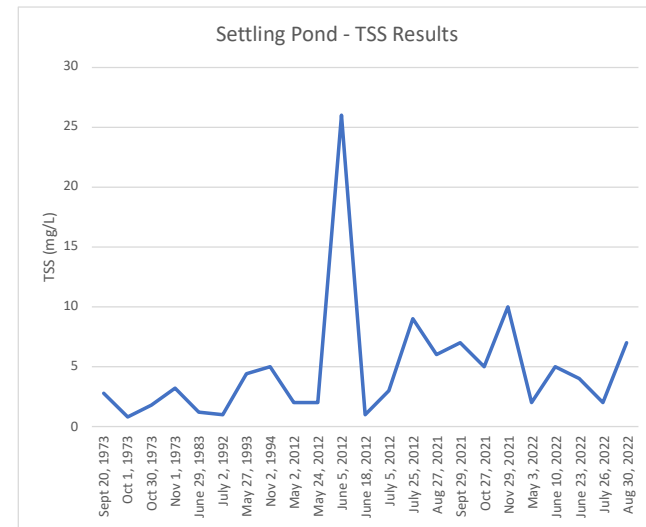
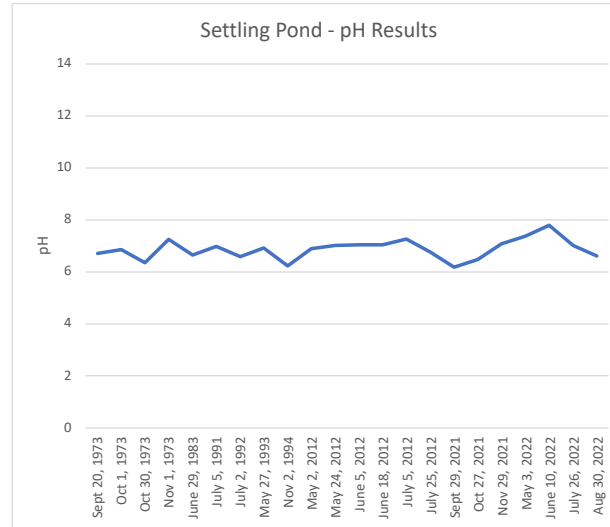


Appendix A



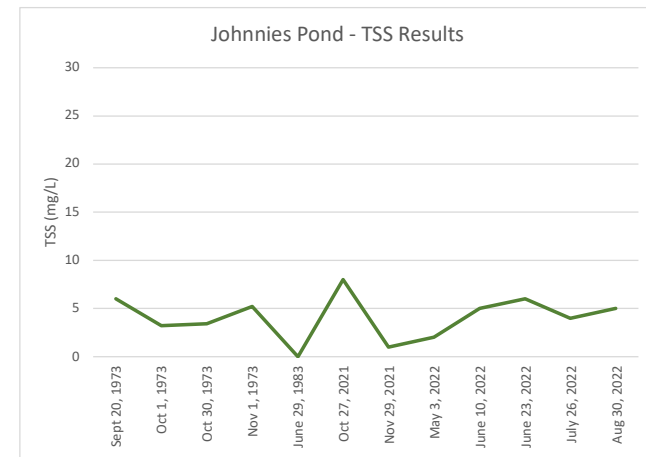
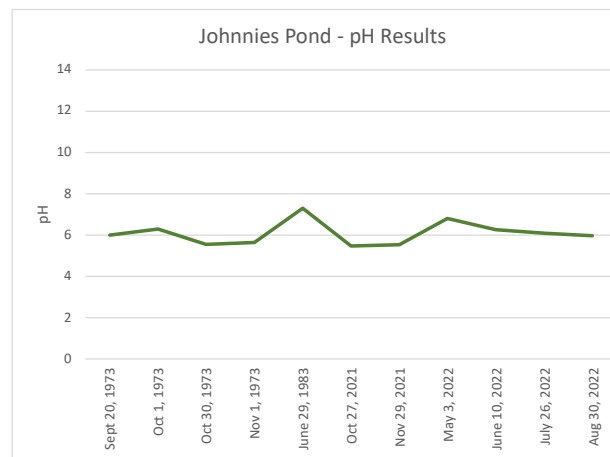
pH/TSS Results of Settling Pond Monthly Water Samples

Date	Location	pH	TSS
Sept 20, 1973	Settlement Pond	6.7	2.8
Oct 1, 1973	Settlement Pond	6.85	0.8
Oct 30, 1973	Settlement Pond	6.35	1.8
Nov 1, 1973	Settlement Pond	7.25	3.2
June 29, 1983	Settlement Pond	6.65	1.2
July 5, 1991	Settlement Pond	6.98	< 1
July 2, 1992	Settlement Pond	6.58	1
May 27, 1993	Settlement Pond	6.91	4.4
Nov 2, 1994	Settlement Pond	6.23	5
May 2, 2012	Settlement Pond	6.9	2
May 24, 2012	Settlement Pond	7.01	2
June 5, 2012	Settlement Pond	7.04	26
June 18, 2012	Settlement Pond	7.04	1
July 5, 2012	Settlement Pond	7.26	3
July 25, 2012	Settlement Pond	6.76	9
Aug 27, 2021	Settlement Pond	NA	6
Sept 29, 2021	Settlement Pond	6.18	7
Oct 27, 2021	Settlement Pond	6.47	5
Nov 29, 2021	Settlement Pond	7.08	10
May 3, 2022	Settlement Pond	7.37	2
June 10, 2022	Settlement Pond	7.79	5
June 23, 2022	Settlement Pond	NA	4
July 26, 2022	Settlement Pond	7.01	2
Aug 30, 2022	Settlement Pond	6.61	7



pH/TSS Results of Johnnies Pond Monthly Water Samples

Date	Location	pH	TSS
Sept 20, 1973	Johnnies Pond	6	6
Oct 1, 1973	Johnnies Pond	6.3	3.2
Oct 30, 1973	Johnnies Pond	5.55	3.4
Nov 1, 1973	Johnnies Pond	5.65	5.2
June 29, 1983	Johnnies Pond	7.3	< 1
Oct 27, 2021	Johnnies Pond	5.47	8
Nov 29, 2021	Johnnies Pond	5.53	1
May 3, 2022	Johnnies Pond	6.81	2
June 10, 2022	Johnnies Pond	6.27	5
June 23, 2022	Johnnies Pond	NA	6
July 26, 2022	Johnnies Pond	6.1	4
Aug 30, 2022	Johnnies Pond	5.98	5



CERTIFICATE OF ANALYSIS

Customer: Holly Doucette
Trinity Performance Minerals
250 Minerals Road
CBS, NL A1W 3J1
(709) 834-0563

Sample: Effluent – 1 Sample
Date Received: 27-Aug-21
Date Reported: 08-Sep-21
Project No.: 11436
Report ID: WQ6384

Sample Description					Effluent Settlement Pond Aug 27, 2021 10:30am W21-1842	
Sample ID						
Lab ID						
Analysis	Units	RDL	MDL	Analysis Date	Results	Uncertainty Value
INORGANIC ANALYSIS						
TSS	mg/L	3	1	07-Sep-21	6	± 5.33

Comments: The above analyses were conducted according to protocols indicated. For the list of test methods, please refer to the attached 'Appendix – References for Water Quality Analyses'. The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in the strictest of confidence by this firm. The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context. All analyses have a degree of uncertainty. Each parameter's uncertainty value is calculated based on Avalon Laboratories' method validation study and can be found in the Uncertainty Values column above. Uncertainty values should be taken into consideration when deciding if results fall within your required limits. Avalon Laboratories is not responsible for classifying any result as within acceptable limits. The arrival temperature was 16.3°C.

Technical Reviewer:  **Senior Reviewer:** 

QA/QC REPORT												
Analyte	Units	RDL	Method Blank	Reference Material Measured Recovery	Criteria (%)	Lab Fortified Blank Measured Recovery	Criteria (%)	Matrix Spike Measured Recovery	Criteria (%)	Duplicates	RPD	Criteria (%)
INORGANIC ANALYSIS												
TSS	mg/L	3	< 5	-	-	87.1	80-120	-	-	< 3	< 3	NC
												≤ 10

APPENDIX

References for Water Quality Analyses

Analyte	Laboratory Method ID	Reference Method ID
Alkalinity	SOP 15050	Modified SM 2320 B
Ammonia (as N)	SOP 15061	Modified EPA 350.1
Anions	SOP 15038	Modified SM 4110 B
Biochemical Oxygen Demand (BOD)	SOP 15053	Modified SM 5210 B
Carbonaceous Biochemical Oxygen Demand (CBOD)	SOP 15053	Modified SM 5210 B
Chlorine (Free)	SOP 15062	Modified SM 4500-Cl G
Chlorine (Total)	SOP 15062	Modified SM 4500-Cl G
Chemical Oxygen Demand (COD)	SOP 15063	Modified SM 5220 D
Colour (Apparent)	SOP 15058	Modified SM 2120 C
Colour (True)	SOP 15058	Modified SM 2120 C
Conductivity	SOP 15057	SM 2510B
Crude Fat in Seafood	SOP 16075	Modified AOAC 948.15
Dissolved Oxygen	SOP 16069	Modified SM4500-O G
Dissolved Organic Carbon (DOC)	SOP 15064	Modified SM 5310 B
Dry Ash in Seafood	SOP 16072	Modified AOAC 938.08
Haloacetic Acids (HAA)	SOP 19058	Modified EPA 552.3
Heavy Metals in Seafood	SOP 19059	CEM Fish Tissue Mars6
Hexavalent Chromium	SOP 16067	Modified SM 3500-Cr B
Metals	SOP 15036	Modified EPA 200.8
Moisture in Seafood	SOP 16073	Modified AOAC 950.46
pH	SOP 15060	Modified SM 4500-H+ B
Protein in Seafood	SOP 16076	Modified AOAC 928.08
Reactive Silica	SOP 16068	Modified SM4500-Si02 D
Sulfides	SOP 16066	Modified SM 4500-S2- D
Total Dissolved Solids (TDS)	SOP 15056	Modified SM 2540 C
Trihalomethanes (THM)	SOP 19057	Modified EPA 551.1
Total Inorganic Carbon (TIC)	SOP 15064	Modified SM 5310 B
Total Kjeldahl Nitrogen (TKN)	SOP 16071	Modified EPA 351.2
Total Organic Carbon (TOC)	SOP 15064	Modified SM 5310 B
Total Cyanide (SAD)	SOP 16078	Modified EPA 335.2
Total Oil & Grease (TOG)	SOP 16077	Modified SM 5520B
Total Suspended Solids (TSS)	SOP 15055	Modified SM 2540 D
Turbidity	SOP 15054	Modified EPA 180.1

Legend for Acronyms & Symbols:

%	Percent	<	Less than the lowest detection limit for the test
g	Gram	>	Greater than the highest detection limit for the test
mg	Milligram	CU	Colour Unit
ml	Millilitre	NTU	Nephelometric Turbidity Unit
µg	Microgram	RDL	Reporting Detection Limit
meq	Milliequivalents	NC	Not Calculable
		AO/OG	Canadian Drinking Water Guidelines Aesthetic Objective/Operational Guideline

CERTIFICATE OF ANALYSIS

Customer: Holly Doucette
Trinity Performance Minerals
250 Minerals Road
CBS, NL A1W 3J1
(709) 834-0563

Sample: Effluent – 1 Sample
Date Received: 29-Sep-21
Date Reported: 05-Oct-21
Project No.: 11436
Report ID: WQ6528

Sample Description					Effluent Settlement Pond Sept 29, 2021 10:00am W21-2141	
Sample ID Lab ID						
Analysis	Units	RDL	MDL	Analysis Date	Results	Uncertainty Value
INORGANIC ANALYSIS						
TSS	mg/L	3	1	01-Oct-21	7	± 5.33
pH	-	-	-	29-Sep-21	6.18	± 0.02

Comments: The above analyses were conducted according to protocols indicated. For the list of test methods, please refer to the attached 'Appendix – References for Water Quality Analyses'. The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in the strictest of confidence by this firm. The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context. All analyses have a degree of uncertainty. Each parameter's uncertainty value is calculated based on Avalon Laboratories' method validation study and can be found in the Uncertainty Values column above. Uncertainty values should be taken into consideration when deciding if results fall within your required limits. Avalon Laboratories is not responsible for classifying any result as within acceptable limits. The arrival temperature was 18.1°C.

Technical Reviewer: Stephen Fahey **Senior Reviewer:** Alexa Hly

QA/QC REPORT												
Analyte	Units	RDL	Method Blank	Reference Material Measured Recovery	Criteria (%)	Lab Fortified Blank Measured Recovery	Criteria (%)	Matrix Spike Measured Recovery	Criteria (%)	Duplicates	RPD	Criteria (%)
INORGANIC ANALYSIS												
TSS	mg/L	3	< 5	-	-	82.1	80-120	-	-	42	45	6.9
pH	-	-	-	-	-	-	-	-	-	7.94	7.88	0.8

CERTIFICATE OF ANALYSIS

Customer: Holly Doucette
Trinity Performance Minerals
250 Minerals Road
CBS, NL A1W 3J1
(709) 834-0563

Sample: Effluent – 2 Sample(s)
Date Received: 27-Oct-21
Date Reported: 02-Nov-21
Project No.: 11436
Report ID: WQ6649

Sample Description					Effluent		
Sample ID					Settlement Pond Oct 27, 2021 @ 10:30 AM	Johnnies Pond Oct 27, 2021 @ 10:30 AM	
Lab ID					W21-2297	W21-2298	
Analysis	Units	RDL	MDL	Analysis Date	Results		Uncertainty Value
INORGANIC ANALYSIS							
TSS	mg/L	3	1	01-Oct-21	5	8	± 5.33
pH	-	-	-	27-Oct-21	6.47	5.74	± 0.02

Comments: The above analyses were conducted according to protocols indicated. For the list of test methods, please refer to the attached 'Appendix – References for Water Quality Analyses'. The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in the strictest of confidence by this firm. The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context. All analyses have a degree of uncertainty. Each parameter's uncertainty value is calculated based on Avalon Laboratories' method validation study and can be found in the Uncertainty Values column above. Uncertainty values should be taken into consideration when deciding if results fall within your required limits. Avalon Laboratories is not responsible for classifying any result as within acceptable limits.

The arrival temperature was 14.7°C.

Technical Reviewer:

J. J. J.

Senior Reviewer:

Stephen Farley

QA/QC REPORT													
Analyte	Units	RDL	Method Blank	Reference Material Measured Recovery	Criteria (%)	Lab Fortified Blank Measured Recovery	Criteria (%)	Matrix Spike Measured Recovery	Criteria (%)	Duplicates		RPD	Criteria (%)
INORGANIC ANALYSIS													
TSS	mg/L	3	< 5	-	-	100.1	80-120	-	-	8	8	0	≤ 10
pH	-	-	-	-	-	-	-	-	-	7.60	7.62	0.26	≤ 1

APPENDIX

References for Water Quality Analyses

Analyte	Laboratory Method ID	Reference Method ID
Alkalinity	SOP 15050	Modified SM 2320 B
Ammonia (as N)	SOP 15061	Modified EPA 350.1
Anions	SOP 15038	Modified SM 4110 B
Biochemical Oxygen Demand (BOD)	SOP 15053	Modified SM 5210 B
Carbonaceous Biochemical Oxygen Demand (CBOD)	SOP 15053	Modified SM 5210 B
Chlorine (Free)	SOP 15062	Modified SM 4500-Cl G
Chlorine (Total)	SOP 15062	Modified SM 4500-Cl G
Chemical Oxygen Demand (COD)	SOP 15063	Modified SM 5220 D
Colour (Apparent)	SOP 15058	Modified SM 2120 C
Colour (True)	SOP 15058	Modified SM 2120 C
Conductivity	SOP 15057	SM 2510B
Crude Fat in Seafood	SOP 16075	Modified AOAC 948.15
Dissolved Oxygen	SOP 16069	Modified SM4500-O G
Dissolved Organic Carbon (DOC)	SOP 15064	Modified SM 5310 B
Dry Ash in Seafood	SOP 16072	Modified AOAC 938.08
Haloacetic Acids (HAA)	SOP 19058	Modified EPA 552.3
Heavy Metals in Seafood	SOP 19059	CEM Fish Tissue Mars6
Hexavalent Chromium	SOP 16067	Modified SM 3500-Cr B
Metals	SOP 15036	Modified EPA 200.8
Moisture in Seafood	SOP 16073	Modified AOAC 950.46
pH	SOP 15060	Modified SM 4500-H+ B
Protein in Seafood	SOP 16076	Modified AOAC 928.08
Reactive Silica	SOP 16068	Modified SM4500-Si02 D
Sulfides	SOP 16066	Modified SM 4500-S2- D
Total Dissolved Solids (TDS)	SOP 15056	Modified SM 2540 C
Trihalomethanes (THM)	SOP 19057	Modified EPA 551.1
Total Inorganic Carbon (TIC)	SOP 15064	Modified SM 5310 B
Total Kjeldahl Nitrogen (TKN)	SOP 16071	Modified EPA 351.2
Total Organic Carbon (TOC)	SOP 15064	Modified SM 5310 B
Total Cyanide (SAD)	SOP 16078	Modified EPA 335.2
Total Oil & Grease (TOG)	SOP 16077	Modified SM 5520B
Total Suspended Solids (TSS)	SOP 15055	Modified SM 2540 D
Turbidity	SOP 15054	Modified EPA 180.1

Legend for Acronyms & Symbols:

%	Percent	<	Less than the lowest detection limit for the test
g	Gram	>	Greater than the highest detection limit for the test
mg	Milligram	CU	Colour Unit
ml	Millilitre	NTU	Nephelometric Turbidity Unit
µg	Microgram	RDL	Reporting Detection Limit
meq	Milliequivalents	NC	Not Calculable
		AO/OG	Canadian Drinking Water Guidelines Aesthetic Objective/Operational Guideline

CERTIFICATE OF ANALYSIS

Customer: Holly Doucette
Trinity Performance Minerals
250 Minerals Road
CBS, NL A1W 3J1
(709) 834-0563


Sample: Effluent – 2 Sample(s)
Date Received: 29-Nov-21
Date Reported: 06-Dec-21
Project No.: 11436
Report ID: WQ6849

Sample Description					Effluent		
Sample ID					Settlement Pond Nov 29, 2021 @ 2:00 PM	Johnnies Pond Nov 29, 2021 @ 2:00 PM	
Lab ID					W21-2617	W21-2618	
Analysis	Units	RDL	MDL	Analysis Date	Results		Uncertainty Value
INORGANIC ANALYSIS							
TSS	mg/L	3	1	30-Nov-21	10	1	± 5.33
pH	-	-	-	29-Nov-21	7.08	5.53	± 0.02

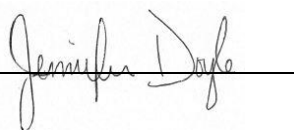
Comments: The above analyses were conducted according to protocols indicated. For the list of test methods, please refer to the attached 'Appendix – References for Water Quality Analyses'. The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in the strictest of confidence by this firm. The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context. All analyses have a degree of uncertainty. Each parameter's uncertainty value is calculated based on Avalon Laboratories' method validation study and can be found in the Uncertainty Values column above. Uncertainty values should be taken into consideration when deciding if results fall within your required limits. Avalon Laboratories is not responsible for classifying any result as within acceptable limits.

The arrival temperature was 9.9°C.

Technical Reviewer:



Senior Reviewer:



QA/QC REPORT												
Analyte	Units	RDL	Method Blank	Reference Material Measured Recovery	Criteria (%)	Lab Fortified Blank Measured Recovery	Criteria (%)	Matrix Spike Measured Recovery	Criteria (%)	Duplicates	RPD	Criteria (%)
INORGANIC ANALYSIS												
TSS	mg/L	3	< 5	-	-	94.0	80-120	-	-	1	1	≤ 10
pH	-	-	-	-	-	-	-	-	-	7.20	7.25	≤ 1

APPENDIX

References for Water Quality Analyses

Analyte	Laboratory Method ID	Reference Method ID
Alkalinity	SOP 15050	Modified SM 2320 B
Ammonia (as N)	SOP 15061	Modified EPA 350.1
Anions	SOP 15038	Modified SM 4110 B
Biochemical Oxygen Demand (BOD)	SOP 15053	Modified SM 5210 B
Carbonaceous Biochemical Oxygen Demand (CBOD)	SOP 15053	Modified SM 5210 B
Chlorine (Free)	SOP 15062	Modified SM 4500-Cl G
Chlorine (Total)	SOP 15062	Modified SM 4500-Cl G
Chemical Oxygen Demand (COD)	SOP 15063	Modified SM 5220 D
Colour (Apparent)	SOP 15058	Modified SM 2120 C
Colour (True)	SOP 15058	Modified SM 2120 C
Conductivity	SOP 15057	SM 2510B
Crude Fat in Seafood	SOP 16075	Modified AOAC 948.15
Dissolved Oxygen	SOP 16069	Modified SM4500-O G
Dissolved Organic Carbon (DOC)	SOP 15064	Modified SM 5310 B
Dry Ash in Seafood	SOP 16072	Modified AOAC 938.08
Haloacetic Acids (HAA)	SOP 19058	Modified EPA 552.3
Heavy Metals in Seafood	SOP 19059	CEM Fish Tissue Mars6
Hexavalent Chromium	SOP 16067	Modified SM 3500-Cr B
Metals	SOP 15036	Modified EPA 200.8
Moisture in Seafood	SOP 16073	Modified AOAC 950.46
pH	SOP 15060	Modified SM 4500-H+ B
Protein in Seafood	SOP 16076	Modified AOAC 928.08
Reactive Silica	SOP 16068	Modified SM4500-Si02 D
Sulfides	SOP 16066	Modified SM 4500-S2- D
Total Dissolved Solids (TDS)	SOP 15056	Modified SM 2540 C
Trihalomethanes (THM)	SOP 19057	Modified EPA 551.1
Total Inorganic Carbon (TIC)	SOP 15064	Modified SM 5310 B
Total Kjeldahl Nitrogen (TKN)	SOP 16071	Modified EPA 351.2
Total Organic Carbon (TOC)	SOP 15064	Modified SM 5310 B
Total Cyanide (SAD)	SOP 16078	Modified EPA 335.2
Total Oil & Grease (TOG)	SOP 16077	Modified SM 5520B
Total Suspended Solids (TSS)	SOP 15055	Modified SM 2540 D
Turbidity	SOP 15054	Modified EPA 180.1

Legend for Acronyms & Symbols:

%	Percent	<	Less than the lowest detection limit for the test
g	Gram	>	Greater than the highest detection limit for the test
mg	Milligram	CU	Colour Unit
ml	Millilitre	NTU	Nephelometric Turbidity Unit
µg	Microgram	RDL	Reporting Detection Limit
meq	Milliequivalents	NC	Not Calculable
		AO/OG	Canadian Drinking Water Guidelines Aesthetic Objective/Operational Guideline



CERTIFICATE OF ANALYSIS

Customer: Holly Doucette
Trinity Performance Minerals
250 Minerals Road
CBS, NL A1W 3J1
(709) 834-0563

Sample: Effluent – 2 Samples(s)
Date Received: 03-May-22
Date Reported: 10-May-22
Project No.: 11436
Report ID: WQ7486

Sample Description				Effluent		
Sample ID				Settlement Pond May 03/22 @ 1:00 PM	Johnnies Pond May 03/22 @ 1:00 PM	
				Lab ID	W22-0736	W22-0737
Analysis	Units	RDL	Analysis Date	Results		Uncertainty Value
INORGANIC ANALYSIS						
pH	-	-	03-May-22	7.37	6.81	± 0.02
TSS	mg/L	3	07-May-22	2	<3	± 5.33

Comments: The above analyses were conducted according to protocols indicated. For the list of test methods, please refer to the attached 'Appendix – References for Water Quality Analyses'. The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in the strictest of confidence by this firm. The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context. All analyses have a degree of uncertainty. Each parameter's uncertainty value is calculated based on Avalon Laboratories' method validation study and can be found in the Uncertainty Values column above. Uncertainty values should be taken into consideration when deciding if results fall within your required limits. Avalon Laboratories is not responsible for classifying any result as within acceptable limits.

The arrival temperature was 20.6°C.

This report and all data included within was reviewed and validated by the following individuals:

Technical Reviewer: Ashley Hillier **Senior Reviewer:** Jennifer Doyle

QA/QC REPORT													
Analyte	Units	RDL	Method Blank	Reference Material Measured Recovery	Criteria (%)	Lab Fortified Blank Measured Recovery	Criteria (%)	Matrix Spike Measured Recovery	Criteria (%)	Duplicates		RPD	Criteria (%)
										No. 1	No. 2		
INORGANIC ANALYSIS													
pH	-	-	-	-	-	-	-	-	-	7.37	7.34	0.4	≤ 1
TSS	mg/L	3	<5	-	-	96.0	80-120	-	-	<3	<3	NC	≤ 10



CERTIFICATE OF ANALYSIS

Customer: Holly Doucette
Trinity Performance Minerals
250 Minerals Road
CBS, NL A1W 3J1
(709) 834-0563

Sample: Effluent – 2 Samples(s)
Date Received: 23-June-22
Date Reported: 08-Jul-22
Project No.: 11436
Report ID: WQ7707

Sample Description				Water		
Sample ID				Settlement Pond		
Lab ID				June 23/22 @11:30 AM		
W22-0997						
Analysis	Units	RDL	Analysis Date	Results	Uncertainty Value	Schedule A Maximum Content ¹
INORGANIC ANALYSIS						
Ammonia (as N)	mg/L	0.02	24-Jun-22	0.033	± 0.23	2.0 mg/L
BOD ₅	mg/L	6	24-Jun-22	2.1	± 4.58	20 mg/L
Chlorine (Total)	mg/L	0.03	23-Jun-22	0.06	± 0.02	1.0 mg/L
Hexavalent Chromium	mg/L	0.015	23-Jun-22	0.008	± 0.019	0.05 mg/L
Cyanide (Total)*	mg/L	0.002	28-Jun-22	<0.002	-	0.025 mg/L
Phenolics*	mg/L	0.002	28-Jun-22	<0.002	-	0.1 mg/L
Sulfide	mg/L	0.015	23-Jun-22	0.008	± 0.280	0.5 mg/L
TDS	mg/L	6	24-Jun-22	50	± 32.98	1000 mg/L
TOG*	mg/L	2	30-Jun-22	<2	-	15 mg/L
TSS	mg/L	3	24-Jun-22	4	± 5.33	30 mg/L
ANIONS ANALYSIS*						
Nitrate (as N)	mg/L	0.005	29-Jun-22	0.23	-	10 mg/L
Phosphates (as P ₂ O ₅)	mg/L	0.05	28-Jun-22	< 0.03	-	1.0 mg/L
TOTAL METALS ANALYSIS*						
Arsenic	mg/L	0.0002	29-Jun-22	0.0005	-	0.5 mg/L
Barium	mg/L	0.00002	29-Jun-22	0.109	-	5.0 mg/L
Boron	mg/L	0.002	29-Jun-22	0.014	-	5.0 mg/L
Cadmium	mg/L	0.000003	29-Jun-22	0.000009	-	0.05 mg/L
Copper	mg/L	0.0002	29-Jun-22	0.0028	-	0.3 mg/L
Iron	mg/L	0.007	29-Jun-22	0.254	-	10 mg/L
Lead	mg/L	0.00009	29-Jun-22	0.00051	-	0.2 mg/L
Mercury	mg/L	0.00001	28-Jun-22	< 0.00001	-	0.005 mg/L
Nickel	mg/L	0.0001	29-Jun-22	0.0004	-	0.5 mg/L
Phosphorus	mg/L	0.003	29-Jun-22	0.020	-	0.0005 mg/L
Selenium	mg/L	0.00004	29-Jun-22	0.00005	-	0.01 mg/L
Silver	mg/L	0.00005	29-Jun-22	< 0.00005	-	0.05 mg/L
Zinc	mg/L	0.002	29-Jun-22	0.003	-	0.5 mg/L
ADDITIONAL PARAMETERS						
Analyte	Result			Schedule A Maximum Content ¹		
Floating debris, oils and grease	None			None to be visible		
Chromium (Trivalent)	0.19			1.0 mg/L		

Sample Description				Water		
Sample ID				Johnnies Pond		
Lab ID				June 23/22 @11:30 AM		
				W22-0998		
Analysis	Units	RDL	Analysis Date	Results	Uncertainty Value	Schedule A Maximum Content ¹
INORGANIC ANALYSIS						
Ammonia (as N)	mg/L	0.02	24-Jun-22	0.028	± 0.23	2.0 mg/L
BOD ₅	mg/L	6	24-Jun-22	0.5	± 4.58	20 mg/L
Chlorine (Total)	mg/L	0.03	23-Jun-22	0.04	± 0.02	1.0 mg/L
Hexavalent Chromium	mg/L	0.015	23-Jun-22	0.019	± 0.019	0.05 mg/L
Cyanide (Total)*	mg/L	0.002	28-Jun-22	<0.002	-	0.025 mg/L
Phenolics*	mg/L	0.002	28-Jun-22	< 0.002	-	0.1 mg/L
Sulfide	mg/L	0.015	23-Jun-22	0.004	± 0.280	0.5 mg/L
TDS	mg/L	6	24-Jun-22	30	± 32.98	1000 mg/L
TOG*	mg/L	2	30-Jun-22	<2	-	15 mg/L
TSS	mg/L	3	24-Jun-22	6	± 5.33	30 mg/L
ANIONS ANALYSIS*						
Nitrate (as N)	mg/L	0.005	29-Jun-22	0.08	-	10 mg/L
Phosphates (as P ₂ O ₅)	mg/L	0.05	28-Jun-22	<0.03	-	1.0 mg/L
TOTAL METALS ANALYSIS*						
Arsenic	mg/L	0.0002	29-Jun-22	0.0006	-	0.5 mg/L
Barium	mg/L	0.00002	29-Jun-22	0.0363	-	5.0 mg/L
Boron	mg/L	0.002	29-Jun-22	0.009	-	5.0 mg/L
Cadmium	mg/L	0.000003	29-Jun-22	0.000026	-	0.05 mg/L
Copper	mg/L	0.0002	29-Jun-22	0.0016	-	0.3 mg/L
Iron	mg/L	0.007	29-Jun-22	0.902	-	10 mg/L
Lead	mg/L	0.00009	29-Jun-22	0.00079	-	0.2 mg/L
Mercury	mg/L	0.00001	28-Jun-22	0.00001	-	0.005 mg/L
Nickel	mg/L	0.0001	29-Jun-22	0.0006	-	0.5 mg/L
Phosphorus	mg/L	0.003	29-Jun-22	0.028	-	0.0005 mg/L
Selenium	mg/L	0.00004	29-Jun-22	0.00008	-	0.01 mg/L
Silver	mg/L	0.00005	29-Jun-22	< 0.00005	-	0.05 mg/L
Zinc	mg/L	0.002	29-Jun-22	0.004	-	0.5 mg/L

ADDITIONAL PARAMETERS		
Analyte	Result	Schedule A Maximum Content ¹
Floating debris, oils and grease	Small brown floating particles present	None to be visible
Chromium (Trivalent)	7.95	1.0 mg/L

Comments: The above analyses were conducted according to protocols indicated. For the list of test methods, please refer to the attached 'Appendix – References for Water Quality Analyses'. The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in the strictest of confidence by this firm. The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context. All analyses have a degree of uncertainty. Each parameter's uncertainty value is calculated based on Avalon Laboratories' method validation study and can be found in the Uncertainty Values column above. Uncertainty values should be taken into consideration when deciding if results fall within your required limits. Avalon Laboratories is not responsible for classifying any result as within acceptable limits.

The arrival temperature was 22.6°C.

*Cyanide, Phenolics, TOG, Anions & Metals were subcontracted to SGS Canada for analysis (E22-0550 to E22-0551; Report ID CA15511-JUN22).

This report and all data included within was reviewed and validated by the following individuals:

Technical Reviewer:

Rene Hunt-Hall

Senior Reviewer:

Jennifer Doyle

QA/QC REPORT

Analyte	Units	RDL	Method Blank	Reference Material Measured Recovery	Criteria (%)	Lab Fortified Blank Measured Recovery	Criteria (%)	Matrix Spike Measured Recovery	Criteria (%)	Duplicates		RPD	Criteria (%)
										No. 1	No. 2		
INORGANIC ANALYSIS													
Ammonia	mg/L	0.02	< 0.01	108.0	90-110	106.0	80-120	111.0	70-130	0.030	0.028	7.0	≤ 10
BOD ₅	mg/L	6	-	-	-	-	-	-	-	84.6	93.9	10.4	≤ 20
Chlorine	mg/L	0.03	≤ 0.0015	-	-	103.7	70-130	125.6	70-130	<0.03	<0.03	NC	≤ 10
Chromium VI	mg/L	0.015	≤ 0.0075	-	-	102.2	90-110	101.2	70-130	<0.015	<0.015	NC	≤ 10
Sulfide	mg/L	0.015	≤ 0.0075	-	-	95.2	90-110	82.3	70-130	<0.015	<0.015	NC	≤ 10
TDS	mg/L	6	-	-	-	99.7	80-120	-	-	30.0	30.0	0.0	≤ 10
TSS	mg/L	3	<5	-	-	98.0	80-120	-	-	60.0	59.0	1.7	≤ 10

APPENDIX

References for Water Quality Analyses

Analyte	Laboratory Method ID	Reference Method ID
Alkalinity	SOP 15050	Modified SM 2320 B
Ammonia (as N)	SOP 15061	Modified EPA 350.1
Anions	SOP 15038	Modified SM 4110 B
Biochemical Oxygen Demand (BOD)	SOP 15053	Modified SM 5210 B
Carbonaceous Biochemical Oxygen Demand (CBOD)	SOP 15053	Modified SM 5210 B
Chlorine (Free)	SOP 15062	Modified SM 4500-Cl G
Chlorine (Total)	SOP 15062	Modified SM 4500-Cl G
Chemical Oxygen Demand (COD)	SOP 15063	Modified SM 5220 D
Colour (Apparent)	SOP 15058	Modified SM 2120 C
Colour (True)	SOP 15058	Modified SM 2120 C
Conductivity	SOP 15057	SM 2510B
Crude Fat in Seafood	SOP 16075	Modified AOAC 948.15
Dissolved Oxygen	SOP 16069	Modified SM4500-O G
Dissolved Organic Carbon (DOC)	SOP 15064	Modified SM 5310 B
Dry Ash in Seafood	SOP 16072	Modified AOAC 938.08
Haloacetic Acids (HAA)	SOP 19058	Modified EPA 552.3
Heavy Metals in Seafood	SOP 19059	CEM Fish Tissue Mars6
Hexavalent Chromium	SOP 16067	Modified SM 3500-Cr B
Metals	SOP 15036	Modified EPA 200.8
Moisture in Seafood	SOP 16073	Modified AOAC 950.46
pH	SOP 15060	Modified SM 4500-H+ B
Protein in Seafood	SOP 16076	Modified AOAC 928.08
Reactive Silica	SOP 16068	Modified SM4500-Si02 D
Sulfides	SOP 16066	Modified SM 4500-S2- D
Total Dissolved Solids (TDS)	SOP 15056	Modified SM 2540 C
Trihalomethanes (THM)	SOP 19057	Modified EPA 551.1
Total Inorganic Carbon (TIC)	SOP 15064	Modified SM 5310 B
Total Kjeldahl Nitrogen (TKN)	SOP 16071	Modified EPA 351.2
Total Organic Carbon (TOC)	SOP 15064	Modified SM 5310 B
Total Cyanide (SAD)	SOP 16078	Modified EPA 335.2
Total Oil & Grease (TOG)	SOP 16077	Modified SM 5520B
Total Suspended Solids (TSS)	SOP 15055	Modified SM 2540 D
Turbidity	SOP 15054	Modified EPA 180.1

Legend for Acronyms & Symbols:

%	Percent	<	Less than the lowest detection limit for the test
g	Gram	>	Greater than the highest detection limit for the test
mg	Milligram	CU	Colour Unit
ml	Millilitre	NTU	Nephelometric Turbidity Unit
µg	Microgram	RDL	Reporting Detection Limit
meq	Milliequivalents	NC	Not Calculable
		AO/OG	Canadian Drinking Water Guidelines Aesthetic Objective/Operational Guideline



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Avalon Laboratories Inc

Attn : Ashley Hillier

5 Sea Rose Avenue
St. John's, NL
A1A 0P6, Canada

Phone: 709-726-9345
Fax: 709-237-0741

05-July-2022

Date Rec. : 27 June 2022
LR Report: CA15511-JUN22
Reference: PO#: 11436 - Project#: E22-0550, 0551

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: QC - Blank	6: QC - STD % Recovery	7: QC - DUP % RPD	8: RL	9: E22-0550 S. Pond	10: E22-0551 J. Pond
Sample Date & Time									23-Jun-22	23-Jun-22
Temperature Upon Receipt [°C]	---	---	---	---	---	---	---	---	22.0	22.0
Fluoride [mg/L]	28-Jun-22	10:00	28-Jun-22	13:38	< 0.06	100%	ND	0.06	< 0.06	< 0.06
Bromide [mg/L]	29-Jun-22	18:44	04-Jul-22	15:00	< 0.3	97%	ND	0.3	< 0.3	< 0.3
Nitrite (as N) [mg/L]	29-Jun-22	18:44	04-Jul-22	15:00	< 0.03	97%	0%	0.03	< 0.03	< 0.03
Nitrate (as N) [mg/L]	29-Jun-22	18:44	04-Jul-22	15:00	< 0.06	103%	0%	0.06	0.23	0.08
Nitrate + Nitrite (as N) [mg/L]	29-Jun-22	18:44	04-Jul-22	15:00	< 0.06	NA	NA	0.06	0.23	0.08
Chloride [mg/L]	30-Jun-22	09:21	04-Jul-22	15:13	< 0.2	96%	1%	0.2	8.0	7.3
Sulphate [mg/L]	30-Jun-22	09:21	04-Jul-22	15:13	< 0.2	97%	3%	0.2	14	3.0
Phosphorus (total reactive) [mg/L]	28-Jun-22	11:25	29-Jun-22	10:27	< 0.03	101%	ND	0.03	< 0.03	< 0.03
Cyanide (total) [ug/L]	28-Jun-22	10:33	28-Jun-22	14:22	< 2	95%	ND	2	< 2	< 2
4AAP-Phenolics [mg/L]	28-Jun-22	14:00	29-Jun-22	10:21	< 0.002	90%	NV	0.002	< 0.002	< 0.002
Mercury (total) [mg/L]	28-Jun-22	10:08	28-Jun-22	15:43	< 0.00001	95%	ND	0.00001	< 0.00001	0.00001
Silver (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.00005	99%	ND	0.00005	< 0.00005	< 0.00005
Aluminum (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.001	100%	1%	0.001	0.203	0.351
Arsenic (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.0002	103%	ND	0.0002	0.0005	0.0006
Barium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.00002	98%	4%	0.00002	0.109	0.0363



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LR Report : CA15511-JUN22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: QC - Blank	6: QC - STD % Recovery	7: QC - DUP % RPD	8: RL	9: E22-0550 S. Pond	10: E22-0551 J. Pond
Beryllium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.000007	100%	1%	0.000007	0.000159	0.000076
Boron (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.002	101%	4%	0.002	0.014	0.009
Bismuth (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.00001	98%	4%	0.00001	< 0.00001	< 0.00001
Calcium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.01	104%	0%	0.01	7.14	1.94
Cadmium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.000003	97%	17%	0.000003	0.000009	0.000026
Cobalt (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.000004	102%	2%	0.000004	0.000140	0.000536
Chromium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.00008	99%	6%	0.00008	0.00020	0.00797
Copper (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.0002	98%	1%	0.0002	0.0028	0.0016
Iron (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.007	96%	3%	0.007	0.254	0.902
Potassium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.009	100%	3%	0.009	0.889	0.418
Magnesium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.001	100%	1%	0.001	1.57	0.765
Manganese (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.00001	103%	3%	0.00001	0.0711	0.0984
Molybdenum (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.00004	101%	3%	0.00004	0.00047	0.00012
Sodium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.01	107%	0%	0.01	6.44	5.38
Nickel (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.0001	99%	6%	0.0001	0.0004	0.0006
Phosphorus (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.003	98%	1%	0.003	0.020	0.028
Lead (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.00001	102%	2%	0.00009	0.00051	0.00079
Antimony (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.0009	102%	ND	0.0009	< 0.0009	< 0.0009
Selenium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.00004	101%	ND	0.00004	0.00005	0.00008
Tin (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:24	< 0.00006	103%	2%	0.00006	< 0.00006	< 0.00006
Strontium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:25	< 0.00002	101%	2%	0.00002	0.0303	0.00983
Titanium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:25	< 0.00005	101%	8%	0.00005	0.00635	0.00648
Thallium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:25	< 0.000005	100%	ND	0.000005	< 0.000005	< 0.000005
Uranium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:25	< 0.000002	98%	0%	0.000002	0.000039	0.000013
Vanadium (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:25	< 0.00001	100%	0%	0.00001	0.00034	0.00075
Zinc (total) [mg/L]	29-Jun-22	11:12	30-Jun-22	15:25	< 0.002	100%	1%	0.002	0.003	0.004
Oil & Grease (total) [mg/L]	30-Jun-22	17:41	04-Jul-22	09:45	< 2	102%	NSS	2	< 2	< 2

RL - SGS Reporting Limit
ND - Not Detected
NA - Not applicable



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LR Report :

CA15511-JUN22

Method Descriptions

Parameter	Description	SGS Method Code	Reference Method Code
4AAP-Phenolics	phenol by Skalar -solution	ME-CA-[ENV]SFA-LAK-AN-006	SM 5530B-D
Aluminum (total)	Al by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Antimony (total)	Sb by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Arsenic (total)	As by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Barium (total)	Ba by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Beryllium (total)	Be by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Bismuth (total)	Bi by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Boron (total)	B by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Bromide	Bromide by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3
Cadmium (total)	Cd by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Calcium (total)	Ca by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Chloride	Chloride by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3
Chromium (total)	Cr by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Cobalt (total)	Co by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Copper (total)	Cu by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Cyanide (total)	Cyanide Total by Skalar - solution	ME-CA-[ENV]SFA-LAK-AN-005	SM 4500
Fluoride	Fluoride by specific ion electrode	ME-CA-[ENV]EWL-LAK-AN-014	SM 4500
Iron (total)	Fe by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Lead (total)	Pb by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Magnesium (total)	Mg by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Manganese (total)	Mn by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Mercury (total)	Hg solutions by CVAAS	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B
Molybdenum (total)	Mo by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Nickel (total)	Ni by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Nitrate (as N)	Nitrate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3
Nitrate + Nitrite (as N)	Total Nitrate/Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3
Nitrite (as N)	Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3
Oil & Grease (total)	Oil & Grease by Gravimetric	ME-CA-[ENV]GC-LAK-AN-019	MOE E3401
Phosphorus (total reactive)	Tot. Reactive Phos. by Skalar or Spec.- no reagents or he	ME-CA-[ENV]SFA-LAK-AN-004	SM 4500-P F
Phosphorus (total)	P by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Potassium (total)	K by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Selenium (total)	Se by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Silver (total)	Ag by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Sodium (total)	Na by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Strontium (total)	Sr by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Sulphate	Sulphate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001	EPA300/MA300-Ions1.3
Thallium (total)	Tl by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Tin (total)	Sn by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Titanium (total)	Ti by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Uranium (total)	U by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Vanadium (total)	V by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Zinc (total)	Zn by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8



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LR Report :

CA15511-JUN22

Kimberley Didsbury
Project Specialist,
Environment, Health & Safety



Results of Microbiological Analyses

Customer: Holly Doucette
Trinity Resources Ltd
250 Minerals Road
CBS, NL
A1W 3J1

Sample: Water – 2 sample(s)
Date Received: 23-Jun-22
Date Started: 23-Jun-22
Date Reported: 27-Jun-22
Project No: 11436
Report ID: 63615

Sample Description	Water	
Sample ID (Date/Code)	Settlement Pond June 23/22 @ 11:30 AM	Johnnies Pond June 23/22 @ 11:30 AM
Lab Refer. No.	M22-5807	M22-5808
Bacteriological Analyses		
Total Coliforms (MPN Method)	2.0 MPN/100ml (0.20 MPN/ml)	<1.8 MPN/100ml (<.018 MPN/ml)
Fecal Coliforms (MPN Method)	2.0 MPN/100ml (0.20 MPN/ml)	<1.8 MPN/100ml (<.018 MPN/ml)

Comments: The above analyses were conducted according to protocols indicated. For the list of test methods, please refer to the attached 'Appendix – References for Microbiological Analyses'. The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in strictest of confidence by this firm. The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context. The arrival temperature was 22.6 °C, which reflected the collection temperature.

Technical Reviewer:

Senior Reviewer:



CERTIFICATE OF ANALYSIS

Customer: Holly Doucette
Trinity Performance Minerals
250 Minerals Road
CBS, NL A1W 3J1
(709) 834-0563

Sample: Effluent – 2 Samples(s)
Date Received: 10-Jun-22
Date Reported: 29-Jun-22 *Revised 30-Jun-22*
Project No.: 11436
Report ID: WQ7734

Sample Description				Effluent		
Sample ID				Settlement Pond		
Lab ID				June 10/22 @ 10:00 AM		
W22-0921						
Analysis	Units	RDL	Analysis Date	Results	Uncertainty Value	Schedule A Maximum Content ¹
INORGANIC ANALYSIS						
pH	-	-	10-Jun-22	7.79	± 0.02	-
TSS	mg/L	3	14-Jun-22	5	± 5.33	30 mg/L
TOTAL METALS ANALYSIS^A						
Aluminum	mg/L	0.001	17-Jun-22	0.247	-	-
Antimony	mg/L	0.0009	17-Jun-22	< 0.0009	-	-
Arsenic	mg/L	0.0002	17-Jun-22	0.0008	-	0.5 mg/L
Barium	mg/L	0.00002	17-Jun-22	0.0868	-	5.0 mg/L
Beryllium	mg/L	0.000007	17-Jun-22	0.000242	-	-
Bismuth	mg/L	0.00001	17-Jun-22	< 0.00001	-	-
Boron	mg/L	0.002	17-Jun-22	0.006	-	5.0 mg/L
Cadmium	mg/L	0.000003	17-Jun-22	0.000027	-	0.05 mg/L
Calcium	mg/L	0.01	17-Jun-22	5.62	-	-
Chromium	mg/L	0.00008	17-Jun-22	0.00031	-	-
Cobalt	mg/L	0.000004	17-Jun-22	0.000182	-	-
Copper	mg/L	0.0002	17-Jun-22	0.0044	-	0.3 mg/L
Iron	mg/L	0.007	17-Jun-22	0.255	-	10 mg/L
Lead	mg/L	0.00009	17-Jun-22	0.00093	-	0.2 mg/L
Magnesium	mg/L	0.001	17-Jun-22	1.41	-	-
Manganese	mg/L	0.00001	17-Jun-22	0.0443	-	-
Mercury	mg/L	0.00001	20-Jun-22	< 0.00001	-	0.005 mg/L
Molybdenum	mg/L	0.00004	17-Jun-22	0.00057	-	-
Nickel	mg/L	0.0001	17-Jun-22	0.0005	-	0.5 mg/L
Phosphorus	mg/L	0.003	17-Jun-22	0.015	-	0.0005 mg/L
Potassium	mg/L	0.009	17-Jun-22	0.708	-	-
Selenium	mg/L	0.00004	17-Jun-22	0.00010	-	0.01 mg/L
Silver	mg/L	0.00005	17-Jun-22	< 0.00005	-	0.05 mg/L
Sodium	mg/L	0.01	17-Jun-22	5.76	-	-
Strontium	mg/L	0.00002	17-Jun-22	0.0251	-	-
Thallium	mg/L	0.000005	17-Jun-22	< 0.000005	-	-
Tin	mg/L	0.00006	17-Jun-22	0.00115	-	-
Titanium	mg/L	0.00005	17-Jun-22	0.00718	-	-
Uranium	mg/L	0.000002	17-Jun-22	0.000058	-	-
Vanadium	mg/L	0.00001	17-Jun-22	0.00031	-	-
Zinc	mg/L	0.002	17-Jun-22	0.003	-	0.5 mg/L

Sample Description				Effluent		
Sample ID				Johnnies Pond		
Lab ID				June 10/22 @ 10:00 AM		
				W22-0922		
Analysis	Units	RDL	Analysis Date	Results	Uncertainty Value	Schedule A Maximum Content ¹
INORGANIC ANALYSIS						
pH	-	-	10-Jun-22	6.27	± 0.02	-
TSS	mg/L	3	14-Jun-22	5	± 5.33	30 mg/L
TOTAL METALS ANALYSIS[^]						
Aluminum	mg/L	0.001	17-Jun-22	0.322	-	-
Antimony	mg/L	0.0009	17-Jun-22	< 0.0009	-	-
Arsenic	mg/L	0.0002	17-Jun-22	0.0003	-	0.5 mg/L
Barium	mg/L	0.00002	17-Jun-22	0.0272	-	5.0 mg/L
Beryllium	mg/L	0.000007	17-Jun-22	0.000082	-	-
Bismuth	mg/L	0.00001	17-Jun-22	< 0.00001	-	-
Boron	mg/L	0.002	17-Jun-22	0.006	-	5.0 mg/L
Cadmium	mg/L	0.000003	17-Jun-22	0.000030	-	0.05 mg/L
Calcium	mg/L	0.01	17-Jun-22	1.61	-	-
Chromium	mg/L	0.00008	17-Jun-22	0.00039	-	-
Cobalt	mg/L	0.000004	17-Jun-22	0.000277	-	-
Copper	mg/L	0.0002	17-Jun-22	0.0015	-	0.3 mg/L
Iron	mg/L	0.007	17-Jun-22	0.422	-	10 mg/L
Lead	mg/L	0.00009	17-Jun-22	0.00048	-	0.2 mg/L
Magnesium	mg/L	0.001	17-Jun-22	0.724	-	-
Manganese	mg/L	0.00001	17-Jun-22	0.0435	-	-
Mercury	mg/L	0.00001	20-Jun-22	< 0.00001	-	0.005 mg/L
Molybdenum	mg/L	0.00004	17-Jun-22	0.00009	-	-
Nickel	mg/L	0.0001	17-Jun-22	0.0006	-	0.5 mg/L
Phosphorus	mg/L	0.003	17-Jun-22	0.016	-	0.0005 mg/L
Potassium	mg/L	0.009	17-Jun-22	0.342	-	-
Selenium	mg/L	0.00004	17-Jun-22	0.00017	-	0.01 mg/L
Silver	mg/L	0.00005	17-Jun-22	< 0.00005	-	0.05 mg/L
Sodium	mg/L	0.01	17-Jun-22	5.52	-	-
Strontium	mg/L	0.00002	17-Jun-22	0.00838	-	-
Thallium	mg/L	0.000005	17-Jun-22	< 0.000005	-	-
Tin	mg/L	0.00006	17-Jun-22	0.00167	-	-
Titanium	mg/L	0.00005	17-Jun-22	0.00534	-	-
Uranium	mg/L	0.000002	17-Jun-22	0.000011	-	-
Vanadium	mg/L	0.00001	17-Jun-22	0.00042	-	-
Zinc	mg/L	0.002	17-Jun-22	0.004	-	0.5 mg/L

Comments: The above analyses were conducted according to protocols indicated. For the list of test methods, please refer to the attached 'Appendix – References for Water Quality Analyses'. The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in the strictest of confidence by this firm. The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context. All analyses have a degree of uncertainty. Each parameter's uncertainty value is calculated based on Avalon Laboratories' method validation study and can be found in the Uncertainty Values column above. Uncertainty values should be taken into consideration when deciding if results fall within your required limits. Avalon Laboratories is not responsible for classifying any result as within acceptable limits. ¹Schedule A Maximum Content is referenced from the Newfoundland & Labrador Regulation 65/03: Environmental Control Water and Sewage Regulations, 2003 under the Water Resources Act.


The arrival temperature was 16.2°C.

^Metals were subcontracted to SGS Canada for analysis (E22-0494 to E22-0495; Report ID CA12976-JUN22).

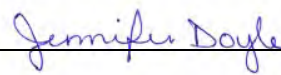
This Report replaces Report ID: WQ7639; Revised to remove MDMER MDL Limits and add Schedule A Regulations, as per customer request. This is tracked as a Non-conformity under our Management System.

This report and all data included within was reviewed and validated by the following individuals:

Technical Reviewer:



Senior Reviewer:



QA/QC REPORT													
Analyte	Units	RDL	Method Blank	Reference Material Measured Recovery	Criteria (%)	Lab Fortified Blank Measured Recovery	Criteria (%)	Matrix Spike Measured Recovery	Criteria (%)	Duplicates		RPD	Criteria (%)
										No. 1	No. 2		
INORGANIC ANALYSIS													
pH	-	-	-	-	-	-	-	-	-	11.32	11.35	0.3	≤ 1
TSS	mg/L	3	<5	-	-	80.0	80-120	-	-	5	5	0.0	≤ 10

APPENDIX

References for Water Quality Analyses

Analyte	Laboratory Method ID	Reference Method ID
Alkalinity	SOP 15050	Modified SM 2320 B
Ammonia (as N)	SOP 15061	Modified EPA 350.1
Anions	SOP 15038	Modified SM 4110 B
Biochemical Oxygen Demand (BOD)	SOP 15053	Modified SM 5210 B
Carbonaceous Biochemical Oxygen Demand (CBOD)	SOP 15053	Modified SM 5210 B
Chlorine (Free)	SOP 15062	Modified SM 4500-Cl G
Chlorine (Total)	SOP 15062	Modified SM 4500-Cl G
Chemical Oxygen Demand (COD)	SOP 15063	Modified SM 5220 D
Colour (Apparent)	SOP 15058	Modified SM 2120 C
Colour (True)	SOP 15058	Modified SM 2120 C
Conductivity	SOP 15057	SM 2510B
Crude Fat in Seafood	SOP 16075	Modified AOAC 948.15
Dissolved Oxygen	SOP 16069	Modified SM4500-O G
Dissolved Organic Carbon (DOC)	SOP 15064	Modified SM 5310 B
Dry Ash in Seafood	SOP 16072	Modified AOAC 938.08
Haloacetic Acids (HAA)	SOP 19058	Modified EPA 552.3
Heavy Metals in Seafood	SOP 19059	CEM Fish Tissue Mars6
Hexavalent Chromium	SOP 16067	Modified SM 3500-Cr B
Metals	SOP 15036	Modified EPA 200.8
Moisture in Seafood	SOP 16073	Modified AOAC 950.46
pH	SOP 15060	Modified SM 4500-H+ B
Protein in Seafood	SOP 16076	Modified AOAC 928.08
Reactive Silica	SOP 16068	Modified SM4500-Si02 D
Sulfides	SOP 16066	Modified SM 4500-S2- D
Total Dissolved Solids (TDS)	SOP 15056	Modified SM 2540 C
Trihalomethanes (THM)	SOP 19057	Modified EPA 551.1
Total Inorganic Carbon (TIC)	SOP 15064	Modified SM 5310 B
Total Kjeldahl Nitrogen (TKN)	SOP 16071	Modified EPA 351.2
Total Organic Carbon (TOC)	SOP 15064	Modified SM 5310 B
Total Cyanide (SAD)	SOP 16078	Modified EPA 335.2
Total Oil & Grease (TOG)	SOP 16077	Modified SM 5520B
Total Suspended Solids (TSS)	SOP 15055	Modified SM 2540 D
Turbidity	SOP 15054	Modified EPA 180.1

Legend for Acronyms & Symbols:

%	Percent	<	Less than the lowest detection limit for the test
g	Gram	>	Greater than the highest detection limit for the test
mg	Milligram	CU	Colour Unit
ml	Millilitre	NTU	Nephelometric Turbidity Unit
µg	Microgram	RDL	Reporting Detection Limit
meq	Milliequivalents	NC	Not Calculable
		AO/OG	Canadian Drinking Water Guidelines Aesthetic Objective/Operational Guideline



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

Avalon Laboratories Inc

Attn : Ashley Hillier

5 Sea Rose Avenue
St. John's, NL
A1A 0P6, Canada

Phone: 709-726-9345
Fax: 709-237-0741

23-June-2022

Date Rec. : 15 June 2022
LR Report: CA12796-JUN22
Reference: PO#: 11436.000 - Project#: E22-0494,
E22-0495

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: QC - Blank	6: QC - STD % Recovery	7: QC - DUP % RPD	8: RL	9: E22-0494 S. Pond	10: E22-0495 J. Pond
Sample Date & Time									N/A	N/A
Temperature Upon Receipt [°C]	---	---	---	---	---	---	---	---	19.0	19.0
Mercury (total) [mg/L]	20-Jun-22	09:45	20-Jun-22	13:59	< 0.00001	NV	ND	0.00001	< 0.00001	< 0.00001
Silver (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00005	102%	ND	0.00005	< 0.00005	< 0.00005
Aluminum (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.001	99%	14%	0.001	0.247	0.322
Arsenic (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.0002	95%	17%	0.0002	0.0008	0.0003
Barium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00002	98%	2%	0.00002	0.0868	0.0272
Beryllium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.000007	100%	5%	0.000007	0.000242	0.000082
Boron (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.002	99%	11%	0.002	0.006	0.006
Bismuth (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00001	92%	ND	0.00001	< 0.00001	< 0.00001
Calcium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.01	99%	2%	0.01	5.62	1.61
Cadmium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.000003	100%	0%	0.000003	0.000027	0.000030
Cobalt (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.000004	98%	1%	0.000004	0.000182	0.000277
Chromium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00008	96%	9%	0.00008	0.00031	0.00039
Copper (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.0002	94%	9%	0.0002	0.0044	0.0015
Iron (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.007	105%	1%	0.007	0.255	0.422
Potassium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.009	101%	2%	0.009	0.708	0.342



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - K0L 2H0

Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA12796-JUN22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: QC - Blank	6: QC - STD % Recovery	7: QC - DUP % RPD	8: RL	9: E22-0494 S. Pond	10: E22-0495 J. Pond
Magnesium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.001	102%	1%	0.001	1.41	0.724
Manganese (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00001	99%	3%	0.00001	0.0443	0.0435
Molybdenum (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00004	96%	1%	0.00004	0.00057	0.00009
Sodium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.01	101%	1%	0.01	5.76	5.52
Nickel (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.0001	96%	1%	0.0001	0.0005	0.0006
Phosphorus (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.003	103%	3%	0.003	0.015	0.016
Lead (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00001	99%	8%	0.00009	0.00093	0.00048
Antimony (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.0009	107%	ND	0.0009	< 0.0009	< 0.0009
Selenium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00004	102%	8%	0.00004	0.00010	0.00017
Tin (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00006	98%	17%	0.00006	0.00115	0.00167
Strontium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00002	97%	2%	0.00002	0.0251	0.00838
Titanium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00005	92%	11%	0.00005	0.00718	0.00534
Thallium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.000005	93%	ND	0.000005	< 0.000005	< 0.000005
Uranium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.000002	96%	8%	0.000002	0.000058	0.000011
Vanadium (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.00001	104%	10%	0.00001	0.00031	0.00042
Zinc (total) [mg/L]	17-Jun-22	20:42	22-Jun-22	14:47	< 0.002	97%	4%	0.002	0.003	0.004

RL - SGS Reporting Limit

ND - Not Detected

Note: Sampling date & time were not written on the chain of custody or bottle labels; sample results may be unreliable if the standard holding time of 60 days (Metals) and 28 days (Mercury) were exceeded.

Method Descriptions

Parameter	Description	SGS Method Code	Reference Method Code
Aluminum (total)	Al by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Antimony (total)	Sb by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Arsenic (total)	As by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Barium (total)	Ba by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Beryllium (total)	Be by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Bismuth (total)	Bi by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Boron (total)	B by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Cadmium (total)	Cd by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA12796-JUN22

Parameter	Description	SGS Method Code	Reference Method Code
Calcium (total)	Ca by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Chromium (total)	Cr by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Cobalt (total)	Co by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Copper (total)	Cu by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Iron (total)	Fe by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Lead (total)	Pb by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Magnesium (total)	Mg by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Manganese (total)	Mn by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Mercury (total)	Hg solutions by CVAAS	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B
Molybdenum (total)	Mo by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Nickel (total)	Ni by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Phosphorus (total)	P by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Potassium (total)	K by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Selenium (total)	Se by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Silver (total)	Ag by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Sodium (total)	Na by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Strontium (total)	Sr by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Thallium (total)	Tl by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Tin (total)	Sn by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Titanium (total)	Ti by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Uranium (total)	U by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Vanadium (total)	V by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
Zinc (total)	Zn by ICP-MS solution	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8

Kimberley Didsbury
Project Specialist,
Environment, Health & Safety



CERTIFICATE OF ANALYSIS

Customer: Holly Doucette
Trinity Performance Minerals
250 Minerals Road
CBS, NL A1W 3J1
(709) 834-0563

Sample: Effluent – 2 Samples(s)
Date Received: 26-Jul-22
Date Reported: 10-Aug-22
Project No.: 11436
Report ID: WQ7489

Sample Description				Effluent		
Sample ID				Settlement Pond Jul 26/22 @ 1:30 PM	Johnnies Pond Jul 26/22 @ 1:30 PM	
				Lab ID	W22-1241	W22-1242
Analysis	Units	RDL	Analysis Date	Results		Uncertainty Value
INORGANIC ANALYSIS						
pH	-	-	26-Jul-22	7.01	6.10	± 0.02
TSS	mg/L	3	28-Jul-22	<3	4	± 5.33

Comments: The above analyses were conducted according to protocols indicated. For the list of test methods, please refer to the attached 'Appendix – References for Water Quality Analyses'. The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in the strictest of confidence by this firm. The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context. All analyses have a degree of uncertainty. Each parameter's uncertainty value is calculated based on Avalon Laboratories' method validation study and can be found in the Uncertainty Values column above. Uncertainty values should be taken into consideration when deciding if results fall within your required limits. Avalon Laboratories is not responsible for classifying any result as within acceptable limits.

The arrival temperature was 24.8°C.

This report and all data included within was reviewed and validated by the following individuals:

Technical Reviewer: Ashley Hillier **Senior Reviewer:** Jennifer Doyle

QA/QC REPORT													
Analyte	Units	RDL	Method Blank	Reference Material Measured Recovery	Criteria (%)	Lab Fortified Blank Measured Recovery	Criteria (%)	Matrix Spike Measured Recovery	Criteria (%)	Duplicates		RPD	Criteria (%)
										No. 1	No. 2		
INORGANIC ANALYSIS													
pH	-	-	-	-	-	-	-	-	-	7.01	6.99	0.3	≤ 1
TSS	mg/L	3	<5	-	-	86.0	80-120	-	-	28	28	0.0	≤ 10



CERTIFICATE OF ANALYSIS

Customer: Holly Doucette
Trinity Performance Minerals
250 Minerals Road
CBS, NL A1W 3J1
(709) 834-0563

Sample: Effluent – 2 Samples(s)
Date Received: 30-Aug-22
Date Reported: 09-Sept-22
Project No.: 11436
Report ID: WQ7950

Sample Description				Effluent		
Sample ID				Settlement Pond	Johnnies Pond	
				Aug 30/22	Aug 30/22	
				@ 12:00 PM	@ 12:00 PM	
Lab ID				W22-1401	W22-1402	
Analysis	Units	RDL	Analysis Date	Results		Uncertainty Value
INORGANIC ANALYSIS						
pH	-	-	31-Aug-22	6.61	5.98	± 0.02
TSS	mg/L	3	04-Sep-22	7	5	± 5.33

Comments: The above analyses were conducted according to protocols indicated. For the list of test methods, please refer to the attached 'Appendix – References for Water Quality Analyses'. The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in the strictest of confidence by this firm. The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context. All analyses have a degree of uncertainty. Each parameter's uncertainty value is calculated based on Avalon Laboratories' method validation study and can be found in the Uncertainty Values column above. Uncertainty values should be taken into consideration when deciding if results fall within your required limits. Avalon Laboratories is not responsible for classifying any result as within acceptable limits.

The arrival temperature was 20.8°C.

This report and all data included within was reviewed and validated by the following individuals:

Technical Reviewer:

Nicole Hunt-Hall

Senior Reviewer:

Jennifer Doyle

QA/QC REPORT													
Analyte	Units	RDL	Method Blank	Reference Material Measured Recovery	Criteria (%)	Lab Fortified Blank Measured Recovery	Criteria (%)	Matrix Spike Measured Recovery	Criteria (%)	Duplicates		RPD	Criteria (%)
										No. 1	No. 2		
INORGANIC ANALYSIS													
pH	-	-	-	-	-	-	-	-	-	6.61	6.67	0.9	≤ 1
TSS	mg/L	3	<5	-	-	93.0	80-120	-	-	19.0	19.0	0.0	≤ 10



BIOASSAY CERTIFICATE OF ANALYSIS
Rainbow Trout LT₅₀

Customer: Holly Doucette
 Trinity Resources Ltd
 250 Minerals Road
 CBS, NL, A1W 3J1

Report Date: 28-Jun-22
Project Number: 11436
Sample ID: B22-0654
Report ID: 09581

SAMPLE		SAMPLE CHARACTERIZATION	
Sample Material:	Settlement Pond	Received Date & Time:	June 23, 2022 @ 1:00 PM
Sampling Method:	Grab	Temperature:	14.8 °C
Sample Condition:	Received in acceptable condition	Dissolved Oxygen:	94 %
Collection Date & Time:	June 23, 2022 @ 11:30 AM	pH:	7.3 pH Units
Collected by:	Holly Doucette	Conductivity:	87 µS/cm
Volume:	2 x 20L	Clarity/Colour:	Slightly cloudy, yellow
Storage:	Overnight @ 15.0 ± 1.0 °C	Odour:	None
Arrival Temperature:	22.7 °C	Suspended Solids:	None

DILUTION WATER CHARACTERIZATION		TEST CONDITIONS	
MONTHLY AVERAGE		Test Start Date & Time:	June 24, 2022 @ 11:30 AM
Source:	Municipal Dechlorinated	Test End Date & Time:	June 28, 2022 @ 11:30 AM
Temperature	14.9 ± 0.1 °C	Protocol:	EPS 1/RM/13*
Dissolved Oxygen:	9.2 ± 0.1 mg/L	Type of Test:	96-hour static LT ₅₀ (Pass/Fail)
Conductivity:	138 ± 1 µS/cm	Volume of Test Solutions:	20 Liters
Hardness:	27 ± 1 mg/L	Photoperiod:	16h ± 1h Light/08h ± 1h Dark
pH:	7.4 ± 0.3 pH units	Light Intensity:	461 Lux
Monthly Data:	June 01 – 20, 2022	Aeration Rate:	6.5 ± 1.0 mL/min.L ⁻¹
Date Revised:	June 21, 2022	Preaeration Time:	30 minutes
		Test Temperature:	15.0 ± 1.0 °C
		Performed by:	A. Woodrow/L. Joy/B. Wall

TEST ORGANISM		REFERENCE TOXICITY TEST DATA (LOG SCALE)	
Species:	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	Test Organism:	<i>Oncorhynchus mykiss</i>
Source:	Lyndon Fish Hatcheries	Toxicant:	Phenol
Batch Number:	22-05	Fish Batch No.:	22-05
Number per Tank:	10	Reference Toxicant Date:	June 16 - 20, 2022
% Mortality:	0.0 % (7 Days Prior to Testing)	LC ₅₀ Value:	0.97 mg/L
Mean Fork Length (cm):	3.4 ± 0.3 Range: 2.9 – 3.8	95% Confidence Limits:	0.89 – 1.04 mg/L
Mean Total Weight (g):	0.3 ± 0.1 Range: 0.3 – 0.5	Historic Mean ± 2 SD	0.92 ± 0.16 mg/L
Loading Density (g/L):	0.2	(Warning Limits):	

BIOASSAY CERTIFICATE OF ANALYSIS

Rainbow Trout LT₅₀

Customer: Holly Doucette
Trinity Resources Ltd
250 Minerals Road
CBS, NL, A1W 3J1

Report Date: 28-Jun-22
Project Number: 11436
Sample ID: B22-0654
Report ID: 09581

TEST DATA

Effluent Conc. (%)	Temp (°C)		D.O. (%)		pH Units		Cond.(µs/cm)		Mortality (%)
	Initial	Final	Initial	Final	Initial	Final	Initial	Final	
100	15.0	14.9	98	98	7.1	7.2	82	82	0
0	15.1	14.8	99	100	7.1	7.1	135	138	0

TEST OBSERVATION

Effluent Conc. (%)	100	All fish swimming with normal behavior
	0	All fish swimming with normal behavior



TEST RESULT

LT ₅₀ value (static, acute):	> 96 hours	95% Confidence Intervals:	N/A
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COMMENTS

- Sample has not been pH adjusted or filtered.
- The above analysis was conducted according to protocols indicated.
- *Reference Method: For Determining Acute Lethality of Effluents to Rainbow Trout (Report EPS 1/RM/13 Second Edition, December 2000, May 2007, and February 2016 amendments)
- The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in the strictest confidence by this firm.
- The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context.
- Sample controls are considered a part of a sample test and as such are subject to the same treatment (this includes, but is not limited to, aeration and temperature testing requirements).

VERIFICATION

Technical Reviewer: 	Senior Reviewer: 
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BIOASSAY CERTIFICATE OF ANALYSIS
Daphnia magna LT₅₀

Customer: Holly Doucette
 Trinity Resources Ltd
 250 Minerals Road
 CBS, NL A1W 3J1

Report Date: 27-Jun-22
Project Number: 11436
Sample ID: B22-0653
Report ID: 09580

SAMPLE		SAMPLE CHARACTERIZATION	
Sample Material:	Settlement Pond	Received Date & Time:	June 23, 2022 @ 1:00 PM
Sampling Method:	Grab	Temperature:	20.5 °C
Sample Condition:	Received in acceptable condition	Dissolved Oxygen:	99 %
Collection Date & Time:	June 23, 2022 @ 11:30 AM	pH:	7.1 pH Units
Collected by:	Holly Doucette	Conductivity:	80 µS/cm
Volume:	2 x 20 L	Water Hardness:	25 mg/L
Storage:	Overnight @ 15.0 ± 1.0°C	Clarity/Colour:	Slightly cloudy, yellow
Arrival Temperature:	22.7 °C	Odour:	None
		Suspended Solids:	None

DILUTION WATER CHARACTERIZATION		TEST CONDITIONS	
	MONTHLY AVERAGE	Test Start Date & Time:	June 24, 2022 @ 11:00 AM
Source:	Chemically Defined Media - Prepared by Avalon Laboratories Inc.	Test End Date & Time:	June 26, 2022 @ 11:00 AM
Temperature	19.3 ± 0.4 °C	Protocol:	EPS 1/RM/14*
Dissolved Oxygen:	9.0 ± 0.1 mg/L	Type of Test:	48-hour static LT ₅₀ (Pass/Fail)
Conductivity:	320 ± 9 µS/cm	Volume of Test Solutions:	200 ml
pH:	7.3 ± 0.2 pH units	Photoperiod:	16h ± 1h Light/08h ± 1h Dark
Water Hardness:	89 ± 6 mg/L	Light Intensity:	568 Lux
Monthly Data:	May 2022	Aeration Rate:	32.5 ± 2.5 mL/min.L ⁻¹
Date Revised:	June 06, 2022	Preaeration Time:	0 minutes
		Test Temperature:	20.0 ± 2.0°C
		Performed by:	A. Woodrow

TEST ORGANISM		REFERENCE TOXICITY TEST DATA (LOG SCALE)	
Species:	<i>Daphnia magna</i>	Test Organism:	<i>Daphnia magna</i>
Source:	Avalon Laboratories Inc. Brood Cultures	Toxicant:	Sodium Chloride
Days to First Brood:	≤ 12 days	Reference Toxicant Date:	June 07 - 09, 2022
Average # Neonates/Brood:	28.2	LC ₅₀ Value:	3.816 mg/L
% Mortality:	0.0 %	95% Confidence Limits:	3.779 – 3.826 mg/L
Loading Density:	1 Daphnia/20ml Effluent	Historic Mean ± 2 SD	3.799 ± 0.026 mg/L
Media Batch:	22-60	(Warning Limits):	

BIOASSAY CERTIFICATE OF ANALYSIS
Daphnia magna LT₅₀

Customer: Holly Doucette
 Trinity Resources Ltd
 250 Minerals Road
 CBS, NL, A1W 3J1


Report Date: 27-Jun-22
Project Number: 11436
Sample ID: B22-0653
Report ID: 09580

TEST DATA													
Effluent Conc. (%)	Temp (°C)		D.O. (%)		pH Units		Cond.(µs/cm)		Hardness (mg/L)		% Immobility	% Mortality	Mean # Dead
	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final			
100-1	20.5	19.0	99	97	7.1	7.7	80	80	25	25	0	0	0
100-2	20.5	19.0	99	97	7.1	7.7	80	80	26	26	0	0	
100-3	20.5	19.0	99	97	7.1	7.7	80	80	25	25	0	0	
0-1	18.3	19.0	98	96	7.2	7.0	297	300	85	86	0	0	0
0-2	18.3	19.0	98	96	7.2	7.0	297	300	85	86	0	0	
0-3	18.3	19.0	98	96	7.2	7.0	297	300	85	86	0	0	

TEST OBSERVATION													
Effluent Conc. (%)	100-1	All daphnia swimming with normal behavior											
	100-2												
	100-3												
	0-1	All daphnia swimming with normal behavior											
	0-2												
	0-3												

TEST RESULT													
LT ₅₀ value (static, acute): > 48 hours								95% Confidence Intervals: N/A					

COMMENTS													
<ul style="list-style-type: none"> - Sample has not been pH adjusted or filtered. - The above analysis was conducted according to protocols indicated. - * Reference Method: For Determining Acute Lethality of Effluents to <i>Daphnia magna</i> (EPS/1/RM/14 Second Edition – December 2000 and February 2016 amendments). - The above results, which refer to the sample(s) tested as they were received only, are for your information and will be held in the strictest confidence by this firm. - The report shall not be reproduced except in full without approval of the laboratory, as the laboratory cannot provide assurance that parts of the report are not taken out of context. - Sample controls are considered a part of a sample test and as such are subject to the same treatment (this includes, but is not limited to, aeration and temperature testing requirements). 													

VERIFICATION													
Technical Reviewer: 							Senior Reviewer: 