3510C* / EPA 8270D*	Liquid-Liquid DCM Extraction (B/N) / GC-MSD (SIM)	Richmond
pH in Water	SM 4500-H+ B (2011)	Electrometry	Edmonton
Phenols, Chlorinated in Water	EPA 3510C* / EPA 8270D	Liquid-Liquid DCM Extraction (Acidic) / GC-MSD (SIM)	Richmond
Phosphorus, Total in Water	SM 4500-P B.5 (2011) / SM 4500-P E (2011)	Persulfate Digestion / Colorimetry (Ascorbic Acid)	Edmonton
Polycyclic Aromatic Hydrocarbons in Water	EPA 3511* / EPA 8270D	Hexane MicroExtraction (Base/Neutral) / GC-MSD (SIM)	Richmond
Solids, Total Dissolved in Water	SM 2540 C* (2011)	Gravimetry (Dried at 103-105C)	Edmonton
Sulfide, Total in Water	SM 4500-S ₂ D* (2011)	Colorimetry (Methylene Blue)	Edmonton
Total Metals in Water	EPA 200.2* / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	Richmond
Turbidity in Water	SM 2130 B (2011)	Nephelometry	Edmonton
Volatile Organic Compounds in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	Richmond

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



APPENDIX 1: SUPPORTING INFORMATION

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Glossary of Terms:

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

General Comments:

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

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 with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Acid Herbicides, Batch B9B0843									
Blank (B9B0843-BLK1)					Prepared: 2019-02-13, Analyzed: 2019-02-16				
2,4,5-T	< 0.10	0.10 µg/L							
2,4-D	< 0.10	0.10 µg/L							
Dicamba	< 0.10	0.10 µg/L							
Dinoseb	< 0.10	0.10 µg/L							
MCPA	< 0.20	0.20 µg/L							
Picloram	< 0.10	0.10 µg/L							
Surrogate: 2,4-DCAA	0.944	µg/L	1.01		93	60-114			
LCS (B9B0843-BS1)					Prepared: 2019-02-13, Analyzed: 2019-02-15				
2,4,5-T	1.00	0.10 µg/L	1.03		97	59-120			
2,4-D	1.00	0.10 µg/L	1.03		97	58-112			
Dicamba	0.88	0.10 µg/L	1.02		86	50-109			
Dinoseb	0.95	0.10 µg/L	1.09		88	50-114			
MCPA	98.7	2.00 µg/L	100		99	50-101			
Picloram	0.93	0.10 µg/L	1.05		89	53-119			
Surrogate: 2,4-DCAA	1.03	µg/L	1.01		102	60-114			
LCS Dup (B9B0843-BSD1)					Prepared: 2019-02-13, Analyzed: 2019-02-15				
2,4,5-T	1.00	0.10 µg/L	1.03		97	59-120	< 1	30	
2,4-D	1.00	0.10 µg/L	1.03		97	58-112	< 1	30	
Dicamba	0.88	0.10 µg/L	1.02		86	50-109	< 1	30	
Dinoseb	0.95	0.10 µg/L	1.09		87	50-114	< 1	30	
MCPA	92.1	2.00 µg/L	100		92	50-101	7	30	
Picloram	1.03	0.10 µg/L	1.05		98	53-119	10	30	
Surrogate: 2,4-DCAA	1.02	µg/L	1.01		101	60-114			

Anions, Batch B9A2036

Blank (B9A2036-BLK1)					Prepared: 2019-01-30, Analyzed: 2019-01-30				
Chlorate	< 0.50	0.50 mg/L							
Chloride	< 0.50	0.50 mg/L							
Chlorite	< 0.50	0.50 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.050	0.050 mg/L							
Nitrite (as N)	< 0.050	0.050 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Anions, Batch B9A2036, Continued									
Blank (B9A2036-BLK1), Continued				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Sulfate	< 1.0	1.0 mg/L							
LCS (B9A2036-BS1)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Chloride	10.1	0.50 mg/L	10.0		101	94-106			
Fluoride	0.94	0.10 mg/L	1.00		94	85-115			
Nitrate (as N)	1.07	0.050 mg/L	1.00		107	92-108			
Nitrite (as N)	0.520	0.050 mg/L	0.500		104	85-110			
Sulfate	52.4	1.0 mg/L	50.0		105	93-108			
LCS (B9A2036-BS2)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Chlorate	8.13	0.50 mg/L	7.50		108	89-112			
Chlorite	2.98	0.50 mg/L	3.00		99	80-120			
Duplicate (B9A2036-DUP1)				Source: 9012097-01	Prepared: 2019-01-30, Analyzed: 2019-01-30				
Chlorate	< 0.50	0.50 mg/L	< 0.50					9	
Chloride	16.3	0.50 mg/L	16.3				< 1	5	
Chlorite	< 0.50	0.50 mg/L	< 0.50					20	
Fluoride	0.16	0.10 mg/L	0.15					20	
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	61.7	1.0 mg/L	61.6				< 1	4	
Matrix Spike (B9A2036-MS1)				Source: 9012097-01	Prepared: 2019-01-30, Analyzed: 2019-01-30				
Chlorate	10.3	0.50 mg/L	10.0	< 0.50	103	88-116			
Chlorite	4.65	0.50 mg/L	5.00	< 0.50	93	80-120			
Matrix Spike (B9A2036-MS2)				Source: 9012097-01	Prepared: 2019-01-30, Analyzed: 2019-01-30				
Chloride	117	5.00 mg/L	100	16.3	100	85-111			
Fluoride	9.28	1.00 mg/L	10.0	< 0.10	93	85-113			
Nitrate (as N)	10.7	0.500 mg/L	10.0	< 0.050	107	87-111			
Nitrite (as N)	5.42	0.500 mg/L	5.00	< 0.050	108	81-127			
Sulfate	369	10.0 mg/L	300	61.6	103	89-111			
Matrix Spike (B9A2036-MS3)				Source: 9012097-01	Prepared: 2019-01-30, Analyzed: 2019-01-30				
Chloride	26.7	0.50 mg/L	10.0	16.3	104	85-111			
Fluoride	1.28	0.10 mg/L	1.00	0.15	112	85-113			
Nitrate (as N)	1.35	0.050 mg/L	1.00	< 0.050	135	87-111			SPK1
Nitrite (as N)	0.474	0.050 mg/L	0.500	< 0.050	95	81-127			
Sulfate	89.3	1.0 mg/L	30.0	61.6	93	89-111			
Matrix Spike Dup (B9A2036-MSD1)				Source: 9012097-01	Prepared: 2019-01-30, Analyzed: 2019-01-30				
Chlorate	10.4	0.50 mg/L	10.0	< 0.50	104	88-116	< 1		
Chlorite	4.65	0.50 mg/L	5.00	< 0.50	93	80-120	< 1		

Chlorinated Phenols, Batch B9B0705

Blank (B9B0705-BLK1)			Prepared: 2019-02-11, Analyzed: 2019-02-14						
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							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Chlorinated Phenols, Batch B9B0705, Continued									
Blank (B9B0705-BLK1), Continued					Prepared: 2019-02-11, Analyzed: 2019-02-14				
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	1.40	µg/L	2.01		70	60-130			
Surrogate: 2,4,6-Tribromophenol	1.43	µg/L	2.00		72	60-130			
LCS (B9B0705-BS1)					Prepared: 2019-02-11, Analyzed: 2019-02-13				
2-Chlorophenol	7.43	0.10 µg/L	10.0		74	60-108			
3 & 4-Chlorophenol	16.2	0.10 µg/L	19.8		82	60-120			
4-Chloro-3-Methylphenol	9.19	0.20 µg/L	10.0		92	60-140			
2,3-Dichlorophenol	9.19	0.20 µg/L	10.1		91	60-111			
2,4 & 2,5-Dichlorophenol	18.0	0.20 µg/L	20.2		89	60-116			
2,6-Dichlorophenol	9.19	0.20 µg/L	10.0		92	60-112			
3,4-Dichlorophenol	9.21	0.20 µg/L	10.0		92	60-120			
3,5-Dichlorophenol	10.3	0.20 µg/L	10.2		102	60-121			
2,3,4-Trichlorophenol	8.79	0.50 µg/L	10.0		87	60-122			
2,3,5-Trichlorophenol	8.99	0.50 µg/L	10.0		89	60-126			
2,3,6-Trichlorophenol	9.54	0.50 µg/L	10.0		95	60-130			
2,4,5-Trichlorophenol	9.26	0.50 µg/L	10.0		92	60-118			
2,4,6-Trichlorophenol	9.03	0.50 µg/L	9.95		91	60-120			
3,4,5-Trichlorophenol	9.54	0.50 µg/L	10.0		95	60-129			
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	18.3	0.50 µg/L	19.9		92	60-127			
2,3,4,6-Tetrachlorophenol	9.07	0.50 µg/L	10.0		91	60-127			
Pentachlorophenol	11.0	0.50 µg/L	9.95		111	60-130			
Surrogate: 2,4-Dibromophenol	1.83	µg/L	2.01		91	60-130			
Surrogate: 2,4,6-Tribromophenol	1.69	µg/L	2.00		84	60-130			
LCS Dup (B9B0705-BSD1)					Prepared: 2019-02-11, Analyzed: 2019-02-13				
2-Chlorophenol	6.57	0.10 µg/L	10.0		65	60-108	12	32	
3 & 4-Chlorophenol	15.8	0.10 µg/L	19.8		80	60-120	2	21	
4-Chloro-3-Methylphenol	9.12	0.20 µg/L	10.0		91	60-140	< 1	30	
2,3-Dichlorophenol	8.86	0.20 µg/L	10.1		88	60-111	4	27	
2,4 & 2,5-Dichlorophenol	17.8	0.20 µg/L	20.2		88	60-116	1	22	
2,6-Dichlorophenol	9.11	0.20 µg/L	10.0		91	60-112	< 1	27	
3,4-Dichlorophenol	9.19	0.20 µg/L	10.0		92	60-120	< 1	22	
3,5-Dichlorophenol	8.55	0.20 µg/L	10.2		84	60-121	19	23	
2,3,4-Trichlorophenol	8.81	0.50 µg/L	10.0		88	60-122	< 1	26	
2,3,5-Trichlorophenol	8.88	0.50 µg/L	10.0		88	60-126	1	24	
2,3,6-Trichlorophenol	9.48	0.50 µg/L	10.0		94	60-130	< 1	26	
2,4,5-Trichlorophenol	9.21	0.50 µg/L	10.0		92	60-118	< 1	22	
2,4,6-Trichlorophenol	9.08	0.50 µg/L	9.95		91	60-120	< 1	26	
3,4,5-Trichlorophenol	9.55	0.50 µg/L	10.0		95	60-129	< 1	19	
2,3,4,5 & 2,3,5,6-Tetrachlorophenol	19.3	0.50 µg/L	19.9		97	60-127	5	26	
2,3,4,6-Tetrachlorophenol	9.26	0.50 µg/L	10.0		93	60-127	2	23	
Pentachlorophenol	11.1	0.50 µg/L	9.95		112	60-130	< 1	17	
Surrogate: 2,4-Dibromophenol	1.80	µg/L	2.01		89	60-130			
Surrogate: 2,4,6-Tribromophenol	1.70	µg/L	2.00		85	60-130			

General Parameters, Batch B9A1782

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B9A1782, Continued									
Blank (B9A1782-BLK1)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B9A1782-BLK2)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Carbon, Total Organic	< 0.50	0.50 mg/L							
Blank (B9A1782-BLK3)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Carbon, Total Organic	< 0.50	0.50 mg/L							
LCS (B9A1782-BS1)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Carbon, Total Organic	10.7	0.50 mg/L	10.0		107	78-116			
LCS (B9A1782-BS2)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Carbon, Total Organic	8.28	0.50 mg/L	10.0		83	78-116			
LCS (B9A1782-BS3)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Carbon, Total Organic	9.17	0.50 mg/L	10.0		92	78-116			
General Parameters, Batch B9A1974									
Blank (B9A1974-BLK1)				Prepared: 2019-01-31, Analyzed: 2019-01-31					
Cyanide, Total	< 0.0020	0.0020 mg/L							
LCS (B9A1974-BS1)				Prepared: 2019-01-31, Analyzed: 2019-01-31					
Cyanide, Total	0.0190	0.0020 mg/L	0.0200		95	82-120			
LCS Dup (B9A1974-BSD1)				Prepared: 2019-01-31, Analyzed: 2019-01-31					
Cyanide, Total	0.0195	0.0020 mg/L	0.0200		97	82-120	3	10	
General Parameters, Batch B9A1977									
Blank (B9A1977-BLK1)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Turbidity	< 0.10	0.10 NTU							
LCS (B9A1977-BS1)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Turbidity	39.7	0.10 NTU	40.0		99	90-110			
Duplicate (B9A1977-DUP1)				Source: 9012097-01		Prepared: 2019-01-30, Analyzed: 2019-01-30			
Turbidity	< 0.10	0.10 NTU		< 0.10				6	
General Parameters, Batch B9A1978									
Blank (B9A1978-BLK1)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Chlorine, Total	< 0.02	0.02 mg/L							
Chlorine, Free	< 0.02	0.02 mg/L							
Duplicate (B9A1978-DUP1)				Source: 9012097-01		Prepared: 2019-01-30, Analyzed: 2019-01-30			
Chlorine, Total	1.80	0.02 mg/L		1.82			1	10	
Chlorine, Free	1.52	0.02 mg/L		1.53			< 1	20	
Reference (B9A1978-SRM1)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
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 B9A2022

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B9A2022, Continued									
Blank (B9A2022-BLK1)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Colour, True	< 5.0	5.0 CU							
LCS (B9A2022-BS1)				Prepared: 2019-01-30, Analyzed: 2019-01-30					
Colour, True	20	5.0 CU	20.0		102	90-109			
General Parameters, Batch B9A2080									
Blank (B9A2080-BLK1)				Prepared: 2019-02-01, Analyzed: 2019-02-01					
Solids, Total Dissolved	< 10	10 mg/L							
Duplicate (B9A2080-DUP1)				Source: 9012097-01 Prepared: 2019-02-01, Analyzed: 2019-02-01					
Solids, Total Dissolved	260	10 mg/L		254			2	5	
Reference (B9A2080-SRM1)				Prepared: 2019-02-01, Analyzed: 2019-02-01					
Solids, Total Dissolved	246	10 mg/L	240		102	85-115			
General Parameters, Batch B9A2082									
Blank (B9A2082-BLK1)				Prepared: 2019-01-31, Analyzed: 2019-01-31					
Nitritotriacetic Acid	< 0.20	0.20 mg/L							
LCS (B9A2082-BS1)				Prepared: 2019-01-31, Analyzed: 2019-01-31					
Nitritotriacetic Acid	1.06	0.20 mg/L	1.00		106	80-120			
Duplicate (B9A2082-DUP1)				Source: 9012097-01 Prepared: 2019-01-31, Analyzed: 2019-01-31					
Nitritotriacetic Acid	< 0.20	0.20 mg/L		< 0.20				20	
Matrix Spike (B9A2082-MS1)				Source: 9012097-01 Prepared: 2019-01-31, Analyzed: 2019-01-31					
Nitritotriacetic Acid	1.02	0.20 mg/L	1.02	< 0.20	100	70-130			
General Parameters, Batch B9A2126									
Blank (B9A2126-BLK1)				Prepared: 2019-01-31, Analyzed: 2019-01-31					
Alkalinity, Total (as CaCO ₃)	< 2.0	2.0 mg/L							
Bicarbonate (HCO ₃)	< 2.0	2.0 mg/L							
Carbonate (CO ₃)	< 2.0	2.0 mg/L							
Hydroxide (OH)	< 2.0	2.0 mg/L							
LCS (B9A2126-BS1)				Prepared: 2019-01-31, Analyzed: 2019-01-31					
Alkalinity, Total (as CaCO ₃)	252	2.0 mg/L	250		101	94-108			
General Parameters, Batch B9B0020									
Reference (B9B0020-SRM1)				Prepared: 2019-01-31, Analyzed: 2019-01-31					
pH	7.00	0.10 pH units	7.00		100	98-102			
General Parameters, Batch B9B0022									
Blank (B9B0022-BLK1)				Prepared: 2019-02-01, Analyzed: 2019-02-01					
Phosphorus, Total (as P)	< 0.020	0.020 mg/L							
LCS (B9B0022-BS1)				Prepared: 2019-02-01, Analyzed: 2019-02-01					
Phosphorus, Total (as P)	0.496	0.020 mg/L	0.500		99	85-120			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B9B0025									
Blank (B9B0025-BLK1)				Prepared: 2019-02-01, Analyzed: 2019-02-01					
Conductivity (EC)	< 2.0	2.0	µS/cm						
LCS (B9B0025-BS1)				Prepared: 2019-02-01, Analyzed: 2019-02-01					
Conductivity (EC)	1000	2.0	µS/cm	1000	100	95-105			
General Parameters, Batch B9B0042									
Blank (B9B0042-BLK1)				Prepared: 2019-02-01, Analyzed: 2019-02-01					
Sulfide, Total	< 0.020	0.020	mg/L						
Blank (B9B0042-BLK2)				Prepared: 2019-02-01, Analyzed: 2019-02-01					
Sulfide, Total	< 0.020	0.020	mg/L						
LCS (B9B0042-BS1)				Prepared: 2019-02-01, Analyzed: 2019-02-01					
Sulfide, Total	0.486	0.020	mg/L	0.500	97	82-116			
LCS (B9B0042-BS2)				Prepared: 2019-02-01, Analyzed: 2019-02-01					
Sulfide, Total	0.478	0.020	mg/L	0.500	96	82-116			
General Parameters, Batch B9B0140									
Blank (B9B0140-BLK1)				Prepared: 2019-02-04, Analyzed: 2019-02-04					
Ammonia, Total (as N)	< 0.050	0.050	mg/L						
LCS (B9B0140-BS1)				Prepared: 2019-02-04, Analyzed: 2019-02-04					
Ammonia, Total (as N)	0.205	0.050	mg/L	0.200	102	94-113			
Pesticides, Herbicides, and Fungicides, Batch B9B0204									
Blank (B9B0204-BLK1)				Prepared: 2019-02-11, Analyzed: 2019-02-13					S09
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						

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B9B0204, Continued									
Blank (B9B0204-BLK1), Continued			Prepared: 2019-02-11, Analyzed: 2019-02-13						S09
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	0.0637	µg/L	1.00		6	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.114	µg/L	1.00		11	50-140			
LCS (B9B0204-BS1)			Prepared: 2019-02-11, Analyzed: 2019-02-13						S09
Alachlor	0.976	0.100 µg/L	1.00		98	65-118			
Aldrin	0.940	0.006 µg/L	1.00		94	58-107			
Atrazine	0.936	0.100 µg/L	1.00		94	61-122			
Atrazine-desethyl	1.06	0.100 µg/L	0.991		107	50-140			
Azinphos-methyl	1.01	0.200 µg/L	1.00		101	53-127			
alpha-BHC	0.898	0.010 µg/L	1.01		89	54-134			
beta-BHC	0.932	0.050 µg/L	1.01		92	58-112			
delta-BHC	0.871	0.050 µg/L	1.00		87	58-119			
gamma-BHC (Lindane)	0.915	0.050 µg/L	1.00		91	59-113			
Bromacil	1.04	0.100 µg/L	1.00		104	52-123			
Bromoxynil	0.910	0.200 µg/L	1.01		90	50-132			
Butachlor	1.03	0.020 µg/L	1.01		102	50-140			
Captan	1.70	0.100 µg/L	0.994		171	63-137			SPK
Chlordane (cis + trans)	1.91	0.050 µg/L	2.01		95	50-140			
Chlorothalonil	0.883	0.050 µg/L	1.01		87	50-110			
Chlorpyrifos	1.00	0.010 µg/L	1.00		100	61-121			
Cyanazine	0.991	0.100 µg/L	1.00		99	57-126			
DDT, Total	5.88	0.010 µg/L	5.03		117	50-140			
Deltamethrin	10.6	0.100 µg/L	9.96		106	50-121			
Diazinon	1.24	0.020 µg/L	1.00		124	52-126			
Dichlorvos	0.978	0.100 µg/L	1.00		98	50-110			
Diclofop-methyl	0.934	0.100 µg/L	0.991		94	58-112			
Dieldrin	0.950	0.010 µg/L	1.00		95	64-112			
Dimethoate	0.850	0.200 µg/L	0.989		86	50-120			
Disulfoton	0.934	0.100 µg/L	0.994		94	50-122			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Pesticides, Herbicides, and Fungicides, Batch B9B0204, Continued									
LCS (B9B0204-BS1), Continued				Prepared: 2019-02-11, Analyzed: 2019-02-13				S09	
Diuron	1.07	0.200 µg/L	1.00		107	54-116			
Endosulfan I + II	1.88	0.010 µg/L	2.01		94	50-140			
Endosulfan sulfate	1.00	0.050 µg/L	1.01		99	64-110			
Endrin	1.04	0.020 µg/L	1.01		103	59-123			
Endrin aldehyde	0.994	0.020 µg/L	1.00		99	58-118			
Endrin ketone	1.13	0.020 µg/L	1.01		112	53-114			
Fenchlorphos (Ronnel)	0.830	0.100 µg/L	1.01		82	63-110			
Heptachlor	0.896	0.010 µg/L	1.01		89	58-128			
Heptachlor epoxide	0.962	0.010 µg/L	1.01		95	64-110			
Linuron	1.12	0.050 µg/L	0.996		113	59-140			
Malathion	1.02	0.100 µg/L	1.00		102	61-121			
Methoxychlor	0.992	0.050 µg/L	1.01		98	53-121			
Methyl parathion	1.12	0.100 µg/L	1.00		112	65-114			
Metolachlor	1.03	0.100 µg/L	1.01		102	65-112			
Metribuzin	1.01	0.200 µg/L	1.00		101	53-123			
Parathion	0.965	0.100 µg/L	0.997		97	53-130			
Pentachloronitrobenzene	0.960	0.100 µg/L	0.998		96	54-136			
Permethrin	0.976	0.010 µg/L	1.01		97	50-130			
Phorate	1.08	0.100 µg/L	1.00		108	55-120			
Prometon	0.866	0.300 µg/L	1.00		87	57-124			
Prometryne	0.951	0.100 µg/L	1.00		95	50-140			
Simazine	0.929	0.200 µg/L	1.00		93	54-119			
Sulfotep	0.878	0.100 µg/L	1.01		87	61-121			
Tebuthiuron	1.04	0.200 µg/L	1.01		103	50-127			
Temephos (Abate)	9.69	0.500 µg/L	10.0		97	67-135			
Terbufos	0.995	0.100 µg/L	0.993		100	51-122			
Triallate	0.966	0.100 µg/L	0.995		97	50-120			
Trifluralin	0.810	0.200 µg/L	1.00		81	52-129			
Surrogate: Tributyl Phosphate	0.0833	µg/L	1.00		8	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.123	µg/L	1.00		12	50-140			
LCS Dup (B9B0204-BSD1)				Prepared: 2019-02-11, Analyzed: 2019-02-13				S09	
Alachlor	0.968	0.100 µg/L	1.00		97	65-118	< 1	30	
Aldrin	0.925	0.006 µg/L	1.00		93	58-107	2	30	
Atrazine	0.939	0.100 µg/L	1.00		94	61-122	< 1	30	
Atrazine-desethyl	1.06	0.100 µg/L	0.991		107	50-140	< 1	30	
Azinphos-methyl	0.974	0.200 µg/L	1.00		97	53-127	3	30	
alpha-BHC	0.886	0.010 µg/L	1.01		88	54-134	1	30	
beta-BHC	0.919	0.050 µg/L	1.01		91	58-112	1	30	
delta-BHC	0.879	0.050 µg/L	1.00		88	58-119	1	30	
gamma-BHC (Lindane)	0.887	0.050 µg/L	1.00		89	59-113	3	30	
Bromacil	1.09	0.100 µg/L	1.00		109	52-123	5	30	
Bromoxynil	0.886	0.200 µg/L	1.01		88	50-132	3	30	
Butachlor	1.03	0.020 µg/L	1.01		102	50-140	< 1	30	
Captan	1.75	0.100 µg/L	0.994		176	63-137	3	30	SPK
Chlordane (cis + trans)	1.91	0.050 µg/L	2.01		95	50-140	< 1	30	
Chlorothalonil	0.878	0.050 µg/L	1.01		87	50-110	< 1	30	
Chlorpyrifos	0.988	0.010 µg/L	1.00		99	61-121	2	30	
Cyanazine	1.01	0.100 µg/L	1.00		101	57-126	2	30	
DDT, Total	5.85	0.010 µg/L	5.03		116	50-140	< 1	30	
Deltamethrin	10.3	0.100 µg/L	9.96		103	50-121	3	30	
Diazinon	1.23	0.020 µg/L	1.00		123	52-126	< 1	30	
Dichlorvos	0.963	0.100 µg/L	1.00		96	50-110	2	30	
Diclofop-methyl	0.954	0.100 µg/L	0.991		96	58-112	2	30	
Dieldrin	0.951	0.010 µg/L	1.00		95	64-112	< 1	30	
Dimethoate	0.862	0.200 µg/L	0.989		87	50-120	1	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 B9B0204, Continued									
LCS Dup (B9B0204-BSD1), Continued				Prepared: 2019-02-11, Analyzed: 2019-02-13				S09	
Disulfoton	0.924	0.100 µg/L	0.994		93	50-122	1	30	
Diuron	1.10	0.200 µg/L	1.00		110	54-116	2	30	
Endosulfan I + II	1.89	0.010 µg/L	2.01		94	50-140	< 1	30	
Endosulfan sulfate	1.00	0.050 µg/L	1.01		99	64-110	< 1	30	
Endrin	1.04	0.020 µg/L	1.01		103	59-123	< 1	30	
Endrin aldehyde	0.991	0.020 µg/L	1.00		99	58-118	< 1	30	
Endrin ketone	1.16	0.020 µg/L	1.01		114	53-114	2	30	
Fenchlorphos (Ronnell)	0.840	0.100 µg/L	1.01		83	63-110	1	30	
Heptachlor	0.879	0.010 µg/L	1.01		87	58-128	2	30	
Heptachlor epoxide	0.942	0.010 µg/L	1.01		93	64-110	2	30	
Linuron	1.10	0.050 µg/L	0.996		111	59-140	2	30	
Malathion	1.01	0.100 µg/L	1.00		101	61-121	< 1	30	
Methoxychlor	0.956	0.050 µg/L	1.01		95	53-121	4	30	
Methyl parathion	1.13	0.100 µg/L	1.00		113	65-114	< 1	30	
Metolachlor	1.02	0.100 µg/L	1.01		101	65-112	< 1	30	
Metribuzin	1.01	0.200 µg/L	1.00		101	53-123	< 1	30	
Parathion	0.966	0.100 µg/L	0.997		97	53-130	< 1	30	
Pentachloronitrobenzene	0.956	0.100 µg/L	0.998		96	54-136	< 1	30	
Permethrin	0.965	0.010 µg/L	1.01		96	50-130	1	30	
Phorate	1.09	0.100 µg/L	1.00		109	55-120	1	30	
Prometon	0.888	0.300 µg/L	1.00		89	57-124	3	30	
Prometryne	0.985	0.100 µg/L	1.00		98	50-140	3	30	
Simazine	0.936	0.200 µg/L	1.00		94	54-119	< 1	30	
Sulfotep	0.882	0.100 µg/L	1.01		87	61-121	< 1	30	
Tebuthiuron	1.03	0.200 µg/L	1.01		102	50-127	< 1	30	
Temephos (Abate)	9.18	0.500 µg/L	10.0		92	67-135	5	30	
Terbufos	0.990	0.100 µg/L	0.993		100	51-122	< 1	30	
Triallate	0.962	0.100 µg/L	0.995		97	50-120	< 1	30	
Trifluralin	0.817	0.200 µg/L	1.00		82	52-129	< 1	30	
Surrogate: Tributyl Phosphate	0.0820	µg/L	1.00		8	50-140			
Surrogate: 4-chloro-3-nitrobenzotrifluoride	0.122	µg/L	1.00		12	50-140			

Polycyclic Aromatic Hydrocarbons (PAH), Batch B9B0589

Blank (B9B0589-BLK1)			Prepared: 2019-02-08, Analyzed: 2019-02-10						
Acenaphthene	< 0.050	0.050 µg/L							
Acenaphthylene	< 0.200	0.200 µg/L							
Acridine	< 0.050	0.050 µg/L							
Anthracene	< 0.010	0.010 µg/L							
Benz(a)anthracene	< 0.010	0.010 µg/L							
Benzo(a)pyrene	< 0.010	0.010 µg/L							
Benzo(b+j)fluoranthene	< 0.050	0.050 µg/L							
Benzo(g,h,i)perylene	< 0.050	0.050 µg/L							
Benzo(k)fluoranthene	< 0.050	0.050 µg/L							
2-Chloronaphthalene	< 0.100	0.100 µg/L							
Chrysene	< 0.050	0.050 µg/L							
Dibenz(a,h)anthracene	< 0.010	0.010 µg/L							
Fluoranthene	< 0.030	0.030 µg/L							
Fluorene	< 0.050	0.050 µg/L							
Indeno(1,2,3-cd)pyrene	< 0.050	0.050 µg/L							
1-Methylnaphthalene	< 0.100	0.100 µg/L							
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							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Polycyclic Aromatic Hydrocarbons (PAH), Batch B9B0589, Continued									
Blank (B9B0589-BLK1), Continued					Prepared: 2019-02-08, Analyzed: 2019-02-10				
Quinoline	< 0.050	0.050 µg/L							
Surrogate: Acridine-d9	3.36	µg/L	4.38		77	50-140			
Surrogate: Naphthalene-d8	3.58	µg/L	4.47		80	50-140			
Surrogate: Perylene-d12	4.46	µg/L	4.47		100	50-140			
LCS (B9B0589-BS1)					Prepared: 2019-02-08, Analyzed: 2019-02-10				
Acenaphthene	4.59	0.050 µg/L	4.40		104	58-125			
Acenaphthylene	4.60	0.200 µg/L	4.40		104	54-128			
Acridine	3.46	0.050 µg/L	4.44		78	50-112			
Anthracene	4.51	0.010 µg/L	4.44		101	66-125			
Benz(a)anthracene	4.05	0.010 µg/L	4.44		91	59-123			
Benzo(a)pyrene	4.45	0.010 µg/L	4.40		101	62-116			
Benzo(b+j)fluoranthene	8.81	0.050 µg/L	8.89		99	69-121			
Benzo(g,h,i)perylene	5.08	0.050 µg/L	4.40		116	58-129			
Benzo(k)fluoranthene	5.10	0.050 µg/L	4.44		115	67-128			
2-Chloronaphthalene	4.42	0.100 µg/L	4.44		100	50-140			
Chrysene	4.18	0.050 µg/L	4.42		95	58-125			
Dibenz(a,h)anthracene	4.70	0.010 µg/L	4.42		106	58-126			
Fluoranthene	4.18	0.030 µg/L	4.36		96	67-133			
Fluorene	4.22	0.050 µg/L	4.40		96	55-122			
Indeno(1,2,3-cd)pyrene	4.23	0.050 µg/L	4.44		95	62-126			
1-Methylnaphthalene	4.31	0.100 µg/L	4.38		99	53-125			
2-Methylnaphthalene	4.50	0.100 µg/L	4.36		103	52-122			
Naphthalene	5.46	0.200 µg/L	4.44		123	50-130			
Phenanthrene	4.56	0.100 µg/L	4.40		104	67-127			
Pyrene	4.27	0.020 µg/L	4.44		96	68-133			
Quinoline	4.64	0.050 µg/L	4.44		104	51-140			
Surrogate: Acridine-d9	3.45	µg/L	4.38		79	50-140			
Surrogate: Naphthalene-d8	5.30	µg/L	4.47		119	50-140			
Surrogate: Perylene-d12	4.45	µg/L	4.47		100	50-140			
LCS Dup (B9B0589-BSD1)					Prepared: 2019-02-08, Analyzed: 2019-02-10				
Acenaphthene	4.59	0.050 µg/L	4.40		104	58-125	< 1	16	
Acenaphthylene	4.49	0.200 µg/L	4.40		102	54-128	2	16	
Acridine	3.55	0.050 µg/L	4.44		80	50-112	3	26	
Anthracene	4.81	0.010 µg/L	4.44		108	66-125	6	14	
Benz(a)anthracene	4.05	0.010 µg/L	4.44		91	59-123	< 1	23	
Benzo(a)pyrene	4.47	0.010 µg/L	4.40		102	62-116	< 1	16	
Benzo(b+j)fluoranthene	9.13	0.050 µg/L	8.89		103	69-121	4	14	
Benzo(g,h,i)perylene	5.00	0.050 µg/L	4.40		114	58-129	2	25	
Benzo(k)fluoranthene	5.14	0.050 µg/L	4.44		116	67-128	< 1	18	
2-Chloronaphthalene	4.17	0.100 µg/L	4.44		94	50-140	6	30	
Chrysene	4.24	0.050 µg/L	4.42		96	58-125	1	24	
Dibenz(a,h)anthracene	4.61	0.010 µg/L	4.42		104	58-126	2	23	
Fluoranthene	4.44	0.030 µg/L	4.36		102	67-133	6	18	
Fluorene	4.36	0.050 µg/L	4.40		99	55-122	3	16	
Indeno(1,2,3-cd)pyrene	4.77	0.050 µg/L	4.44		107	62-126	12	22	
1-Methylnaphthalene	3.63	0.100 µg/L	4.38		83	53-125	17	16	RPD
2-Methylnaphthalene	3.63	0.100 µg/L	4.36		83	52-122	21	17	RPD
Naphthalene	3.74	0.200 µg/L	4.44		84	50-130	37	18	RPD
Phenanthrene	4.72	0.100 µg/L	4.40		107	67-127	3	14	
Pyrene	4.53	0.020 µg/L	4.44		102	68-133	6	18	
Quinoline	5.01	0.050 µg/L	4.44		113	51-140	8	12	
Surrogate: Acridine-d9	3.40	µg/L	4.38		78	50-140			
Surrogate: Naphthalene-d8	3.48	µg/L	4.47		78	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 B9B0589, Continued

LCS Dup (B9B0589-BSD1), Continued			Prepared: 2019-02-08, Analyzed: 2019-02-10						
Surrogate: Perylene-d12	4.30	µg/L	4.47		96	50-140			

Total Metals, Batch B9B0281

Blank (B9B0281-BLK1)			Prepared: 2019-02-05, Analyzed: 2019-02-06						
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B9B0281-BLK2)			Prepared: 2019-02-05, Analyzed: 2019-02-06						
Mercury, total	< 0.000010	0.000010 mg/L							
Reference (B9B0281-SRM1)			Prepared: 2019-02-05, Analyzed: 2019-02-06						
Mercury, total	0.00507	0.000010 mg/L	0.00489		104	80-120			
Reference (B9B0281-SRM2)			Prepared: 2019-02-05, Analyzed: 2019-02-06						
Mercury, total	0.00430	0.000010 mg/L	0.00489		88	80-120			

Total Metals, Batch B9B0535

Blank (B9B0535-BLK1)			Prepared: 2019-02-08, Analyzed: 2019-02-08						
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Beryllium, total	< 0.00010	0.00010 mg/L							
Bismuth, total	< 0.00010	0.00010 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Lithium, total	< 0.00010	0.00010 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Phosphorus, total	< 0.050	0.050 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silicon, total	< 1.0	1.0 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							
Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0010	0.0010 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Newell Regional Services Corporation
Winter Analysis 2019

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B9B0535, Continued									
Blank (B9B0535-BLK1), Continued				Prepared: 2019-02-08, Analyzed: 2019-02-08					
Zirconium, total	< 0.00010	0.00010 mg/L							
Blank (B9B0535-BLK2)				Prepared: 2019-02-08, Analyzed: 2019-02-08					
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Beryllium, total	< 0.00010	0.00010 mg/L							
Bismuth, total	< 0.00010	0.00010 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Lithium, total	< 0.00010	0.00010 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Phosphorus, total	< 0.050	0.050 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silicon, total	< 1.0	1.0 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							
Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0010	0.0010 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							
Blank (B9B0535-BLK3)				Prepared: 2019-02-08, Analyzed: 2019-02-08					
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Beryllium, total	< 0.00010	0.00010 mg/L							
Bismuth, total	< 0.00010	0.00010 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							

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Winter Analysis 2019

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B9B0535, Continued									
Blank (B9B0535-BLK3), Continued				Prepared: 2019-02-08, Analyzed: 2019-02-08					
Lithium, total	< 0.00010	0.00010 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Phosphorus, total	< 0.050	0.050 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silicon, total	< 1.0	1.0 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							
Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0010	0.0010 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							
LCS (B9B0535-BS1)				Prepared: 2019-02-08, Analyzed: 2019-02-08					
Aluminum, total	0.0214	0.0050 mg/L	0.0200		107	80-120			
Antimony, total	0.0202	0.00020 mg/L	0.0200		101	80-120			
Arsenic, total	0.0182	0.00050 mg/L	0.0200		91	80-120			
Barium, total	0.0186	0.0050 mg/L	0.0200		93	80-120			
Beryllium, total	0.0188	0.00010 mg/L	0.0200		94	80-120			
Bismuth, total	0.0203	0.00010 mg/L	0.0200		101	80-120			
Boron, total	0.0199	0.0050 mg/L	0.0200		100	80-120			
Cadmium, total	0.0192	0.000010 mg/L	0.0200		96	80-120			
Calcium, total	1.99	0.20 mg/L	2.00		99	80-120			
Chromium, total	0.0185	0.00050 mg/L	0.0200		93	80-120			
Cobalt, total	0.0189	0.00010 mg/L	0.0200		95	80-120			
Copper, total	0.0200	0.00040 mg/L	0.0200		100	80-120			
Iron, total	1.80	0.010 mg/L	2.00		90	80-120			
Lead, total	0.0203	0.00020 mg/L	0.0200		101	80-120			
Lithium, total	0.0198	0.00010 mg/L	0.0200		99	80-120			
Magnesium, total	1.95	0.010 mg/L	2.00		98	80-120			
Manganese, total	0.0190	0.00020 mg/L	0.0200		95	80-120			
Molybdenum, total	0.0192	0.00010 mg/L	0.0200		96	80-120			
Nickel, total	0.0191	0.00040 mg/L	0.0200		96	80-120			
Phosphorus, total	1.99	0.050 mg/L	2.00		99	80-120			
Potassium, total	1.83	0.10 mg/L	2.00		92	80-120			
Selenium, total	0.0208	0.00050 mg/L	0.0200		104	80-120			
Silicon, total	1.7	1.0 mg/L	2.00		83	80-120			
Silver, total	0.0200	0.000050 mg/L	0.0200		100	80-120			
Sodium, total	1.97	0.10 mg/L	2.00		98	80-120			
Strontium, total	0.0173	0.0010 mg/L	0.0200		86	80-120			
Sulfur, total	4.5	3.0 mg/L	5.00		90	80-120			
Tellurium, total	0.0188	0.00050 mg/L	0.0200		94	80-120			
Thallium, total	0.0202	0.000020 mg/L	0.0200		101	80-120			
Thorium, total	0.0198	0.00010 mg/L	0.0200		99	80-120			
Tin, total	0.0199	0.00020 mg/L	0.0200		100	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Newell Regional Services Corporation
Winter Analysis 2019

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B9B0535, Continued									
LCS (B9B0535-BS1), Continued				Prepared: 2019-02-08, Analyzed: 2019-02-08					
Titanium, total	0.0186	0.0050 mg/L	0.0200		93	80-120			
Tungsten, total	0.0205	0.0010 mg/L	0.0200		103	80-120			
Uranium, total	0.0204	0.000020 mg/L	0.0200		102	80-120			
Vanadium, total	0.0187	0.0010 mg/L	0.0200		94	80-120			
Zinc, total	0.0204	0.0040 mg/L	0.0200		102	80-120			
Zirconium, total	0.0194	0.00010 mg/L	0.0200		97	80-120			
Duplicate (B9B0535-DUP1)				Source: 9012097-01	Prepared: 2019-02-08, Analyzed: 2019-02-08				
Aluminum, total	0.0578	0.0050 mg/L		0.0526			9	20	
Antimony, total	< 0.00020	0.00020 mg/L		< 0.00020				20	
Arsenic, total	0.00109	0.00050 mg/L		0.00102				15	
Barium, total	0.0822	0.0050 mg/L		0.0780			5	9	
Beryllium, total	< 0.00010	0.00010 mg/L		< 0.00010				16	
Bismuth, total	< 0.00010	0.00010 mg/L		< 0.00010				20	
Boron, total	0.0274	0.0050 mg/L		0.0252			9	20	
Cadmium, total	< 0.000010	0.000010 mg/L		< 0.000010				20	
Calcium, total	40.4	0.20 mg/L		38.7			4	12	
Chromium, total	< 0.00050	0.00050 mg/L		< 0.00050				12	
Cobalt, total	< 0.00010	0.00010 mg/L		< 0.00010				13	
Copper, total	0.00114	0.00040 mg/L		0.00091				20	
Iron, total	< 0.010	0.010 mg/L		< 0.010				18	
Lead, total	< 0.00020	0.00020 mg/L		< 0.00020				20	
Lithium, total	0.00666	0.00010 mg/L		0.00647			3	19	
Magnesium, total	19.3	0.010 mg/L		18.5			4	10	
Manganese, total	0.00075	0.00020 mg/L		0.00065				13	
Molybdenum, total	0.00141	0.00010 mg/L		0.00132			7	20	
Nickel, total	0.00458	0.00040 mg/L		0.00096			131	20	RPD
Phosphorus, total	< 0.050	0.050 mg/L		< 0.050				20	
Potassium, total	2.14	0.10 mg/L		2.03			5	13	
Selenium, total	< 0.00050	0.00050 mg/L		< 0.00050				20	
Silicon, total	< 1.0	1.0 mg/L		< 1.0				11	
Silver, total	< 0.000050	0.000050 mg/L		< 0.000050				18	
Sodium, total	22.1	0.10 mg/L		21.2			5	10	
Strontium, total	0.229	0.0010 mg/L		0.219			5	9	
Sulfur, total	22.0	3.0 mg/L		20.9			5	20	
Tellurium, total	< 0.00050	0.00050 mg/L		< 0.00050				20	
Thallium, total	< 0.000020	0.000020 mg/L		< 0.000020				20	
Thorium, total	< 0.00010	0.00010 mg/L		< 0.00010				18	
Tin, total	< 0.00020	0.00020 mg/L		< 0.00020				20	
Titanium, total	< 0.0050	0.0050 mg/L		< 0.0050				20	
Tungsten, total	< 0.0010	0.0010 mg/L		< 0.0010				20	
Uranium, total	0.000737	0.000020 mg/L		0.000713			3	14	
Vanadium, total	< 0.0010	0.0010 mg/L		< 0.0010				17	
Zinc, total	< 0.0040	0.0040 mg/L		< 0.0040				8	
Zirconium, total	< 0.00010	0.00010 mg/L		< 0.00010				20	
Reference (B9B0535-SRM1)				Prepared: 2019-02-08, Analyzed: 2019-02-08					
Aluminum, total	0.289	0.0050 mg/L	0.303		95	82-114			
Antimony, total	0.0511	0.00020 mg/L	0.0511		100	88-115			
Arsenic, total	0.113	0.00050 mg/L	0.118		96	88-111			
Barium, total	0.767	0.0050 mg/L	0.823		93	83-110			
Beryllium, total	0.0478	0.00010 mg/L	0.0496		96	80-119			
Boron, total	3.44	0.0050 mg/L	3.45		100	80-118			
Cadmium, total	0.0485	0.000010 mg/L	0.0495		98	90-110			
Calcium, total	10.7	0.20 mg/L	11.6		92	85-113			
Chromium, total	0.240	0.00050 mg/L	0.250		96	88-111			

APPENDIX 2: QUALITY CONTROL RESULTS

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B9B0535, Continued									
Reference (B9B0535-SRM1), Continued				Prepared: 2019-02-08, Analyzed: 2019-02-08					
Cobalt, total	0.0380	0.00010 mg/L	0.0377		101	90-114			
Copper, total	0.504	0.00040 mg/L	0.486		104	90-117			
Iron, total	0.477	0.010 mg/L	0.488		98	90-116			
Lead, total	0.211	0.00020 mg/L	0.204		103	90-110			
Lithium, total	0.397	0.00010 mg/L	0.403		98	79-118			
Magnesium, total	3.83	0.010 mg/L	3.79		101	88-116			
Manganese, total	0.106	0.00020 mg/L	0.109		97	88-108			
Molybdenum, total	0.198	0.00010 mg/L	0.198		100	88-110			
Nickel, total	0.244	0.00040 mg/L	0.249		98	90-112			
Phosphorus, total	0.212	0.050 mg/L	0.227		94	72-118			
Potassium, total	7.15	0.10 mg/L	7.21		99	87-116			
Selenium, total	0.130	0.00050 mg/L	0.121		107	90-122			
Sodium, total	7.54	0.10 mg/L	7.54		100	86-118			
Strontium, total	0.342	0.0010 mg/L	0.375		91	86-110			
Thallium, total	0.0840	0.000020 mg/L	0.0805		104	90-113			
Uranium, total	0.0312	0.000020 mg/L	0.0306		102	88-112			
Vanadium, total	0.365	0.0010 mg/L	0.386		94	87-110			
Zinc, total	2.51	0.0040 mg/L	2.49		101	90-113			

Volatile Organic Compounds (VOC), Batch B9B0552

Blank (B9B0552-BLK1)			Prepared: 2019-02-13, Analyzed: 2019-02-11						
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-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	< 1.0	1.0 µg/L							
1,1,1-Trichloroethane	< 1.0	1.0 µg/L							
1,1,2-Trichloroethane	< 1.0	1.0 µg/L							
Trichloroethylene	< 1.0	1.0 µg/L							
Trichlorofluoromethane	< 1.0	1.0 µg/L							
Vinyl chloride	< 1.0	1.0 µg/L							
Xylenes (total)	< 2.0	2.0 µg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds (VOC), Batch B9B0552, Continued									
Blank (B9B0552-BLK1), Continued					Prepared: 2019-02-13, Analyzed: 2019-02-11				
Surrogate: Toluene-d8	20.2	µg/L	26.5		76	70-130			
Surrogate: 4-Bromofluorobenzene	17.1	µg/L	25.0		69	70-130			S02
Surrogate: 1,4-Dichlorobenzene-d4	15.9	µg/L	24.7		65	70-130			S02
LCS (B9B0552-BS1)					Prepared: 2019-02-11, Analyzed: 2019-02-11				
Benzene	20.4	0.5 µg/L	20.1		101	70-130			
Bromodichloromethane	20.7	1.0 µg/L	20.2		102	70-130			
Bromoform	19.5	1.0 µg/L	20.1		97	70-130			
Carbon tetrachloride	17.5	0.5 µg/L	20.1		87	70-130			
Chlorobenzene	21.7	1.0 µg/L	20.2		107	70-130			
Chloroethane	23.6	2.0 µg/L	20.0		118	60-140			
Chloroform	21.4	1.0 µg/L	20.1		107	70-130			
Dibromochloromethane	17.1	1.0 µg/L	20.2		85	70-130			
1,2-Dibromoethane	18.1	0.3 µg/L	20.1		90	70-130			
Dibromomethane	17.7	1.0 µg/L	20.1		88	70-130			
1,2-Dichlorobenzene	21.8	0.5 µg/L	20.1		109	70-130			
1,3-Dichlorobenzene	20.7	1.0 µg/L	20.1		103	70-130			
1,4-Dichlorobenzene	20.4	1.0 µg/L	20.1		102	70-130			
1,1-Dichloroethane	24.1	1.0 µg/L	20.1		120	70-130			
1,2-Dichloroethane	22.3	1.0 µg/L	20.1		111	70-130			
1,1-Dichloroethylene	21.9	1.0 µg/L	20.1		109	70-130			
cis-1,2-Dichloroethylene	19.5	1.0 µg/L	20.1		97	70-130			
trans-1,2-Dichloroethylene	18.6	1.0 µg/L	20.1		92	70-130			
Dichloromethane	21.8	3.0 µg/L	20.1		108	70-130			
1,2-Dichloropropane	21.8	1.0 µg/L	20.2		108	70-130			
1,3-Dichloropropane (cis + trans)	29.8	1.0 µg/L	40.0		74	70-130			
Ethylbenzene	21.2	1.0 µg/L	20.1		106	70-130			
Methyl tert-butyl ether	17.0	1.0 µg/L	20.0		85	70-130			
Styrene	23.0	1.0 µg/L	20.1		115	70-130			
1,1,2,2-Tetrachloroethane	8.1	0.5 µg/L	20.2		40	70-130			SPK
Tetrachloroethylene	22.7	1.0 µg/L	20.1		113	70-130			
Toluene	20.9	1.0 µg/L	20.1		104	70-130			
1,1,1-Trichloroethane	19.6	1.0 µg/L	20.2		97	70-130			
1,1,2-Trichloroethane	20.3	1.0 µg/L	20.1		101	70-130			
Trichloroethylene	23.0	1.0 µg/L	20.1		114	70-130			
Trichlorofluoromethane	21.5	1.0 µg/L	20.0		108	60-140			
Vinyl chloride	21.9	1.0 µg/L	20.0		110	60-140			
Xylenes (total)	65.0	2.0 µg/L	60.1		108	70-130			
Surrogate: Toluene-d8	20.9	µg/L	26.5		79	70-130			
Surrogate: 4-Bromofluorobenzene	22.6	µg/L	25.0		90	70-130			
Surrogate: 1,4-Dichlorobenzene-d4	23.3	µg/L	24.7		94	70-130			

QC Qualifiers:

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.

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

SPK The recovery of this analyte was outside of established control limits.

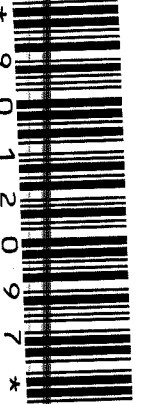
SPK1 The recovery of this analyte was outside of established control limits. The data was accepted based on performance of other batch QC.

1-888-311-8846

CHAIN OF CUSTODY RECORD COC# 08299

CARO AB COC, Rev 2017-05

PAGE 0F



King Way, Richmond, BC V6V 2K6
Highway 97N, Kelowna, BC V1X 5C3
Avenue NW, Edmonton, AB T5S 1H7

REPORT TO:

INVOICE TO:

SAME AS REPORT TO

COMPANY: Newell Regional Service Co.

ADDRESS: 330 Canal St

CONTACT: Brooks AB, TIR 1B16

TEL/CEL: (403) 794-4000

DELIVERY METHOD: ☒ MAIL ☐ OTHER*

DATA FORMAT: ☐ EXCEL ☐ WATERTRAX ☐ ESdat ☐ OTHER*

EMAIL 1: KSteinley@nrc.ca

EMAIL 2: dpavada@nrc.ca

EMAIL 3: rmelrose@nrc.ca

PO #: 3136

SAMPLED BY: Jean Bartsyn

CLIENT SAMPLE ID: 19 - winter analysis WTP

MATRIX:	DATE	TIME	CHLORINATED	FILTERED	PRESERVED	COMMENTS:
DRINKING WATER	DD-MMM-YY	HH:MM				(e.g. flow/volume media ID/notes)
OTHER WATER						
SOIL						
OTHER						
CONTAINERS QTY						

19 - winter analysis WTP

Jan 28/19 09:40 YN

RELINQUISHED BY:

DATE: Jan 28/19 RECEIVED BY: J. D

DATE: 1/10/20

TURNAROUND TIME REQUESTED:

ROUTINE: (5-7 Days) ☒ Rush: 1 Day* ☐ 2 Day* ☐ 3 Day* ☐

TIME: 10:10

REGULATORY APPLICATION:

Canadian Drinking Water Quality ☒ AB T1 SOIL/GW: NA ☐ AG ☐ RES/PL ☐ CL ☐ IL ☐

*Contact Lab To Confirm. Surcharge May Apply

CCME: AB SWQG: FWAL ☐ IW ☐ LW ☐ OTHER:

PROJECT NUMBER / INFO:

A: Biohazard D: Asbestos G: Strong Odour
B: Cyanide E: Heavy Metals H: High Contamination
C: PCBs F: Flammable I: Other (please specify)

WTP winter analysis 2019

ANALYSES REQUESTED:

SOIL PHC F1-F4	BTEX	☐
WATER PHC F1-F2	BTEX	☐
VOC	THM	☐
DISSOLVED METALS	Hg	☐
TOTAL METALS	Hg	☐
SOIL METALS	Satp B	☐
SOIL SALINITY BASIC	DETAILED	☐
CLASS 2 LANDFILL		
ROUTINE WATER	Fe+Mn	☐
COD	BOD	☐
TSS	TDS	☐
AMMONIA	TKN	☐
TO&G	PHENOLICS	☐
TCOL	E.Coli	☐
TOXICITY TROUT	DAPHNIA	☐
PSA HYDROMETER	75 um SIEVE	☐

19 Winter analysis testing
See attachment sent.

HOLD

POSSIBLE SAMPLE HAZARD CODE(S)

SHIPPING INSTRUCTIONS:

Return Cooler(s) ☐

SAMPLE RETENTION:

30 Days (default) ☐

60 Days ☐

90 Days ☐

Other (surcharges will apply):

OTHER INSTRUCTIONS:

19 sample bottles. See file attachment for required testing. THM, WTHM

SAMPLE RECEIPT CONDITION:

COOLER 1 (°C): 8/12 ICE: Y ☐ N ☐

COOLER 2 (°C): 8/12 ICE: Y ☐ N ☐

COOLER 3 (°C): 8/12 ICE: Y ☐ N ☐

CUSTOMER SEAL INTACT: NA ☐ Y ☐ N ☐