QUARTER BEING REPORTED: <u>July – September 2015</u>

The following information is compiled pursuant to the requirements of Part B, Item 2 of Water Licence No. <u>3AM-GRA1015</u> issued to <u>Government of Nunavut, Department of Community and Government Services (GN-CGS)</u>.

- a) Tabular summaries of all data generated under the Monitoring Program; and
- b) Monthly quantities of fresh water obtained from all sources;

Below are results for Monitoring Program Stations GRA-1 and GRA-3.

Month Reported	Quantity of Water Obtained from all Sources (m ³)	Quantity of Sewage Waste Discharged (Estimated, m ³)					
July	47,836.59	47,836.59					
August	46,181.49	46,181.49					
September	49,707.51	49,707.51					
QUARTER TOTAL	143,725.59	143,725.59					

Note: The sewage discharge volume is considered equal to the volume of water consumption since no metering system exists at the Sewage Treatment Plant.

Below are the results for Monitoring Program Station GRA-6. There was a total water volume of 243,637 m³ transferred from Char River to Nipissar Lake between June 18 and September 11, 2015. Daily volumes can be found in Appendix C.

Month Reported	Water Transferred from Char River to Nipissar Lake (m³)
June	32,381
July	90,983
August	88,619
September	31,654
SEASONAL TOTAL	243,637

As per Part H, Item 5 of the Licence, below is a summary of solids removed from the Sewage Treatment Facility at Monitoring Station Number GRA-4.

Month Reported	Solids Removed from the Sewage Treatment Facility (m³)
July	4
August	4
September	4
QUARTER TOTAL	12

c) Quarterly sampling results from Monitoring Program Station;

Sewage Effluent was sampled at Monitoring Program Station GRA-3 on October 15, 2015. Refer to Appendix A and B for the sampling parameter summary and lab results.

d) The current estimated volume of Nipissar Lake based on water elevation determined at Monitoring Program Station GRA-5.

Golder Associates is currently completing a toolkit for GN-CGS that will provide the current estimated volume from the staff guage installed in Nipissar Lake after freshet 2015 and seasonal level loggers. This toolkit will be available by January 31, 2016.

The below elevation readings were taken from the same benchmark to demonstrate the change in lake elevation over the open water season. The water level in Nipissar Lake increased by 26.99 cm from June 18, 2015 (when pumping from Char River began) to September 25, 2015 (after pumping from Char River had stopped).

Date	Nipissar Lake Elevation (m)	Change in Nipissar Lake Elevation (m)
June 18, 2015	3.146425	-
June 26, 2015	3.115	0.031425
July 7, 2015	3.0940375	0.0523875
July 20, 2015	3.0226	0.123825
July 27, 2015	3.032125	0.1143
August 10, 2015	2.9464	0.200025
August 17, 2015	2.92735	0.219075
September 9, 2015	2.921	0.225425
September 25, 2015	2.87655	0.269875

e) Follow-up regarding inspection/compliance concerns.

The AANDC Inspection took place on June 17, 2015. The inspection report stated "No concerns with sites identified in this inspection report, all information and logs were available during inspection". A copy of the inspection report can be found in Appendix D.

List of Appendices

Appendix A: Summary of GRA-3 Sampling Parameters – 1 page

Appendix B: Certificate of Analysis, October 15, 2015 – 6 pages

Appendix C: Char River Water Pumped to Nipissar Lake, with Elevations – 3 pages

Appendix D: 3AM-GRA1015 AANDC Inspection Report 2015 – 2 pages

Appendix A: Summary of GRA-3 Sampling Parameters

GN-CGS Rankin Inlet Monitoring Stations and Sampling Parameters for Licence No. 3AM-GRA1015

			GRA-3								
Parameters	Unit	Detection Limit	30-Mar-15	CCME Guideline ¹							
BOD ₅	mg/L	6.0	32.1	520	95	N/G					
Fecal Coliforms	MPN/100mL	3	>110000	>110000	>110000	N/G					
рН	pH units	0.10	7.93	5.61	7.14	7.0-8.7					
Conductivity	umhos/cm	20	736	861	595	N/G					
Total Suspended Solids	mg/L	5.0	85.0	11300.0	73.0	Compare to background levels					
Ammonia Nitrogen	mg/L	1.0	736	9.4	12.2	N/G					
Nitrate-Nitrite	mg/L	0.070	<0.070	<0.070	<0.070	N/G					
Oil and Grease	mg/L	2.0	19.9	896	23	N/G					
Total Phenols	mg/L	0.0010	0.0095	0.027	0.093	N/G					
Sulphate	mg/L	0.30	36	17.4	29.6	N/G					
Sodium	mg/L	0.030	56.2	35.2	37.8	N/G					
Potassium	mg/L	0.020	10.9	16.9	10.7	N/G					
Magnesium	mg/L	0.010	10.3	16.3	6.02	N/G					
Calcium	mg/L	0.10	39	106.0	26.9	N/G					
Total Arsenic	mg/L	0.00020	0.00123	<0.020	0.00096	0.0125					
Total Cadmium	mg/L	0.000010	0.000108	0.0023	0.000161	0.00012					
Total Copper	mg/L	0.00020	0.147	2.81	0.145	0.004					
Total Chromium	mg/L	0.0010	<0.0010	<0.10	<0.0010	0.0015					
Total Iron	mg/L	0.10	0.44	<10	0.30	N/G					
Total Lead	mg/L	0.000090	0.000789	0.0785	0.00108	N/G					
Total Mercury	mg/L	0.00020	<0.00020	<0.00040	<0.00020	0.000016					
Total Nickel	mg/L	0.0020	0.0027	<0.20	0.0026	N/G					
Total Zinc	mg/L	0.0020	0.0960	3.2600	0.0807	N/G					

¹Canadian Environmental Quality Guidelines - Water Quality Guidelines for the Protection of Aquatic Life, Marine N/G - No Guideline

Appendix B: Certificate of Analysis, October 15, 2015



Nunavut - Community & Government

Services - Rankin Inlet

ATTN: JOE STRICKLAND - FACILITY MGR

P.O. Box 490

Rankin Inlet NU XOC 0G0

Date Received: 16-OCT-15

Report Date: 30-OCT-15 13:22 (MT)

Version: FINAL

Client Phone: 867-645-8158

Certificate of Analysis

Lab Work Order #: L1688882
Project P.O. #: NOT SUBMITTED

Job Reference: C of C Numbers: Legal Site Desc:

Hua Wo

Chemistry Laboratory Manager

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

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721

ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1688882-1 GRA-3							
Sampled By: MEGAN LUSTY on 15-OCT-15 @ 13:30							
Matrix: WW							
Miscellaneous Parameters							
Total Organic Carbon	33.6		0.50	mg/L		29-OCT-15	R3299953
Nunavut WW Group 1							
Alkalinity, Bicarbonate	400		4.0	/1		00 OOT 45	
Bicarbonate (HCO3) Alkalinity, Carbonate	183		1.2	mg/L		26-OCT-15	
Carbonate (CO3)	<0.60		0.60	mg/L		26-OCT-15	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		26-OCT-15	
Ammonia by colour Ammonia, Total (as N)	12.2		1.0	mg/L		19-OCT-15	R3292551
Biochemical Oxygen Demand (BOD)	12.2		1.0	IIIg/L		19-001-13	K3292551
Biochemical Oxygen Demand	95	DLA	20	mg/L		16-OCT-15	R3294631
Carbonaceous BOD							
BOD Carbonaceous	88	DLA	20	mg/L		16-OCT-15	R3294631
Chloride in Water by IC Chloride (Cl)	64.1		0.50	mg/L		16-OCT-15	R3293339
Conductivity	04.1		0.50	111g/L		10-001-13	11023003
Conductivity	595		1.0	umhos/cm		23-OCT-15	R3295937
Fecal Coliform							
Fecal Coliforms	>110000		3	MPN/100mL		16-OCT-15	R3296087
Hardness Calculated Hardness (as CaCO3)	92.0		0.30	mg/L		24-OCT-15	
Mercury Total	32.0		0.50	1119/1		24 001 10	
Mercury (Hg)-Total	<0.00020	DLM	0.00020	mg/L	21-OCT-15	21-OCT-15	R3293967
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		16-OCT-15	R3293339
Nitrate+Nitrite Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-OCT-15	
Nitrite in Water by IC	10.07 0		0.070	9/=		2.000	
Nitrite (as N)	<0.010		0.010	mg/L		16-OCT-15	R3293339
Oil and Grease, Total				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00 00T 45	00 00T 45	
Oil and Grease, Total Phenol (4AAP)	23.1		2.0	mg/L	22-OCT-15	22-OCT-15	R3295688
Phenols (4AAP)	0.093	DLM	0.050	mg/L		26-OCT-15	R3297439
Note: DLM: diluted due to unknown							
interferences.							
Phosphorus, Total Phosphorus (P)-Total	3.81		0.050	mg/L		23-OCT-15	R3295338
Sulfate in Water by IC			2.300	g-			
Sulfate (SO4)	29.6		0.30	mg/L		16-OCT-15	R3293339
Total Alkalinity as CaCO3	450		4.0	m a //		22 OCT 45	D2205027
Alkalinity, Total (as CaCO3) Total Metals by ICP-MS	150		1.0	mg/L		23-OCT-15	R3295937
Aluminum (Al)-Total	0.207		0.0050	mg/L	23-OCT-15	23-OCT-15	R3295775
Arsenic (As)-Total	0.00096		0.00020	mg/L	23-OCT-15	23-OCT-15	R3295775
Cadmium (Cd)-Total	0.000161		0.000010	mg/L	23-OCT-15	23-OCT-15	R3295775
Calcium (Ca)-Total	26.9		0.10	mg/L	23-OCT-15	23-OCT-15	R3295775
Chromium (Cr)-Total Cobalt (Co)-Total	<0.0010 0.00035		0.0010 0.00020	mg/L mg/L	23-OCT-15 23-OCT-15	23-OCT-15 23-OCT-15	R3295775 R3295775
Copper (Cu)-Total	0.145		0.00020	mg/L	23-OCT-15	23-OCT-15	R3295775
Iron (Fe)-Total	0.30		0.10	mg/L	23-OCT-15	23-OCT-15	R3295775
Lead (Pb)-Total	0.00108		0.000090	mg/L	23-OCT-15	23-OCT-15	R3295775

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1688882-1 GRA-3							
Sampled By: MEGAN LUSTY on 15-OCT-15 @ 13:30							
Matrix: WW							
Total Metals by ICP-MS							
Magnesium (Mg)-Total	6.02		0.010	mg/L	23-OCT-15	23-OCT-15	R3295775
Manganese (Mn)-Total	0.0423		0.00030	mg/L	23-OCT-15	23-OCT-15	R3295775
Nickel (Ni)-Total	0.0026		0.0020	mg/L	23-OCT-15	23-OCT-15	R3295775
Potassium (K)-Total Sodium (Na)-Total	10.7 37.8		0.020 0.030	mg/L mg/L	23-OCT-15 23-OCT-15	23-OCT-15 23-OCT-15	R3295775 R3295775
Zinc (Zn)-Total	0.0807		0.030	mg/L	23-OCT-15	23-OCT-15 23-OCT-15	R3295775
Total Suspended Solids	0.0007		0.0020	9/ =	20 001 10	20 001 10	110200770
Total Suspended Solids	73.0		5.0	mg/L		22-OCT-15	R3295363
pH							
pH	7.14		0.10	pH units		23-OCT-15	R3295937

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

PAGE 4 of 5 Version: FINAL

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
DLM	Detection Limit Adjusted due to sample matrix effects.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-CO3CO3-CALC-WP	Water	Alkalinity, Carbonate	CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.

ALK-HCO3HCO3-CALC- Water Alkalinity, Bicarbonate CALCULATION

WP

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L

ALK-OHOH-CALC-WP Water Alkalinity, Hydroxide CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.

ALK-TITR-WP Water Total Alkalinity as CaCO3 APHA 2320B

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.

BOD-CBOD-WP Water Carbonaceous BOD APHA 5210 B

Samples are diluted and seeded, have TCMP added to inhibit nitrogenous demands, and then are incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

BOD-WP Water Biochemical Oxygen Demand (BOD) APHA 5210 B

Samples are diluted and seeded and then incubated in airtight bottles at 20°C for 5 days. Dissolved oxygen is measured initially and after incubation, and results are computed from the difference between initial and final DO.

C-TOC-HTC-WP Water Total Organic Carbon by Combustion APHA 5310 B-WP

Analysis is by high temperature combustion using procedures adapted from APHA method 5310 "Total Organic Carbon" NPOC Method.

CL-IC-N-WP Water Chloride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

EC-WP Water Conductivity APHA 2510B

Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

ETL-HARDNESS-TOT-WP Water Hardness Calculated HARDNESS CALCULATED

FC-MPN-WP Water Fecal Coliform APHA 9221E

The Most Probable Number (MPN) method is based on the Multiple Tube Fermentation technique. The results of examination of replicate tubes and dilutions of a sample are reported after confirmations specific to total coliform, fecal coliform and E. coli are performed. Results are reported in MPN/100 mL for water and MPN/gram for food and solid samples.

HG-T-CVAF-WP Water Mercury Total EPA245.7 V2.0

Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.

MET-T-L-MS-WP Water Total Metals by ICP-MS APHA 3030E/EPA 6020A-TL

This analysis involves preliminary sample treatment by hotblock acid digestion (APHA 3030E). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

NH3-COL-WP Water Ammonia by colour APHA 4500 NH3 F

L1688882 CONTD....

Reference Information

PAGE 5 of 5 Version: FINAL

Test Method References:

ALS Test Code Matrix Test Description Method Reference**

Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium

nitroprusside and measured colourmetrically.

NO2+NO3-CALC-WP Water Nitrate+Nitrite CALCULATION

NO2-IC-N-WP Water Nitrite in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-N-WP Water Nitrate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

OGG-TOT-WT Water Oil and Grease, Total APHA 5520 B

Sample is extracted with hexane, extract is then evaporated and the residue is weighed to determine total oil and grease.

P-T-COL-WP Water Phosphorus, Total APHA 4500 P PHOSPHORUS

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-WP Water pH APHA 4500H

The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a

reference electrode.

PHENOLS-4AAP-WT Water Phenol (4AAP) EPA 9066

An automated method is used to distill the sample. The distillate is then buffered to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a

red complex which is measured colorimetrically.

SO4-IC-N-WP Water Sulfate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

SOLIDS-TOTSUS-WP Water Total Suspended Solids APHA 2540 D (modified)

Total suspended solids in aquesous matrices is determined gravimetrically after drying the residue at 103 105°C.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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

Laboratory Definition Code Laboratory Location

WP ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

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.

Chain of Custody (COC) / Analytical

Request Form



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Appendix C: Char River Water Pumped to Nipissar Lake, with Elevations



Char River Water Pumped to Nipissar Lake Water Licence No. 3AM-GRA1015 GRA-6

		Flow Meter	Daily Volume	The state of the s		Nipissar Lake Elevations		n Elevation*	
Date	Time	Reading (m ³)	Pumped (m³)	Pumped (m ³)	(inches)	(m)	(inches)	(m)	
18-Jun-15	11:40 AM	7	-	-					
19-Jun-15	9:05 AM	2651	2644	2644	123.875	3.146425			
20-Jun-15	7:45 AM	5427	2776	5420					
21-Jun-15	8:00 AM	8399	2972	8392					
22-Jun-15	8:30 AM	11367	2968	11360					
23-Jun-15	8:30 AM	14338	2971	14331				•	
24-Jun-15	8:45 AM	17250	2912	17243				•	
25-Jun-15	8:30 AM	20100	2850	20093					
26-Jun-15	9:30 AM	22117	2017	22110	122.5	3.115	1.375	0.031425	
27-Jun-15	8:30 AM	24785	2668	24778					
28-Jun-15	9:45 AM	27909	3124	27902					
29-Jun-15	8:45 AM	29857	1948	29850					
30-Jun-15	9:30 AM	32388	2531	32381					
01-Jul-15	9:27 AM	35422	3034	35415					
02-Jul-15	8:55 AM	38373	2951	38366				•	
03-Jul-15	9:14 AM	41440	3067	41433				•	
04-Jul-15	9:50 AM	44545	3105	44538				•	
05-Jul-15	9:39 AM	47555	3010	47548				•	
06-Jul-15	9:03 AM	50498	2943	50491					
07-Jul-15	8:40 AM	53456	2958	53449	121.8125	3.0940375	2.0625	0.052387	
08-Jul-15	7:15 AM	56399	2943	56392				•	
09-Jul-15	9:30 AM	59430	3031	59423				•	
10-Jul-15	8:40 AM	62265	2835	62258				•	
11-Jul-15	8:00 AM	65177	2912	65170					
12-Jul-15	8:30 AM	68242	3065	68235					
13-Jul-15	8:45 AM	71221	2979	71214					
14-Jul-15	9:12 AM	74155	2934						
15-Jul-15	9:30 AM	77054	2899	77047					
16-Jul-15	8:30 AM	79782	2728	79775					
17-Jul-15	8:30 AM	82560	2778	82553					
18-Jul-15	8:50 AM	85443	2883	85436					
19-Jul-15	8:55 AM	88343	2900	88336					
20-Jul-15	8:45 AM	91105	2762	91098	119	3.0226	4.875	0.12382	
21-Jul-15	9:15 AM	94100	2995	94093					
22-Jul-15	9:24 AM	97093	2993	97086					
23-Jul-15	8:45 AM	100028	2935	100021					
24-Jul-15	9:15 AM	102463	2435	102456					
25-Jul-15	8:30 AM	105848	3385	105841					
26-Jul-15	8:45 AM	108779	2931	108772					
27-Jul-15	9:13 AM	111764	2985	111757	119.375	3.032125	4.5	0.1143	

28-Jul-15								
29-Jul-15		117609	5845	117602				
30-Jul-15		121007	3398	121000				
31-Jul-15		123371	2364	123364				
01-Aug-15		126016	2645	126009				
02-Aug-15		128880	2864	128873				
03-Aug-15		131766	2886	131759				
04-Aug-15		134796	3030	131739				
05-Aug-15		137481	2685	137474				
06-Aug-15	10:15 AM	140815	3334	140808				
07-Aug-15		140013	3334	140000				
08-Aug-15		146307	5492	146300				
09-Aug-15	9:00 AM	149293	2986	149286				
10-Aug-15		152211	2918	152204	116	2.9464	7.875	0.200025
11-Aug-15		155111	2900	155104	110	2.3404	7.873	0.200023
12-Aug-15		157952	2841	157945				
13-Aug-15		160865	2913	160858				
14-Aug-15		164003	3138	163996				
15-Aug-15	9:00 AM	166860	2857	166853				
16-Aug-15		169386	2526	169379				
17-Aug-15	9:30 AM	172412	3026	172405	115.25	2.92735	8.625	0.219075
18-Aug-15		175233	2821	175226	113.23	2.92733	6.023	0.219075
19-Aug-15		178103	2870	178096				
20-Aug-15		181668	3565	181661				
21-Aug-15		183875	2207	183868				
21-Aug-15 22-Aug-15		1030/3	2207	103000				
23-Aug-15								
24-Aug-15		192316	8441	192309				
25-Aug-15	8:45 AM	195029	2713	195022				
26-Aug-15		197817	2713	197810				
27-Aug-15		200671	2854	200664				
28-Aug-15		203919	3248	200004				
29-Aug-15		206359	2440	206352				
30-Aug-15		200339	2767	200332				
31-Aug-15		211990	2864	211983				
01-Sep-15		211990	2831	211965				
02-Sep-15		217639	2818	217632				
03-Sep-15		21/039	2010	21/032				
04-Sep-15								
05-Sep-15								
06-Sep-15								
07-Sep-15								
08-Sep-15								
09-Sep-15					115	2.921	8.875	0.225425
10-Sep-15					113	2.321	5.575	0.225 725
11-Sep-15	2:19 PM	243644	26005	243637				
12-Sep-15		213011	20003	2 +3037				
13-Sep-15								
14-Sep-15								
15-Sep-15								
16-Sep-15								
10 Зер-13	1							

17-Sep-15						
18-Sep-15						
19-Sep-15						
20-Sep-15						
21-Sep-15						
22-Sep-15						
23-Sep-15						
24-Sep-15						
25-Sep-15			113.25	2.87655	10.625	0.269875

*from first reading

Last day of pumping

Appendix D: 3AM-GRA1015 AANDC Inspection Report 2015



ENVIRONMENTAL INSPECTION FORM

\times	Original
	Follow-Up Report

Licensee			Licensee Representative				
Government of Nunavut, Community and			Megan Lusty, Municipal Planning E.I.T.				
Government Se	ervices	Rob	Rob Hogan , Plant Operations Engineer				
Licence No. / Expiry		Repres	Representative's Title				
3AM-GRA1015	•	·	-	nning Engineer-in-	Training		
Land / Other Authorization	ns	Land /	Other Authorizat	tions			
Date of Inspection		Inched	04				
17/6/2015		Inspect Atus	or at Shouldi	CO.		_	
Activities Inspected		Atuc	at Siloului				
Camp	☐ Drilling	Mining	Construction	Reclamation	∑ Fuel Storage		
Roads/Hauling	Other: Water Di	scharge	Other:Water Su	pply/ Waste discharge			
Conditions: A -	Acceptable	C - Concern U - Unac	eptable	NA – Not Applicable	NI – Not Inspec	ted	
Water Use	Condition Comm			Comment Haz/Mat Manag		omment	
Intake/Screen	Α	Water Management Structur		Storage	NI		
Flow Measure. Device		Culverts / Bridges	NA	Spills	NI		
Source:	A	Drainage	NA	Spill Plan	NI		
Water Use:	A	Erosion / Sediment	Α				
Recirculation (y /n)	Y	Mitigation Measures	Α	Administrative			
		Reclamation Activities	N/A	Records	A		
		Materials Storage	A	Reports	A		
Waste Disposal		Signage	A	Plans	A		
Waste Water	A	Manitarina		Notifications	A		
Solid Waste	A	Monitoring	is NI	Other			
Hazardous Waste	A	Sample Collection / Analys	is NI				
:	*The number in th	ne comments field will correspo	nd with specifi	ic comments provided held	214/		
				-	, , , , , , , , , , , , , , , , , , ,		
Samples taken by Inspector: Location(s): Rankin Inlet, Char River, Nipisar Lake.							
DV DN-							
Yes No							
	◯ Comments	Non-Compliance	with Act or	Licence A	tion Required		
SECTION 1	Comments	Non-Compliance	e with Act or l	Licence Ac	ction Required		
SECTION 1 Inspectors Statem	<u>ent</u>						
SECTION 1 Inspectors Statem An Inspection was con	nent nducted on June	17 th 2015 in the Hamlet of Rank	in Inlet of Gov	vernment of Nunavut, Cor	nmunity and		
SECTION 1 Inspectors Statem An Inspection was con Government Services	nent nducted on June licence 3AM-GRA	17 th 2015 in the Hamlet of Rank A1015. Megan Lusty (Municipal	in Inlet of Gov Planning E.I.T	vernment of Nunavut, Cor .) and Rob Hogan (Plant C	nmunity and)	
SECTION 1 Inspectors Statem An Inspection was congovernment Services accompanied Inspect	nducted on June licence 3AM-GRA or Atuat Shouldic	17 th 2015 in the Hamlet of Rank A1015. Megan Lusty (Municipal e to the various sites permitted	in Inlet of Gov Planning E.I.T under licence	vernment of Nunavut, Cor .) and Rob Hogan (Plant O e 3AM-GRA1015.	nmunity and perations Engineer)		
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Nipisar Pump Station

Water is recirculated from Williamson Lake pump station back to Nipisar pump station in a closed loop to prevent freezing. The recirculated water does not re-enter the lake but stays in a loop between pump stations.

Observations

- 1. Intake hose
 - a. No concerns. Intake pipes located off the bottom of lake. The intake hose was equipped with ¼in mesh screens.
- 2. Water log sheets/O&M manuals/spill plan.
 - a. No concerns. All logs were up to date and manuals were available for inspectors review.
- 3. Fuel on site
 - a. No concerns. The fuel tank for the pump house is located in a secondary containment berm beside the pump station. No signs of erosion were visible in the berm.
- 4. Sampling/Sites signage
 - a. No Concerns. Sampling sites were identified

Sewage Plant

Solids are collected every Thursday and average approximately one cubic meter a week. The solids are disposed of into a trench in a designed "sewage screenings" area at the Hamlet of Rankin Inlet Municipal Dump as authorized with the written agreement with the Hamlet of Rankin Inlet water licence.

Observations

- 1. Out flow hose
 - a. No concerns noted. Recent repairs were made to the discharge pipe and diffuser to better displace the sewage effluent and allow for better distribution in to the environment.
- 2. Water log sheets/O&M manuals/spill plan.
 - a. No concerns. All logs were up to date and manuals were available for inspectors review.
- 3. Fuel on site
 - a. No concerns. No fuel or spills were observed during the inspection.
- 4. Sampling/Site signage
 - a. No Concerns. All required signage was posted

SECTION 3 Comments N	on-Compliance with Act or	Licence	Action Required			
No concerns with sites identified in this inspection report, all information and logs were available during inspection.						
Inspector's Name	Inspector's Name					
Atuat Shouldice						
Signature	Signature					
-Alux Shoulds	ie					
Date	Date					
June 17 th 2015						
·			·			
Office Use Only: Follow-up report to be issued by Inspector		☐ Yes 🛛 No				

