



Date: 06-OCT-21

PO No.:

WO No.: L2639579

Project Ref: SCHEDULE 4 TESTING

Sample ID: S4 SCHEDULE 4 S4Q32021

Sampled By:

Date Collected: 15-SEP-21

Lab Sample ID: L2639579-1

Matrix: Water

North Springbank Water Coop Limited
 196 Lariat Loop
 Calgary AB T3Z 1G1
 ATTN: Barry Okabe

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Chloramines						
Chlorine, Total	1.30		mg/L			15-SEP-21
Chlorine, Free	1.10		mg/L			15-SEP-21
Total Chloramines (as Cl ₂)	<0.33		mg/L			15-SEP-21
Chlorate, Chlorite, and Bromate in Water						
Chlorite by IC						
Chlorite	<0.010		mg/L	1.0		20-SEP-21
Chlorate by IC						
Chlorate	0.084		mg/L	1.0		20-SEP-21
Bromate in Water by LC/MS-MS						
Bromate	1.11		ug/L	10		21-SEP-21
Diquat and Paraquat by LC/MS-MS						
Paraquat in Water by LC/MS-MS						
Paraquat	<1.0		ug/L	7		22-SEP-21
Diquat by LC/MS-MS						
Diquat	<1.0		ug/L	70		22-SEP-21
HAA List for Western Canada						
Total Haloacetic Acids 5	0.0069		mg/L	0.080		21-SEP-21
Haloacetic Acids by LC/MS-MS (in mg/L)						
Bromoacetic Acid	<0.0010		mg/L			20-SEP-21
Bromochloroacetic Acid	0.0020		mg/L			20-SEP-21
Chloroacetic acid	<0.0050		mg/L			20-SEP-21
Dibromoacetic Acid	<0.0011	DLM	mg/L			20-SEP-21
Dichloroacetic Acid	0.0032		mg/L			20-SEP-21
Trichloroacetic Acid	0.0027		mg/L			20-SEP-21
Herb Screen GC/MS						
Miscellaneous Pesticides						
Trifluralin	<0.00010		mg/L	0.045		23-SEP-21
Triallate	<0.00010		mg/L			23-SEP-21
Fluazifop-p-butyl	<0.00010		mg/L			23-SEP-21
Diclofop-methyl	<0.00010		mg/L	0.009		23-SEP-21
Ethalfuralin	<0.00010		mg/L			23-SEP-21
Surr: 2-Fluorobiphenyl	65.3		%			23-SEP-21
Surr: D14-Terphenyl	108.1		%			23-SEP-21
Herbicides in Water						
Clopyralid	<0.00010		mg/L			17-SEP-21
Dicamba	<0.00010		mg/L	0.12		17-SEP-21
Mecoprop	<0.00010		mg/L			17-SEP-21
MCPA	<0.00010		mg/L			17-SEP-21
2,4-D	<0.00010		mg/L	0.1		17-SEP-21

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Herb Screen GC/MS						
Herbicides in Water						
Bromoxynil	<0.00010			0.03		17-SEP-21
Triclopyr	<0.00010		mg/L			17-SEP-21
2,4,5-T	<0.00010		mg/L			17-SEP-21
2,4,5-TP	<0.00010		mg/L			17-SEP-21
Picloram	<0.00010		mg/L	0.19		17-SEP-21
2,4-DB	<0.00010		mg/L			17-SEP-21
2,4-DP	<0.00010		mg/L			17-SEP-21
Dinoseb	<0.00010		mg/L			17-SEP-21
MCPB	<0.00010		mg/L			17-SEP-21
Surr: 2,4-Dichlorophenylacetic Acid	134.0	SURR-ND	%			17-SEP-21
Total Metals (ABT1)						
Total Metals in Water by CRC ICPMS						
Aluminum (Al)-Total	0.0040		mg/L	2.9	0.1	24-SEP-21
Antimony (Sb)-Total	<0.00010		mg/L	0.006		24-SEP-21
Arsenic (As)-Total	0.00035		mg/L	0.01		24-SEP-21
Barium (Ba)-Total	0.0177		mg/L	2		24-SEP-21
Boron (B)-Total	0.046		mg/L	5		24-SEP-21
Cadmium (Cd)-Total	0.0000066		mg/L	0.005		24-SEP-21
Calcium (Ca)-Total	21.5		mg/L			24-SEP-21
Chromium (Cr)-Total	<0.00010		mg/L	0.05		24-SEP-21
Copper (Cu)-Total	0.0266		mg/L	2.0	1.0	24-SEP-21
Iron (Fe)-Total	<0.010		mg/L		0.3	24-SEP-21
Lead (Pb)-Total	0.000332		mg/L	0.005		24-SEP-21
Magnesium (Mg)-Total	16.6		mg/L			24-SEP-21
Manganese (Mn)-Total	0.00519		mg/L	0.12	0.02	24-SEP-21
Nickel (Ni)-Total	<0.00050		mg/L			24-SEP-21
Potassium (K)-Total	2.17		mg/L			24-SEP-21
Selenium (Se)-Total	0.000278		mg/L	0.05		24-SEP-21
Silver (Ag)-Total	<0.000010		mg/L			24-SEP-21
Sodium (Na)-Total	181		mg/L		200	24-SEP-21
Uranium (U)-Total	0.00137		mg/L	0.02		24-SEP-21
Zinc (Zn)-Total	0.0071		mg/L		5.0	24-SEP-21
Total Mercury in Water by CVAAS						
Mercury (Hg)-Total	<0.0000050		mg/L	0.001		22-SEP-21
Routine Water Analysis						
*Nitrate and Nitrite (as N)	0.636		mg/L	10		20-SEP-21
pH, Conductivity and Total Alkalinity						
pH	8.24		pH		7-10.5	27-SEP-21
Conductivity (EC)	898		uS/cm			27-SEP-21
Bicarbonate (HCO3)	422		mg/L			27-SEP-21
Carbonate (CO3)	<5.0		mg/L			27-SEP-21



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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Routine Water Analysis						
pH, Conductivity and Total Alkalinity						
Hydroxide (OH)	<5.0		mg/L			27-SEP-21
Alkalinity, Total (as CaCO3)	346		mg/L			27-SEP-21
Sulfate in Water by IC						
Sulfate (SO4)	171		mg/L		500	15-SEP-21
Nitrite in Water by IC						
*Nitrite (as N)	<0.010		mg/L	1		15-SEP-21
Nitrate in Water by IC						
*Nitrate (as N)	0.636		mg/L	10		15-SEP-21
Ion Balance Calculation						
Ion Balance	92.3		%			03-OCT-21
TDS (Calculated)	613		mg/L		500	03-OCT-21
Hardness (as CaCO3)	123		mg/L		500	03-OCT-21
Fluoride in Water by IC						
Fluoride (F)	0.666		mg/L	1.5		15-SEP-21
Dissolved Metals by ICPOES						
Dissolved Metals	LAB					21-SEP-21
Filtration Location						
Calcium (Ca)-Dissolved	21.6		mg/L			21-SEP-21
Magnesium (Mg)-Dissolved	16.8		mg/L			21-SEP-21
Potassium (K)-Dissolved	2.21		mg/L			21-SEP-21
Sodium (Na)-Dissolved	175		mg/L		200	21-SEP-21
Chloride in Water by IC						
Chloride (Cl)	14.9		mg/L		250	15-SEP-21
EPA 8260 Volatile Organics						
VOCs in Water						
1,1,1,2-Tetrachloroethane	<0.0010		mg/L			22-SEP-21
1,1,1-Trichloroethane	<0.00050		mg/L			22-SEP-21
1,1,2,2-Tetrachloroethane	<0.00050		mg/L			22-SEP-21
1,1,2-Trichloroethane	<0.00050		mg/L			22-SEP-21
1,1-Dichloroethane	<0.00050		mg/L			22-SEP-21
1,1-Dichloroethene	<0.00050		mg/L	0.014		22-SEP-21
1,1-Dichloropropene	<0.0010		mg/L			22-SEP-21
1,2,3-Trichlorobenzene	<0.0010		mg/L			22-SEP-21
1,2,3-Trichloropropane	<0.00050		mg/L			22-SEP-21
1,2,4-Trichlorobenzene	<0.0010		mg/L			22-SEP-21
1,2,4-Trimethylbenzene	<0.0010		mg/L			22-SEP-21
1,2-Dibromo-3-chloropropane	<0.0010		mg/L			22-SEP-21
1,2-Dichlorobenzene	<0.00050		mg/L	0.2	0.003	22-SEP-21

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EPA 8260 Volatile Organics						
VOCs in Water						
1,2-Dichloroethane	<0.0010		mg/L	0.005		22-SEP-21
1,2-Dichloropropane	<0.00050		mg/L			22-SEP-21
1,3,5-Trimethylbenzene	<0.0010		mg/L			22-SEP-21
1,3-Dichlorobenzene	<0.00050		mg/L			22-SEP-21
1,3-Dichloropropane	<0.0010		mg/L			22-SEP-21
1,4-Dichlorobenzene	<0.00050		mg/L	0.005	0.001	22-SEP-21
2,2-Dichloropropane	<0.0010		mg/L			22-SEP-21
2-Chlorotoluene	<0.0010		mg/L			22-SEP-21
4-Chlorotoluene	<0.0010		mg/L			22-SEP-21
p-Isopropyltoluene	<0.0010		mg/L			22-SEP-21
Benzene	<0.00050		mg/L	0.005		22-SEP-21
Bromobenzene	<0.0010		mg/L			22-SEP-21
Bromochloromethane	<0.0010		mg/L			22-SEP-21
Bromodichloromethane	0.00640		mg/L			22-SEP-21
Bromoform	0.00056		mg/L			22-SEP-21
Bromomethane	<0.0010		mg/L			22-SEP-21
Carbon tetrachloride	<0.00050		mg/L	0.005		22-SEP-21
Chlorobenzene	<0.00050		mg/L	0.08		22-SEP-21
Chloroethane	<0.0010		mg/L			22-SEP-21
Chloroform	0.0124		mg/L			22-SEP-21
Chloromethane	<0.0010		mg/L			22-SEP-21
cis-1,2-Dichloroethene	<0.0010		mg/L			22-SEP-21
cis-1,3-Dichloropropene	<0.00050		mg/L			22-SEP-21
Dibromochloromethane	0.00446		mg/L			22-SEP-21
Dibromomethane	<0.00050		mg/L			22-SEP-21
Dichlorodifluoromethane	<0.00050		mg/L			22-SEP-21
Ethylbenzene	<0.00050		mg/L	0.14	0.0016	22-SEP-21
Ethylene dibromide	<0.00050		mg/L			22-SEP-21
Hexachlorobutadiene	<0.0010		mg/L			22-SEP-21
Isopropylbenzene	<0.0010		mg/L			22-SEP-21
m+p-Xylenes	<0.00050		mg/L			22-SEP-21
Methylene chloride	<0.0010		mg/L	0.05		22-SEP-21
n-Butylbenzene	<0.0010		mg/L			22-SEP-21
n-Propylbenzene	<0.0010		mg/L			22-SEP-21
o-Xylene	<0.00050		mg/L			22-SEP-21
sec-Butylbenzene	<0.0010		mg/L			22-SEP-21
Styrene	<0.00050		mg/L			22-SEP-21
tert-Butylbenzene	<0.0010		mg/L			22-SEP-21
Tetrachloroethylene	<0.00050		mg/L	0.03		22-SEP-21
Toluene	<0.00050		mg/L	0.06	0.024	22-SEP-21
trans-1,2-Dichloroethene	<0.00050		mg/L			22-SEP-21
trans-1,3-Dichloropropene	<0.0010		mg/L			22-SEP-21
Trichloroethene	<0.00050		mg/L	0.005		22-SEP-21
Trichlorofluoromethane	<0.0010		mg/L			22-SEP-21
Vinyl chloride	<0.00050		mg/L			22-SEP-21

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
EPA 8260 Volatile Organics						
VOCs in Water						
				0.002		
Surr: 1,4-Difluorobenzene	96.9		%			22-SEP-21
Surr: 4-Bromofluorobenzene	71.9		%			22-SEP-21
Cyanide, Total	<0.0020		mg/L	0.2		17-SEP-21
Ammonia, Total (as N)	<0.050		mg/L			02-OCT-21
Colour, True	<5.0		CU		15	15-SEP-21
Diuron	<1.0		ug/L	150		23-SEP-21
Glyphosate	<5.0		ug/L	280		22-SEP-21
Microcystin	<0.20		ug/L	1.5		27-SEP-21
Nitritotriacetic Acid (NTA)	<0.20	PEHT	mg/L	0.4		24-SEP-21
Methoxychlor	<0.10		ug/L			23-SEP-21
Total Organic Carbon	2.0		mg/L			06-OCT-21
Sulphide (as H2S)	<0.0016		mg/L		0.05	06-OCT-21
Sulphide as S	<0.0015		mg/L		0.05	21-SEP-21
Trihalomethanes						
Chloroform	0.0123		mg/L			22-SEP-21
Bromodichloromethane	0.0055		mg/L			22-SEP-21
Dibromochloromethane	0.0042		mg/L			22-SEP-21
Bromoform	<0.0050		mg/L			22-SEP-21
Surr: 1,4-Difluorobenzene	98.3		%			22-SEP-21
Surr: 4-Bromofluorobenzene	80.4		%			22-SEP-21
Surr: 3,4-Dichlorotoluene	125.3		%			22-SEP-21
Total THMs	0.0220		mg/L	0.1		22-SEP-21
Pesticides, Organochlorine						
Aldrin	<0.10		ug/L			23-SEP-21
a-chlordane	<0.10		ug/L			23-SEP-21
g-chlordane	<0.10		ug/L			23-SEP-21
alpha-BHC	<0.10		ug/L			23-SEP-21
beta-BHC	<0.10		ug/L			23-SEP-21
delta-BHC	<0.10		ug/L			23-SEP-21
o,p-DDD	<0.10		ug/L			23-SEP-21
pp-DDD	<0.10		ug/L			23-SEP-21
o,p-DDE	<0.10		ug/L			23-SEP-21
pp-DDE	<0.10		ug/L			23-SEP-21
op-DDT	<0.10		ug/L			23-SEP-21
pp-DDT	<0.10		ug/L			23-SEP-21
Dieldrin	<0.10		ug/L			23-SEP-21
alpha-Endosulfan	<0.10		ug/L			23-SEP-21
beta-Endosulfan	<0.10		ug/L			23-SEP-21

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Pesticides, Organochlorine						
Endosulfan Sulfate	<0.10		ug/L			23-SEP-21
Endrin	<0.10		ug/L			23-SEP-21
Endrin Aldehyde	<0.10		ug/L			23-SEP-21
Hexachlorobenzene	<0.10		ug/L			23-SEP-21
Heptachlor	<0.10		ug/L			23-SEP-21
Heptachlor Epoxide	<0.10		ug/L			23-SEP-21
Lindane	<0.10		ug/L			23-SEP-21
Methoxychlor	<0.10		ug/L			23-SEP-21
Mirex	<0.10		ug/L			23-SEP-21
Oxychlorane	<0.10		ug/L			23-SEP-21
Surr: Decachlorobiphenyl	103.7		%			23-SEP-21
Surr: Tetrachloro-m-xylene	92.7		%			23-SEP-21
O.Reg 170/03 Acids						
2,4-Dichlorophenol	<0.30		ug/L	900	0.3	23-SEP-21
2,4,6-Trichlorophenol	<0.50		ug/L	5	2	23-SEP-21
2,3,4,6-Tetrachlorophenol	<0.50		ug/L	100	1	23-SEP-21
Pentachlorophenol	<0.50		ug/L	60	30	23-SEP-21
Surr: 2,4,6-Tribromophenol	138.1		%			23-SEP-21
Nitrosamines in water						
N-Nitrosodimethylamine	<0.00090		ug/L	0.04		24-SEP-21
Surr: N-Nitrosodimethylamine-d6	90.5		%			24-SEP-21
Miscellaneous Pesticides						
Alachlor	<0.10		ug/L			23-SEP-21
Ametryn	<0.10		ug/L			23-SEP-21
Atrazine	<0.10		ug/L			23-SEP-21
Atrazine-desethyl	<0.10		ug/L			23-SEP-21
Azinphos-methyl	<0.10		ug/L	20		23-SEP-21
Bendiocarb	<0.50		ug/L			23-SEP-21
Carbaryl	<0.50		ug/L	90		23-SEP-21
Carbofuran	<0.50		ug/L	90		23-SEP-21
Chlorpyrifos	<0.10		ug/L	90		23-SEP-21
Cyanazine	<0.10		ug/L			23-SEP-21
Diazinon	<0.10		ug/L	20		23-SEP-21
Diclofop-methyl	<0.10		ug/L	9		23-SEP-21
Dimethoate	<0.10		ug/L	20		23-SEP-21
Malathion	<0.10		ug/L	290		23-SEP-21
Metolachlor	<0.10		ug/L	50		23-SEP-21
Metribuzin	<1.0		ug/L	80		23-SEP-21
Parathion	<0.10		ug/L	50		23-SEP-21
Parathion-methyl	<0.10		ug/L			23-SEP-21
Phorate	<0.10		ug/L	2		23-SEP-21
Prometon	<0.10		ug/L			23-SEP-21

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Miscellaneous Pesticides						
Prometryne	<0.10		ug/L			23-SEP-21
Propazine	<0.10		ug/L			23-SEP-21
Simazine	<0.10		ug/L	10		23-SEP-21
Temephos	<1.0		ug/L			23-SEP-21
Terbufos	<0.10		ug/L	1		23-SEP-21
Terbutryn	<0.10		ug/L			23-SEP-21
Triallate	<0.10		ug/L			23-SEP-21
Trifluralin	<0.10		ug/L	45		23-SEP-21
Atrazine+N-Dealkylated Metabolites	<0.20		ug/L	5		23-SEP-21
Surr: 2-Fluorobiphenyl	65.3		%			23-SEP-21
Surr: d14-Terphenyl	108.1		%			23-SEP-21
Benzo(a)pyrene						
Benzo(a)pyrene	<0.0050		ug/L	0.04		24-SEP-21
Surr: Chrysene d12	79.1		%			24-SEP-21
CDWQG = Health Canada Guideline Limits updated JUNE 2019						
<p>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.</p>						
<p>Approved by  Patryk Wojciak, B.Sc., P.Chem. Account Manager</p>						

Guidelines & Objectives

Sample Parameter Qualifier key listed:

Qualifier	Description
SURR-ND	Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be

unaffected.

PEHT	Parameter Exceeded Recommended Holding Time Prior to Analysis
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).

Health Canada MAC Health Related Criteria Limits

Nitrate/Nitrite-N*	Criteria limit is 10 mg/L (1.0 mg/L if present as all Nitrite-N). High concentrations may contribute to blue baby syndrome in infants.
Lead*	A cumulative body poison, uncommon in naturally occurring hard waters.
Fluoride*	Present in fluoridated water supplies at 0.8 mg/L to reduce dental caries. Elevated levels causes fluorosis (mottling of teeth).
Total Coliforms*	Criteria is 0 CFU/100mL. Adverse health effects.
E. Coli*	Criteria is 0 CFU/100 mL. Certain E. Coli bacteria can be life threatening.
Manganese*	Criteria limit is 0.12 mg/L. Possible neurological effects in infants.

*Health Canada Canadian Drinking Water Quality Guidelines (MAC limit)

Aesthetic Objective Concentration Levels

Alkalinity	Acid neutralizing capacity. Usually a measure of carbonate and bicarbonates and calculated and reported as calcium carbonate.
Balance	Quality control parameter ratioing cations to anions
Bicarbonate	See Alkalinity. Report as the anion HCO ₃ -1
Carbonate	See Alkalinity. Reported at the anion CO ₃ -2
Calcium	See Hardness. Common major cation of water chemistry.
Chloride	Common major anion of water chemistry.
Conductance	Physical test measuring water salinity (dissolved ions or solids)
Hardness	Classical measure or capacity of water to precipitate soap (chiefly calcium and magnesium ions). Causes scaling tendency in water if carbonates/bicarbonates are present (if >200 mg/L). For drinking water purposes waters with results <200 mg/L are considered acceptable, results >200 mg/L are considered poor but can be tolerated. Results >500 mg/L are unacceptable.
Hydroxide	See alkalinity
Magnesium	See hardness. Common major cation of water chemistry. Elevated levels (>125 mg/L) may exert a cathartic or diuretic action.
pH	Measure of water acidity/alkalinity. Normal range is 7.0-8.5.
Potassium	Common major cation of water chemistry.
Sodium	Common major cation of water chemistry. Measure of salinity (saltiness).The aesthetic objective (not related to health) for sodium in drinking water is 200 mg/L. However, where sodium concentration of the drinking water exceeds 20 mg/L, it is recommended that any person on a sodium restricted diet consult with his/her physician or Medical Officer of Health concerning the use of that water.
Sulphate	Common major anion of water chemistry. Elevated levels may exert a cathartic or diuretic action.
Total Dissolved Solids	A measure of water salinity.
Iron	Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air.
Heterotrophic Plate Count	Criteria is 500 cfu/mL Measure of heterotrophic bacteria present.

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2639579

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Client: North Springbank Water Coop Limited
 196 Lariat Loop
 Calgary AB T3Z 1G1

Contact: Barry Okabe

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDS-ONT-DW-WT								
	Water							
Batch	R5592498							
WG3620584-2	LCS							
2,4-Dichlorophenol			92.7		%		50-140	22-SEP-21
2,4,6-Trichlorophenol			100.0		%		50-140	22-SEP-21
2,3,4,6-Tetrachlorophenol			110.3		%		50-140	22-SEP-21
Pentachlorophenol			150.4	LCS-H	%		60-130	22-SEP-21
WG3620584-1	MB							
2,4-Dichlorophenol			<0.30		ug/L		0.3	22-SEP-21
2,4,6-Trichlorophenol			<0.50		ug/L		0.5	22-SEP-21
2,3,4,6-Tetrachlorophenol			<0.50		ug/L		0.5	22-SEP-21
Pentachlorophenol			<0.50		ug/L		0.5	22-SEP-21
Surrogate: 2,4,6-Tribromophenol			69.0		%		40-150	22-SEP-21
BAP-WT								
	Water							
Batch	R5597459							
WG3623323-2	LCS							
Benzo(a)pyrene			80.8		%		60-130	24-SEP-21
WG3623323-1	MB							
Benzo(a)pyrene			<0.0050		ug/L		0.005	24-SEP-21
Surrogate: Chrysene d12			90.0		%		50-150	24-SEP-21
BROMATE-ONT-DW-WT								
	Water							
Batch	R5591984							
WG3621392-3	DUP	L2639579-1						
Bromate		1.11	0.81	J	ug/L	0.30	0.6	21-SEP-21
WG3621392-2	LCS							
Bromate			111.8		%		70-130	21-SEP-21
WG3621392-1	MB							
Bromate			<0.30		ug/L		0.3	21-SEP-21
WG3621392-4	MS	L2639579-1						
Bromate			93.2		%		70-130	21-SEP-21
CHLORATE-IC-WT								
	Water							
Batch	R5589731							
WG3620785-2	LCS							
Chlorate			95.8		%		85-115	20-SEP-21
WG3620785-1	MB							
Chlorate			<0.010		mg/L		0.01	20-SEP-21
CHLORITE-IC-WT								
	Water							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CHLORITE-IC-WT								
Water								
Batch	R5589731							
WG3620785-2	LCS							
Chlorite			99.3		%		85-115	20-SEP-21
WG3620785-1	MB							
Chlorite			<0.010		mg/L		0.01	20-SEP-21
CL-IC-N-CL								
Water								
Batch	R5587541							
WG3620798-6	LCS							
Chloride (Cl)			103.9		%		90-110	15-SEP-21
WG3620798-5	MB							
Chloride (Cl)			<0.50		mg/L		0.5	15-SEP-21
CL2-FREE-CL								
Water								
Batch	R5584737							
WG3617914-3	DUP	L2639579-1						
Chlorine, Free		1.10	1.10		mg/L	0.0	15	15-SEP-21
WG3617914-2	LCS							
Chlorine, Free			90.0		%		75-125	15-SEP-21
WG3617914-1	MB							
Chlorine, Free			<0.10		mg/L		0.1	15-SEP-21
CL2-TOT-CL								
Water								
Batch	R5584737							
WG3617914-3	DUP	L2639579-1						
Chlorine, Total		1.30	1.30		mg/L	0.0	15	15-SEP-21
WG3617914-2	LCS							
Chlorine, Total			90.0		%		75-125	15-SEP-21
WG3617914-1	MB							
Chlorine, Total			<0.10		mg/L		0.1	15-SEP-21
CN-TOT-WT								
Water								
Batch	R5587382							
WG3619703-7	LCS							
Cyanide, Total			91.4		%		80-120	17-SEP-21
WG3619703-6	MB							
Cyanide, Total			<0.0020		mg/L		0.002	17-SEP-21
COLOUR-TRUE-CL								
Water								
Batch	R5584832							
WG3618033-2	LCS							
Colour, True			106.0		%		85-115	15-SEP-21
WG3618033-1	MB							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COLOUR-TRUE-CL								
	Water							
Batch	R5584832							
WG3618033-1	MB							
Colour, True			<5.0		CU		5	15-SEP-21
DIQUAT-WT								
	Water							
Batch	R5597551							
WG3622337-2	LCS							
Diquat			105.0		%		70-130	24-SEP-21
WG3622337-1	MB							
Diquat			<1.0		ug/L		1	24-SEP-21
DIURON-WT								
	Water							
Batch	R5595338							
WG3622047-2	LCS							
Diuron			104.7		%		70-130	23-SEP-21
WG3622047-1	MB							
Diuron			<1.0		ug/L		1	23-SEP-21
F-IC-N-CL								
	Water							
Batch	R5587541							
WG3620798-6	LCS							
Fluoride (F)			103.3		%		90-110	15-SEP-21
WG3620798-5	MB							
Fluoride (F)			<0.020		mg/L		0.02	15-SEP-21
GLYPHOSATE-WT								
	Water							
Batch	R5594297							
WG3619268-2	LCS							
Glyphosate			87.1		%		70-130	22-SEP-21
WG3619268-1	MB							
Glyphosate			<5.0		ug/L		5	22-SEP-21
HAA-AB-WT								
	Water							
Batch	R5589296							
WG3620579-2	LCS							
Bromoacetic Acid			83.1		%		50-150	20-SEP-21
Bromochloroacetic Acid			104.1		%		50-150	20-SEP-21
Chloroacetic acid			83.4		%		50-150	20-SEP-21
Dibromoacetic Acid			93.7		%		50-150	20-SEP-21
Dichloroacetic Acid			103.9		%		50-150	20-SEP-21
Trichloroacetic Acid			89.7		%		50-150	20-SEP-21
WG3620579-1	MB							



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HAA-AB-WT		Water						
Batch	R5589296							
WG3620579-1	MB							
Bromoacetic Acid			<0.0010		mg/L		0.001	20-SEP-21
Bromochloroacetic Acid			<0.0010		mg/L		0.001	20-SEP-21
Chloroacetic acid			<0.0050		mg/L		0.005	20-SEP-21
Dibromoacetic Acid			<0.0010		mg/L		0.001	20-SEP-21
Dichloroacetic Acid			<0.0010		mg/L		0.001	20-SEP-21
Trichloroacetic Acid			<0.0010		mg/L		0.001	20-SEP-21
HERBSCR-LCMS-WT		Water						
Batch	R5591798							
WG3619736-3	DUP	L2639579-1						
Clopyralid		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
Dicamba		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
Mecoprop		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
MCPA		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
2,4-D		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
Bromoxynil		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
Triclopyr		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
2,4,5-T		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
2,4,5-TP		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
Picloram		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
2,4-DB		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
2,4-DP		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
Dinoseb		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
MCPB		<0.00010	<0.00010	RPD-NA	mg/L	N/A	30	17-SEP-21
WG3619736-2	LCS							
Clopyralid			102.2		%		50-150	17-SEP-21
Dicamba			102.3		%		65-130	17-SEP-21
Mecoprop			117.8		%		65-130	17-SEP-21
MCPA			114.7		%		65-130	17-SEP-21
2,4-D			129.8		%		65-130	17-SEP-21
Bromoxynil			107.1		%		65-130	17-SEP-21
Triclopyr			93.1		%		65-130	17-SEP-21
2,4,5-T			87.5		%		65-130	17-SEP-21
2,4,5-TP			94.1		%		65-130	17-SEP-21
Picloram			97.1		%		50-150	17-SEP-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HERBSCR-LCMS-WT		Water						
Batch	R5591798							
WG3619736-2	LCS							
2,4-DB			105.2		%		65-130	17-SEP-21
2,4-DP			118.6		%		65-130	17-SEP-21
Dinoseb			101.2		%		50-150	17-SEP-21
MCPB			123.6		%		65-130	17-SEP-21
WG3619736-1	MB							
Clopyralid			<0.00010		mg/L		0.0001	17-SEP-21
Dicamba			<0.00010		mg/L		0.0001	17-SEP-21
Mecoprop			<0.00010		mg/L		0.0001	17-SEP-21
MCPA			<0.00010		mg/L		0.0001	17-SEP-21
2,4-D			<0.00010		mg/L		0.0001	17-SEP-21
Bromoxynil			<0.00010		mg/L		0.0001	17-SEP-21
Triclopyr			<0.00010		mg/L		0.0001	17-SEP-21
2,4,5-T			<0.00010		mg/L		0.0001	17-SEP-21
2,4,5-TP			<0.00010		mg/L		0.0001	17-SEP-21
Picloram			<0.00010		mg/L		0.0001	17-SEP-21
2,4-DB			<0.00010		mg/L		0.0001	17-SEP-21
2,4-DP			<0.00010		mg/L		0.0001	17-SEP-21
Dinoseb			<0.00010		mg/L		0.0001	17-SEP-21
MCPB			<0.00010		mg/L		0.0001	17-SEP-21
Surrogate: 2,4-Dichlorophenylacetic Acid			117.1		%		50-130	17-SEP-21
WG3619736-4	MS	L2639579-1						
Clopyralid			110.1		%		50-150	17-SEP-21
Dicamba			113.8		%		50-130	17-SEP-21
Mecoprop			111.0		%		50-130	17-SEP-21
MCPA			111.3		%		50-130	17-SEP-21
2,4-D			120.9		%		50-130	17-SEP-21
Bromoxynil			64.3		%		50-130	17-SEP-21
Triclopyr			79.0		%		50-130	17-SEP-21
2,4,5-T			92.8		%		50-130	17-SEP-21
2,4,5-TP			92.4		%		50-130	17-SEP-21
Picloram			90.5		%		50-150	17-SEP-21
2,4-DB			91.5		%		50-130	17-SEP-21
2,4-DP			106.5		%		50-130	17-SEP-21
Dinoseb			83.9		%		50-150	17-SEP-21
MCPB			96.0		%		50-130	17-SEP-21



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAA-CL		Water						
Batch	R5591157							
WG3622010-2	LCS							
Mercury (Hg)-Total			95.8		%		80-120	22-SEP-21
WG3622010-1	MB							
Mercury (Hg)-Total			<0.000005C		mg/L		0.000005	22-SEP-21
MET-DIS-ICP-CL		Water						
Batch	R5590900							
WG3621732-2	LCS							
Calcium (Ca)-Dissolved			106.8		%		80-120	21-SEP-21
Magnesium (Mg)-Dissolved			100.8		%		80-120	21-SEP-21
Potassium (K)-Dissolved			100.4		%		80-120	21-SEP-21
Sodium (Na)-Dissolved			97.6		%		80-120	21-SEP-21
WG3621732-1	MB							
Calcium (Ca)-Dissolved			<0.10		mg/L		0.1	21-SEP-21
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	21-SEP-21
Potassium (K)-Dissolved			<0.50		mg/L		0.5	21-SEP-21
Sodium (Na)-Dissolved			<1.0		mg/L		1	21-SEP-21
MET-T-CCMS-CL		Water						
Batch	R5593544							
WG3622761-2	LCS							
Aluminum (Al)-Total			104.2		%		80-120	22-SEP-21
Antimony (Sb)-Total			111.3		%		80-120	22-SEP-21
Arsenic (As)-Total			104.4		%		80-120	22-SEP-21
Barium (Ba)-Total			108.8		%		80-120	22-SEP-21
Boron (B)-Total			90.5		%		80-120	22-SEP-21
Cadmium (Cd)-Total			105.9		%		80-120	22-SEP-21
Calcium (Ca)-Total			97.6		%		80-120	22-SEP-21
Chromium (Cr)-Total			106.4		%		80-120	22-SEP-21
Copper (Cu)-Total			105.6		%		80-120	22-SEP-21
Iron (Fe)-Total			111.3		%		80-120	22-SEP-21
Lead (Pb)-Total			102.5		%		80-120	22-SEP-21
Magnesium (Mg)-Total			114.3		%		80-120	22-SEP-21
Manganese (Mn)-Total			105.7		%		80-120	22-SEP-21
Nickel (Ni)-Total			105.2		%		80-120	22-SEP-21
Potassium (K)-Total			98.0		%		80-120	22-SEP-21
Selenium (Se)-Total			106.6		%		80-120	22-SEP-21
Silver (Ag)-Total			95.6		%		80-120	22-SEP-21



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-CL		Water						
Batch	R5593544							
WG3622761-2	LCS							
Sodium (Na)-Total			113.7		%		80-120	22-SEP-21
Uranium (U)-Total			85.3		%		80-120	22-SEP-21
Zinc (Zn)-Total			98.8		%		80-120	22-SEP-21
WG3622761-1	MB							
Aluminum (Al)-Total			<0.0030		mg/L		0.003	22-SEP-21
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	22-SEP-21
Arsenic (As)-Total			<0.00010		mg/L		0.0001	22-SEP-21
Barium (Ba)-Total			<0.00010		mg/L		0.0001	22-SEP-21
Boron (B)-Total			<0.010		mg/L		0.01	22-SEP-21
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	22-SEP-21
Calcium (Ca)-Total			<0.050		mg/L		0.05	22-SEP-21
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	22-SEP-21
Copper (Cu)-Total			<0.00050		mg/L		0.0005	22-SEP-21
Iron (Fe)-Total			<0.010		mg/L		0.01	22-SEP-21
Lead (Pb)-Total			<0.000050		mg/L		0.00005	22-SEP-21
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	22-SEP-21
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	22-SEP-21
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	22-SEP-21
Potassium (K)-Total			<0.050		mg/L		0.05	22-SEP-21
Selenium (Se)-Total			<0.000050		mg/L		0.00005	22-SEP-21
Silver (Ag)-Total			<0.000010		mg/L		0.00001	22-SEP-21
Sodium (Na)-Total			<0.050		mg/L		0.05	22-SEP-21
Uranium (U)-Total			<0.000010		mg/L		0.00001	22-SEP-21
Zinc (Zn)-Total			<0.0030		mg/L		0.003	22-SEP-21
MICROCYSTIN-WP		Water						
Batch	R5600624							
WG3625427-2	LCS							
Microcystin			101.9		%		70-130	27-SEP-21
WG3625427-1	MB							
Microcystin			<0.20		ug/L		0.2	27-SEP-21
MISCSCR-WT		Water						
Batch	R5593385							
WG3621362-2	LCS							
Trifluralin			97.7		%		60-130	22-SEP-21
Triallate			104.4		%		60-130	22-SEP-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MISCSCR-WT		Water						
Batch	R5593385							
WG3621362-2	LCS							
Fluazifop-p-butyl			115.7		%		50-150	22-SEP-21
Diclofop-methyl			115.1		%		60-140	22-SEP-21
Ethalfuralin			97.8		%		50-150	22-SEP-21
WG3621362-1	MB							
Trifluralin			<0.00010		mg/L		0.0001	22-SEP-21
Triallate			<0.00010		mg/L		0.0001	22-SEP-21
Fluazifop-p-butyl			<0.00010		mg/L		0.0001	22-SEP-21
Diclofop-methyl			<0.00010		mg/L		0.0001	22-SEP-21
Ethalfuralin			<0.00010		mg/L		0.0001	22-SEP-21
Surrogate: 2-Fluorobiphenyl			97.4		%		40-130	22-SEP-21
Surrogate: D14-Terphenyl			110.5		%		40-130	22-SEP-21
NH3-F-CL		Water						
Batch	R5606938							
WG3630212-2	LCS							
Ammonia, Total (as N)			94.7		%		85-115	02-OCT-21
WG3630212-1	MB							
Ammonia, Total (as N)			<0.050		mg/L		0.05	02-OCT-21
NITROSAM-SPE-LCMS-WT		Water						
Batch	R5598937							
WG3623289-2	LCS							
N-Nitrosodimethylamine			88.8		%		50-150	24-SEP-21
WG3623289-1	MB							
N-Nitrosodimethylamine			<0.00090		ug/L		0.0009	24-SEP-21
Surrogate: N-Nitrosodimethylamine-d6			60.8		%		50-150	24-SEP-21
NO2-IC-N-CL		Water						
Batch	R5587541							
WG3620798-6	LCS							
Nitrite (as N)			103.1		%		90-110	15-SEP-21
WG3620798-5	MB							
Nitrite (as N)			<0.010		mg/L		0.01	15-SEP-21
NO3-IC-N-CL		Water						
Batch	R5587541							
WG3620798-6	LCS							
Nitrate (as N)			103.6		%		90-110	15-SEP-21
WG3620798-5	MB							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-N-CL	Water							
Batch	R5587541							
WG3620798-5 MB								
Nitrate (as N)			<0.020		mg/L		0.02	15-SEP-21
NTA-WT	Water							
Batch	R5598419							
WG3624556-2 LCS								
Nitrotriacetic Acid (NTA)			100.4		%		75-125	24-SEP-21
WG3624556-1 MB								
Nitrotriacetic Acid (NTA)			<0.20		mg/L		0.2	24-SEP-21
OCP-ROUTINE-WT	Water							
Batch	R5595358							
WG3622339-2 LCS								
Methoxychlor			131.3		%		50-150	23-SEP-21
WG3622339-1 MB								
Methoxychlor			<0.0080		ug/L		0.008	23-SEP-21
PARAQUAT-WT	Water							
Batch	R5597551							
WG3622337-2 LCS								
Paraquat			84.4		%		70-130	24-SEP-21
WG3622337-1 MB								
Paraquat			<1.0		ug/L		1	24-SEP-21
PEST-MISC-WT	Water							
Batch	R5593385							
WG3621362-2 LCS								
Alachlor			125.2		%		60-130	22-SEP-21
Ametryn			122.3		%		60-130	22-SEP-21
Atrazine			130.2	LCS-H	%		60-130	22-SEP-21
Atrazine-desethyl			86.8		%		50-130	22-SEP-21
Azinphos-methyl			145.8	LCS-H	%		60-140	22-SEP-21
Bendiocarb			151.2	LCS-H	%		50-140	22-SEP-21
Carbaryl			181.8	LCS-H	%		50-140	22-SEP-21
Carbofuran			144.3	LCS-H	%		60-140	22-SEP-21
Chlorpyrifos			115.5		%		60-130	22-SEP-21
Cyanazine			129.1		%		50-140	22-SEP-21
Diazinon			104.3		%		60-130	22-SEP-21
Diclofop-methyl			115.1		%		60-140	22-SEP-21



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-MISC-WT		Water						
Batch	R5593385							
WG3621362-2	LCS							
Dimethoate			126.0		%		60-130	22-SEP-21
Malathion			120.8		%		60-130	22-SEP-21
Metolachlor			126.6		%		60-130	22-SEP-21
Metribuzin			127.0		%		60-130	22-SEP-21
Parathion			110.8		%		60-140	22-SEP-21
Parathion-methyl			113.3		%		60-130	22-SEP-21
Phorate			112.2		%		30-140	22-SEP-21
Prometon			121.1		%		60-130	22-SEP-21
Prometryne			117.1		%		60-130	22-SEP-21
Propazine			114.1		%		60-130	22-SEP-21
Simazine			128.5		%		60-130	22-SEP-21
Temephos			147.5	LCS-H	%		50-140	22-SEP-21
Terbufos			105.0		%		60-130	22-SEP-21
Terbutryn			115.1		%		60-130	22-SEP-21
Triallate			104.4		%		60-130	22-SEP-21
Trifluralin			97.7		%		60-130	22-SEP-21
WG3621362-1	MB							
Alachlor			<0.10		ug/L		0.1	22-SEP-21
Ametryn			<0.10		ug/L		0.1	22-SEP-21
Atrazine			<0.10		ug/L		0.1	22-SEP-21
Atrazine-desethyl			<0.10		ug/L		0.1	22-SEP-21
Azinphos-methyl			<0.10		ug/L		0.1	22-SEP-21
Bendiocarb			<0.50		ug/L		0.5	22-SEP-21
Carbaryl			<0.50		ug/L		0.5	22-SEP-21
Carbofuran			<0.50		ug/L		0.5	22-SEP-21
Chlorpyrifos			<0.10		ug/L		0.1	22-SEP-21
Cyanazine			<0.10		ug/L		0.1	22-SEP-21
Diazinon			<0.10		ug/L		0.1	22-SEP-21
Diclofop-methyl			<0.10		ug/L		0.1	22-SEP-21
Dimethoate			<0.10		ug/L		0.1	22-SEP-21
Malathion			<0.10		ug/L		0.1	22-SEP-21
Metolachlor			<0.10		ug/L		0.1	22-SEP-21
Metribuzin			<1.0		ug/L		1	22-SEP-21
Parathion			<0.10		ug/L		0.1	22-SEP-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-MISC-WT		Water						
Batch	R5593385							
WG3621362-1	MB							
Parathion-methyl			<0.10		ug/L		0.1	22-SEP-21
Phorate			<0.10		ug/L		0.1	22-SEP-21
Prometon			<0.10		ug/L		0.1	22-SEP-21
Prometryne			<0.10		ug/L		0.1	22-SEP-21
Propazine			<0.10		ug/L		0.1	22-SEP-21
Simazine			<0.10		ug/L		0.1	22-SEP-21
Temephos			<1.0		ug/L		1	22-SEP-21
Terbufos			<0.10		ug/L		0.1	22-SEP-21
Terbutryn			<0.10		ug/L		0.1	22-SEP-21
Triallate			<0.10		ug/L		0.1	22-SEP-21
Trifluralin			<0.10		ug/L		0.1	22-SEP-21
Surrogate: 2-Fluorobiphenyl			97.4		%		40-130	22-SEP-21
Surrogate: d14-Terphenyl			110.5		%		40-130	22-SEP-21
PEST-OC-WT		Water						
Batch	R5595358							
WG3622339-2	LCS							
Aldrin			98.6		%		50-150	23-SEP-21
a-chlordane			95.9		%		50-150	23-SEP-21
g-chlordane			98.7		%		50-150	23-SEP-21
alpha-BHC			101.8		%		50-150	23-SEP-21
beta-BHC			85.4		%		50-150	23-SEP-21
delta-BHC			100.7		%		50-150	23-SEP-21
o,p-DDD			92.2		%		50-150	23-SEP-21
pp-DDD			97.5		%		50-150	23-SEP-21
o,p-DDE			81.7		%		50-150	23-SEP-21
pp-DDE			90.5		%		50-150	23-SEP-21
op-DDT			115.5		%		50-150	23-SEP-21
pp-DDT			117.3		%		50-150	23-SEP-21
Dieldrin			95.0		%		50-150	23-SEP-21
alpha-Endosulfan			84.8		%		50-150	23-SEP-21
beta-Endosulfan			91.0		%		50-150	23-SEP-21
Endosulfan Sulfate			114.8		%		50-150	23-SEP-21
Endrin			95.5		%		50-150	23-SEP-21
Endrin Aldehyde			105.6		%		50-150	23-SEP-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-WT		Water						
Batch	R5595358							
WG3622339-2	LCS							
Hexachlorobenzene			94.9		%		40-130	23-SEP-21
Heptachlor			107.0		%		50-150	23-SEP-21
Heptachlor Epoxide			99.1		%		50-150	23-SEP-21
Lindane			100.6		%		50-150	23-SEP-21
Methoxychlor			131.3		%		50-150	23-SEP-21
Mirex			108.6		%		50-150	23-SEP-21
Oxychlorane			84.0		%		50-150	23-SEP-21
WG3622339-1	MB							
Aldrin			<0.10		ug/L		0.1	23-SEP-21
a-chlordane			<0.10		ug/L		0.1	23-SEP-21
g-chlordane			<0.10		ug/L		0.1	23-SEP-21
alpha-BHC			<0.10		ug/L		0.1	23-SEP-21
beta-BHC			<0.10		ug/L		0.1	23-SEP-21
delta-BHC			<0.10		ug/L		0.1	23-SEP-21
o,p-DDD			<0.10		ug/L		0.1	23-SEP-21
pp-DDD			<0.10		ug/L		0.1	23-SEP-21
o,p-DDE			<0.10		ug/L		0.1	23-SEP-21
pp-DDE			<0.10		ug/L		0.1	23-SEP-21
op-DDT			<0.10		ug/L		0.1	23-SEP-21
pp-DDT			<0.10		ug/L		0.1	23-SEP-21
Dieldrin			<0.10		ug/L		0.1	23-SEP-21
alpha-Endosulfan			<0.10		ug/L		0.1	23-SEP-21
beta-Endosulfan			<0.10		ug/L		0.1	23-SEP-21
Endosulfan Sulfate			<0.10		ug/L		0.1	23-SEP-21
Endrin			<0.10		ug/L		0.1	23-SEP-21
Endrin Aldehyde			<0.10		ug/L		0.1	23-SEP-21
Hexachlorobenzene			<0.10		ug/L		0.1	23-SEP-21
Heptachlor			<0.10		ug/L		0.1	23-SEP-21
Heptachlor Epoxide			<0.10		ug/L		0.1	23-SEP-21
Lindane			<0.10		ug/L		0.1	23-SEP-21
Methoxychlor			<0.10		ug/L		0.1	23-SEP-21
Mirex			<0.10		ug/L		0.1	23-SEP-21
Oxychlorane			<0.10		ug/L		0.1	23-SEP-21
Surrogate: Decachlorobiphenyl			96.9		%		50-150	23-SEP-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-WT		Water						
Batch	R5595358							
WG3622339-1	MB							
Surrogate: Tetrachloro-m-xylene			75.9		%		50-150	23-SEP-21
PH/EC/ALK-CL		Water						
Batch	R5603999							
WG3626979-6	LCS							
Conductivity (EC)			96.1		%		90-110	27-SEP-21
Alkalinity, Total (as CaCO ₃)			99.6		%		85-115	27-SEP-21
WG3626979-2	MB							
Conductivity (EC)			<2.0		uS/cm		2	27-SEP-21
Bicarbonate (HCO ₃)			<5.0		mg/L		5	27-SEP-21
Carbonate (CO ₃)			<5.0		mg/L		5	27-SEP-21
Hydroxide (OH)			<5.0		mg/L		5	27-SEP-21
Alkalinity, Total (as CaCO ₃)			<2.0		mg/L		2	27-SEP-21
S2-L-T-COL-VA		Water						
Batch	R5591622							
WG3622067-10	LCS							
Sulphide as S			106.8		%		75-125	21-SEP-21
WG3622067-14	LCS							
Sulphide as S			105.0		%		75-125	21-SEP-21
WG3622067-2	LCS							
Sulphide as S			93.5		%		75-125	21-SEP-21
WG3622067-6	LCS							
Sulphide as S			96.1		%		75-125	21-SEP-21
WG3622067-1	MB							
Sulphide as S			<0.0015		mg/L		0.0015	21-SEP-21
WG3622067-13	MB							
Sulphide as S			<0.0015		mg/L		0.0015	21-SEP-21
WG3622067-5	MB							
Sulphide as S			<0.0015		mg/L		0.0015	21-SEP-21
WG3622067-9	MB							
Sulphide as S			<0.0015		mg/L		0.0015	21-SEP-21
SO4-IC-N-CL		Water						
Batch	R5587541							
WG3620798-6	LCS							
Sulfate (SO ₄)			102.8		%		90-110	15-SEP-21
WG3620798-5	MB							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-IC-N-CL								
Water								
Batch R5587541								
WG3620798-5 MB								
Sulfate (SO4)								
			<0.30		mg/L		0.3	15-SEP-21
THM-PT-MS-CL								
Water								
Batch R5593396								
WG3622607-3 DUP								
L2639579-1								
Chloroform								
		0.0123	0.0144		mg/L	15	30	22-SEP-21
Bromodichloromethane								
		0.0055	0.0067		mg/L	18	30	22-SEP-21
Dibromochloromethane								
		0.0042	0.0048		mg/L	14	30	22-SEP-21
Bromoform								
		<0.0050	<0.0050	RPD-NA	mg/L	N/A	30	22-SEP-21
WG3622607-2 LCS								
Chloroform								
			104.1		%		70-130	22-SEP-21
Bromodichloromethane								
			93.0		%		70-130	22-SEP-21
Dibromochloromethane								
			77.8		%		70-130	22-SEP-21
Bromoform								
			75.6		%		70-130	22-SEP-21
WG3622607-1 MB								
Chloroform								
			<0.0010		mg/L		0.001	22-SEP-21
Bromodichloromethane								
			<0.0010		mg/L		0.001	22-SEP-21
Dibromochloromethane								
			<0.0010		mg/L		0.001	22-SEP-21
Bromoform								
			<0.0050		mg/L		0.005	22-SEP-21
WG3622607-4 MS								
L2639579-1								
Chloroform								
			103.0		%		50-140	22-SEP-21
Bromodichloromethane								
			90.2		%		50-140	22-SEP-21
Dibromochloromethane								
			76.9		%		50-140	22-SEP-21
Bromoform								
			80.0		%		50-140	22-SEP-21
VOC-HS-MS-CL								
Water								
Batch R5592782								
WG3622596-2 LCS								
1,1,1,2-Tetrachloroethane								
			90.5		%		70-130	22-SEP-21
1,1,1-Trichloroethane								
			104.2		%		70-130	22-SEP-21
1,1,2,2-Tetrachloroethane								
			74.5		%		70-130	22-SEP-21
1,1,2-Trichloroethane								
			90.2		%		70-130	22-SEP-21
1,1-Dichloroethane								
			108.0		%		70-130	22-SEP-21
1,1-Dichloroethene								
			104.5		%		70-130	22-SEP-21
1,1-Dichloropropene								
			90.5		%		70-130	22-SEP-21
1,2,3-Trichlorobenzene								
			81.2		%		70-130	22-SEP-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-HS-MS-CL		Water						
Batch	R5592782							
WG3622596-2	LCS							
1,2,3-Trichloropropane			70.8		%		70-130	22-SEP-21
1,2,4-Trichlorobenzene			89.4		%		70-130	22-SEP-21
1,2,4-Trimethylbenzene			91.7		%		70-130	22-SEP-21
1,2-Dibromo-3-chloropropane			88.2		%		70-130	22-SEP-21
1,2-Dichlorobenzene			90.8		%		70-130	22-SEP-21
1,2-Dichloroethane			87.2		%		70-130	22-SEP-21
1,2-Dichloropropane			87.3		%		70-130	22-SEP-21
1,3,5-Trimethylbenzene			95.9		%		70-130	22-SEP-21
1,3-Dichlorobenzene			96.1		%		70-130	22-SEP-21
1,3-Dichloropropane			85.8		%		70-130	22-SEP-21
1,4-Dichlorobenzene			88.8		%		70-130	22-SEP-21
2,2-Dichloropropane			71.3		%		70-130	22-SEP-21
2-Chlorotoluene			88.7		%		70-130	22-SEP-21
4-Chlorotoluene			91.3		%		70-130	22-SEP-21
p-Isopropyltoluene			86.6		%		50-150	22-SEP-21
Benzene			93.5		%		70-130	22-SEP-21
Bromobenzene			92.9		%		70-130	22-SEP-21
Bromochloromethane			99.4		%		70-130	22-SEP-21
Bromodichloromethane			93.0		%		70-130	22-SEP-21
Bromoform			75.6		%		70-130	22-SEP-21
Bromomethane			114.6		%		60-140	22-SEP-21
Carbon tetrachloride			94.8		%		70-130	22-SEP-21
Chlorobenzene			97.6		%		70-130	22-SEP-21
Chloroethane			109.7		%		60-140	22-SEP-21
Chloroform			104.1		%		70-130	22-SEP-21
Chloromethane			117.4		%		60-140	22-SEP-21
cis-1,2-Dichloroethene			105.3		%		70-130	22-SEP-21
cis-1,3-Dichloropropene			71.0		%		70-130	22-SEP-21
Dibromochloromethane			77.8		%		70-130	22-SEP-21
Dibromomethane			83.3		%		70-130	22-SEP-21
Dichlorodifluoromethane			103.4		%		60-140	22-SEP-21
Ethylbenzene			88.4		%		70-130	22-SEP-21
Ethylene dibromide			80.2		%		70-130	22-SEP-21
Hexachlorobutadiene			100.2		%		70-130	22-SEP-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-HS-MS-CL		Water						
Batch	R5592782							
WG3622596-2	LCS							
Isopropylbenzene			90.8		%		70-130	22-SEP-21
m+p-Xylenes			110.7		%		70-130	22-SEP-21
Methylene chloride			104.9		%		60-140	22-SEP-21
n-Butylbenzene			91.2		%		70-130	22-SEP-21
n-Propylbenzene			89.9		%		70-130	22-SEP-21
o-Xylene			83.9		%		70-130	22-SEP-21
sec-Butylbenzene			103.1		%		70-130	22-SEP-21
Styrene			73.8		%		70-130	22-SEP-21
tert-Butylbenzene			96.3		%		70-130	22-SEP-21
Tetrachloroethylene			106.5		%		70-130	22-SEP-21
Toluene			83.4		%		70-130	22-SEP-21
trans-1,2-Dichloroethene			104.9		%		70-130	22-SEP-21
trans-1,3-Dichloropropene			71.6		%		70-130	22-SEP-21
Trichloroethene			98.4		%		70-130	22-SEP-21
Trichlorofluoromethane			120.8		%		60-140	22-SEP-21
Vinyl chloride			97.7		%		60-140	22-SEP-21
WG3622596-1	MB							
1,1,1,2-Tetrachloroethane			<0.0010		mg/L		0.001	22-SEP-21
1,1,1-Trichloroethane			<0.00050		mg/L		0.0005	22-SEP-21
1,1,2,2-Tetrachloroethane			<0.00050		mg/L		0.0005	22-SEP-21
1,1,2-Trichloroethane			<0.00050		mg/L		0.0005	22-SEP-21
1,1-Dichloroethane			<0.00050		mg/L		0.0005	22-SEP-21
1,1-Dichloroethene			<0.00050		mg/L		0.0005	22-SEP-21
1,1-Dichloropropene			<0.0010		mg/L		0.001	22-SEP-21
1,2,3-Trichlorobenzene			<0.0010		mg/L		0.001	22-SEP-21
1,2,3-Trichloropropane			<0.00050		mg/L		0.0005	22-SEP-21
1,2,4-Trichlorobenzene			<0.0010		mg/L		0.001	22-SEP-21
1,2,4-Trimethylbenzene			<0.0010		mg/L		0.001	22-SEP-21
1,2-Dibromo-3-chloropropane			<0.0010		mg/L		0.001	22-SEP-21
1,2-Dichlorobenzene			<0.00050		mg/L		0.0005	22-SEP-21
1,2-Dichloroethane			<0.0010		mg/L		0.001	22-SEP-21
1,2-Dichloropropane			<0.00050		mg/L		0.0005	22-SEP-21
1,3,5-Trimethylbenzene			<0.0010		mg/L		0.001	22-SEP-21
1,3-Dichlorobenzene			<0.00050		mg/L		0.0005	22-SEP-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-HS-MS-CL		Water						
Batch	R5592782							
WG3622596-1	MB							
1,3-Dichloropropane			<0.0010		mg/L		0.001	22-SEP-21
1,4-Dichlorobenzene			<0.00050		mg/L		0.0005	22-SEP-21
2,2-Dichloropropane			<0.0010		mg/L		0.001	22-SEP-21
2-Chlorotoluene			<0.0010		mg/L		0.001	22-SEP-21
4-Chlorotoluene			<0.0010		mg/L		0.001	22-SEP-21
p-Isopropyltoluene			<0.0010		mg/L		0.001	22-SEP-21
Benzene			<0.00050		mg/L		0.0005	22-SEP-21
Bromobenzene			<0.0010		mg/L		0.001	22-SEP-21
Bromochloromethane			<0.0010		mg/L		0.001	22-SEP-21
Bromodichloromethane			<0.00050		mg/L		0.0005	22-SEP-21
Bromoform			<0.00050		mg/L		0.0005	22-SEP-21
Bromomethane			<0.0010		mg/L		0.001	22-SEP-21
Carbon tetrachloride			<0.00050		mg/L		0.0005	22-SEP-21
Chlorobenzene			<0.00050		mg/L		0.0005	22-SEP-21
Chloroethane			<0.0010		mg/L		0.001	22-SEP-21
Chloroform			<0.00050		mg/L		0.0005	22-SEP-21
Chloromethane			<0.0010		mg/L		0.001	22-SEP-21
cis-1,2-Dichloroethene			<0.0010		mg/L		0.001	22-SEP-21
cis-1,3-Dichloropropene			<0.00050		mg/L		0.0005	22-SEP-21
Dibromochloromethane			<0.00050		mg/L		0.0005	22-SEP-21
Dibromomethane			<0.00050		mg/L		0.0005	22-SEP-21
Dichlorodifluoromethane			<0.00050		mg/L		0.0005	22-SEP-21
Ethylbenzene			<0.00050		mg/L		0.0005	22-SEP-21
Ethylene dibromide			<0.00050		mg/L		0.0005	22-SEP-21
Hexachlorobutadiene			<0.0010		mg/L		0.001	22-SEP-21
Isopropylbenzene			<0.0010		mg/L		0.001	22-SEP-21
m+p-Xylenes			<0.00050		mg/L		0.0005	22-SEP-21
Methylene chloride			<0.0010		mg/L		0.001	22-SEP-21
n-Butylbenzene			<0.0010		mg/L		0.001	22-SEP-21
n-Propylbenzene			<0.0010		mg/L		0.001	22-SEP-21
o-Xylene			<0.00050		mg/L		0.0005	22-SEP-21
sec-Butylbenzene			<0.0010		mg/L		0.001	22-SEP-21
Styrene			<0.00050		mg/L		0.0005	22-SEP-21
tert-Butylbenzene			<0.0010		mg/L		0.001	22-SEP-21



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-HS-MS-CL	Water							
Batch	R5592782							
WG3622596-1	MB							
Tetrachloroethylene			<0.00050		mg/L		0.0005	22-SEP-21
Toluene			<0.00050		mg/L		0.0005	22-SEP-21
trans-1,2-Dichloroethene			<0.00050		mg/L		0.0005	22-SEP-21
trans-1,3-Dichloropropene			<0.0010		mg/L		0.001	22-SEP-21
Trichloroethene			<0.00050		mg/L		0.0005	22-SEP-21
Trichlorofluoromethane			<0.0010		mg/L		0.001	22-SEP-21
Vinyl chloride			<0.00050		mg/L		0.0005	22-SEP-21
Surrogate: 1,4-Difluorobenzene			98.1		%		70-130	22-SEP-21
Surrogate: 4-Bromofluorobenzene			72.4		%		70-130	22-SEP-21

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Inorganic Parameters							
Chlorine, Free	1	15-SEP-21 10:15	15-SEP-21 12:30	0.25	2.2	hours	EHTR-FM
Chlorine, Total	1	15-SEP-21 10:15	15-SEP-21 12:30	0.25	2.2	hours	EHTR-FM
Organic Parameters							
Nitritotriacetic Acid (NTA)	1	15-SEP-21 10:15	24-SEP-21 00:00	7	9	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:

Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2639579 were received on 15-SEP-21 11:15.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



L2639579-COFC

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Report To Contact and company name below will appear on the final report		Report Format / Distribution			confirm all E&P TATs with your AM - surcharges will apply												
Company: North Springbank Water Co-op Ltd		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply												
Contact: Bryce Johnson <i>Barry Okabe</i>		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PRIORITY (Business Days)	4 day [P4]					EMERGENCY	1 Business day [E1]					
Phone: 403-863-7863 <i>403 863 9521</i>		<input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked				3 day [P3]						Same Day, Weekend or Statutory holiday [E0]					
Street:		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm												
City/Province:		Email 1 or Fax <i>bij@telus.net</i>			For tests that can not be performed according to the service level selected, you will be contacted.												
Postal Code:		Email 2 <i>NSWC@live.ca</i>			Analysis Request												
Invoice To		Invoice Distribution			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below												
Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX															
Copy of Invoice with Report <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Email 1 or Fax <i>bij@telus.net</i>															
Company: North Springbank Water Co-op Ltd		Email 2 <i>NSWC@live.ca</i>															
Contact: Accounts Payable		Oil and Gas Required Fields (client use)															
ALS Account # / Quote #: 28400 / Q85330		AFE/Cost Center:		PO#													
Job #: Schedule 4 Testing		Major/Minor Code:		Routing Code:													
PO / AFE:		Requisitioner:															
LSD:		Location:															
ALS Lab Work Order # (lab use only)		ALS Contact: Pat W		Sampler:													
ALS Sample # (lab use only)		Sample Identification and/or Coordinates (This description will appear on the report)			Date (dd-mmm-yy)		Time (hh:mm)		Sample Type		Q85330 All Codes		Number of Containers				
		54 Schedule 4 54 Q3 2021			9/15/21		10:15		Water Grab		R						
		HAA															
		Chlorate															
		Chlorite															
		NDMA															
Drinking Water (DW) Samples ¹ (client use)		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)			SAMPLE CONDITION AS RECEIVED (lab use only)												
Are samples taken from a Regulated DW System? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Please include guidelines & limits			Frozen <input type="checkbox"/>					SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>							
Are samples for human drinking water use? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					Ice Packs <input type="checkbox"/> Ice Cubes <input type="checkbox"/>					Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>							
		Cooling Initiated <input type="checkbox"/>					INITIAL COOLER TEMPERATURES °C					FINAL COOLER TEMPERATURES °C					
		9															
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)												
Released by:		Date:		Time:		Received by:		Date:		Time:		Received by:		Date:		Time:	