



ENGINEERING +  
ENVIRONMENTAL

EnSol, Inc.  
661 Main St.  
Niagara Falls, NY 14301  
716.285.3920

ensolinc.com

*Transmitted Via Electronic Mail*

September 9, 2021

Donald E. Canestrari, P.E.  
Section Chief – Bureau of Water Permits  
New York State Department of Environmental Conservation – Central Office  
625 Broadway  
Albany, NY 12233  
[donald.canestrari@dec.ny.gov](mailto:donald.canestrari@dec.ny.gov)

Re: Lockwood Ash Disposal Site SPDES Permit No. NY0107069  
Wet Weather Sampling Results

Dear Mr. Canestrari,

On January 7, 2021, the New York State Department of Environmental Conservation (NYSDEC or the Department) requested that sampling of the stormwater sediment basins at the Lockwood Ash Disposal Site (the Facility) be completed to allow the Department to conduct a comprehensive permit review. On behalf of Lockwood Hills LLC (Lockwood), EnSol, Inc. is submitting the results of sediment basin wet weather sampling, which was completed by Adirondack Environmental Services, Inc. (ADK) on August 18, 2021.

### ***Sampling Event & Methods***


The weather forecast was monitored for a qualifying storm event (i.e., predicted rainfall > 0.1 inch). On the day of sampling, ADK arrived onsite at approximately 8:40 am, about one hour and 20 minutes after the beginning of the storm event. Upon arrival, ADK observed that water was not yet running off into the basins. ADK observed the basins until they began receiving runoff at approximately 1:45 pm, then began taking samples at the outlet end of each pond at 15-minute intervals, staggering the sampling of the two ponds so sampling could be done concurrently. Sampling continued for three hours. The approximate sampling location at each sediment basin is depicted in Figure 1. During each 15-minute sampling period, one set of 40-mil vials was filled for low-level mercury and placed on ice, one 500-mL beaker was collected and poured into a clean, five-gallon bucket, and a third sample was taken for pH measurement in the field, from each basin. Following collection of the twelfth aliquot, the lid was placed on the five-gallon bucket for each basin. The buckets were shaken, and two 1000-L composite samples were poured off and placed on ice.

All samples were delivered the next day to ADK's laboratory for analysis. Each aliquot was analyzed for low-level mercury using EPA Method 1631. The composite samples were analyzed for total suspended solids via Standard Method 2540D and the following total metals via EPA Method 200.7 – aluminum, arsenic, boron, cadmium, copper, iron, manganese, selenium, and zinc.

### ***Storm Event***

The wet weather sampling event was completed by ADK on August 18, 2021. The three days preceding this storm event (August 15 – 17, 2021) had a precipitation total of 1.49 inches of rain at the Penn Yann Airport National

DATE



661 Main St.  
Niagara Falls, NY 14301  
716.285.3920

DRAFT

CLIENT:  
**LOCKWOOD HILLS LLC**

---

SITE:  
LOCKWOOD ASH DISPOSAL SITE

TOWN OF: TORREY  
COUNTY OF: YATES  
STATE OF: NEW YORK

---

PROJECT:  
SPDES PERMIT MODIFICATION

TITLE:  
**WET WEATHER EVENT SAMPLING PLAN**

---

ISSUE:  
DRAFT

DES:	DRN:	CHK:
BA	SD	BA

---

PROJECT NO.: 31-1619      DATE: SEPTEMBER 2021

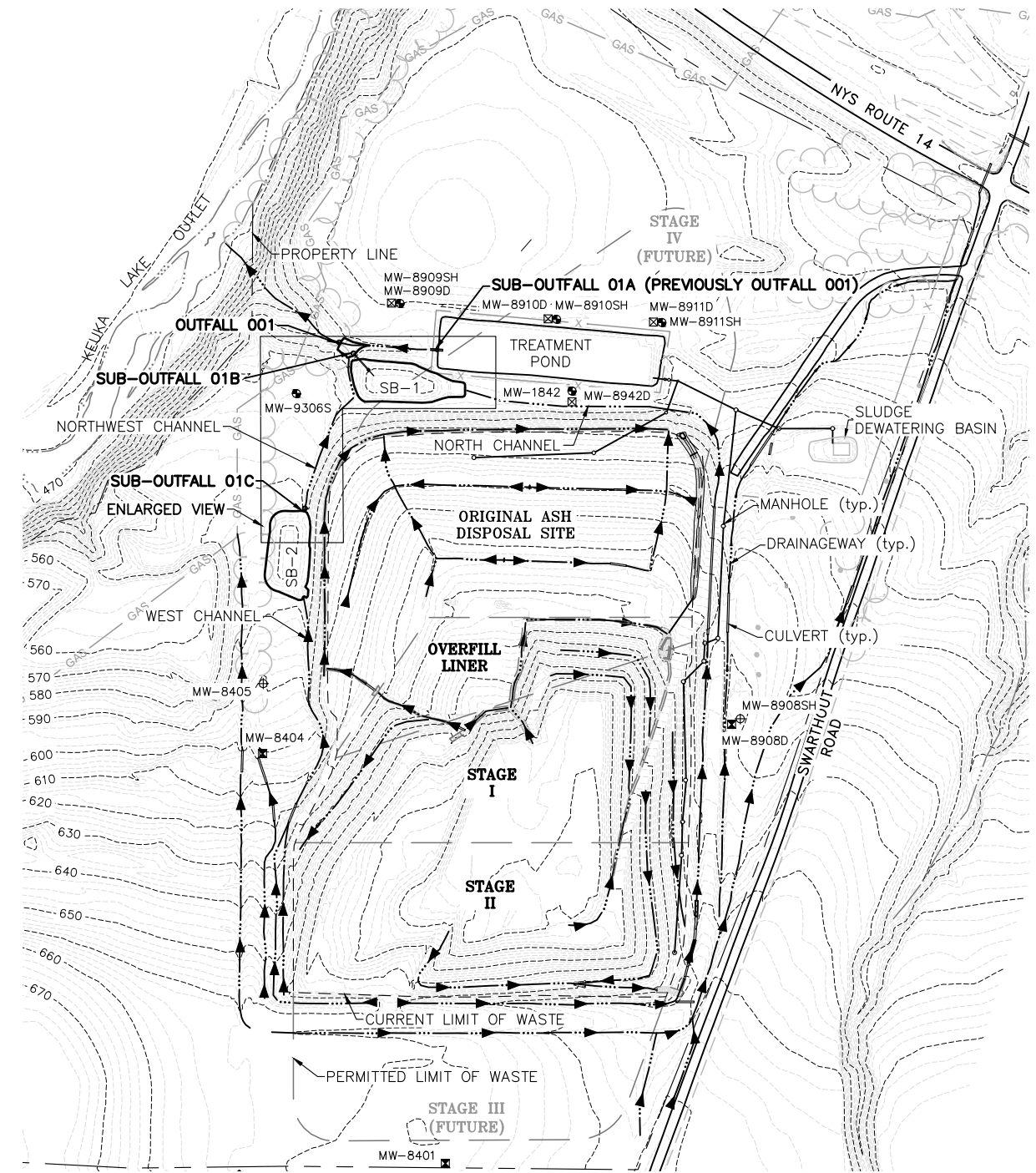
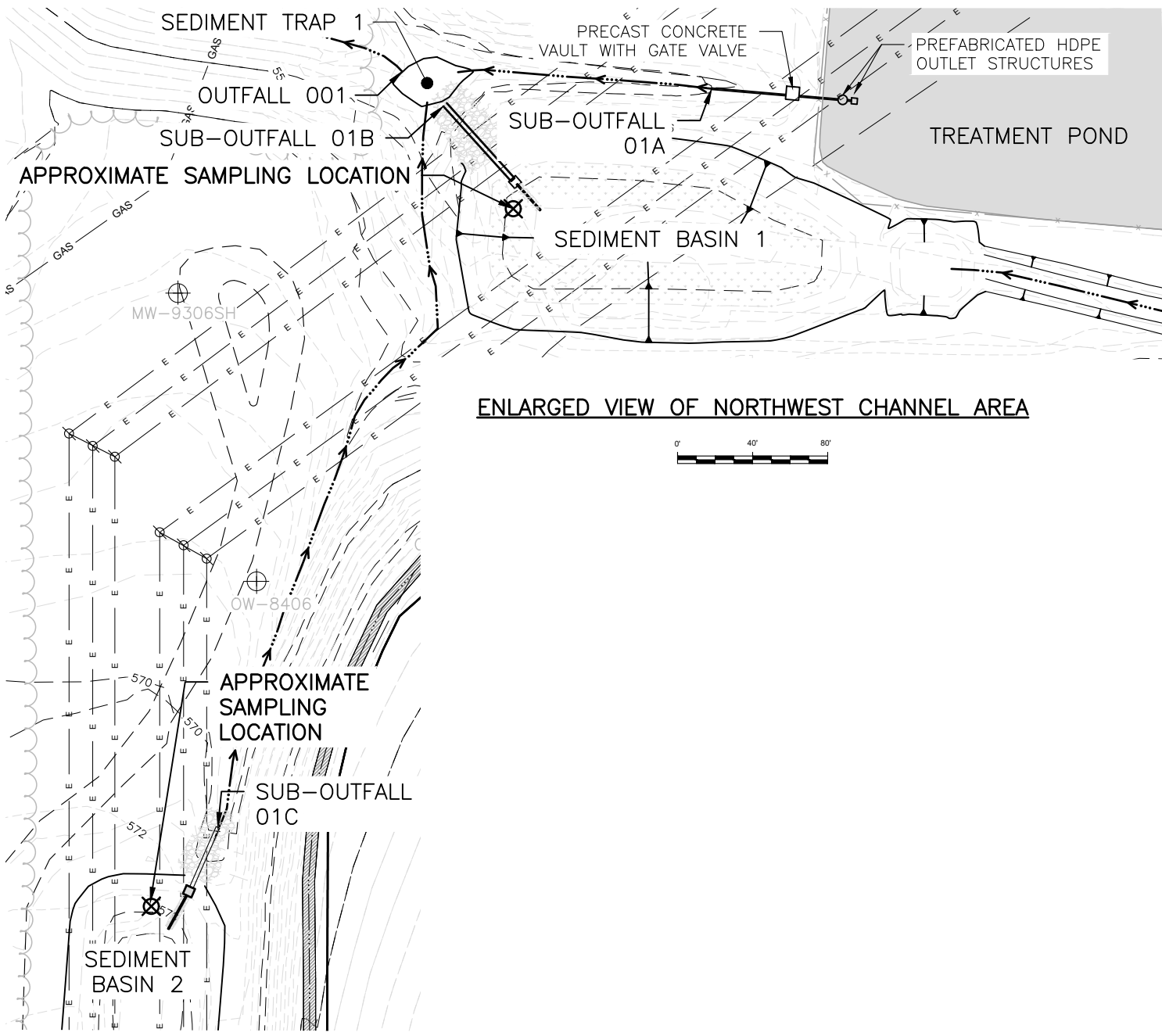
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GRAPHIC SCALE:  
NOTED

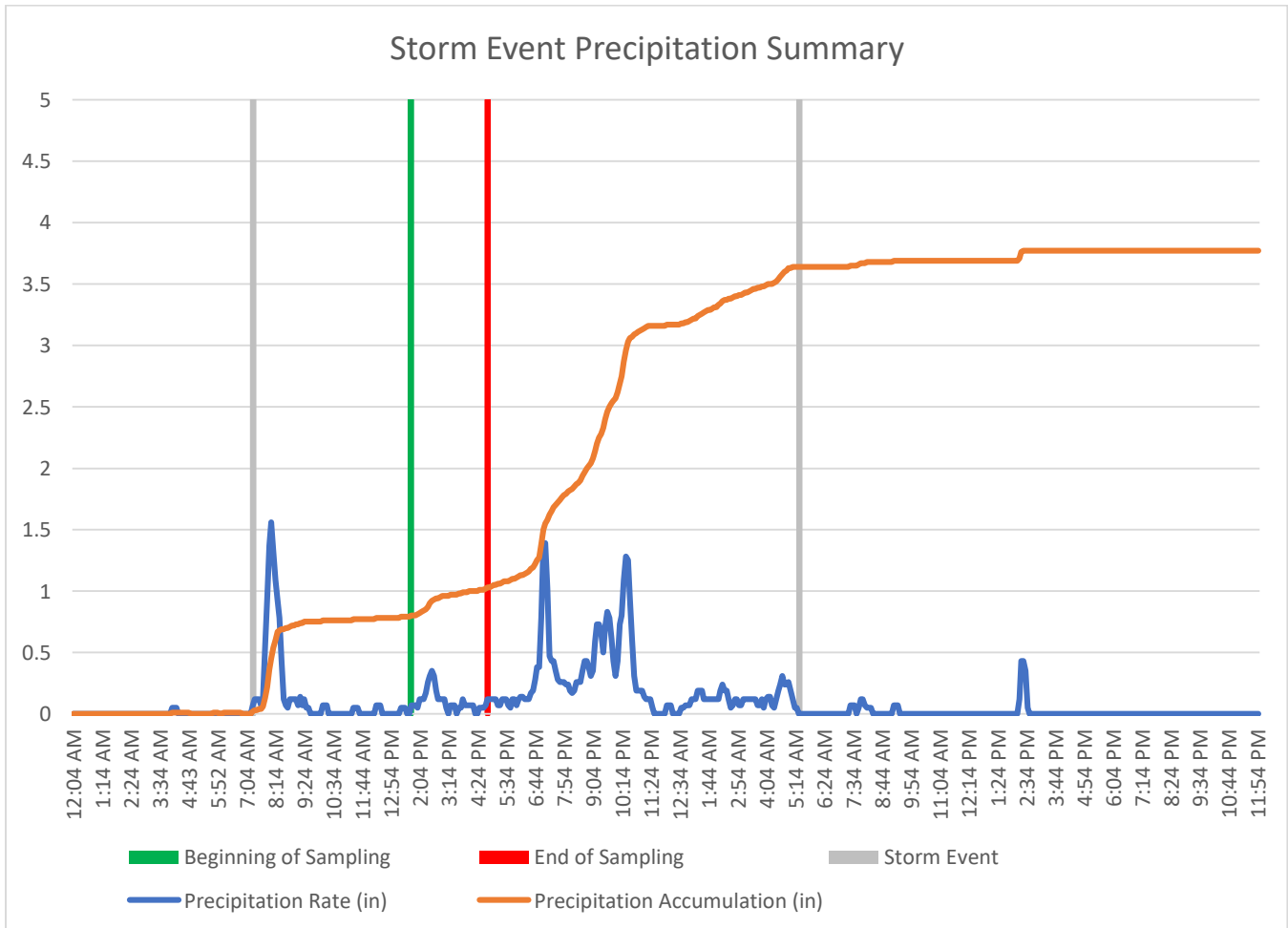
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FILE:  
Proposed Outfall Locations.dwg

REV NO.	FIGURE NO.
0	1



Oceanic and Atmospheric Administration (NOAA) Weather Station, located approximately 5.4 miles southeast of the Facility. The storm event on August 18 and 19, 2021, resulted in 3.64 inches of rainfall at KNYPENNY11, a Weather Underground station located approximately 2.1 miles north of the Penn Yann Airport. KNYPENNY11 was used to define the storm event because it occurred over two days and the NOAA weather station did not provide the hourly precipitation data necessary to define the event. Sampling was conducted between 1:45 pm and 4:50 pm, during which time 0.23 inches of precipitation fell. A chart depicting precipitation from the storm event in relation to the sampling effort is included below. This storm event met the criteria for a qualifying storm event, with rainfall totaling well over the required 0.1 inches.



**Figure 2: Storm Event Precipitation Summary**

Notes on ADK’s chain of custody forms indicate that overland flow was observed entering both sediment basins and there was sufficient runoff to cause an obvious rise of the water level in the sediment basins.

**Results**

A summary of the wet weather sampling results is included below in Table 1. The pH and mercury values reported for the aliquots are averages of the 12 aliquots from each basin accompanied by their respective standard deviations. The wet weather sampling results were compared to the current daily maximum permit limits associated with

Lockwood's currently permitted Outfall 001. The sampling results indicated that all measured parameters were well below their corresponding daily maximum permit limit at the time of sampling.

**Table 1. Wet Weather Sampling Results Summary**

<i>Parameter</i>	<i>Daily Maximum Outfall 001 Permit Limits</i>	<i>MONITORING POINT</i>	
		<i>Sediment Basin 1</i>	<i>Sediment Basin 2</i>
pH (SU) <sup>+</sup>	6.0 – 9.0	7.7 ± 0.094	7.6 ± 0.074
Aluminum, Al (mg/L)	2.4	0.045 J*	0.080 J*
Arsenic, As (mg/L)	0.1	<0.005	<0.005
Boron, B (mg/L)	Monitor	0.67	0.06
Cadmium, Cd (mg/L)	0.11	<0.005	<0.005
Copper, Cu (mg/L)	1.0	0.004 J*	<0.005
Iron, Fe (mg/L)	4.0	0.092	0.22
Manganese, Mn (mg/L)	3.0	0.16	0.16
Mercury, Hg (ng/L) <sup>+</sup>	50	1.8 ± 0.40	1.4 ± 0.17
Selenium, Se (mg/L)	0.07	<0.005	<0.005
Total Suspended Solids (mg/L)	50	4.4	5.5
Zinc, Zn (mg/L)	2.0	0.009 J*	0.012

<sup>+</sup> Average (n=12) ± standard deviation.

\* A "J" indicates the reported value was below the reporting limit but above the method detection limit, and therefore, should be considered an estimate.

### **Summary**

As requested, Lockwood has completed the wet weather sampling event for each sediment basin. Sampling occurred during a suitable storm event that caused observable runoff into the basins and the water level in the basins to noticeably rise. The results of monitoring indicated that all measured parameters were well below their corresponding daily maximum permit limit for Outfall 001 at the time of sampling.

We trust this letter report satisfies the Department's request for wet weather sampling of the Facility's stormwater sediment basins. Should you have any questions or comments, please do not hesitate to contact us.

Sincerely;  
**EnSol, Inc.**

Bethany Acquisto, PhD  
 Senior Engineer/Environmental Group Leader

Ec: Catherine Winters – NYSDEC Central Office  
 Tara Blum – NYSDEC Region 8  
 Jonathan Tamargo – NYSDEC Region 8  
 Kimberly Merchant – NYSDEC Region 8

Tim Panaski – Lockwood Hills LLC  
Ryan Elliott, MS – EnSol, Inc.

Attachments: (1) Lab Report – Basin 1 Stormwater  
(2) Lab Report – Basin 2 Stormwater

# ***Attachment 1***

EnSol, Inc.

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ENGINEERING + ENVIRONMENTAL

## ***Lab Report – Basin 1 Stormwater***



**Experience is the solution**

314 North Pearl Street ♦ Albany, New York 12207  
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

August 30, 2021

Chris Gill  
Lockwood Hills LLC  
590 Plant Road, PO Box 187  
Dresden, NY 14441  
TEL: (315) 536-2359

Work Order No: 210819088

RE:

Basin 1 Stormwater

Dear Chris Gill:

Adirondack Environmental Services, Inc received 13 samples on 8/19/2021 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Tara Daniels".

Tara Daniels  
Laboratory Director

ELAP#: 10709

**Lockwood Hills LLC**

**Date:** 30-Aug-21

Basin 1 Stormwater

**Lab WorkOrder: 210819088**

The sampling was performed in accordance with the AES field sampling procedures and/or the client specified sampling procedures. Sample containers were supplied by Adirondack Environmental Services.

**Definitions - RL: Reporting Limit DF: Dilution factor**

<b>Qualifiers:</b> ND : Not Detected at reporting limit	C: CCV below acceptable Limits
J: Analyte detected below quantitation limit	C+: CCV above acceptable Limits
B: Analyte detected in Blank	S: LCS Spike recovery is below acceptable limits
X : Exceeds maximum contamination limit	S+: LCS Spike recovery is above acceptable limits
H: Hold time exceeded	Z: Duplication outside acceptable limits
N: Matrix Spike below acceptable limits	T : Tentatively Identified Compound-Estimated
N+: Matrix Spike is above acceptable limits	E :Above quantitation range-Estimated

**Note : All Results are reported as wet weight unless noted**

**The results relate only to the items tested. Information supplied by the client is assumed to be correct.**



**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-1  
**Collection Date:** 8/18/2021 1:45:00 PM  
**Lab Sample ID:** 210819088-001  
**Matrix:** WASTEWATER

---

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.6 S.U. 8/18/2021 1:45:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 2.4 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-2  
**Collection Date:** 8/18/2021 2:00:00 PM  
**Lab Sample ID:** 210819088-002  
**Matrix:** WASTEWATER

---

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.6 S.U. 8/18/2021 2:00:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.5 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-3  
**Collection Date:** 8/18/2021 2:15:00 PM  
**Lab Sample ID:** 210819088-003  
**Matrix:** WASTEWATER

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.6 S.U. 8/18/2021 2:15:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.8 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-4  
**Collection Date:** 8/18/2021 2:30:00 PM  
**Lab Sample ID:** 210819088-004  
**Matrix:** WASTEWATER

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<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.6 S.U. 8/18/2021 2:30:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 2.0 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-5  
**Collection Date:** 8/18/2021 2:45:00 PM  
**Lab Sample ID:** 210819088-005  
**Matrix:** WASTEWATER

---

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.8 S.U. 8/18/2021 2:45:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 2.1 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-6  
**Collection Date:** 8/18/2021 3:00:00 PM  
**Lab Sample ID:** 210819088-006  
**Matrix:** WASTEWATER

---

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.7 S.U. 8/18/2021 3:00:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 2.2 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-7  
**Collection Date:** 8/18/2021 3:15:00 PM  
**Lab Sample ID:** 210819088-007  
**Matrix:** WASTEWATER

---

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.7 S.U. 8/18/2021 3:15:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.6 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-8  
**Collection Date:** 8/18/2021 3:30:00 PM  
**Lab Sample ID:** 210819088-008  
**Matrix:** WASTEWATER

---

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.8 S.U. 8/18/2021 3:30:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.9 0.5 ng/L 1 8/24/2021



**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-9  
**Collection Date:** 8/18/2021 3:45:00 PM  
**Lab Sample ID:** 210819088-009  
**Matrix:** WASTEWATER

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.8 S.U. 8/18/2021 3:45:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.8 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-10  
**Collection Date:** 8/18/2021 4:00:00 PM  
**Lab Sample ID:** 210819088-010  
**Matrix:** WASTEWATER

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<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.8 S.U. 8/18/2021 4:00:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 2.0 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-11  
**Collection Date:** 8/18/2021 4:15:00 PM  
**Lab Sample ID:** 210819088-011  
**Matrix:** WASTEWATER

---

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.8 S.U. 8/18/2021 4:15:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.0 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1-12  
**Collection Date:** 8/18/2021 4:30:00 PM  
**Lab Sample ID:** 210819088-012  
**Matrix:** WASTEWATER

---

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.8 S.U. 8/18/2021 4:30:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.3 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819088  
**Reference:** / Basin 1 Stormwater  
**PO#:**

**Client Sample ID:** Basin 1  
**Collection Date:** 8/18/2021  
**Lab Sample ID:** 210819088-013  
**Matrix:** WASTEWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**ICP METALS - EPA 200.7 REV 4.4**

Analyst: **SM**

( Prep: - 8/20/2021 )

Aluminum	ND	0.100		mg/L	1	8/27/2021
Arsenic	ND	0.005		mg/L	1	8/27/2021
Boron	0.667	0.050		mg/L	1	8/27/2021
Cadmium	ND	0.005		mg/L	1	8/27/2021
Copper	ND	0.005		mg/L	1	8/27/2021
Iron	0.092	0.050		mg/L	1	8/27/2021
Manganese	0.158	0.020		mg/L	1	8/27/2021
Selenium	ND	0.005		mg/L	1	8/27/2021
Zinc	ND	0.010		mg/L	1	8/27/2021

**TOTAL SUSPENDED SOLIDS - SM 2540D-2011**

Analyst: **ZM**

( Prep: Gen Prep - 8/25/2021 )

TSS (Residue, Non-Filterable)	4.4	4.0		mg/L	1	8/25/2021
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314 North Pearl Street  
 Albany, New York 12207  
 518-434-4546/434-0891 FAX

# CHAIN OF CUSTODY RECORD

AES Work Order #

210819088

Experience is the solution

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: <i>Lockwood Hills</i>		Address:	
Send Report To: <i>Chen Gill</i>		Project Name (Location): <i>Basin 1 Stormwater</i>	Samplers: (Names): <i>K. Ambrose</i>
Client Phone No.:	Client Email:	PO Number:	Samplers: (Signature): <i>[Signature]</i>

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grab		
001	Basin 1-1	8/18/21	0345	WW		X	2	LUH, Field pH 7.6su
002	-2		1400					7.6su
003	-3		1415					7.6su
004	-4		1430					7.6su
005	-5		1445					7.8su
006	-6		1500					7.7su
007	-7		1515					7.7su
008	-8		1530					7.8su
009	-9		1545					7.8su
010	-10		1600					7.8su
011	-11		1615					7.8su
012	-12		1630					7.8su
013	Basin 1		1630		X		2	TSS, TCP Metals (As, B, Cd, Cu, Fe, Mn, Se, Zn)

Shipment Arrived Via:  
 FedEx UPS Client  AES Other: \_\_\_\_\_

CC Report To / Special Instructions/Remarks:  
*obvious rise in level of water in basin observed ground flow into basin*  
*☺ here*

Turnaround Time Request:  
 1 Day  3 Day  Normal  
 2 Day  5 Day  
Note: Samples received after 3:30 pm are considered next business day

Relinquished by: (Signature) *[Signature]*

Received by: (Signature) *[Signature]*

Date/Time  
 8/19/21 / 2:00 pm

Relinquished by: (Signature) *[Signature]*

Received for Laboratory by: *[Signature]*

Date/Time  
 8/19/21 4:50 pm

TEMPERATURE  
 Ambient or Chilled  
 Notes: *3°C*

AES Bottles  
 Y  N

PROPERLY PRESERVED  
 Y  N  
 Notes: \_\_\_\_\_

RECEIVED WITHIN HOLDING TIMES  
 Y  N  
 Notes: \_\_\_\_\_

WHITE - Lab Copy

YELLOW - Sampler Copy



210819088



**Experience is the solution**

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

## TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.**'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.

# ***Attachment 1***

EnSol, Inc.

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ENGINEERING + ENVIRONMENTAL

## ***Lab Report – Basin 2 Stormwater***





**Experience is the solution**

314 North Pearl Street ♦ Albany, New York 12207  
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

August 30, 2021

Chris Gill  
Lockwood Hills LLC  
590 Plant Road, PO Box 187  
Dresden, NY 14441

Work Order No: 210819083

TEL: (315) 536-2359

RE:

Basin 2 Stormwater

Dear Chris Gill:

Adirondack Environmental Services, Inc received 13 samples on 8/19/2021 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Tara Daniels".

Tara Daniels  
Laboratory Director

ELAP#: 10709

**Lockwood Hills LLC**

**Date:** 30-Aug-21

Basin 2 Stormwater

**Lab WorkOrder: 210819083**

The sampling was performed in accordance with the AES field sampling procedures and/or the client specified sampling procedures. Sample containers were supplied by Adirondack Environmental Services.

**Definitions - RL: Reporting Limit DF: Dilution factor**

<b>Qualifiers:</b> ND : Not Detected at reporting limit	C: CCV below acceptable Limits
J: Analyte detected below quantitation limit	C+: CCV above acceptable Limits
B: Analyte detected in Blank	S: LCS Spike recovery is below acceptable limits
X : Exceeds maximum contamination limit	S+: LCS Spike recovery is above acceptable limits
H: Hold time exceeded	Z: Duplication outside acceptable limits
N: Matrix Spike below acceptable limits	T : Tentatively Identified Compound-Estimated
N+: Matrix Spike is above acceptable limits	E :Above quantitation range-Estimated

**Note : All Results are reported as wet weight unless noted**

**The results relate only to the items tested. Information supplied by the client is assumed to be correct.**

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-1  
**Collection Date:** 8/18/2021 1:50:00 PM  
**Lab Sample ID:** 210819083-001  
**Matrix:** WASTEWATER

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<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.6 S.U. 8/18/2021 1:50:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.6 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-2  
**Collection Date:** 8/18/2021 2:05:00 PM  
**Lab Sample ID:** 210819083-002  
**Matrix:** WASTEWATER

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<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.6 S.U. 8/18/2021 2:05:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.4 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-3  
**Collection Date:** 8/18/2021 2:20:00 PM  
**Lab Sample ID:** 210819083-003  
**Matrix:** WASTEWATER

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE Analyst: **FLD**

pH (E150.1)	7.6			S.U.		8/18/2021 2:20:00 PM
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LOW LEVEL MERCURY - EPA 1631E Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury	1.2	0.5		ng/L	1	8/24/2021
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**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-4  
**Collection Date:** 8/18/2021 2:35:00 PM  
**Lab Sample ID:** 210819083-004  
**Matrix:** WASTEWATER

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<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.6 S.U. 8/18/2021 2:35:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.4 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-5  
**Collection Date:** 8/18/2021 2:50:00 PM  
**Lab Sample ID:** 210819083-005  
**Matrix:** WASTEWATER

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.6 S.U. 8/18/2021 2:50:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.5 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

**Date:** 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-6  
**Collection Date:** 8/18/2021 3:05:00 PM  
**Lab Sample ID:** 210819083-006  
**Matrix:** WASTEWATER

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<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1)	7.6			S.U.		8/18/2021 3:05:00 PM
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**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury	1.6	0.5		ng/L	1	8/24/2021
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**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-7  
**Collection Date:** 8/18/2021 3:20:00 PM  
**Lab Sample ID:** 210819083-007  
**Matrix:** WASTEWATER

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE Analyst: **FLD**

pH (E150.1)	7.7			S.U.		8/18/2021 3:20:00 PM
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LOW LEVEL MERCURY - EPA 1631E Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury	1.5	0.5		ng/L	1	8/24/2021
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**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-8  
**Collection Date:** 8/18/2021 3:35:00 PM  
**Lab Sample ID:** 210819083-008  
**Matrix:** WASTEWATER

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE</b>						Analyst: <b>FLD</b>
pH (E150.1)	7.6			S.U.		8/18/2021 3:35:00 PM
<b>LOW LEVEL MERCURY - EPA 1631E</b>						Analyst: <b>SM</b>
( Prep: 1631E - 8/23/2021 )						
Mercury	1.4	0.5		ng/L	1	8/24/2021

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**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-9  
**Collection Date:** 8/18/2021 3:50:00 PM  
**Lab Sample ID:** 210819083-009  
**Matrix:** WASTEWATER

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE Analyst: **FLD**

pH (E150.1)	7.6			S.U.		8/18/2021 3:50:00 PM
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LOW LEVEL MERCURY - EPA 1631E Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury	1.0	0.5		ng/L	1	8/24/2021
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**Adirondack Environmental Services, Inc**

**Date:** 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-10  
**Collection Date:** 8/18/2021 4:05:00 PM  
**Lab Sample ID:** 210819083-010  
**Matrix:** WASTEWATER

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<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.7 S.U. 8/18/2021 4:05:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.5 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-11  
**Collection Date:** 8/18/2021 4:20:00 PM  
**Lab Sample ID:** 210819083-011  
**Matrix:** WASTEWATER

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.6 S.U. 8/18/2021 4:20:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.3 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2-12  
**Collection Date:** 8/18/2021 4:35:00 PM  
**Lab Sample ID:** 210819083-012  
**Matrix:** WASTEWATER

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<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE** Analyst: **FLD**

pH (E150.1) 7.6 S.U. 8/18/2021 4:35:00 PM

**LOW LEVEL MERCURY - EPA 1631E** Analyst: **SM**

( Prep: 1631E - 8/23/2021 )

Mercury 1.4 0.5 ng/L 1 8/24/2021

**Adirondack Environmental Services, Inc**

Date: 30-Aug-21

**CLIENT:** Lockwood Hills LLC  
**Work Order:** 210819083  
**Reference:** / Basin 2 Stormwater  
**PO#:**

**Client Sample ID:** Basin 2  
**Collection Date:** 8/18/2021  
**Lab Sample ID:** 210819083-013  
**Matrix:** WASTEWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**ICP METALS - EPA 200.7 REV 4.4**

Analyst: **SM**

( Prep: - 8/20/2021 )

Aluminum	<b>ND</b>	0.100		mg/L	1	8/27/2021
Arsenic	<b>ND</b>	0.005		mg/L	1	8/27/2021
Boron	<b>0.058</b>	0.050		mg/L	1	8/27/2021
Cadmium	<b>ND</b>	0.005		mg/L	1	8/27/2021
Copper	<b>ND</b>	0.005		mg/L	1	8/27/2021
Iron	<b>0.215</b>	0.050		mg/L	1	8/27/2021
Manganese	<b>0.164</b>	0.020		mg/L	1	8/27/2021
Selenium	<b>ND</b>	0.005		mg/L	1	8/27/2021
Zinc	<b>0.012</b>	0.010		mg/L	1	8/27/2021

**TOTAL SUSPENDED SOLIDS - SM 2540D-2011**

Analyst: **ZM**

( Prep: Gen Prep - 8/25/2021 )

TSS (Residue, Non-Filterable)	<b>5.5</b>	1.0		mg/L	1	8/25/2021
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314 North Pearl Street  
Albany, New York 12207  
518-434-4546/434-0891 FAX

# CHAIN OF CUSTODY RECORD

AES Work Order #  
**210819083**

Experience is the solution

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: <i>Lockwood Hills</i>		Address:	
Send Report To: <i>Chris Coill</i>		Project Name (Location): <i>Basin 2 Spormunder</i>	Samplers: (Names): <i>K. Ambrose</i>
Client Phone No:	Client Email:	PO Number:	Samplers: (Signature): <i>[Signature]</i>

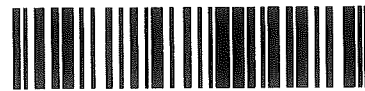
AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grab		
	<i>Basin 2 - 1</i>	<i>8/18/21</i>	<i>1350</i>	<i>W</i>		<i>X</i>	<i>2</i>	<i>LUH<sub>2</sub> Field pH</i>
	<i>2</i>		<i>1405</i>					<i>7.4<sub>su</sub></i>
	<i>3</i>		<i>1420</i>					<i>7.6<sub>su</sub></i>
	<i>4</i>		<i>1435</i>					<i>7.6<sub>su</sub></i>
	<i>5</i>		<i>1450</i>					<i>7.6<sub>su</sub></i>
	<i>6</i>		<i>1505</i>					<i>7.6<sub>su</sub></i>
	<i>7</i>		<i>1520</i>					<i>7.7<sub>su</sub></i>
	<i>8</i>		<i>1535</i>					<i>7.6<sub>su</sub></i>
	<i>9</i>		<i>1550</i>					<i>7.6<sub>su</sub></i>
	<i>10</i>		<i>1605</i>					<i>7.7<sub>su</sub></i>
	<i>11</i>		<i>1620</i>					<i>7.6<sub>su</sub></i>
	<i>12</i>		<i>1635</i>					<i>7.6<sub>su</sub></i>
	<i>Basin 2</i>		<i>1635</i>		<i>X</i>			<i>TSS, ICP Metals (Al, As, B, Cd, Cu, Fe, Mn, Se, Zn)</i>

Shipment Arrived Via: FedEx UPS Client <input checked="" type="checkbox"/> AES Other: _____		CC Report To / Special Instructions/Remarks: <i>obvious rise in level of basin observed ground flow into basin ⊖ discharge</i>	
Turnaround Time Request: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 2 Day <input type="checkbox"/> 5 Day <small>Note: Samples received after 3:30 pm are considered next business day</small>			
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date/Time <i>8/19/21/2:00 pm</i>	
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature)	Date/Time	
Relinquished by: (Signature) <i>[Signature]</i>	Received for Laboratory by: <i>[Signature]</i>	Date/Time <i>8/19/21 4:50 pm</i>	

TEMPERATURE Ambient or Chilled Notes: <i>3c</i>	AES Bottles Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	PROPERLY PRESERVED Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	RECEIVED WITHIN HOLDING TIMES Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
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WHITE - Lab Copy

YELLOW - Sampler Copy



210819083





**Experience is the solution**

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

## TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.**'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.