

October 23, 2014

Peregrine Diamonds Ltd. 201 - 1250 Homer Street Vancouver, BC V6B1C6

**Attention:** David Willis

Lands Administrator

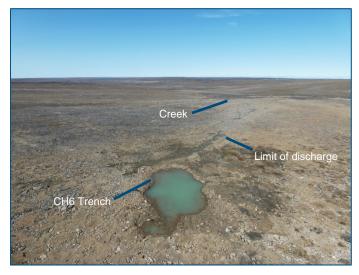
Subject: Chidliak Exploration Site CH6

August 2014 Water Quality Sampling Event

#### 1.0 INTRODUCTION

Peregrine Diamonds Ltd.'s (Peregrine's) Type B Water Licence (#2BE-CHI1218) (the Water Licence) specifies effluent quality criteria for discharged water from trench containment areas on the Chidliak property, Nunavut (Map 1). To ensure that water quality at Peregrine's CH6 exploration trench meets the Water Licence criteria, Tetra Tech EBA Inc. (Tetra Tech EBA) collected water quality samples within and surrounding the trench on August 9, 2014<sup>1</sup>. Results from this water quality sampling event are provided and compared to the Water Licence criteria.

Trenching at CH6 was conducted in the winter of 2013, and the trench is approximately 450 m<sup>2</sup>. At the trench site, the landscape is characterized by a mid-slope barren rock habitat with a gentle gradient to the north northwest. The nearest sensitive receiving environment is a creek at least 450 m to the northwest of the CH6 trench. At the time of the sampling event, water overflow from the trench did not reach as far as the creek (Photo 1).



**Photo 1**: Looking north at the limit of overflow discharged from the CH6 trench and the unnamed creek in the distance.

ISSUED FOR USE FILE: ENVMIN03024-01

Via Email: dave@pdiam.com

This sampling program was conducted in conjunction with the 2014 baseline environmental studies that included surface water quality sampling at 28 annual monitoring lakes, rivers, and streams in the regional study area.

<sup>&</sup>lt;sup>1</sup> During this time, site weather conditions were overcast, approximately 10 degrees Celsius (°C), and high winds (approximately 40 kilometres per hour (km/hr).

#### 2.0 SAMPLING METHODS

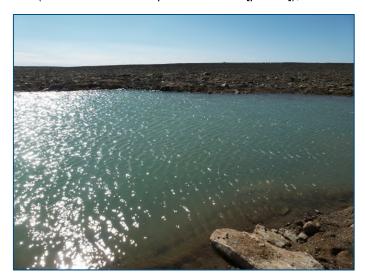
Ms. Karla Langlois, B.Sc., P.Biol., of Tetra Tech EBA, conducted the sampling program following standard grab-sampling methods consistent with those employed during previous baseline programs in the study area since 2009. Grab samples were collected and submitted for laboratory analysis of routine parameters, nutrients, total metals, total organic carbon, and oil and grease. A calibrated handheld Oakton<sup>®</sup> multi-parameter meter was used to record in situ field parameters such as pH, electrical conductivity (EC), and water temperature.

#### 3.0 EXPLORATION CH6 TRENCH SAMPLING RESULTS

Two water quality samples were collected at the time of the sampling event:

- along the shoreline of the CH6 trench; and
- 2. immediately down-gradient of the CH6 trench within a small overflow area.

During this time, the surface water in the trench was slightly turbid and there was no evidence of odour or surface sheen (Photo 2). In situ water chemistry measurements indicated the water was near neutral (pH 6.7), with low EC (14.0 microsiemens per centimetre [µS/cm]), and relatively warm (10.7°C).



**Photo 2:** Looking across the CH6 trench from its water quality sampling location.

Water in the overflow area was shallow, with a maximum depth 11 cm, and flowing in braided channels across the tundra. The channels wetted width was approximately 25 m and the water appeared slightly turbid with no evidence of odour or surface sheen (Photo 3). In situ water chemistry measurements indicated the water was near neutral (pH 6.9), with low EC (13.8 µS/cm), and relatively warm (10.7°C).



**Photo 3:** Looking south towards the CH6 trench from the overflow water quality sampling location.

Water quality samples were submitted to ALS Laboratory Group (ALS) in Yellowknife on August 14, 2014, and analyzed for the full suite of parameters required under the Water Licence.

The Water Licence provides effluent quality criteria for water discharged from the trench as the Maximum Concentration of Any Grab Sample (MCAGS) for eight water quality parameters (arsenic, copper, lead, nickel, zinc, total suspended solids, oil and grease, and pH). Analytical results from the water samples collected from the trench and in the trench overflow indicate that all parameters were well below the Water Licence effluent quality criteria (Table 3-1). The laboratory analytical results are provided in Appendix A.

Table 3-1: Water Quality Analytical Results Compared to the Water Licence (#2BE-CHI1218)

Parameter	CH6 Trench	CH6 Trench Overflow	Units	Detection Limit	Water Licence MCAGS* Criteria	
Total Arsenic	<0.00040	<0.00040	mg/L	0.00040	0.50	
Total Copper	<0.0010	<0.0010	mg/L	0.0010	0.30	
Total Lead	0.00013	0.00013	mg/L	0.00010	0.20	
Total Nickel	<0.0020	<0.0020	mg/L	0.0020	0.50	
Total Zinc	<0.0040	<0.0040	mg/L	0.0040	0.50	
Total Suspended Solids	3.8	<3.0	mg/L	3.0	25.0	
Oil and Grease	<1.0	<1.0	ma/l	1.0	No visible sheen	
Oil allu Glease	(no visible sheen)	(no visible sheen)	mg/L	1.0	INO VISIDIE SNEEN	
рН	6.38	6.56	-	-	6 - 9.5	

<sup>\*</sup> MCAGS criteria = Maximum Concentration of Any Grab Sample

Quality control samples were also included as part of the standardized sampling protocol during the baseline environmental studies. These quality control samples included field and travel blanks and three duplicate samples. The duplicate water quality samples and a field blank were collected on site, and a travel blank accompanied the sample bottles to the site, left intact, and returned to the laboratory with the water quality samples. Laboratory analysis of these quality control samples indicate that the sample methods employed during the collection, transportation, and analyses of the samples are considered satisfactory and did not lead to the introduction of potential contaminants for all parameters specified under the Water Licence.

Satisfactory sampling methods are indicated by the travel and field blank results being below their respective laboratory detection limit for parameters specified under the Water Licence (Table 3-2).

Table 3-2: Travel and Field Blank Analytical Results

Parameter	Travel Blank	Field Blank	Units	Detection Limit
Total Arsenic	<0.00040	<0.00040	mg/L	0.00040
Total Copper	<0.0010	<0.0010	mg/L	0.0010
Total Lead	<0.00010	<0.00010	mg/L	0.00010
Total Nickel	<0.0020	<0.0020	mg/L	0.0020
Total Zinc	<0.0040	<0.0040	mg/L	0.0040
Total Suspended Solids	<3.0	<3.0	mg/L	3.0
Oil and Grease	<1.0	<1.0	mg/L	1.0
рН	5.40	5.37	-	-

Similarly, using a relative percent difference assessment between the duplicate sample and the original field samples, all three duplicate samples are considered reliable (Table 3-3).

**Table 3-3: Duplicate Sample Assessments** 

	Laborator	y Results		Detection		Deliable Dunlingto?
Parameter	Field 1 (Hydro9)	Duplicate 1	Units	Limit	RPD*	Reliable Duplicate? Yes or No**
Total Arsenic	<0.00040	<0.00040	mg/L	0.00040	-	Yes
Total Copper	<0.0010	<0.0010	mg/L	0.0010	-	Yes
Total Lead	<0.00010	<0.00010	mg/L	0.00010	-	Yes
Total Nickel	<0.0020	<0.0020	mg/L	0.0020	-	Yes
Total Zinc	<0.0040	<0.0040	mg/L	0.0040	-	Yes
Total Suspended Solids	<3.0	<3.0	mg/L	3.0	-	Yes
Oil and Grease	<1.0	<1.0	mg/L	1.0	-	Yes
рН	5.03	5.33	-	-	5.79	Yes
Parameter	Field 2 (WQ25)	Duplicate 2	Units	Detection Limit	RPD*	Reliable Duplicate? Yes or No**
Total Arsenic	<0.00040	<0.00040	mg/L	0.00040	-	Yes
Total Copper	<0.0010	<0.0010	mg/L	0.0010	-	Yes
Total Lead	<0.00010	<0.00010	mg/L	0.00010	-	Yes
Total Nickel	<0.0020	<0.0020	mg/L	0.0020	-	Yes
Total Zinc	<0.0040	<0.0040	mg/L	0.0040	-	Yes
Total Suspended Solids	<3.0	<3.0	mg/L	3.0	-	Yes
Oil and Grease	<1.0	<1.0	mg/L	1.0	-	Yes
рН	6.10	6.14	-	-	0.65	Yes

Parameter	Field 3 (Hydro11)	Duplicate 3	Units	Detection Limit	RPD*	Reliable Duplicate? Yes or No**
Total Arsenic	<0.00040	<0.00040	mg/L	0.00040	-	Yes
Total Copper	<0.0010	<0.0010	mg/L	0.0010	-	Yes
Total Lead	<0.00010	<0.00010	mg/L	0.00010	-	Yes
Total Nickel	<0.0020	<0.0020	mg/L	0.0020	-	Yes
Total Zinc	<0.0040	<0.0040	mg/L	0.0040	-	Yes
Total Suspended Solids	<3.0	<3.0	mg/L	3.0	-	Yes
Oil and Grease	<1.0	<1.0	mg/L	1.0	-	Yes
рН	5.83	5.54	-	-	5.10	Yes

<sup>\*</sup> RPD = Relative Percent Difference where RPD(%) =  $200 \times ABS(x - y)/(x + y)$ , where ABS = Absolute difference, x = the analytical result of the original sample, y = the analytical result of the blind field duplicate sample.

#### 4.0 CONCLUSION

The sampling methods employed were reliable and represent existing water quality conditions in and around the CH6 trench. Water quality in the CH6 trench and its outflow are well within Peregrine's Water Licence effluent quality criteria.

#### 5.0 LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Peregrine Diamonds Ltd. and their agents. Tetra Tech EBA Inc. (Tetra Tech EBA) does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Peregrine Diamonds Ltd., or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this report is subject to the terms and conditions stated in Tetra Tech EBA's Services Agreement. Tetra Tech EBA's General Conditions are provided in Appendix B of this report.

<sup>\*\*</sup> Duplicate samples are considered reliable when their RPD is less than 20%, and both samples are below the laboratory detection limit.

#### 6.0 CLOSURE

We trust this report meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted, Tetra Tech EBA Inc.

Prepared by:

Karla Langlois, B.Sc., P.Biol.

Biologist, Terrestrial Ecology Discipline

Karlalanglein

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Principal Consultant, Mining Direct Line: 604.685.0017 x239 Rick.Hoos@tetratech.com

Pulkos

/sy

Attachments: Map (1)

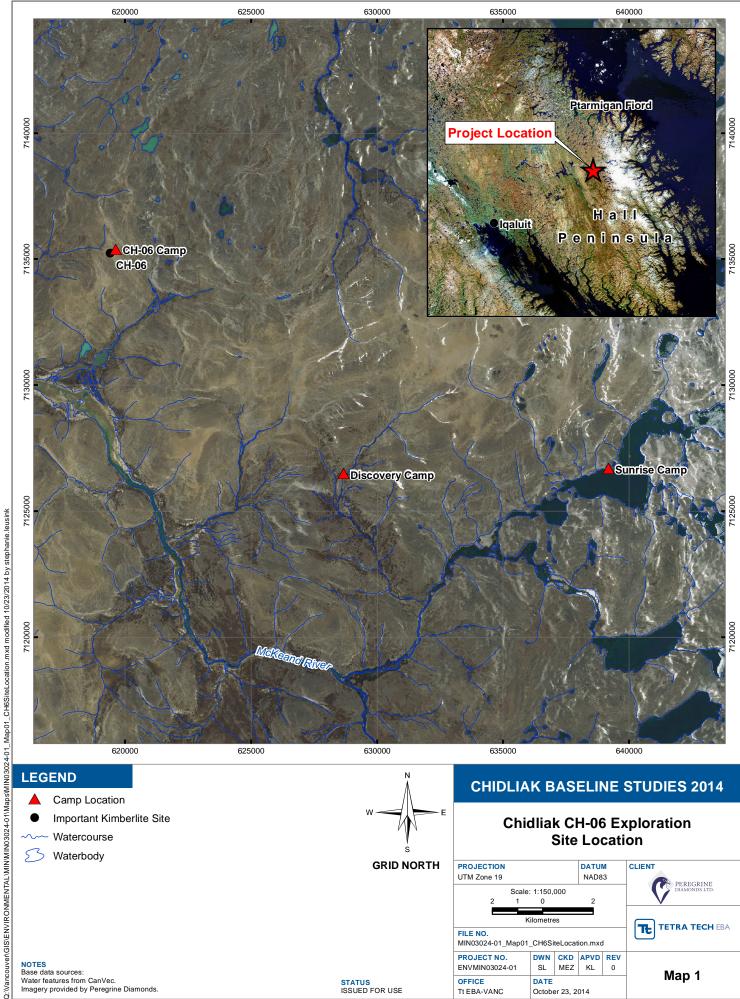
Appendix A – Laboratory Analytical Results

Appendix B – Tetra Tech EBA's General Conditions

# **MAP**

Map 1 Chidliak CH6 Exploration Site Location





Camp Location

Important Kimberlite Site

Watercourse

Waterbody



#### **GRID NORTH**

#### **Chidliak CH-06 Exploration Site Location**

PROJECTION			DATU	М	CLIENT
UTM Zone 19			NAD8	3	PEREGRINE
Scale 2 1	: 1:150,0	000	2		PEREGRINE DIAMONDS LTD.
	Cilometre	TETRA TECH EBA			
FILE NO. MIN03024-01_Map01	_CH6Sit	eLocat	tion.mxc	i	
PROJECT NO.	DWN	CKD	APVD	REV	
ENVMIN03024-01	SL	MEZ	KL	0	Man 1
OFFICE				Map 1	
T+ EDA \/ANC	Octoba	r 22 2	01/		I

NOTES
Base data sources:
Water features from CanVec.
Imagery provided by Peregrine Diamonds.

STATUS ISSUED FOR USE

# APPENDIX A LABORATORY ANALYTICAL RESULTS





Tetra Tech EBA Inc.
ATTN: Karla Langlois
PO Box 2244 STN M
201- 4916 49 Street
Yellowknife NT X1A 2P7

Date Received: 12-AUG-14

Report Date: 21-AUG-14 14:07 (MT)

Version: FINAL

Client Phone: 867-920-2287

# **Certificate of Analysis**

Lab Work Order #: L1500733

Project P.O. #: NOT SUBMITTED

Job Reference: ENVMIN03024

C of C Numbers: 1, 2, 3

Legal Site Desc:

Rick Zolkiewski General Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 75 Con Road, PO. Box 2801, Yellowknife, NT, X1A 2R2 Canada | Phone: +1 867 873 5593 | Fax: +1 867 920 4238 ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company



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Sample Details/Parameters	Result	Qualifier* D.L.	Units	Extracted	Analyzed	Batch
L1500733-8 WQ8						
Sampled By: KL on 09-AUG-14 @ 12:00						
Matrix: Surface Water						
Total Metals in Water by CRC ICPMS Cobalt (Co)-Total	<0.0020	0.0020	mg/L		17-AUG-14	R2920902
Copper (Cu)-Total	<0.0010	0.0010	mg/L		17-AUG-14	R2920902
Iron (Fe)-Total	0.030	0.010	mg/L		17-AUG-14	R2920902
Lead (Pb)-Total	<0.00010	0.00010	mg/L		17-AUG-14	R2920902
Lithium (Li)-Total	<0.010	0.010	mg/L		17-AUG-14	R2920902
Magnesium (Mg)-Total	0.15	0.10	mg/L		17-AUG-14	R2920902
Manganese (Mn)-Total	<0.0020	0.0020	mg/L		17-AUG-14	R2920902
Molybdenum (Mo)-Total	<0.0050	0.0050	mg/L		17-AUG-14	R2920902
Nickel (Ni)-Total	<0.0020	0.0020	mg/L		17-AUG-14	R2920902
Potassium (K)-Total	<0.50	0.50	mg/L		17-AUG-14	R2920902
Selenium (Se)-Total	<0.00040	0.00040	mg/L		17-AUG-14	R2920902
Silver (Ag)-Total	<0.000020	0.000020			17-AUG-14	R2920902
Sodium (Na)-Total	<1.0	1.0	mg/L		17-AUG-14	R2920902
Strontium (Sr)-Total	0.00232	0.00010	mg/L		17-AUG-14	R2920902
Thallium (TI)-Total Tin (Sn)-Total	<0.00010 <0.050	0.00010 0.050	mg/L mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Titanium (Ti)-Total	0.0019	0.050	mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Uranium (U)-Total	<0.0019	0.0010	mg/L		17-AUG-14	R2920902
Vanadium (V)-Total	<0.0010	0.0010	mg/L		17-AUG-14	R2920902
Zinc (Zn)-Total	<0.0040	0.0040	mg/L		17-AUG-14	R2920902
Miscellaneous Parameters						
Ammonia, Total (as N)	<0.050	0.050	mg/L		18-AUG-14	R2922152
Oil and Grease	<1.0	1.0	mg/L		17-AUG-14	R2921052
Total Organic Carbon	<1.0	1.0	mg/L		19-AUG-14	R2922966
Phosphorus (P)-Total	<0.020	0.020	mg/L	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	<3.0	3.0	mg/L		15-AUG-14	R2921185
Turbidity	0.68	0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity						
pH	5.42	0.10	pН		13-AUG-14	R2916844
Conductivity (EC)	6.35	0.20	uS/cm		13-AUG-14	R2916844
Bicarbonate (HCO3)	<5.0	5.0	mg/L		13-AUG-14	R2916844
Carbonate (CO3)	<5.0	5.0	mg/L		13-AUG-14	R2916844
Hydroxide (OH)	<5.0	5.0	mg/L		13-AUG-14	R2916844
Alkalinity, Total (as CaCO3)	<2.0	2.0	mg/L		13-AUG-14	R2916844
Total Nitrogen						
Nitrate as N by IC	-0.050	0.050	ma/I		12 110 44	P2047200
Nitrate (as N) Nitrate+Nitrite	<0.050	0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite Nitrate and Nitrite (as N)	<0.054	0.054	mg/L		15-AUG-14	
Nitrite as N by IC	\0.054	0.034	111g/ L		107.00-14	
Nitrite (as N)	<0.020	0.020	mg/L		13-AUG-14	R2917262
TKN in Water by Colour						
Total Kjeldahl Nitrogen	<0.20	0.20	mg/L	19-AUG-14	19-AUG-14	R2923514
Total Nitrogen (Calculation)						
Total Nitrogen	<0.21	0.21	mg/L		19-AUG-14	
L1500733-9 HYDRO 9						
Sampled By: KL on 08-AUG-14 @ 12:00						
Matrix: Surface Water						
TOT Metals CCME Fresh Water Aquatic Life						
Hardness (from Total Ca and Mg)						
Hardness (as CaCO3)	<1.3		mg/L		18-AUG-14	

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier* D.L.	Units	Extracted	Analyzed	Batch
L1500733-9 HYDRO 9						
Sampled By: KL on 08-AUG-14 @ 12:00						
Mercury (Hg) Mercury (Hg)-Total	<0.0000050	0.0000050	mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)						
Cadmium (Cd)-Total	<0.000010	0.000010	mg/L		18-AUG-14	R2922386
Total Metals in Water by CRC ICPMS						
Aluminum (Al)-Total	0.0583	0.0050	mg/L		18-AUG-14	R2922386
Antimony (Sb)-Total	<0.00040	0.00040	mg/L		18-AUG-14	R2922386
Arsenic (As)-Total	<0.00040	0.00040	mg/L		18-AUG-14	R2922386
Barium (Ba)-Total	<0.0030	0.0030	mg/L		18-AUG-14	R2922386
Beryllium (Be)-Total Boron (B)-Total	<0.0010	0.0010	mg/L		18-AUG-14 18-AUG-14	R2922386
Calcium (Ca)-Total	<0.050 <0.50	0.050 0.50	mg/L mg/L		18-AUG-14	R2922386 R2922386
Chromium (Cr)-Total	<0.50 <0.0010	0.0010	mg/L		18-AUG-14	R2922386 R2922386
Cobalt (Co)-Total	<0.0010	0.0010	mg/L		18-AUG-14	R2922386
Copper (Cu)-Total	<0.0020	0.0020	mg/L		18-AUG-14	R2922386
Iron (Fe)-Total	0.057	0.010	mg/L		18-AUG-14	R2922386
Lead (Pb)-Total	<0.00010	0.00010	mg/L		18-AUG-14	R2922386
Lithium (Li)-Total	<0.010	0.010	mg/L		18-AUG-14	R2922386
Magnesium (Mg)-Total	0.12	0.10	mg/L		18-AUG-14	R2922386
Manganese (Mn)-Total	<0.0020	0.0020	mg/L		18-AUG-14	R2922386
Molybdenum (Mo)-Total	< 0.0050	0.0050	mg/L		18-AUG-14	R2922386
Nickel (Ni)-Total	<0.0020	0.0020	mg/L		18-AUG-14	R2922386
Potassium (K)-Total	< 0.50	0.50	mg/L		18-AUG-14	R2922386
Selenium (Se)-Total	<0.00040	0.00040	mg/L		18-AUG-14	R2922386
Silver (Ag)-Total	<0.000020	0.000020	mg/L		18-AUG-14	R2922386
Sodium (Na)-Total	<1.0	1.0	mg/L		18-AUG-14	R2922386
Strontium (Sr)-Total	0.00192	0.00010	mg/L		18-AUG-14	R2922386
Thallium (TI)-Total	<0.00010	0.00010	mg/L		18-AUG-14	R2922386
Tin (Sn)-Total	<0.050	0.050	mg/L		18-AUG-14	R2922386
Titanium (Ti)-Total	0.0034	0.0010	mg/L		18-AUG-14	R2922386
Uranium (U)-Total	<0.00010	0.00010	mg/L		18-AUG-14	R2922386
Vanadium (V)-Total Zinc (Zn)-Total	<0.0010	0.0010	mg/L		18-AUG-14	R2922386
Miscellaneous Parameters	<0.0040	0.0040	mg/L		18-AUG-14	R2922386
Ammonia, Total (as N)	<0.050	0.050	mg/L		18-AUG-14	R2922152
Oil and Grease						I I
	<1.0	1.0	mg/L		17-AUG-14	R2921202
Total Organic Carbon	<1.0	1.0	mg/L	14-AUG-14	19-AUG-14	R2922966
Phosphorus (P)-Total	<0.020	0.020	mg/L	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	<3.0	3.0	mg/L		15-AUG-14	R2921185
Turbidity	1.68	0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity	F 00	0.40	الم		12 110 14	D2046044
pH Conductivity (EC)	5.03	0.10	pH uS/cm		13-AUG-14 13-AUG-14	R2916844
Bicarbonate (HCO3)	6.16 <5.0	0.20 5.0	mg/L		13-AUG-14 13-AUG-14	R2916844 R2916844
Carbonate (CO3)	<5.0 <5.0	5.0	mg/L		13-AUG-14 13-AUG-14	R2916844
Hydroxide (OH)	<5.0 <5.0	5.0	mg/L		13-AUG-14 13-AUG-14	R2916844
Alkalinity, Total (as CaCO3)	<2.0	2.0	mg/L		13-AUG-14	R2916844
Total Nitrogen	72.0	2.0	1119/ L		107100-14	112010044
Nitrate as N by IC						
Nitrate (as N)	0.223	0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite						
Nitrate and Nitrite (as N)	0.223	0.054	mg/L		15-AUG-14	

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier* D.L.	Units	Extracted	Analyzed	Batch
L1500733-9 HYDRO 9						
Sampled By: KL on 08-AUG-14 @ 12:00						
·						
Matrix: Surface Water						
Nitrite as N by IC Nitrite (as N)	-0.020	0.00	0		13-AUG-14	D2047262
TKN in Water by Colour	<0.020	0.02	0 mg/L		13-AUG-14	R2917262
Total Kjeldahl Nitrogen	<0.20	0.20	) mg/L	19-AUG-14	19-AUG-14	R2923514
Total Nitrogen (Calculation)	V0.20	0.20	,g, _	107.0011	10710011	112020014
Total Nitrogen	0.22	0.21	mg/L		19-AUG-14	
L1500733-10 HYDRO 10						
Sampled By: KL on 08-AUG-14 @ 12:00						
Matrix: Surface Water						
TOT Metals CCME Fresh Water Aquatic Life						
Hardness (from Total Ca and Mg)						
Hardness (as CaCO3)	<1.3		mg/L		18-AUG-14	
Mercury (Hg)						
Mercury (Hg)-Total	<0.000050	0.0000	050 mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)						
Cadmium (Cd)-Total	<0.000010	0.0000	)10 mg/L		17-AUG-14	R2920902
Total Metals in Water by CRC ICPMS						
Aluminum (Al)-Total	0.0243	0.005	-		17-AUG-14	R2920902
Antimony (Sb)-Total	<0.00040	0.000	•		17-AUG-14	R2920902
Arsenic (As)-Total	<0.00040	0.000	-		17-AUG-14	R2920902
Barium (Ba)-Total	<0.0030	0.003			17-AUG-14	R2920902
Beryllium (Be)-Total	<0.0010	0.001			17-AUG-14 17-AUG-14	R2920902
Boron (B)-Total Calcium (Ca)-Total	<0.050 <0.50	0.05			17-AUG-14 17-AUG-14	R2920902 R2920902
Chromium (Cr)-Total	<0.0010	0.50	0		17-AUG-14 17-AUG-14	R2920902 R2920902
Cobalt (Co)-Total	<0.0010	0.001	"		17-AUG-14	R2920902
Copper (Cu)-Total	<0.0020	0.002	_		17-AUG-14	R2920902
Iron (Fe)-Total	0.014	0.001			17-AUG-14	R2920902
Lead (Pb)-Total	<0.00010	0.000	_		17-AUG-14	R2920902
Lithium (Li)-Total	<0.010	0.01	_		17-AUG-14	R2920902
Magnesium (Mg)-Total	0.13	0.10	_		17-AUG-14	R2920902
Manganese (Mn)-Total	<0.0020	0.002	_		17-AUG-14	R2920902
Molybdenum (Mo)-Total	<0.0050	0.005	60 mg/L		17-AUG-14	R2920902
Nickel (Ni)-Total	<0.0020	0.002	20 mg/L		17-AUG-14	R2920902
Potassium (K)-Total	<0.50	0.50	) mg/L		17-AUG-14	R2920902
Selenium (Se)-Total	<0.00040	0.000	-		17-AUG-14	R2920902
Silver (Ag)-Total	<0.000020	0.0000	_		17-AUG-14	R2920902
Sodium (Na)-Total	<1.0	1.0			17-AUG-14	R2920902
Strontium (Sr)-Total	0.00205	0.000			17-AUG-14	R2920902
Thallium (TI)-Total	<0.00010	0.000			17-AUG-14	R2920902
Tin (Sn)-Total	<0.050	0.05			17-AUG-14	R2920902
Titanium (Ti)-Total	<0.0010	0.001			17-AUG-14	R2920902
Uranium (U)-Total	<0.00010	0.000			17-AUG-14	R2920902
Vanadium (V)-Total	<0.0010	0.001			17-AUG-14	R2920902
Zinc (Zn)-Total  Miscellaneous Parameters	<0.0040	0.004	l0 mg/L		17-AUG-14	R2920902
	-0.050	0.05	0 ~~/!		19 110 14	D2022452
Ammonia, Total (as N) Oil and Grease	<0.050	0.05			18-AUG-14	R2922152
	<1.0	1.0			17-AUG-14	R2921202
Total Organic Carbon	<1.0	1.0	_		19-AUG-14	R2922966
Phosphorus (P)-Total	<0.020	0.02	_	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	<3.0	3.0			15-AUG-14	R2921185
Turbidity	0.55	0.10	) NTU		13-AUG-14	R2917244

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1500733-10 HYDRO 10							
Sampled By: KL on 08-AUG-14 @ 12:00							
Matrix: Surface Water							
pH, Conductivity and Total Alkalinity							
pH	5.29		0.10	рН		13-AUG-14	R2916844
Conductivity (EC)	5.49		0.20	uS/cm		13-AUG-14	R2916844
Bicarbonate (HCO3)	<5.0		5.0	mg/L		13-AUG-14	R2916844
Carbonate (CO3)	<5.0		5.0	mg/L		13-AUG-14	R2916844
Hydroxide (OH)	<5.0		5.0	mg/L		13-AUG-14	R2916844
Alkalinity, Total (as CaCO3)	<2.0		2.0	mg/L		13-AUG-14	R2916844
Total Nitrogen							
Nitrate as N by IC Nitrate (as N)	0.146		0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite							
Nitrate and Nitrite (as N)	0.146		0.054	mg/L		15-AUG-14	
Nitrite as N by IC	~0.020		0.020	ma/l		13-AUG-14	R2917262
Nitrite (as N) TKN in Water by Colour	<0.020		0.020	mg/L		13-AUG-14	KZ311Z0Z
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	19-AUG-14	19-AUG-14	R2923514
<b>Total Nitrogen (Calculation)</b> Total Nitrogen	<0.21		0.21	mg/L		19-AUG-14	
L1500733-11 HYDRO 11							
Sampled By: KL on 09-AUG-14 @ 12:00							
Matrix: Surface Water							
TOT Metals CCME Fresh Water Aquatic Life							
Hardness (from Total Ca and Mg) Hardness (as CaCO3)	5.2			mg/L		18-AUG-14	
Mercury (Hg) Mercury (Hg)-Total	<0.000050		0.0000050	mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL) Cadmium (Cd)-Total	0.000015		0.000010	mg/L		17-AUG-14	R2920902
Total Metals in Water by CRC ICPMS	0.000013		0.000010	IIIg/L		17-200-14	N2920902
Aluminum (Al)-Total	0.0209		0.0050	mg/L		17-AUG-14	R2920902
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Arsenic (As)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Barium (Ba)-Total	0.0037		0.0030	mg/L		17-AUG-14	R2920902
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Boron (B)-Total	<0.050		0.050	mg/L		17-AUG-14	R2920902
Calcium (Ca)-Total	1.03		0.50	mg/L		17-AUG-14	R2920902
Chromium (Cr)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		17-AUG-14	R2920902
Copper (Cu)-Total Iron (Fe)-Total	<0.0010 0.012		0.0010 0.010	mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Lead (Pb)-Total	<0.0010		0.010	mg/L mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Lithium (Li)-Total	<0.010		0.00010	mg/L		17-AUG-14 17-AUG-14	R2920902
Magnesium (Mg)-Total	0.64		0.10	mg/L		17-AUG-14	R2920902
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		17-AUG-14	R2920902
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		17-AUG-14	R2920902
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		17-AUG-14	R2920902
Potassium (K)-Total	<0.50		0.50	mg/L		17-AUG-14	R2920902
Selenium (Se)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Silver (Ag)-Total	<0.000020		0.000020	mg/L		17-AUG-14	R2920902
Sodium (Na)-Total	<1.0		1.0	mg/L		17-AUG-14	R2920902
Strontium (Sr)-Total	0.00577		0.00010	mg/L		17-AUG-14	R2920902
Thallium (TI)-Total	<0.00010		0.00010	mg/L		17-AUG-14	R2920902

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1500733-11 HYDRO 11							
Sampled By: KL on 09-AUG-14 @ 12:00							
Matrix: Surface Water							
Total Metals in Water by CRC ICPMS							
Tin (Sn)-Total	<0.050		0.050	mg/L		17-AUG-14	R2920902
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Uranium (U)-Total	<0.00010		0.00010	mg/L		17-AUG-14	R2920902
Vanadium (V)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Zinc (Zn)-Total	<0.0040		0.0040	mg/L		17-AUG-14	R2920902
Miscellaneous Parameters							
Ammonia, Total (as N)	<0.050		0.050	mg/L		18-AUG-14	R2922152
Oil and Grease	<1.0		1.0	mg/L		17-AUG-14	R2921202
Total Organic Carbon	<1.0		1.0	mg/L		19-AUG-14	R2922966
Phosphorus (P)-Total	<0.020		0.020	mg/L	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	<3.0		3.0	mg/L		15-AUG-14	R2921185
Turbidity	0.40		0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity							
pH	5.83		0.10	pН		13-AUG-14	R2916844
Conductivity (EC)	17.7		0.20	uS/cm		13-AUG-14	R2916844
Bicarbonate (HCO3)	<5.0		5.0	mg/L		13-AUG-14	R2916844
Carbonate (CO3)	<5.0		5.0	mg/L		13-AUG-14	R2916844
Hydroxide (OH) Alkalinity, Total (as CaCO3)	<5.0 3.7		5.0 2.0	mg/L		13-AUG-14 13-AUG-14	R2916844 R2916844
Total Nitrogen	3.7		2.0	mg/L		13-AUG-14	R2910044
Nitrate as N by IC							
Nitrate (as N)	<0.050		0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite				3			
Nitrate and Nitrite (as N)	<0.054		0.054	mg/L		15-AUG-14	
Nitrite as N by IC							
Nitrite (as N)	<0.020		0.020	mg/L		13-AUG-14	R2917262
TKN in Water by Colour				_			
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	19-AUG-14	19-AUG-14	R2923514
Total Nitrogen (Calculation) Total Nitrogen	<0.21		0.24	ma/l		19-AUG-14	
	<0.21		0.21	mg/L		19-AUG-14	
L1500733-12 WQ12							
Sampled By: KL on 08-AUG-14 @ 12:00							
Matrix: Surface Water							
TOT Metals CCME Fresh Water Aquatic Life Hardness (from Total Ca and Mg)							
Hardness (as CaCO3)	1.3			mg/L		18-AUG-14	
Mercury (Hg)	1.0			9/ =			
Mercury (Hg)-Total	<0.000050		0.0000050	mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)							
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L		18-AUG-14	R2922386
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0725		0.0050	mg/L		18-AUG-14	R2922386
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		18-AUG-14	R2922386
Arsenic (As)-Total	<0.00040		0.00040	mg/L		18-AUG-14	R2922386
Barium (Ba)-Total Beryllium (Be)-Total	0.0041 <0.0010		0.0030 0.0010	mg/L mg/L		18-AUG-14 18-AUG-14	R2922386 R2922386
Boron (B)-Total	<0.0010		0.0010	mg/L		18-AUG-14 18-AUG-14	R2922386 R2922386
Calcium (Ca)-Total	<0.50		0.50	mg/L		18-AUG-14	R2922386
Chromium (Cr)-Total	<0.0010		0.0010	mg/L		18-AUG-14	R2922386
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		18-AUG-14	R2922386
Copper (Cu)-Total	<0.0010		0.0010	mg/L		18-AUG-14	R2922386
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<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier* D.L.	Units	Extracted	Analyzed	Batch
L1500733-23 WQ24						
Sampled By: KL on 08-AUG-14 @ 12:00						
Matrix: Surface Water						
Total Metals in Water by CRC ICPMS						
Titanium (Ti)-Total	0.0047	0.0010	) mg/L		19-AUG-14	R2922386
Uranium (U)-Total	<0.00010	0.0001			19-AUG-14	R2922386
Vanadium (V)-Total	<0.0010	0.0010			19-AUG-14	R2922386
Zinc (Zn)-Total	<0.0040	0.0040	) mg/L		19-AUG-14	R2922386
Miscellaneous Parameters						
Ammonia, Total (as N)	< 0.050	0.050	mg/L		18-AUG-14	R2922152
Oil and Grease	<1.0	1.0	mg/L		17-AUG-14	R2921202
Total Organic Carbon	<1.0	1.0	mg/L		19-AUG-14	R2922966
Phosphorus (P)-Total	<0.020	0.020	mg/L	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	<3.0	3.0	mg/L		15-AUG-14	R2921185
Turbidity	1.82	0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity						
рН	5.46	0.10	pН		13-AUG-14	R2916844
Conductivity (EC)	5.61	0.20	uS/cm		13-AUG-14	R2916844
Bicarbonate (HCO3)	<5.0	5.0	mg/L		13-AUG-14	R2916844
Carbonate (CO3)	<5.0	5.0	mg/L		13-AUG-14	R2916844
Hydroxide (OH)	<5.0	5.0	mg/L		13-AUG-14	R2916844
Alkalinity, Total (as CaCO3)	<2.0	2.0	mg/L		13-AUG-14	R2916844
Total Nitrogen						
Nitrate as N by IC	0.123	0.050	ma/l		13-AUG-14	D2047262
Nitrate (as N) Nitrate+Nitrite	0.123	0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite Nitrate and Nitrite (as N)	0.123	0.054	mg/L		15-AUG-14	
Nitrite as N by IC	0.120	0.054	mg/L		107.00 14	
Nitrite (as N)	<0.020	0.020	mg/L		13-AUG-14	R2917262
TKN in Water by Colour						
Total Kjeldahl Nitrogen	<0.20	0.20	mg/L	19-AUG-14	19-AUG-14	R2923514
Total Nitrogen (Calculation)						
Total Nitrogen	<0.21	0.21	mg/L		19-AUG-14	
L1500733-24 WQ25						
Sampled By: KL on 09-AUG-14 @ 12:00						
Matrix: Surface Water						
TOT Metals CCME Fresh Water Aquatic Life						
Hardness (from Total Ca and Mg)			,,		40 4110 44	
Hardness (as CaCO3)	<1.3		mg/L		18-AUG-14	
<b>Mercury (Hg)</b> Mercury (Hg)-Total	<0.000050	0.00000	50 mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)	<0.000000	0.00000	JU IIIg/L		13-700-14	112323402
Cadmium (Cd)-Total	<0.000010	0.00001	0 mg/L		17-AUG-14	R2920902
Total Metals in Water by CRC ICPMS	30.000010	0.0000	ing/L		1.7.55 14	112020002
Aluminum (Al)-Total	0.0237	0.0050	) mg/L		17-AUG-14	R2920902
Antimony (Sb)-Total	<0.00040	0.0004	-		17-AUG-14	R2920902
Arsenic (As)-Total	<0.00040	0.0004			17-AUG-14	R2920902
Barium (Ba)-Total	<0.0030	0.0030	-		17-AUG-14	R2920902
Beryllium (Be)-Total	<0.0010	0.0010	) mg/L		17-AUG-14	R2920902
Boron (B)-Total	<0.050	0.050	mg/L		17-AUG-14	R2920902
Calcium (Ca)-Total	<0.50	0.50	mg/L		17-AUG-14	R2920902
Chromium (Cr)-Total	<0.0010	0.0010			17-AUG-14	R2920902
Cobalt (Co)-Total	<0.0020	0.0020			17-AUG-14	R2920902
Copper (Cu)-Total	<0.0010	0.0010			17-AUG-14	R2920902
Iron (Fe)-Total	0.024	0.010	mg/L	<u> </u>	17-AUG-14	R2920902

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier* D.L.	Units	Extracted	Analyzed	Batch
L1500733-24 WQ25						
Sampled By: KL on 09-AUG-14 @ 12:00						
Matrix: Surface Water						
Total Metals in Water by CRC ICPMS						
Lead (Pb)-Total	<0.00010	0.00010	mg/L		17-AUG-14	R2920902
Lithium (Li)-Total	<0.010	0.010	mg/L		17-AUG-14	R2920902
Magnesium (Mg)-Total	0.19	0.10	mg/L		17-AUG-14	R2920902
Manganese (Mn)-Total	0.0028	0.0020	mg/L		17-AUG-14	R2920902
Molybdenum (Mo)-Total	<0.0050	0.0050	mg/L		17-AUG-14	R2920902
Nickel (Ni)-Total	<0.0020	0.0020	mg/L		17-AUG-14	R2920902
Potassium (K)-Total	<0.50	0.50	mg/L		17-AUG-14	R2920902
Selenium (Se)-Total	<0.00040	0.00040	mg/L		17-AUG-14	R2920902
Silver (Ag)-Total Sodium (Na)-Total	<0.000020	0.000020	mg/L		17-AUG-14	R2920902
Strontium (Sr)-Total	<1.0 0.00250	1.0 0.00010	mg/L mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Thallium (TI)-Total	<0.00250	0.00010	mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Tin (Sn)-Total	<0.050	0.050	mg/L		17-AUG-14	R2920902
Titanium (Ti)-Total	0.0013	0.0010	mg/L		17-AUG-14	R2920902
Uranium (U)-Total	<0.00010	0.00010	mg/L		17-AUG-14	R2920902
Vanadium (V)-Total	<0.0010	0.0010	mg/L		17-AUG-14	R2920902
Zinc (Zn)-Total	<0.0040	0.0040	mg/L		17-AUG-14	R2920902
Miscellaneous Parameters						
Ammonia, Total (as N)	<0.050	0.050	mg/L		18-AUG-14	R2922152
Oil and Grease	<1.0	1.0	mg/L		17-AUG-14	R2921202
Total Organic Carbon	<1.0	1.0	mg/L		19-AUG-14	R2922966
Phosphorus (P)-Total	<0.020	0.020	mg/L	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	<3.0	3.0	mg/L		15-AUG-14	R2921185
Turbidity	0.70	0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity						
pH	6.10	0.10	pН		13-AUG-14	R2916844
Conductivity (EC)	5.42	0.20	uS/cm		13-AUG-14	R2916844
Bicarbonate (HCO3)	<5.0	5.0	mg/L		13-AUG-14 13-AUG-14	R2916844
Carbonate (CO3) Hydroxide (OH)	<5.0 <5.0	5.0 5.0	mg/L mg/L		13-AUG-14 13-AUG-14	R2916844 R2916844
Alkalinity, Total (as CaCO3)	<2.0	2.0	mg/L		13-AUG-14	R2916844
Total Nitrogen	72.0	2.0	9/ ⊏		107.00 14	1.2010044
Nitrate as N by IC						
Nitrate (as N)	<0.050	0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite						
Nitrate and Nitrite (as N)	<0.054	0.054	mg/L		15-AUG-14	
Nitrite as N by IC					40 41:0 ::	
Nitrite (as N)	<0.020	0.020	mg/L		13-AUG-14	R2917262
TKN in Water by Colour Total Kjeldahl Nitrogen	<0.20	0.20	mg/L	19-AUG-14	19-AUG-14	R2923514
Total Nitrogen (Calculation)	\0.20	0.20	mg/L	10 700-14	10-700-14	112923314
Total Nitrogen (Calculation)  Total Nitrogen	<0.21	0.21	mg/L		19-AUG-14	
L1500733-25 WQ26			<u> </u>			
Sampled By: KL on 09-AUG-14 @ 12:00						
Matrix: Surface Water						
TOT Metals CCME Fresh Water Aquatic Life						
Hardness (from Total Ca and Mg)						
Hardness (as CaCO3)	<1.3		mg/L		18-AUG-14	
Mercury (Hg)						
Mercury (Hg)-Total	<0.0000050	0.0000050	mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)						

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier* D.L.	Units	Extracted	Analyzed	Batch
L1500733-28 WQ29						
Sampled By: KL on 09-AUG-14 @ 12:00						
Matrix: Surface Water						
Total Metals in Water by CRC ICPMS						
Lead (Pb)-Total	<0.00010	0.00010	mg/L		17-AUG-14	R2920902
Lithium (Li)-Total	<0.010	0.010	mg/L		17-AUG-14	R2920902
Magnesium (Mg)-Total	0.14	0.10	mg/L		17-AUG-14	R2920902
Manganese (Mn)-Total	<0.0020	0.0020	mg/L		17-AUG-14	R2920902
Molybdenum (Mo)-Total	<0.0050	0.0050	mg/L		17-AUG-14	R2920902
Nickel (Ni)-Total	<0.0020	0.0020	mg/L		17-AUG-14	R2920902
Potassium (K)-Total	<0.50	0.50	mg/L		17-AUG-14	R2920902
Selenium (Se)-Total	<0.00040	0.00040	mg/L		17-AUG-14	R2920902
Silver (Ag)-Total Sodium (Na)-Total	<0.000020 <1.0	0.000020	mg/L mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Strontium (Sr)-Total	0.00160	0.00010	mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Thallium (TI)-Total	<0.00100	0.00010	mg/L		17-AUG-14 17-AUG-14	R2920902
Tin (Sn)-Total	<0.050	0.050	mg/L		17-AUG-14	R2920902
Titanium (Ti)-Total	0.0034	0.0010	mg/L		17-AUG-14	R2920902
Uranium (U)-Total	<0.00010	0.00010	mg/L		17-AUG-14	R2920902
Vanadium (V)-Total	<0.0010	0.0010	mg/L		17-AUG-14	R2920902
Zinc (Zn)-Total	<0.0040	0.0040	mg/L		17-AUG-14	R2920902
Miscellaneous Parameters						
Ammonia, Total (as N)	<0.050	0.050	mg/L		18-AUG-14	R2922152
Oil and Grease	<1.0	1.0	mg/L		17-AUG-14	R2921202
Total Organic Carbon	<1.0	1.0	mg/L		19-AUG-14	R2922966
Phosphorus (P)-Total	<0.020	0.020	mg/L	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	<3.0	3.0	mg/L		15-AUG-14	R2921185
Turbidity	0.74	0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity	F 00	0.40	n I I		44 0110 44	D0040044
pH Conductivity (EC)	5.22 5.43	0.10	pH uS/cm		14-AUG-14 14-AUG-14	R2916844 R2916844
Bicarbonate (HCO3)	<5.0	5.0	mg/L		14-AUG-14	R2916844
Carbonate (CO3)	<5.0	5.0	mg/L		14-AUG-14	R2916844
Hydroxide (OH)	<5.0	5.0	mg/L		14-AUG-14	R2916844
Alkalinity, Total (as CaCO3)	<2.0	2.0	mg/L		14-AUG-14	R2916844
Total Nitrogen			-			
Nitrate as N by IC						
Nitrate (as N)	0.077	0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite	0.077	0.054	التحصي		45 110 44	
Nitrate and Nitrite (as N)	0.077	0.054	mg/L		15-AUG-14	
Nitrite as N by IC Nitrite (as N)	<0.020	0.020	mg/L		13-AUG-14	R2917262
TKN in Water by Colour	\0.020	0.020	mg/∟		10 700-14	112011202
Total Kjeldahl Nitrogen	<0.20	0.20	mg/L	19-AUG-14	19-AUG-14	R2923514
Total Nitrogen (Calculation)			Ĭ			
Total Nitrogen	<0.21	0.21	mg/L		19-AUG-14	
L1500733-29 CH6 TRENCH						
Sampled By: KL on 09-AUG-14 @ 12:00						
Matrix: Surface Water						
TOT Metals CCME Fresh Water Aquatic Life						
Hardness (from Total Ca and Mg)						
Hardness (as CaCO3)	4.2		mg/L		20-AUG-14	
Mercury (Hg)	-0.0000050	0.0000050	po a/I		10 110 14	D2002402
Mercury (Hg)-Total	<0.000050	0.000050	mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)						

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1500733-29 CH6 TRENCH							
Sampled By: KL on 09-AUG-14 @ 12:00							
Total Cd in Water by CCMS (CCME - FAL) Cadmium (Cd)-Total	<0.000010	0.	.000010	mg/L		19-AUG-14	R2922386
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.239		0.0050	mg/L		19-AUG-14	R2922386
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		19-AUG-14	R2922386
Arsenic (As)-Total	<0.00040		0.00040	mg/L		19-AUG-14	R2922386
Barium (Ba)-Total	0.0064		0.0030	mg/L		19-AUG-14	R2922386
Beryllium (Be)-Total Boron (B)-Total	<0.0010		0.0010	mg/L		19-AUG-14 19-AUG-14	R2922386
Calcium (Ca)-Total	<0.050 0.68		0.050	mg/L		19-AUG-14 19-AUG-14	R2922386 R2922386
Chromium (Cr)-Total	<0.0010		0.50	mg/L mg/L		19-AUG-14 19-AUG-14	R2922386
Cobalt (Co)-Total	<0.0010		0.0020	mg/L		19-AUG-14	R2922386
Copper (Cu)-Total	<0.0020		0.0020	mg/L		19-AUG-14	R2922386
Iron (Fe)-Total	0.308		0.010	mg/L		19-AUG-14	R2922386
Lead (Pb)-Total	0.00013		0.00010	mg/L		19-AUG-14	R2922386
Lithium (Li)-Total	<0.010		0.010	mg/L		19-AUG-14	R2922386
Magnesium (Mg)-Total	0.61		0.10	mg/L		19-AUG-14	R2922386
Manganese (Mn)-Total	0.0051		0.0020	mg/L		19-AUG-14	R2922386
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		19-AUG-14	R2922386
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		19-AUG-14	R2922386
Potassium (K)-Total	<0.50		0.50	mg/L		19-AUG-14	R2922386
Selenium (Se)-Total	<0.00040	0	0.00040	mg/L		19-AUG-14	R2922386
Silver (Ag)-Total	<0.000020	0.	.000020	mg/L		19-AUG-14	R2922386
Sodium (Na)-Total	<1.0		1.0	mg/L		19-AUG-14	R2922386
Strontium (Sr)-Total	0.00712	0	0.00010	mg/L		19-AUG-14	R2922386
Thallium (TI)-Total	<0.00010		0.00010	mg/L		19-AUG-14	R2922386
Tin (Sn)-Total	<0.050		0.050	mg/L		19-AUG-14	R2922386
Titanium (Ti)-Total	0.0187		0.0010	mg/L		19-AUG-14	R2923744
Uranium (U)-Total	<0.00010		0.00010	mg/L		19-AUG-14	R2922386
Vanadium (V)-Total Zinc (Zn)-Total	<0.0010		0.0010	mg/L		19-AUG-14	R2922386
Miscellaneous Parameters	<0.0040		0.0040	mg/L		19-AUG-14	R2922386
Ammonia, Total (as N)	-0.050		0.050	ma/l		18-AUG-14	D2022452
Oil and Grease	<0.050		0.050	mg/L			R2922152
	<1.0		1.0	mg/L		18-AUG-14	R2922128
Total Organic Carbon	<1.0		1.0	mg/L	44 4110 44	19-AUG-14	R2922966
Phosphorus (P)-Total	<0.020		0.020	mg/L	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	3.8		3.0	mg/L		15-AUG-14	R2921185
Turbidity	10.8		0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity	6.30		0.10	ъЦ		14-AUG-14	D2046944
pH Conductivity (EC)	6.38 12.1		0.10 0.20	pH uS/cm		14-AUG-14 14-AUG-14	R2916844 R2916844
Bicarbonate (HCO3)	12.1   <5.0		5.0	mg/L		14-AUG-14 14-AUG-14	R2916844
Carbonate (CO3)	<5.0 <5.0		5.0	mg/L		14-AUG-14 14-AUG-14	R2916844
Hydroxide (OH)	<5.0		5.0	mg/L		14-AUG-14	R2916844
Alkalinity, Total (as CaCO3)	2.6		2.0	mg/L		14-AUG-14	R2916844
Total Nitrogen			2.0	∌, ⊑			
Nitrate as N by IC							
Nitrate (as N)	0.314		0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite				-			
Nitrate and Nitrite (as N)	0.314		0.054	mg/L		15-AUG-14	
Nitrite as N by IC							
Nitrite (as N)	<0.020		0.020	mg/L		13-AUG-14	R2917262

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1500733-29 CH6 TRENCH							
Sampled By: KL on 09-AUG-14 @ 12:00							
• •							
Matrix: Surface Water							
<b>TKN in Water by Colour</b> Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	20-AUG-14	20-AUG-14	R2923769
Total Nitrogen (Calculation)							
Total Nitrogen	0.31		0.21	mg/L		20-AUG-14	
L1500733-30 CH6 OUTFLOW							
Sampled By: KL on 09-AUG-14 @ 12:00							
Matrix: Surface Water							
TOT Metals CCME Fresh Water Aquatic Life							
Hardness (from Total Ca and Mg) Hardness (as CaCO3)	5.7			mg/L		19-AUG-14	
Mercury (Hg)	5.7			IIIg/L		19-AUG-14	
Mercury (Hg)-Total	<0.000050		0.0000050	mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)				<i>3</i> -			
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L		19-AUG-14	R2922386
Total Metals in Water by CRC ICPMS							
Aluminum (AI)-Total	0.287		0.0050	mg/L		19-AUG-14	R2922386
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		19-AUG-14	R2922386
Arsenic (As)-Total	<0.00040		0.00040	mg/L		19-AUG-14	R2922386
Barium (Ba)-Total	0.0078		0.0030	mg/L		19-AUG-14	R2922386
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		19-AUG-14	R2922386
Boron (B)-Total	<0.050		0.050	mg/L		19-AUG-14	R2922386
Calcium (Ca)-Total	0.72		0.50	mg/L		19-AUG-14	R2922386
Chromium (Cr)-Total Cobalt (Co)-Total	<0.0010 <0.0020		0.0010 0.0020	mg/L		19-AUG-14 19-AUG-14	R2922386 R2922386
Copper (Cu)-Total	<0.0020		0.0020	mg/L mg/L		19-AUG-14	R2922386
Iron (Fe)-Total	0.360		0.0010	mg/L		19-AUG-14	R2922386
Lead (Pb)-Total	0.00013		0.00010	mg/L		19-AUG-14	R2922386
Lithium (Li)-Total	<0.010		0.010	mg/L		19-AUG-14	R2922386
Magnesium (Mg)-Total	0.94		0.10	mg/L		19-AUG-14	R2922386
Manganese (Mn)-Total	0.0066		0.0020	mg/L		19-AUG-14	R2922386
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		19-AUG-14	R2922386
Nickel (Ni)-Total	0.0022		0.0020	mg/L		19-AUG-14	R2922386
Potassium (K)-Total	0.56		0.50	mg/L		19-AUG-14	R2922386
Selenium (Se)-Total	<0.00040		0.00040	mg/L		19-AUG-14	R2922386
Silver (Ag)-Total	<0.000020		0.000020	mg/L		19-AUG-14	R2922386
Sodium (Na)-Total	1.1		1.0	mg/L		19-AUG-14	R2922386
Strontium (Sr)-Total	0.0103		0.00010	mg/L		19-AUG-14	R2922386
Thallium (TI)-Total	<0.00010		0.00010	mg/L		19-AUG-14	R2922386
Tin (Sn)-Total	<0.050		0.050	mg/L		19-AUG-14	R2922386
Titanium (Ti)-Total	0.0247		0.0010	mg/L		19-AUG-14	R2922386
Uranium (U)-Total	<0.00010		0.00010	mg/L		19-AUG-14	R2922386
Vanadium (V)-Total	0.0011		0.0010	mg/L		19-AUG-14 19-AUG-14	R2922386
Zinc (Zn)-Total  Miscellaneous Parameters	<0.0040		0.0040	mg/L		19-AUG-14	R2922386
Ammonia, Total (as N)	<0.050		0.050	mg/L		18-AUG-14	R2922152
Oil and Grease				•			
	<1.0		1.0	mg/L		18-AUG-14	R2922128
Total Organic Carbon	1.6		1.0	mg/L	44 4110 44	19-AUG-14	R2922966
Phosphorus (P)-Total	<0.020		0.020	mg/L	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	<3.0		3.0	mg/L		15-AUG-14	R2921185
Turbidity	13.3		0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity	6.50		0.40	n! !		14 110 14	D0040044
pH	6.56		0.10	рН		14-AUG-14	R2916844

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1500733-30 CH6 OUTFLOW							
Sampled By: KL on 09-AUG-14 @ 12:00							
Matrix: Surface Water							
pH, Conductivity and Total Alkalinity							
Conductivity (EC)	15.8		0.20	uS/cm		14-AUG-14	R2916844
Bicarbonate (HCO3)	<5.0		5.0	mg/L		14-AUG-14	R2916844
Carbonate (CO3)	<5.0		5.0	mg/L		14-AUG-14	R2916844
Hydroxide (OH)	<5.0		5.0	mg/L		14-AUG-14	R2916844
Alkalinity, Total (as CaCO3)	3.4		2.0	mg/L		14-AUG-14	R2916844
Total Nitrogen							
Nitrate as N by IC							
Nitrate (as N)	0.363		0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite							
Nitrate and Nitrite (as N)	0.363		0.054	mg/L		15-AUG-14	
Nitrite as N by IC	0.000					40 110 44	D0047000
Nitrite (as N)	<0.020		0.020	mg/L		13-AUG-14	R2917262
<b>TKN in Water by Colour</b> Total Kjeldahl Nitrogen	-0.20		0.20	ma/l	20 ALIG 14	20 ALIG 14	P2022760
,	<0.20		0.20	mg/L	20-AUG-14	20-AUG-14	R2923769
Total Nitrogen (Calculation) Total Nitrogen	0.36		0.21	mg/L		20-AUG-14	
	0.00	1	0.21	1119/L		20 7.00-14	
Sampled By: KL on 08-AUG-14 @ 12:00							
Matrix: Surface Water							
TOT Metals CCME Fresh Water Aquatic Life							
Hardness (from Total Ca and Mg) Hardness (as CaCO3)	<1.3			mg/L		19-AUG-14	
	<1.5			IIIg/L		19-200-14	
Mercury (Hg) Mercury (Hg)-Total	<0.000050		0.0000050	mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)	10.000000		0.000000	9 =			112020102
Cadmium (Cd)-Total	< 0.000010		0.000010	mg/L		19-AUG-14	R2922386
Total Metals in Water by CRC ICPMS				· ·			
Aluminum (AI)-Total	0.0591		0.0050	mg/L		19-AUG-14	R2922386
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		19-AUG-14	R2922386
Arsenic (As)-Total	<0.00040		0.00040	mg/L		19-AUG-14	R2922386
Barium (Ba)-Total	< 0.0030		0.0030	mg/L		19-AUG-14	R2922386
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		19-AUG-14	R2922386
Boron (B)-Total	<0.050		0.050	mg/L		19-AUG-14	R2922386
Calcium (Ca)-Total	<0.50		0.50	mg/L		19-AUG-14	R2922386
Chromium (Cr)-Total	<0.0010		0.0010	mg/L		19-AUG-14	R2922386
Cobalt (Co)-Total Copper (Cu)-Total	<0.0020		0.0020	mg/L		19-AUG-14 19-AUG-14	R2922386
Iron (Fe)-Total	<0.0010		0.0010	mg/L			R2922386
Lead (Pb)-Total	0.056 <0.00010		0.010 0.00010	mg/L		19-AUG-14 19-AUG-14	R2922386 R2922386
Lithium (Li)-Total	<0.00010 <0.010		0.00010	mg/L mg/L		19-AUG-14 19-AUG-14	R2922386 R2922386
Magnesium (Mg)-Total	<0.010 0.13		0.010	mg/L		19-AUG-14 19-AUG-14	R2922386
Manganese (Mn)-Total	<0.0020		0.10	mg/L		19-AUG-14	R2922386
Molybdenum (Mo)-Total	<0.0020		0.0020	mg/L		19-AUG-14	R2922386
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		19-AUG-14	R2922386
Potassium (K)-Total	<0.50		0.50	mg/L		19-AUG-14	R2922386
Selenium (Se)-Total	<0.00040		0.00040	mg/L		19-AUG-14	R2922386
Silver (Ag)-Total	<0.000020		0.000020	mg/L		19-AUG-14	R2922386
Sodium (Na)-Total	<1.0		1.0	mg/L		19-AUG-14	R2922386
				mg/L		19-AUG-14	R2922386
Strontium (Sr)-Total	0.00199		0.00010	iiig/∟			I VEGEEGGG
Strontium (Sr)-Total Thallium (TI)-Total	0.00199 <0.00010		0.00010	mg/L		19-AUG-14	R2922386

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1500733-31 DUPLICATE 1							
Sampled By: KL on 08-AUG-14 @ 12:00							
' '							
Matrix: Surface Water							
Total Metals in Water by CRC ICPMS	0.000		0.0040			40 1110 44	Boooss
Titanium (Ti)-Total	0.0038		0.0010	mg/L		19-AUG-14	R2922386
Uranium (U)-Total Vanadium (V)-Total	<0.00010		0.00010	mg/L		19-AUG-14	R2922386
,	<0.0010		0.0010	mg/L		19-AUG-14	R2922386
Zinc (Zn)-Total Miscellaneous Parameters	<0.0040		0.0040	mg/L		19-AUG-14	R2922386
	0.050		0.050	/1		40 0110 44	D0000450
Ammonia, Total (as N)	<0.050		0.050	mg/L		18-AUG-14	R2922152
Oil and Grease	<1.0		1.0	mg/L		18-AUG-14	R2922128
Total Organic Carbon	<1.0		1.0	mg/L		19-AUG-14	R2922966
Phosphorus (P)-Total	<0.020		0.020	mg/L	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	<3.0		3.0	mg/L		15-AUG-14	R2921185
Turbidity	1.56		0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity							
рН	5.33		0.10	рН		14-AUG-14	R2916844
Conductivity (EC)	6.14		0.20	uS/cm		14-AUG-14	R2916844
Bicarbonate (HCO3)	<5.0		5.0	mg/L		14-AUG-14	R2916844
Carbonate (CO3)	<5.0		5.0	mg/L		14-AUG-14	R2916844
Hydroxide (OH)	<5.0		5.0	mg/L		14-AUG-14	R2916844
Alkalinity, Total (as CaCO3)	<2.0		2.0	mg/L		14-AUG-14	R2916844
Total Nitrogen							
Nitrate as N by IC							
Nitrate (as N)	0.216		0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite				/1		45 4110 44	
Nitrate and Nitrite (as N)	0.216		0.054	mg/L		15-AUG-14	
Nitrite as N by IC	0.000		0.000	/1		12 110 11	D0047000
Nitrite (as N)	<0.020		0.020	mg/L		13-AUG-14	R2917262
<b>TKN in Water by Colour</b> Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	20-AUG-14	20-AUG-14	R2923769
Total Nitrogen (Calculation)	<0.20		0.20	mg/L	20 700-14	20 700 14	112923709
Total Nitrogen (Calculation)	0.22		0.21	mg/L		20-AUG-14	
L1500733-32 DUPLICATE 2	0.22		0.2.				
·							
Matrix: Surface Water							
TOT Metals CCME Fresh Water Aquatic Life Hardness (from Total Ca and Mg)							
Hardness (Irom Total Ca and Mg)	<1.3			mg/L		18-AUG-14	
Mercury (Hg)	\1.5			ilig/L		10 700-14	
Mercury (Hg) Mercury (Hg)-Total	<0.000050		0.0000050	mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)	13.000000		2.000000	g, =			
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L		17-AUG-14	R2920902
Total Metals in Water by CRC ICPMS				5			
Aluminum (Al)-Total	0.0221		0.0050	mg/L		17-AUG-14	R2920902
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Arsenic (As)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Barium (Ba)-Total	<0.0030		0.0030	mg/L		17-AUG-14	R2920902
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Boron (B)-Total	<0.050		0.050	mg/L		17-AUG-14	R2920902
Calcium (Ca)-Total	<0.50		0.50	mg/L		17-AUG-14	R2920902
Chromium (Cr)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		17-AUG-14	R2920902
Copper (Cu)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Iron (Fe)-Total	0.022		0.010	mg/L		17-AUG-14	R2920902

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier* D.L.	Units	Extracted	Analyzed	Batch
L1500733-32 DUPLICATE 2						
Sampled By: KL on 09-AUG-14 @ 12:00						
Matrix: Surface Water						
Total Metals in Water by CRC ICPMS						
Lead (Pb)-Total	<0.00010	0.00010	mg/L		17-AUG-14	R2920902
Lithium (Li)-Total	<0.010	0.010	mg/L		17-AUG-14	R2920902
Magnesium (Mg)-Total	0.19	0.10	mg/L		17-AUG-14	R2920902
Manganese (Mn)-Total	0.0029	0.0020	mg/L		17-AUG-14	R2920902
Molybdenum (Mo)-Total	<0.0050	0.0050	mg/L		17-AUG-14	R2920902
Nickel (Ni)-Total	<0.0020	0.0020	mg/L		17-AUG-14	R2920902
Potassium (K)-Total	<0.50	0.50	mg/L		17-AUG-14	R2920902
Selenium (Se)-Total Silver (Ag)-Total	<0.00040 <0.000020	0.00040 0.000020	mg/L mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Sodium (Na)-Total	<1.0	1.0	mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Strontium (Sr)-Total	0.00241	0.00010	mg/L		17-AUG-14	R2920902
Thallium (TI)-Total	<0.00010	0.00010	mg/L		17-AUG-14	R2920902
Tin (Sn)-Total	<0.050	0.050	mg/L		17-AUG-14	R2920902
Titanium (Ti)-Total	0.0016	0.0010	mg/L		17-AUG-14	R2920902
Uranium (U)-Total	<0.00010	0.00010	mg/L		17-AUG-14	R2920902
Vanadium (V)-Total	<0.0010	0.0010	mg/L		17-AUG-14	R2920902
Zinc (Zn)-Total	<0.0040	0.0040	mg/L		17-AUG-14	R2920902
Miscellaneous Parameters	0.050	0.050			40 110 44	D0000450
Ammonia, Total (as N)	<0.050	0.050	mg/L		18-AUG-14	R2922152
Oil and Grease	<1.0	1.0	mg/L		18-AUG-14	R2922128
Total Organic Carbon	<1.0	1.0	mg/L	14 0110 14	19-AUG-14	R2922966
Phosphorus (P)-Total Total Suspended Solids	<0.020	0.020	mg/L	14-AUG-14	15-AUG-14 15-AUG-14	R2920505
Turbidity	<3.0 0.62	3.0	mg/L NTU		13-AUG-14	R2921185
pH, Conductivity and Total Alkalinity	0.62	0.10	NIO		13-AUG-14	R2917244
pH	6.14	0.10	рН		14-AUG-14	R2916844
Conductivity (EC)	5.18	0.20	uS/cm		14-AUG-14	R2916844
Bicarbonate (HCO3)	<5.0	5.0	mg/L		14-AUG-14	R2916844
Carbonate (CO3)	<5.0	5.0	mg/L		14-AUG-14	R2916844
Hydroxide (OH)	<5.0	5.0	mg/L		14-AUG-14	R2916844
Alkalinity, Total (as CaCO3)	<2.0	2.0	mg/L		14-AUG-14	R2916844
Total Nitrogen						
Nitrate as N by IC Nitrate (as N)	<0.050	0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite	\0.030	0.050	mg/∟		10 700-14	112011202
Nitrate and Nitrite (as N)	<0.054	0.054	mg/L		15-AUG-14	
Nitrite as N by IC			-			
Nitrite (as N)	<0.020	0.020	mg/L		13-AUG-14	R2917262
TKN in Water by Colour				00		
Total Kjeldahl Nitrogen	<0.20	0.20	mg/L	20-AUG-14	20-AUG-14	R2923769
Total Nitrogen (Calculation) Total Nitrogen	<0.21	0.21	mg/L		20-AUG-14	
	<u> </u>	0.21	my/L		20-700-14	
L1500733-33 DUPLICATE 3						
Sampled By: KL on 09-AUG-14 @ 12:00						
Matrix: Surface Water TOT Metals CCME Fresh Water Aquatic Life						
Hardness (from Total Ca and Mg)						
Hardness (as CaCO3)	5.0		mg/L		18-AUG-14	
Mercury (Hg)			Č			
Mercury (Hg)-Total	<0.000050	0.0000050	mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)						

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1500733-33 DUPLICATE 3							
Sampled By: KL on 09-AUG-14 @ 12:00							
Matrix: Surface Water							
Total Cd in Water by CCMS (CCME - FAL) Cadmium (Cd)-Total	0.000011	0	0.000010	mg/L		17-AUG-14	R2920902
Total Metals in Water by CRC ICPMS				3			
Aluminum (AI)-Total	0.0207		0.0050	mg/L		17-AUG-14	R2920902
Antimony (Sb)-Total	<0.00040	0	0.00040	mg/L		17-AUG-14	R2920902
Arsenic (As)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Barium (Ba)-Total	0.0038		0.0030	mg/L		17-AUG-14	R2920902
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Boron (B)-Total	<0.050		0.050	mg/L		17-AUG-14	R2920902
Calcium (Ca)-Total Chromium (Cr)-Total	0.94		0.50	mg/L		17-AUG-14	R2920902
Cobalt (Co)-Total	<0.0010 <0.0020		0.0010 0.0020	mg/L mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Copper (Cu)-Total	<0.0020		0.0020	mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Iron (Fe)-Total	0.014		0.0010	mg/L		17-AUG-14 17-AUG-14	R2920902
Lead (Pb)-Total	<0.0010		0.00010	mg/L		17-AUG-14	R2920902
Lithium (Li)-Total	< 0.010		0.010	mg/L		17-AUG-14	R2920902
Magnesium (Mg)-Total	0.63		0.10	mg/L		17-AUG-14	R2920902
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		17-AUG-14	R2920902
Molybdenum (Mo)-Total	< 0.0050		0.0050	mg/L		17-AUG-14	R2920902
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		17-AUG-14	R2920902
Potassium (K)-Total	< 0.50		0.50	mg/L		17-AUG-14	R2920902
Selenium (Se)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Silver (Ag)-Total	<0.000020	0	0.000020	mg/L		17-AUG-14	R2920902
Sodium (Na)-Total	<1.0		1.0	mg/L		17-AUG-14	R2920902
Strontium (Sr)-Total	0.00503		0.00010	mg/L		17-AUG-14	R2920902
Thallium (TI)-Total Tin (Sn)-Total	<0.00010		0.00010 0.050	mg/L		17-AUG-14 17-AUG-14	R2920902
Titanium (Ti)-Total	<0.050 0.0011		0.0010	mg/L mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Uranium (U)-Total	<0.0011		0.0010	mg/L		17-AUG-14	R2920902
Vanadium (V)-Total	<0.0010	1 1	0.0010	mg/L		17-AUG-14	R2920902
Zinc (Zn)-Total	< 0.0040		0.0040	mg/L		17-AUG-14	R2920902
Miscellaneous Parameters				Ü			
Ammonia, Total (as N)	< 0.050		0.050	mg/L		18-AUG-14	R2922152
Oil and Grease	<1.0		1.0	mg/L		18-AUG-14	R2922128
Total Organic Carbon	1.9		1.0	mg/L		19-AUG-14	R2922966
Phosphorus (P)-Total	<0.020		0.020	mg/L	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	<3.0		3.0	mg/L		15-AUG-14	R2921185
Turbidity	0.46		0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity							
pH	5.54		0.10	рН		14-AUG-14	R2916844
Conductivity (EC)	17.6		0.20	uS/cm		14-AUG-14	R2916844
Bicarbonate (HCO3)	<5.0		5.0	mg/L		14-AUG-14	R2916844
Carbonate (CO3)	<5.0		5.0	mg/L		14-AUG-14	R2916844
Hydroxide (OH)	<5.0		5.0	mg/L		14-AUG-14	R2916844
Alkalinity, Total (as CaCO3)  Total Nitrogen	<2.0		2.0	mg/L		14-AUG-14	R2916844
Nitrate as N by IC							
Nitrate as N by IC Nitrate (as N)	<0.050		0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite	10.000		5.555	···• <del>-</del>			
Nitrate and Nitrite (as N)	< 0.054		0.054	mg/L		15-AUG-14	
Nitrite as N by IC				-			
Nitrite (as N)	<0.020		0.020	mg/L		13-AUG-14	R2917262

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1500733-33 DUPLICATE 3							
Sampled By: KL on 09-AUG-14 @ 12:00							
' '							
Matrix: Surface Water							
<b>TKN in Water by Colour</b> Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	20-AUG-14	20-AUG-14	R2923769
Total Nitrogen (Calculation)							
Total Nitrogen	<0.21		0.21	mg/L		20-AUG-14	
L1500733-34 FIELD BLANK							
Sampled By: KL on 09-AUG-14 @ 12:00							
Matrix: Surface Water							
TOT Metals CCME Fresh Water Aquatic Life							
Hardness (from Total Ca and Mg) Hardness (as CaCO3)	<1.3			mg/L		18-AUG-14	
Mercury (Hg)	<1.5			mg/L		10 400 14	
Mercury (Hg)-Total	<0.000050		0.0000050	mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)				J			
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L		17-AUG-14	R2920902
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L		17-AUG-14	R2920902
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Arsenic (As)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Barium (Ba)-Total	<0.0030		0.0030	mg/L		17-AUG-14	R2920902
Beryllium (Be)-Total Boron (B)-Total	<0.0010 <0.050		0.0010 0.050	mg/L mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Calcium (Ca)-Total	<0.050		0.050	mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Chromium (Cr)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Cobalt (Co)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Copper (Cu)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Iron (Fe)-Total	<0.010		0.010	mg/L		17-AUG-14	R2920902
Lead (Pb)-Total	<0.00010		0.00010	mg/L		17-AUG-14	R2920902
Lithium (Li)-Total	<0.010		0.010	mg/L		17-AUG-14	R2920902
Magnesium (Mg)-Total	<0.10		0.10	mg/L		17-AUG-14	R2920902
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		17-AUG-14	R2920902
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		17-AUG-14	R2920902
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		17-AUG-14	R2920902
Potassium (K)-Total	<0.50		0.50	mg/L		17-AUG-14	R2920902
Selenium (Se)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Silver (Ag)-Total	<0.000020		0.000020	mg/L		17-AUG-14	R2920902
Sodium (Na)-Total Strontium (Sr)-Total	<1.0		1.0	mg/L		17-AUG-14 17-AUG-14	R2920902
Thallium (TI)-Total	<0.00010 <0.00010		0.00010 0.00010	mg/L mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Tin (Sn)-Total	<0.00010		0.00010	mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Titanium (Ti)-Total	<0.0010		0.000	mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Uranium (U)-Total	<0.0010		0.00010	mg/L		17-AUG-14	R2920902
Vanadium (V)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Zinc (Zn)-Total	<0.0040		0.0040	mg/L		17-AUG-14	R2920902
Miscellaneous Parameters				-			
Ammonia, Total (as N)	<0.050		0.050	mg/L		18-AUG-14	R2922152
Oil and Grease	<1.0		1.0	mg/L		18-AUG-14	R2922128
Total Organic Carbon	<1.0		1.0	mg/L		20-AUG-14	R2924042
Phosphorus (P)-Total	<0.020		0.020	mg/L	14-AUG-14	15-AUG-14	R2920505
Total Suspended Solids	<3.0		3.0	mg/L		15-AUG-14	R2921185
Turbidity	<0.10		0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity							
pН	5.37	RRV	0.10	рН		13-AUG-14	R2916844

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1500733-34 FIELD BLANK							
Sampled By: KL on 09-AUG-14 @ 12:00							
Matrix: Surface Water							
pH, Conductivity and Total Alkalinity							
Conductivity (EC)	0.98	RRV	0.20	uS/cm		13-AUG-14	R2916844
Bicarbonate (HCO3)	<5.0		5.0	mg/L		13-AUG-14	R2916844
Carbonate (CO3)	<5.0		5.0	mg/L		13-AUG-14	R2916844
Hydroxide (OH)	<5.0		5.0	mg/L		13-AUG-14	R2916844
Alkalinity, Total (as CaCO3)	<2.0		2.0	mg/L		13-AUG-14	R2916844
Total Nitrogen							
Nitrate as N by IC							
Nitrate (as N)	<0.050		0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite							
Nitrate and Nitrite (as N)	<0.054		0.054	mg/L		15-AUG-14	
Nitrite as N by IC	0.000		0.000			40 1110 44	D0047000
Nitrite (as N)	<0.020		0.020	mg/L		13-AUG-14	R2917262
<b>TKN in Water by Colour</b> Total Kieldahl Nitrogen	<0.20		0.20	mg/L	20-AUG-14	20-AUG-14	R2923769
Total Nitrogen (Calculation)	<0.20		0.20	my/L	20-AUG-14	20-AUG-14	112323703
Total Nitrogen	<0.21		0.21	mg/L		20-AUG-14	
L1500733-35 TRAVEL BLANK	-5.21		J.2.	···· <i>y</i> =			
Sampled By: KL on 08-AUG-14 @ 12:00							
Matrix: Surface Water TOT Metals CCME Fresh Water Aquatic Life							
Hardness (from Total Ca and Mg)							
Hardness (as CaCO3)	<1.3			mg/L		18-AUG-14	
Mercury (Hg)				3			
Mercury (Hg)-Total	<0.000050		0.0000050	mg/L		19-AUG-14	R2923482
Total Cd in Water by CCMS (CCME - FAL)							
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L		17-AUG-14	R2920902
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L		17-AUG-14	R2920902
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Arsenic (As)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Barium (Ba)-Total Beryllium (Be)-Total	<0.0030		0.0030	mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Boron (B)-Total	<0.0010 <0.050		0.0010	mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Calcium (Ca)-Total	<0.050		0.050 0.50	mg/L mg/L		17-AUG-14 17-AUG-14	R2920902 R2920902
Chromium (Cr)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Cobalt (Co)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Copper (Cu)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Iron (Fe)-Total	<0.010		0.010	mg/L		17-AUG-14	R2920902
Lead (Pb)-Total	<0.00010		0.00010	mg/L		17-AUG-14	R2920902
Lithium (Li)-Total	<0.010		0.010	mg/L		17-AUG-14	R2920902
Magnesium (Mg)-Total	<0.10		0.10	mg/L		17-AUG-14	R2920902
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		17-AUG-14	R2920902
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		17-AUG-14	R2920902
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		17-AUG-14	R2920902
Potassium (K)-Total	<0.50		0.50	mg/L		17-AUG-14	R2920902
Selenium (Se)-Total	<0.00040		0.00040	mg/L		17-AUG-14	R2920902
Silver (Ag)-Total	<0.000020		0.000020	mg/L		17-AUG-14	R2920902
Sodium (Na)-Total	<1.0		1.0	mg/L		17-AUG-14	R2920902
Strontium (Sr)-Total Thallium (TI)-Total	<0.00010		0.00010	mg/L		17-AUG-14	R2920902
Tin (Sn)-Total	<0.00010 <0.050		0.00010 0.050	mg/L mg/l		17-AUG-14 17-AUG-14	R2920902 R2920902
1111 (O11)-1 Otal	<0.000		0.000	mg/L		17-400-14	112920902

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1500733-35 TRAVEL BLANK							
Sampled By: KL on 08-AUG-14 @ 12:00							
Matrix: Surface Water							
Total Metals in Water by CRC ICPMS							
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Uranium (U)-Total	<0.00010		0.00010	mg/L		17-AUG-14	R2920902
Vanadium (V)-Total	<0.0010		0.0010	mg/L		17-AUG-14	R2920902
Zinc (Zn)-Total	<0.0040		0.0040	mg/L		17-AUG-14	R2920902
Miscellaneous Parameters	0.050		0.050	/1		40 0110 44	D0000450
Ammonia, Total (as N) Oil and Grease	<0.050 <1.0		0.050 1.0	mg/L		18-AUG-14 18-AUG-14	R2922152 R2922128
Total Organic Carbon	1.6	RRV	1.0	mg/L mg/L		19-AUG-14	R2922126 R2922966
Phosphorus (P)-Total	<0.020	IXIXV	0.020	mg/L	14-AUG-14	15-AUG-14	R2922900 R2920505
Total Suspended Solids	<3.0		3.0	mg/L	14-200-14	15-AUG-14	R2920303
Turbidity	<0.10		0.10	NTU		13-AUG-14	R2917244
pH, Conductivity and Total Alkalinity	30.10		5.10	.410		.57.55	
pH	5.40	RRV	0.10	рН		13-AUG-14	R2916844
Conductivity (EC)	0.79	RRV	0.20	uS/cm		13-AUG-14	R2916844
Bicarbonate (HCO3)	<5.0		5.0	mg/L		13-AUG-14	R2916844
Carbonate (CO3)	<5.0		5.0	mg/L		13-AUG-14	R2916844
Hydroxide (OH) Alkalinity, Total (as CaCO3)	<5.0 <2.0		5.0	mg/L		13-AUG-14 13-AUG-14	R2916844 R2916844
Total Nitrogen	<2.0		2.0	mg/L		13-AUG-14	R2916844
Nitrate as N by IC							
Nitrate (as N)	<0.050		0.050	mg/L		13-AUG-14	R2917262
Nitrate+Nitrite							
Nitrate and Nitrite (as N)	<0.054		0.054	mg/L		15-AUG-14	
Nitrite as N by IC	0.000		0.000			42 410 44	D0047000
Nitrite (as N)	<0.020		0.020	mg/L		13-AUG-14	R2917262
TKN in Water by Colour Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	20-AUG-14	20-AUG-14	R2923769
Total Nitrogen (Calculation)	10.20			3			
Total Nitrogen	<0.21		0.21	mg/L		20-AUG-14	

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

ENVMIN03024

**Reference Information** 

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L1500733 CONTD....

#### Sample Parameter Qualifier Key:

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis

#### **Test Method References:**

-							
ALS Test Code	Matrix	Test Description	Method Reference**				
C TOT ODC ED	Motor	Total Organia Carban	ADUA 5240 D. Instrumental				
C-TOT-ORG-ED	Water	Total Organic Carbon	APHA 5310 B-Instrumental				
CD-T-CCMS-FAL-ED	Water	Total Cd in Water by CCMS (CCME - FAL)	APHA 3030 B&E / EPA SW-846 6020A				
ETL-HARDNESS-TOT-ED	Water	Hardness (from Total Ca and Mg)	APHA 2340 B-Calculation				
HG-T-L-CVAA-ED	Water	Mercury (Hg)	EPA 245.7 / EPA 245.1				
MET-T-CCMS-ED	Water	Total Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A				
N-T-CALC-ED	Water	Total Nitrogen (Calculation)	APHA 4500 N-Calculated				
Total Nitrogen is a calculate	ed paramete	r. Total Nitrogen = Total Kjeldahl Nitrogen + [Nitro	ate and Nitrite (as N)]				
NH3-CFA-ED	Water	Ammonia in Water by Colour	APHA 4500 NH3-NITROGEN (AMMONIA)				
This analysis is carried out using procedures adapted from APHA Method 4500 NH3 "NITROGEN (AMMONIA)". Ammonia is determined using the automated phenate colourimetric method.							
NO2+NO3-CALC-ED	Water	Nitrate+Nitrite	CALCULATION				

NO2-IC-ED Water Nitrite as N by IC APHA 4110 B-ION CHROMATOGRAPHY

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

APHA 4110 B-ION CHROMATOGRAPHY NO3-IC-ED Water Nitrate as N by IC

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

APHA 5520 B HEXANE MTBE EXT. GRAVIME OGG-LLE-ED Water Oil and Grease-Gra

APHA 4500-P PHOSPHORUS P-T-COL-ED Total P in Water by Colour Water

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorus is determined colourimetrically after persulphate digestion of the sample.

pH, Conductivity and Total Alkalinity APHA 4500-H, 2510, 2320

All samples analyzed by this method for pH will have exceeded the 15 minute recommended hold time from time of sampling (field analysis is recommended for pH where highly accurate results are needed)

SOLIDS-TOTSUS-ED Water Total Suspended Solids APHA 2540 D-Gravimetric TKN-CFA-ED TKN in Water by Colour Water APHA 4500-NORG (TKN)

This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total Kjeldahl Nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.

**TURBIDITY-ED** APHA 2130 B-Nephelometer Water **Turbidity** 

The last two letters of the above test code(s) indicate the laboratory that performed analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA
Chain of Custody Numbers	

Chain of Custody Numbers:

1

<sup>\*\*</sup> ALS test methods may incorporate modifications from specified reference methods to improve performance.

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**Reference Information** 

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#### **Test Method References:**

**ALS Test Code** Matrix Method Reference\*\* **Test Description** 

#### **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.

# **APPENDIX B**

## **TETRA TECH EBA'S GENERAL CONDITIONS**



## **GENERAL CONDITIONS**

#### **GEOENVIRONMENTAL REPORT**

This report incorporates and is subject to these "General Conditions".

#### 1.0 USE OF REPORT AND OWNERSHIP

This report pertains to a specific site, a specific development, and a specific scope of work. It is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation from the site or proposed development would necessitate a supplementary investigation and assessment.

This report and the assessments and recommendations contained in it are intended for the sole use of Tetra Tech EBA's client. Tetra Tech EBA does not accept any responsibility for the accuracy of any of the data, the analysis or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than Tetra Tech EBA's Client unless otherwise authorized in writing by Tetra Tech EBA. Any unauthorized use of the report is at the sole risk of the user.

This report is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of Tetra Tech EBA. Additional copies of the report, if required, may be obtained upon request.

#### 2.0 ALTERNATE REPORT FORMAT

Where Tetra Tech EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed Tetra Tech EBA's instruments of professional service), only the signed and/or sealed versions shall be considered final and legally binding. The original signed and/or sealed version archived by Tetra Tech EBA shall be deemed to be the original for the Project.

Both electronic file and hard copy versions of Tetra Tech EBA's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except Tetra Tech EBA. The Client warrants that Tetra Tech EBA's instruments of professional service will be used only and exactly as submitted by Tetra Tech EBA.

Electronic files submitted by Tetra Tech EBA have been prepared and submitted using specific software and hardware systems. Tetra Tech EBA makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

#### 3.0 NOTIFICATION OF AUTHORITIES

In certain instances, the discovery of hazardous substances or conditions and materials may require that regulatory agencies and other persons be informed and the client agrees that notification to such bodies or persons as required may be done by Tetra Tech EBA in its reasonably exercised discretion.

# 4.0 INFORMATION PROVIDED TO TETRA TECH EBA BY OTHERS

During the performance of the work and the preparation of the report, Tetra Tech EBA may rely on information provided by persons other than the Client. While Tetra Tech EBA endeavours to verify the accuracy of such information when instructed to do so by the Client, Tetra Tech EBA accepts no responsibility for the accuracy or the reliability of such information which may affect the report.

