



# L1301 Transmission Line Decommissioning Project

Waste Management Plan – Final

August, 2023



# Introduction

Newfoundland and Labrador Hydro (Hydro) is preparing to decommission transmission line L1301 in central Labrador. The decommissioning project was released from Environmental Assessment on July 7, 2023 and, as a condition of release, a Waste Management Plan (WMP) is to be approved prior to commencement of the project.

The L1301 wood pole transmission line spans 269 km between Churchill Falls and Muskrat Falls (North Spur area) and was constructed in the 1970s. Hydro plans to decommission this wood pole line over a 5 year period (2023-2027). Waste disposal, recycling, and reuse options may vary over the life of the project and will be confirmed annually.

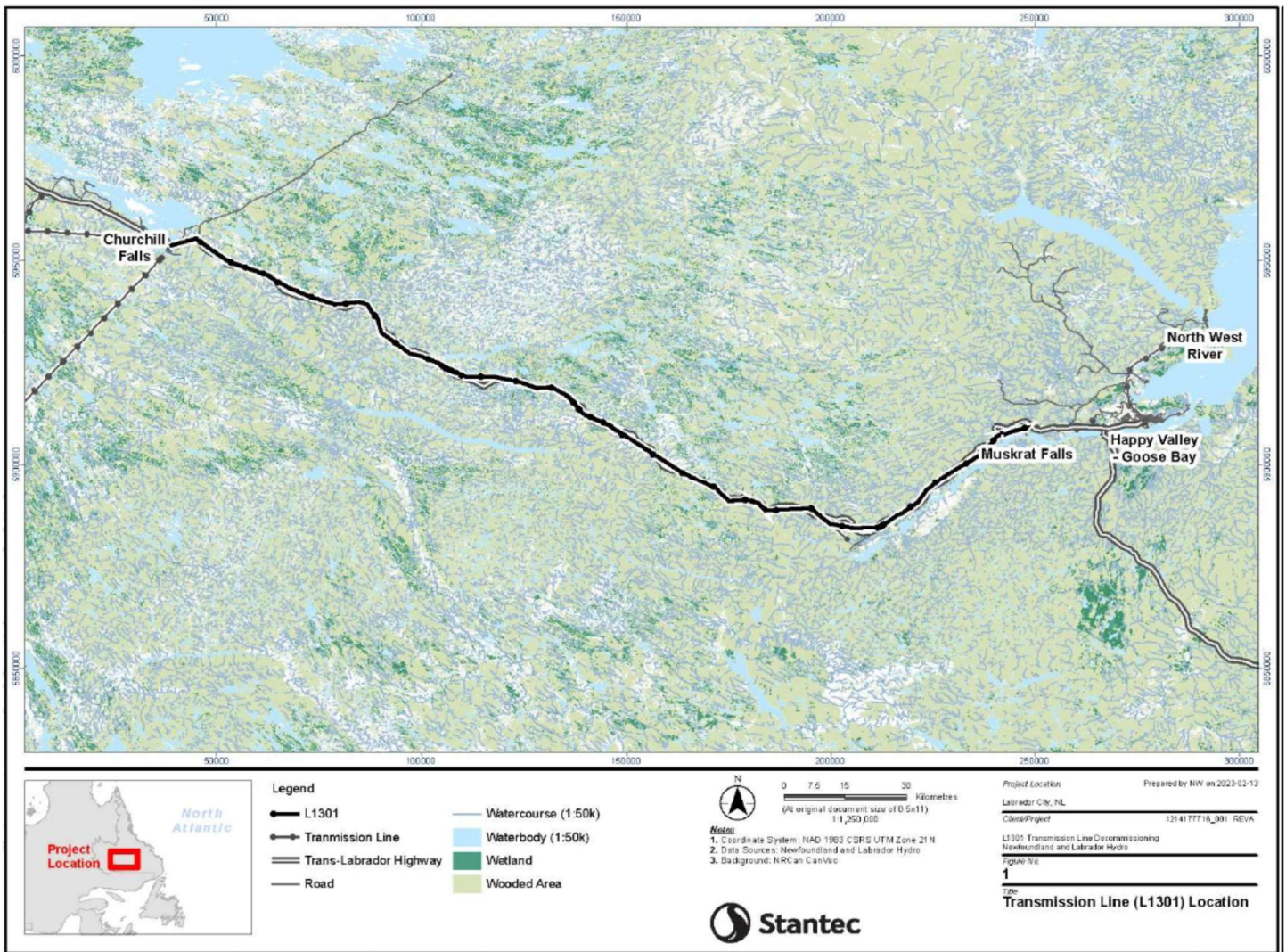


Figure 1. Project Location

## Purpose

Hydro is ISO 14001 registered and is committed to maintaining a high standard of environmental responsibility and performance. This WMP is consistent with Hydro's Environmental Policy and Guiding Principles.

The purpose of this WMP is to identify the waste streams for this project and establish requirements for management of those wastes. In general, opportunities for reuse and recycling of materials will be implemented where possible; otherwise, waste will be disposed of at approved waste disposal sites.

## Project Personnel and Responsibilities

Decommissioning work will be performed by a contractor, with Hydro providing a full-time construction monitor and environmental monitoring. Approximately 25 people will be involved with decommissioning activities, with personnel staying in available accommodations in local communities. The contractor is responsible for waste management functions and will receive awareness training of waste management requirements and expectations. Hydro will monitor and direct the work as required to ensure compliance.

## Contingency Plans

The contractor has an Emergency Response Plan for Spills and will have spill kits on site at all times. Contractor and Hydro personnel are trained in spill response. There will be no bulk storage of fuel on site. In the event of a significant incident, Hydro will initiate its own emergency response protocols and provide support. Hydro has significant emergency response resources available near the project site.

## Waste Generation, Storage, Transport, and Disposal

Waste generated from the project will be managed to meet the requirements of applicable legislation and internal policies, procedures, and commitments. The proceeding table summarizes the waste management requirements for the project. Hydro will work closely with the contractor to confirm the most appropriate waste disposal approach through the life of the project.

Attachment 1 contains specific information regarding completed testing of pentachlorophenol treated wood waste. Based on test results to date, and correspondence with Pollution Prevention Division staff, treated wood waste is proposed for landfill disposal and further testing of TWW is not planned.

Waste Source	Waste Type/Quantity	Storage and Transport	Disposal
Decommissioning activity – wood pole structures	Pentachlorophenol treated wood waste. Includes poles, cross bracing and cross arms. Approximately 580 m <sup>3</sup> or 640 tonnes per year. Pole butts will be left in place.	Temporary storage at existing laydowns. No new laydowns planned to be constructed. Transport by truck/trailer to approved landfill by contractor.	To be confirmed annually. For 2023, disposal will be at an approved landfill in Churchill Falls. It is anticipated that disposal beyond 2023 will be at the Happy Valley Goose Bay landfill. Subject to Federal approval, Hydro may retain a limited amount of suitable treated wood material for possible reuse in other transmission or distribution applications.
Decommissioning activity – insulators and miscellaneous metal hardware	Porcelain and glass insulators. Approximately 25,000 insulators or 100,000 kg. Approximately 25,000 kg of miscellaneous hardware	Temporary storage at existing laydowns. No new laydowns planned to be constructed. Transport by truck to recycler.	To be confirmed annually. For 2023, Newco Metals will we receive the material in Happy Valley Goose Bay for processing.
Decommissioning activity - conductor	Aluminum alloy conductor. Approximately 750 km or 590,000 kg.	Temporary storage at existing laydowns. No new laydowns planned to be constructed. Transport by truck to recycler.	To be confirmed annually. For 2023, a metal recycler in Nova Scotia will receive the material.
Field activities - Domestic Waste	Unsorted domestic wastes associated with lunch materials and other consumable items. Includes plastics, glass, organic waste, beverage containers, etc. One to two bags per day.	Work sites to be kept neat and tidy at all times. Suitable containers to be used as appropriate. Waste to be removed from work sites regularly (at least weekly) for proper disposal.	Transport off-site for disposal at approved facility.
Field Activities – Industrial Waste	May include wastes in limited quantities associated with equipment maintenance and general construction activities. May include rags, grease canisters, oil containers, parts, sorbents, etc.	Temporary stored in suitable containers and removed from work sites regularly (at least weekly) for proper disposal.	Transport off-site for disposal at approved facility.

Table 1. Waste Generation, Storage, Transport and Disposal.

## Attachment 1

### L1301 Transmission Line Decommissioning Project – Treated Wood Waste Sampling and Test Results – Phase 1



# L1301 Transmission Line Decommissioning Project

Treated Wood Waste Sampling and Test Results – Phase 1, Rev.1



# Introduction

Newfoundland and Labrador Hydro (Hydro) is preparing to decommission transmission line L1301 in central Labrador. The decommissioning project was registered for Environmental Assessment in March 2023 and release is imminent. This transmission line spans 269 km between Churchill Falls and Muskrat Falls (North Spur area) and was constructed in the 1970s. Hydro plans to decommission this wood pole line over a 5 year period (2023-2027) as it is near end-of-life and no longer required to provide power from Churchill Falls to Happy Valley - Goose Bay and surrounding communities. Work is scheduled seasonally each year, from approximately late May to early December, subject to weather conditions.

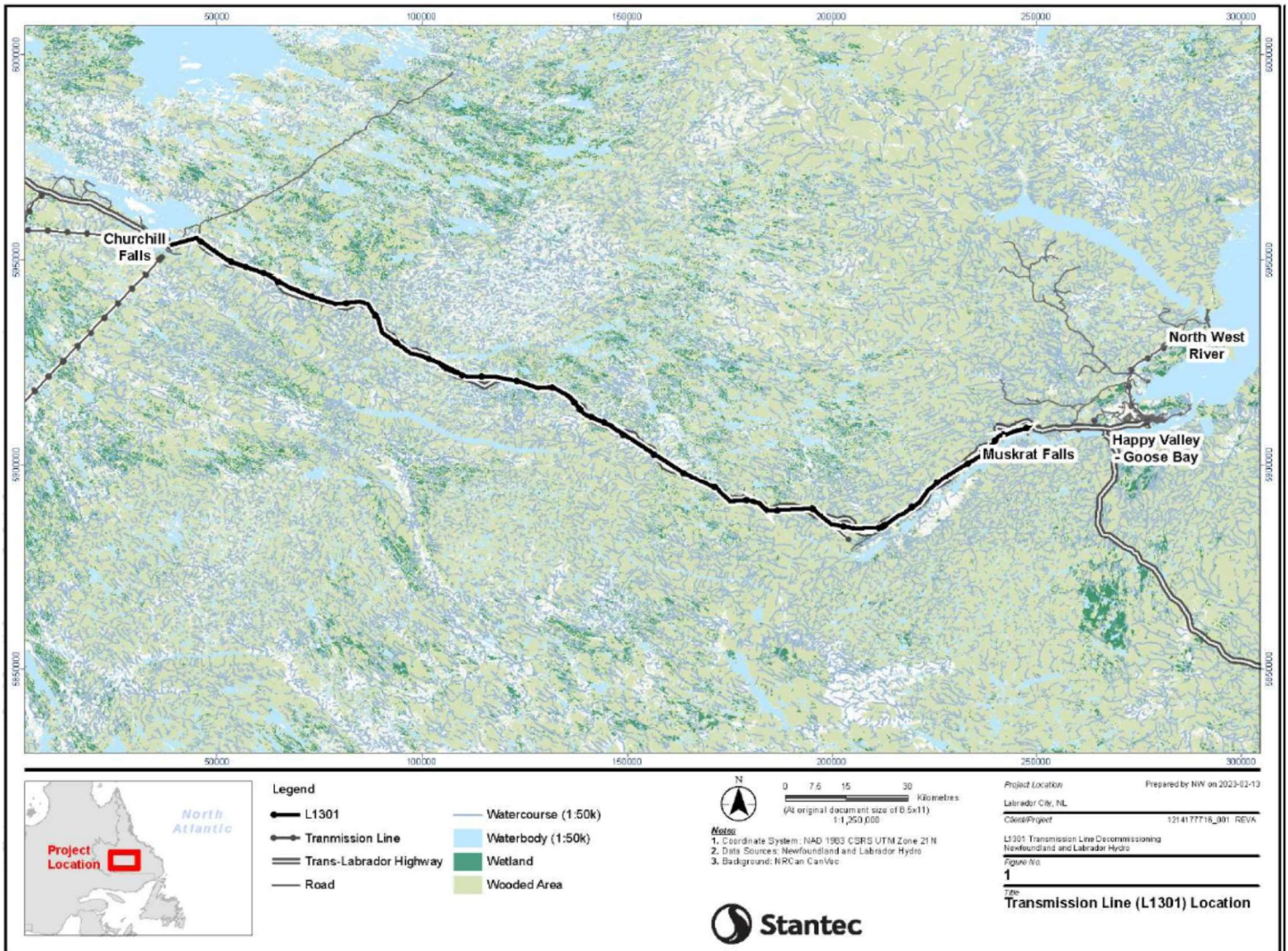


Figure 1. Project Location

## Background

The L1301 structures are typical H-frame design as shown below. The wood poles, cross braces, and cross arm materials are treated with pentachlorophenol (PCP). A small number of the original structure components have been replaced over the years, due to damage or deterioration, but the structures are generally over 45 years old.



The decommissioning work will be carried out over 5 years, generally starting at Churchill Falls and progressing east. There are 1165 structures to be removed in total. The first phase of decommissioning is planned for 2023 from Structure 1 to 233. Treated wood waste (TWW) samples have been collected and tested<sup>1</sup> from the first 292 structures to confirm leachate toxicity hazard. Test results are summarized in this report.

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<sup>1</sup> As per U.S. EPA Toxicity Characteristic Leaching Procedure (TCLP).



## Phase 1 Decommissioning – Structures 1 to 292 Test Results

Work planned for 2023 will take place between September and December. Hydro collected TWW samples from structures 1 - 292 in June 2023. The segment sampled in 2023 represents 25% of the total line and, within that sampled segment, 10% of structures were sampled. Samples were taken from the pole(s) and cross braces of each sampled structure. TCLP results are summarized below from the 56 samples. Four samples exceeded 6 mg/L and all results are below 12 mg/L.

Structure No.	Pole (mg/L)	Cross Bracing (mg/L)
5	5.04	4.12
15	5.19	2.35
26	4.77	0.93
35	<b>6.16</b>	2.34
45	4.52	0.58
55	4.10	0.36
65	1.44	0.49
75	0.85	0.22
85	0.97	0.35
95	3.84	0.11
105	4.31	0.67
115	0.52	1.41
125	<b>6.38</b>	5.29
145	2.41	<b>7.47</b>
154	4.46	0.15
165	3.90	3.07
175	4.35	3.05
185	5.16	0.62
195	2.27	1.02
205	1.02	2.12
215	<b>11.2</b>	0.27
225	0.90	0.95
235	2.60	0.35
245	1.98	1.53
255	2.52	0.39
265	2.61	1.95
275	0.19	4.16
292	5.06	5.99

Table 1. TCLP test results for samples collected from structures 1 – 292.

## 2023 Disposal

Hydro proposes to dispose of TWW materials from 2023 decommissioning at one of the landfills in Churchill Falls and is presently finalizing a disposal plan with Churchill Falls representatives. Hydro has confirmed that Happy Valley – Goose Bay is not able to accept this material at their landfill in 2023 due to space restrictions; however, Hydro anticipates that disposal at Happy Valley – Goose Bay will be viable in future years of the project following expansion of their site.

## Project TWW Estimate

The decommissioning project will be executed over a 5 year period. An estimate of TWW for disposal each year is presented below. The project schedule is subject to change.

Year/Structure Range	Volume (m <sup>3</sup> )	Weight (tonnes)
2023; structures 1 - 233	580	640
2024; structures 234 - 466	580	640
2025; structures 467 - 699	580	640
2026; structures 700 – 956	580	640
2027; structures 957 – 1165	580	640
Approximate Total	2,900	3,200

Table 2. Estimate of TWW for disposal by year.

## Conclusion

Hydro is preparing to decommission transmission line L1301 in central Labrador over 5 years. The TWW from L1301 (structures 1 – 292) has been sampled and tested to confirm disposal requirements, as per the Treated Wood Waste Disposal Guidance Document (GD-PPD-PPD-075.1). TCLP test results have found that all samples are below 12 mg/L and Hydro intends to dispose of the TWW materials at a landfill in Churchill Falls.

Given these recent test results, and other TWW test results provided by Hydro over the years, Hydro requests confirmation of TWW sampling requirements for the remainder of L1301.

Attachment: Lab Report  
L1301 TWW Sampling

**CLIENT NAME: NEWFOUNDLAND & LABRADOR HYDRO**  
**P.O. BOX 12800**  
**ST JOHN'S, NL A1B 0C9**  
**709-733-5297**

**ATTENTION TO: ANDRE MARSHALL**

**PROJECT: L1301**

**AGAT WORK ORDER: 23K034780**

**TRACE ORGANICS REVIEWED BY: Radhika Chakraborty, Trace Organics Lab Manager**

**DATE REPORTED: Jun 23, 2023**

**PAGES (INCLUDING COVER): 11**

**VERSION\*: 1**

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

\*Notes

**Disclaimer:**

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



## Certificate of Analysis

AGAT WORK ORDER: 23K034780

PROJECT: L1301

5835 COOPERS AVENUE  
MISSISSAUGA, ONTARIO  
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FAX (905)712-5122  
<http://www.agatlabs.com>

CLIENT NAME: NEWFOUNDLAND & LABRADOR HYDRO

ATTENTION TO: ANDRE MARSHALL

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 - SVOCs											
DATE RECEIVED: 2023-06-12						DATE REPORTED: 2023-06-23					
		SAMPLE DESCRIPTION:		Structure 5 Pole	Structure 5 Cross Brace	Structure 15 Pole	Structure 15 Cross Brace	Structure 26 Pole	Structure 26 Cross Brace	Structure 35 Pole	Structure 35 Cross Brace
		SAMPLE TYPE:		Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood
		DATE SAMPLED:		2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03
Parameter	Unit	G / S	RDL	5057637	5057645	5057646	5057647	5057648	5057649	5057650	5057651
Pentachlorophenol Leachate	mg/L	6	0.006	5.04	4.12	5.19	2.35	4.77	0.932	6.16	2.34
<b>Surrogate</b>	<b>Unit</b>	<b>Acceptable Limits</b>									
2-Fluorophenol	%	50-140		85	85	85	101	79	85	85	79
Phenol-d6	%	50-140		79	79	79	79	85	79	79	84
2,4,6-Tribromophenol	%	50-140		85	85	85	85	80	85	84	79
Chrysene-d12	%	50-140		85	84	84	84	101	84	79	85
		SAMPLE DESCRIPTION:		Structure 45 Pole	Structure 45 Cross Brace	Structure 55 Pole	Structure 55 Cross Brace	Structure 65 Pole	Structure 65 Cross Brace	Structure 75 Pole	Structure 75 Cross Brace
		SAMPLE TYPE:		Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood
		DATE SAMPLED:		2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03
Parameter	Unit	G / S	RDL	5057652	5057653	5057654	5057655	5057664	5057665	5057666	5057667
Pentachlorophenol Leachate	mg/L	6	0.006	4.52	0.580	4.10	0.362	1.44	0.485	0.851	0.216
<b>Surrogate</b>	<b>Unit</b>	<b>Acceptable Limits</b>									
2-Fluorophenol	%	50-140		79	79	106	85	85	84	79	85
Phenol-d6	%	50-140		85	105	79	79	79	79	85	79
2,4,6-Tribromophenol	%	50-140		84	79	95	105	85	85	84	85
Chrysene-d12	%	50-140		105	94	84	79	84	84	79	79

Certified By:

*R. Chakraborty*



## Certificate of Analysis

AGAT WORK ORDER: 23K034780

PROJECT: L1301

5835 COOPERS AVENUE  
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<http://www.agatlabs.com>

CLIENT NAME: NEWFOUNDLAND & LABRADOR HYDRO

ATTENTION TO: ANDRE MARSHALL

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 - SVOCs											
DATE RECEIVED: 2023-06-12					DATE REPORTED: 2023-06-23						
				Structure 85	Structure 85	Structure 95	Structure 95	Structure 105	Structure 105	Structure 115	Structure 115
				Pole	Cross Brace	Pole	Cross Brace	Pole	Cross Brace	Pole	Cross Brace
				Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood
				2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03
Parameter	Unit	G / S	RDL	5057668	5057669	5057670	5057671	5057672	5057673	5057674	5057675
Pentachlorophenol Leachate	mg/L	6	0.006	0.971	0.354	3.84	0.109	4.31	0.673	0.515	1.41
Surrogate	Unit	Acceptable Limits									
2-Fluorophenol	%	50-140		79	79	79	85	79	85	79	85
Phenol-d6	%	50-140		105	106	115	79	85	79	85	79
2,4,6-Tribromophenol	%	50-140		79	84	79	84	85	85	105	85
Chrysene-d12	%	50-140		85	79	84	79	84	84	79	84
				Structure 125	Structure 125	Structure 145	Structure 145	Structure 154	Structure 154	Structure 165	Structure 165
				Pole	Cross Brace	Pole	Cross Brace	Pole	Cross Brace	Pole	Cross Brace
				Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood
				2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03
Parameter	Unit	G / S	RDL	5057676	5057677	5057678	5057679	5057680	5057681	5057682	5057683
Pentachlorophenol Leachate	mg/L	6	0.006	6.38	5.29	2.41	7.47	4.46	0.150	3.90	3.07
Surrogate	Unit	Acceptable Limits									
2-Fluorophenol	%	50-140		85	85	85	84	105	85	105	95
Phenol-d6	%	50-140		79	84	79	79	98	79	79	79
2,4,6-Tribromophenol	%	50-140		105	79	105	105	74	85	85	85
Chrysene-d12	%	50-140		79	105	79	74	84	84	84	64

Certified By:

*R. Chakraborty*



## Certificate of Analysis

AGAT WORK ORDER: 23K034780

PROJECT: L1301

5835 COOPERS AVENUE  
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TEL (905)712-5100  
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<http://www.agatlabs.com>

CLIENT NAME: NEWFOUNDLAND & LABRADOR HYDRO

ATTENTION TO: ANDRE MARSHALL

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 - SVOCs											
DATE RECEIVED: 2023-06-12					DATE REPORTED: 2023-06-23						
				Structure 175	Structure 175	Structure 185	Structure 185	Structure 195	Structure 195	Structure 205	Structure 205
	SAMPLE DESCRIPTION:			Pole	Cross Brace	Pole	Cross Brace	Pole	Cross Brace	Pole	Cross Brace
	SAMPLE TYPE:			Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood
	DATE SAMPLED:			2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03
Parameter	Unit	G / S	RDL	5057684	5057685	5057686	5057687	5057688	5057698	5057699	5057700
Pentachlorophenol Leachate	mg/L	6	0.006	4.35	3.05	5.16	0.622	2.27	1.02	1.02	2.12
Surrogate	Unit	Acceptable Limits									
2-Fluorophenol	%	50-140		85	69	85	76	85	79	79	85
Phenol-d6	%	50-140		79	74	67	105	84	84	85	79
2,4,6-Tribromophenol	%	50-140		105	81	74	79	79	76	84	85
Chrysene-d12	%	50-140		79	67	81	84	85	84	79	69
				Structure 215	Structure 215	Structure 225	Structure 225	Structure 235	Structure 235	Structure 245	Structure 245
	SAMPLE DESCRIPTION:			Pole	Cross Brace	Pole	Cross Brace	Pole	Cross Brace	Pole	Cross Brace
	SAMPLE TYPE:			Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood
	DATE SAMPLED:			2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03
Parameter	Unit	G / S	RDL	5057701	5057702	5057703	5057704	5057705	5057706	5057707	5057708
Pentachlorophenol Leachate	mg/L	6	0.006	11.2	0.272	0.896	0.949	2.60	0.351	1.98	1.53
Surrogate	Unit	Acceptable Limits									
2-Fluorophenol	%	50-140		79	84	85	96	79	106	106	84
Phenol-d6	%	50-140		115	79	84	105	85	82	84	79
2,4,6-Tribromophenol	%	50-140		85	85	105	79	105	84	79	85
Chrysene-d12	%	50-140		84	74	79	81	79	79	85	82

Certified By:

*R. Chakraborty*



## Certificate of Analysis

AGAT WORK ORDER: 23K034780

PROJECT: L1301

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<http://www.agatlabs.com>

CLIENT NAME: NEWFOUNDLAND & LABRADOR HYDRO

ATTENTION TO: ANDRE MARSHALL

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 - SVOCs											
DATE RECEIVED: 2023-06-12					DATE REPORTED: 2023-06-23						
Parameter	Unit	SAMPLE DESCRIPTION:		Structure 255	Structure 255	Structure 265	Structure 265	Structure 275	Structure 275	Structure 292	Structure 292
		SAMPLE TYPE:		Pole	Cross Brace	Pole	Cross Brace	Pole	Cross Brace	Pole	Cross Brace
		DATE SAMPLED:		Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood
		G / S	RDL	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03	2023-06-03
Pentachlorophenol Leachate	mg/L	6	0.006	2.52	0.388	2.61	1.95	0.190	4.16	5.06	5.99
<b>Surrogate</b>	<b>Unit</b>	<b>Acceptable Limits</b>									
2-Fluorophenol	%	50-140		84	116	85	85	85	85	85	79
Phenol-d6	%	50-140		105	79	79	84	79	79	85	68
2,4,6-Tribromophenol	%	50-140		79	85	82	79	85	85	84	84
Chrysene-d12	%	50-140		85	84	84	85	84	84	79	79

**Comments:** RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria  
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

**5057637-5057716** The sample was leached according to Regulation 558 protocol. Analysis was performed on the leachate.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:

*R. Chakraborty*



## Quality Assurance

**CLIENT NAME:** NEWFOUNDLAND & LABRADOR HYDRO  
**PROJECT:** L1301  
**SAMPLING SITE:**

**AGAT WORK ORDER:** 23K034780  
**ATTENTION TO:** ANDRE MARSHALL  
**SAMPLED BY:**

### Trace Organics Analysis

RPT Date: Jun 23, 2023			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
<b>O. Reg. 558 - SVOCs</b>																
Pentachlorophenol Leachate	5057637	5057637	5.04	4.68	7.4%	< 0.006	85%	50%	140%	78%	50%	140%	105%	50%	140%	
<b>O. Reg. 558 - SVOCs</b>																
Pentachlorophenol Leachate	5057672	5057672	4.31	4.12	4.5%	< 0.006	85%	50%	140%	78%	50%	140%	84%	50%	140%	
<b>O. Reg. 558 - SVOCs</b>																
Pentachlorophenol Leachate	5057682	5057682	3.90	4.32	10.2%	< 0.006	85%	50%	140%	89%	50%	140%	84%	50%	140%	

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: \_\_\_\_\_

*R. Chakraborty*



## Method Summary

CLIENT NAME: NEWFOUNDLAND & LABRADOR HYDRO

AGAT WORK ORDER: 23K034780

PROJECT: L1301

ATTENTION TO: ANDRE MARSHALL

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
<b>Trace Organics Analysis</b>			
Pentachlorophenol Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Fluorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenol-d6	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,6-Tribromophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene-d12	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS



# AGAT Laboratories

Unit 122 • 11 Morris Drive  
Dartmouth, NS  
B3B 1M2

webearth.agatlabs.com • www.agatlabs.com

### Laboratory Use Only

Arrival Condition:  Good  Poor (see notes)

Arrival Temperature: 78, 79, 8.5

Hold Time: \_\_\_\_\_

AGAT Job Number: \_\_\_\_\_

Notes: \_\_\_\_\_

## Chain of Custody Record

P: 902.468.8718 • F: 902.468.8924

### Report Information

Company: Newfoundland and Labrador Hydro  
Contact: Andre Marshall  
Address: Hydro Place, 500 Columbus Drive  
P.O. Box 12400 St. John's, NL, A1B 4K7  
Phone: (709) 693-7075 Fax: \_\_\_\_\_  
Client Project #: L1301  
AGAT Quotation: \_\_\_\_\_  
Please Note: If quotation number is not provided client will be billed full price for analysis.

### Report Information (Please print):

1. Name: Andre Marshall  
Email: AndreMarshall@nlh.nl.ca  
2. Name: Ken Sparkes  
Email: KenSparkes@nlh.nl.ca

### Report Format

- Single Sample per page  
 Multiple Samples per page  
 Excel Format Included  
 Export

### Regulatory Requirements (Check):

- List Guidelines on Report  Do not list Guidelines on Report  
 PIRI  
 Tier 1  Res  Pot  Coarse  
 Tier 2  Com  N/Pot  Fine  
 Gas  Fuel  Lube  
 CCME  CDWQ  
 Industrial  NSEQS-Cont Sites  
 Commercial  HRM 101  
 Res/Park  Storm Water  
 Agricultural  Waste Water  
 FWAL  
 Sediment  Other \_\_\_\_\_

### Turnaround Time Required (TAT)

Regular TAT  5 to 7 working days

Rush TAT  Same day  1 day

2 days  3 days

Date Required: \_\_\_\_\_

### Invoice To

Same Yes  / No

Company: Newfoundland and Labrador Hydro  
Contact: Andre Marshall  
Address: Hydro Place, 500 Columbus Drive  
P.O. Box 12400 St. John's, NL, A1B 4K7  
Phone: (709) 693-7075 Fax: \_\_\_\_\_  
PO/Credit Card#: \_\_\_\_\_

Drinking Water Sample:  Yes  No Salt Water Sample  Yes  No  
Reg. No.: \_\_\_\_\_

Sample Identification	Date/Time Sampled	Sample Matrix	# Containers	Comments - Site/Sample Info. Sample Containment	Field Filtered/Preserved	Standard Water Analysis	Metals: <input type="checkbox"/> Total <input type="checkbox"/> Diss <input type="checkbox"/> Available	Mercury	<input type="checkbox"/> BOD <input type="checkbox"/> CBOD	pH	<input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> VSS	TKN	Total Phosphorus	Phenols	Tier 1: TPH/BTEX (PIR) <input type="checkbox"/> low level	Tier 2: TPH/BTEX Fractionation	CCME-CWS TPH/BTEX	VOC	THM	HAA	PAH	PCB	TO + EC <input type="checkbox"/> P/A <input type="checkbox"/> MPN <input type="checkbox"/> MF	<input type="checkbox"/> HPC <input type="checkbox"/> Pseudomonas	Fecal Coliform <input type="checkbox"/> MPN <input type="checkbox"/> MF	Other: TCLP/PCP	Other:	Hazardous (Y/N)	
Structure 5 Pole	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>		
Structure 5 Cross Brace	June 3, 2023		1	Treated wood sample																								<input checked="" type="checkbox"/>	
Structure 15 Pole	June 3, 2023		1	Treated wood sample																								<input checked="" type="checkbox"/>	
Structure 15 Cross Brace	June 3, 2023		1	Treated wood sample																								<input checked="" type="checkbox"/>	
Structure 26 Pole	June 3, 2023		1	Treated wood sample																								<input checked="" type="checkbox"/>	
Structure 26 Cross Brace	June 3, 2023		1	Treated wood sample																								<input checked="" type="checkbox"/>	
Structure 35 Pole	June 3, 2023		1	Treated wood sample																								<input checked="" type="checkbox"/>	
Structure 35 Cross Brace	June 3, 2023		1	Treated wood sample																								<input checked="" type="checkbox"/>	
Structure 45 Pole	June 3, 2023		1	Treated wood sample																								<input checked="" type="checkbox"/>	
Structure 45 Cross Brace	June 3, 2023		1	Treated wood sample																								<input checked="" type="checkbox"/>	
Structure 55 Pole	June 3, 2023		1	Treated wood sample																								<input checked="" type="checkbox"/>	
Structure 55 Cross Brace	June 3, 2023		1	Treated wood sample																								<input checked="" type="checkbox"/>	

Samples Relinquished By (Print Name): <b>Andre Marshall</b>	Date/Time: <b>JUNE 8, 23</b>	Samples Received By (Print Name): <i>[Signature]</i>	Date/Time: <b>June 8/23 @ 1:45</b>	Pink Copy - Client	Page 1 of <b>4</b>
Samples Relinquished By (Sign): <i>[Signature]</i>	Date/Time: <b>JUNE 8, 23</b>	Samples Received By (Sign): <i>[Signature]</i>	Date/Time:	Yellow Copy - AGAT	Nº:



## Chain of Custody Record

P: 902.468.8718 • F: 902.468.8924

Report to:

Company:

Same as COC#:

*75, 79, 85*

	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	SAMPLE MATRIX	COMMENTS	# OF CONTAINERS			Field Filtered/Preserved	Standard Water Analysis	Metals: <input type="checkbox"/> Total <input type="checkbox"/> Diss <input type="checkbox"/> Available	Mercury	<input type="checkbox"/> BOD <input type="checkbox"/> CBOD	pH	<input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> VSS	TKN	Total Phosphorus	Phenols	Tier 1: TPH/BTEX (PIR) <input type="checkbox"/> low level	Tier 2: TPH/BTEX Fractionation	CCME-CWS TPH/BTEX	VOC	THM	HAA	PAH	PCB	TC + EC <input type="checkbox"/> P/A <input type="checkbox"/> MPN <input type="checkbox"/> MF	<input type="checkbox"/> HPC <input type="checkbox"/> Pseudomonas	Fecal Coliform <input type="checkbox"/> MPN <input type="checkbox"/> MF	Other: <b>TCLP PCP</b>	Other:	Hazardous (Y/N)				
					VIALS / JARS	BAGS	BOTTLES																												
1	Str. 65 Pole	June 3, 2023		Treated wood sampl	1																												<input checked="" type="checkbox"/>		
2	Str. 65 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
3	Str. 75 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
4	Str. 75 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
5	Str. 85 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
6	Str. 85 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
7	Str. 95 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
8	Str. 95 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
9	Str. 105 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
10	Str. 105 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
11	Str. 115 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
12	Str. 115 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
13	Str. 125 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
14	Str. 125 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
15	Str. 145 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
16	Str. 145 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
17	Str. 154 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
18	Str. 154 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
19	Str. 165 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
20	Str. 165 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
21	Str. 175 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
22	Str. 175 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
23	Str. 185 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
24	Str. 185 Cross Brace	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	
25	Str. 195 Pole	June 3, 2023		Treated wood sampl	1																													<input checked="" type="checkbox"/>	

Samples Relinquished By (Print Name and Sign)	Date/Time	Samples Received By (Print Name and Sign)	Date/Time	Pink Copy - Client Yellow Copy - AGAT White Copy- AGAT	Page <u>2</u> of <u>4</u> N <sup>o</sup> :
Samples Relinquished By (Print Name and Sign)	Date/Time	Samples Received By (Print Name and Sign)	Date/Time		
Samples Relinquished By (Print Name and Sign)	Date/Time	Samples Received By (Print Name and Sign)	Date/Time		



# AGAT

# Laboratories

Unit 122 • 11 Morris Drive  
Dartmouth, NS  
B3B 1M2

webearth.agatlabs.com • www.agatlabs.com

### Laboratory Use Only

Arrival Condition:  Good  Poor (see notes)

Arrival Temperature: 7.8, 7.9, 8.5

Hold Time: \_\_\_\_\_

AGAT Job Number: \_\_\_\_\_

Notes: \_\_\_\_\_

## Chain of Custody Record

P: 902.468.8718 • F: 902.468.8924

### Report Information

Company: Newfoundland and Labrador Hydro  
Contact: Andre Marshall  
Address: Hydro Place, 500 Columbus Drive  
P.O. Box 12400 St. John's, NL, A1B 4K7  
Phone: (709) 693-7075 Fax: \_\_\_\_\_  
Client Project #: L1301  
AGAT Quotation: \_\_\_\_\_  
Please Note: If quotation number is not provided client will be billed full price for analysis.

### Report Information (Please print):

1. Name: Andre Marshall  
Email: AndreMarshall@nlh.nl.ca  
2. Name: Ken Sparkes  
Email: KenSparkes@nlh.nl.ca

### Report Format

- Single Sample per page  
 Multiple Samples per page  
 Excel Format Included  
 Export

### Turnaround Time Required (TAT)

Regular TAT  5 to 7 working days

Rush TAT  Same day  1 day

2 days  3 days

Date Required: \_\_\_\_\_

### Invoice To

Same Yes  / No

Company: Newfoundland and Labrador Hydro  
Contact: Andre Marshall  
Address: Hydro Place, 500 Columbus Drive  
P.O. Box 12400 St. John's, NL, A1B 4K7  
Phone: (709) 693-7075 Fax: \_\_\_\_\_  
PO/Credit Card#: \_\_\_\_\_

### Regulatory Requirements (Check):

- List Guidelines on Report  Do not list Guidelines on Report  
 PIRI  
 Tier 1  Res  Pot  Coarse  
 Tier 2  Com  N/Pot  Fine  
 Gas  Fuel  Lube  
 CCME  CDWQ  
 Industrial  NSEQS-Cont Sites  
 Commercial  HRM 101  
 Res/Park  Storm Water  
 Agricultural  Waste Water  
 FWAL  
 Sediment  Other \_\_\_\_\_

Drinking Water Sample:  Yes  No Salt Water Sample  Yes  No  
Reg. No.: \_\_\_\_\_

Sample Identification	Date/Time Sampled	Sample Matrix	# Containers	Comments - Site/Sample Info. Sample Containment	Field Filtered/Preserved	Standard Water Analysis	Metals: <input type="checkbox"/> Total <input type="checkbox"/> Diss <input type="checkbox"/> Available	Mercury	<input type="checkbox"/> BOD <input type="checkbox"/> CBOD	pH	<input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> VSS	TKN	Total Phosphorus	Phenols	Tier 1: TPH/BTEX (PIRI) <input type="checkbox"/> low level	Tier 2: TPH/BTEX Fractionation	CCME-CWS TPH/BTEX	VOC	THM	HAA	PAH	PCB	TC + EC <input type="checkbox"/> P/A <input type="checkbox"/> MPN <input type="checkbox"/> MF	<input type="checkbox"/> HPC <input type="checkbox"/> Pseudomonas	Fecal Coliform <input type="checkbox"/> MPN <input type="checkbox"/> MF	Other: <u>TCLP</u> <u>PCP</u>	Other:	Hazardous (Y/N)
Structure 195 Cross Brace	June 3, 2023		1	Treated wood sample																						<input checked="" type="checkbox"/>		
Structure 205 Pole	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>	
Structure 205 Cross Brace	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>	
Structure 215 Pole	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>	
Structure 215 Cross Brace	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>	
Structure 225 Pole	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>	
Structure 225 Cross Brace	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>	
Structure 235 Pole	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>	
Structure 235 Cross Brace	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>	
Structure 245 Pole	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>	
Structure 245 Cross Brace	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>	
Structure 255 Pole	June 3, 2023		1	Treated wood sample																							<input checked="" type="checkbox"/>	

Samples Relinquished By (Print Name):	Date/Time	Samples Received By (Print Name):	Date/Time	Pink Copy - Client Yellow Copy - AGAT White Copy - AGAT	Page <u>3</u> of <u>4</u> N°:
Samples Relinquished By (Sign):	Date/Time	Samples Received By (Sign):	Date/Time		



## Chain of Custody Record

7.8.7.98.5 P: 902.468.8718 • F: 902.468.8924

Report to:

Company: \_\_\_\_\_ Same as COC#: \_\_\_\_\_

	SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	SAMPLE MATRIX	COMMENTS	# OF CONTAINERS			Field Filtered/Preserved	Standard Water Analysis	Metals: <input type="checkbox"/> Total <input type="checkbox"/> Diss <input type="checkbox"/> Available	Mercury	<input type="checkbox"/> BOD <input type="checkbox"/> CBOD	pH	<input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> VSS	TKN	Total Phosphorus	Phenols	Tier 1: TPH/BTEX (PIR) <input type="checkbox"/> low level	Tier 2: TPH/BTEX Fractionation	CCME-CWS TPH/BTEX	VOC	THM	HAA	PAH	PCB	TC + EC <input type="checkbox"/> P/A <input type="checkbox"/> MPN <input type="checkbox"/> MF	<input type="checkbox"/> HPC <input type="checkbox"/> Pseudomonas	Fecal Coliform <input type="checkbox"/> MPN <input type="checkbox"/> MF	Other: <b>TCLP PCP</b>	Other:	Hazardous (Y/N)		
					VIALS/ JARS	BAGS	BOTTLES																										
1	Str. 255 Cross Brace	June 3, 2023		Treated wood sampl	1																										<input checked="" type="checkbox"/>		
2	Str. 265 Pole	June 3, 2023		Treated wood sampl	1																											<input checked="" type="checkbox"/>	
3	Str. 265 Cross Brace	June 3, 2023		Treated wood sampl	1																											<input checked="" type="checkbox"/>	
4	Str. 275 Pole	June 3, 2023		Treated wood sampl	1																											<input checked="" type="checkbox"/>	
5	Str. 275 Cross Brace	June 3, 2023		Treated wood sampl	1																											<input checked="" type="checkbox"/>	
6	Str. 292 Pole	June 3, 2023		Treated wood sampl	1																											<input checked="" type="checkbox"/>	
7	Str. 292 Cross Brace	June 3, 2023		Treated wood sampl	1																											<input checked="" type="checkbox"/>	
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Samples Relinquished By (Print Name and Sign):	Date/Time	Samples Received By (Print Name and Sign):	Date/Time	Pink Copy - Client Yellow Copy - AGAT White Copy - AGAT	Page <u>4</u> of <u>4</u> N <sup>o</sup> :
Samples Relinquished By (Print Name and Sign):	Date/Time	Samples Received By (Print Name and Sign):	Date/Time		
Samples Relinquished By (Print Name and Sign):	Date/Time	Samples Received By (Print Name and Sign):	Date/Time		