EnSol, Inc.
3000 Alt. Blvd.,
Grand Island, NY 14072
716.285.3920

ensolinc.com

Transmitted Via Electronic Mail

January 17, 2025

Dale Irwin
President
Lockwood Hills LLC
590 Plant Road
Dresden, New York 14441
dirwin@greenidge.com

Re: Lockwood Ash Disposal Site
2024 Annual Qualified Professional Engineer Facility Inspection

Dear Mr. Irwin:

The purpose of this letter is to report the 2024 Annual Qualified Professional Engineer Inspection findings for the Lockwood Ash Disposal Site (LADS). This annual inspection was conducted for the LADS pursuant to the Coal Combustion Residuals (CCR) Rule, 40 CFR 257.84 (b). The inspection includes a review of available information regarding the status and condition of the facility and a visual inspection to identify signs of distress or malfunction. The inspection report addresses the following items:

- Any changes in geometry of the structure since the previous annual inspection;
- The approximate volume of CCR contained in the unit at the time of inspection;
- Any appearances of any actual or potential structural weakness of the Facility, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the facility; and
- Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.

The visual inspection occurred on November 1, 2024, the following sections describe the results of the visual inspection and the review of available information.

Review of Available Information

The following information was reviewed for the Annual Inspection:

- Weekly Qualified Person Inspection Forms;
- Waste disposal records;
- Any landfill operating changes; and
- Citizen complaint log.

Weekly Qualified Person Facility Inspection forms were reviewed for the LADS. The June 12, and August 7, 2024 Inspection Forms noted troubleshooting and repairs for the Sediment Basin 2 flow meter. The July 17, 2024 Inspection Form noted erosional rilling on the access road from recent storms. No other corrective actions were noted during the subject time period. No landfill operating changes were noted. No known citizen complaints were reported.

No waste was received by the LADS in 2024 prior to the inspection. There was no substantial change to the geometry of the Landfill. The quantity of waste contained at the LADS which primarily consists of CCR is approximately 2,038,550 tons.

Visual Inspection

During the visual inspection the Landfill cover condition, stormwater controls, leachate collection system, environmental monitoring system, potential for dust, and waste placement were observed. No sloughing of cover soil or leachate breakouts were observed. The cover vegetation was observed to be dense and continuous across the LADS. Relatively small areas of loose soil were observed on steeper slopes where vegetation was cut too low during mowing. Drainage ditches did not show signs of erosion, and the stormwater sediment basins' inlets and outlets were not obstructed. No dust was observed during the visual inspection. No appearances of any actual or potential structural weakness of the Landfill were observed.

Environmental monitoring wells were observed to be in good condition, with no ponding of surface water around the wells. Leachate was observed within the leachate collection system. No significant sediment buildup was observed within the leachate collection system.

The following corrective actions were identified during the Annual Inspection:

- Repair clean out CO-5, replace caps for CO-6, CO-13, and CO-15, and CO-32.
- Fill animal burrows and grade loose soil areas as shown on the inspection map.
- Fill in erosional rilling and ruts.
- Install cover with lock for MW-8910SH, replace lock for MW-9306S.

The corrective actions identified were remedied in December 2025. Cover soil was placed to fill the animal burrows and ruts. The identified aboveground leachate collection system cleanouts were repaired and extended with new PVC pipe segments and caps. MW-8910SH is planned to be replaced due to low recovery, therefore the cover and lock were not replaced. The Annual Qualified Professional Engineer Facility Inspection Form including supplemental maps are included in Attachment 1, and photographs are included in Attachment 2.

Professional Engineer Certification

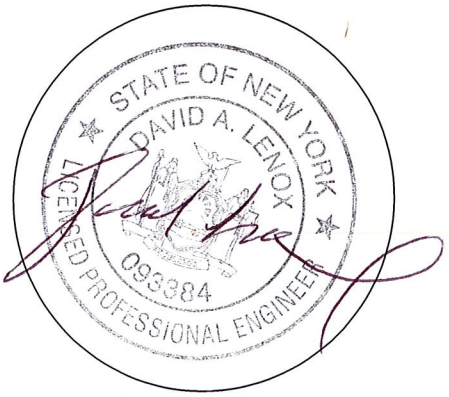
The following statement certifies that the information contained within this Annual Inspection Report was prepared under the direct supervision of a professional engineer licensed to practice in the State of New York.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name: DAVID A. LENOX

Company Name: ENSOL, INC.

License No: 093384



JANUARY 17, 2025

Please let me know if you have any questions.

Sincerely,

EnSol, Inc.

David Lenox, PE
Senior Engineer

ec: Jonathan Carpenter – Greenidge Generation LLC
Bethany Acquisto – EnSol, Inc.

Attachment 1

Annual Qualified Professional Engineer Facility Inspection Form

LOCKWOOD ASH DISPOSAL SITE

Annual Qualified Professional Engineer Facility Inspection Form

(pursuant to 40CFR Part 257.84)

Annual Inspection Covering Period from JANUARY, 20 24 to JANUARY, 20 25

Inspector: DAVID LENOX, PE

Weather Conditions: CLOUDY, WINDY, 54°F

Date: 11/1/2024

Time: 11:00AM - 2:30PM

FIELD INSPECTION ITEMS

OK	NA	CA		
			1	**Landfill Cover Condition**
X			a	No sloughing of cover soils/ No leachate breakouts
X			b	No erosion rills/gullies
		X	c	No animal burrows, dens, etc.
X			d	No surface water ponding on cover
			2	**Stormwater Controls**
		X	a	Water flows without obstruction through ditches
X			b	Drainage ditches do not show signs of erosion
X			c	Stormwater Ponds in satisfactory condition
			3	**Leachate Collection System**
X			a	Confirm presence of leachate in system
		X	b	Confirm proper function of system
			4	**Environmental Monitoring**
		X	a	Confirm monitoring well seals and casings are in good condition
X			b	Confirm no ponding of surface water around wells
			5	**Waste Placement**
	X		a	Waste placed in designated operating area
	X		b	Non-contact surface water is diverted away from active area
X			**6**	**Dust is effectively being controlled onsite**
X			**7**	**Review results of any previous annual inspection findings**

OFFICE RECORDS REVIEW

1. **Review weekly inspection records**
2. **Waste disposal records for reporting period**
3. **Landfill operating changes reported by Owner/Operator**
4. **Review Citizen Complaint Log**

Mark form as follows:			NOTE:	For any item marked **CA**, a description of the issue and its proposed or implemented solution must be noted on the Current Corrective Actions portion of this form.
OK	=	Condition Met		
NA	=	Not Applicable (at this time)		
CA	=	Corrective Action Required		

CURRENT CORRECTIVE ACTIONS (Note Date, Item Number and Action To Be Taken). Use additional sheets as necessary.

CA-1 FILL ANIMAL BURROWS, SEE MAP 1, GRADE AND SEED LOOSE SOIL AREAS FROM MOWING STEEP SLOPES.

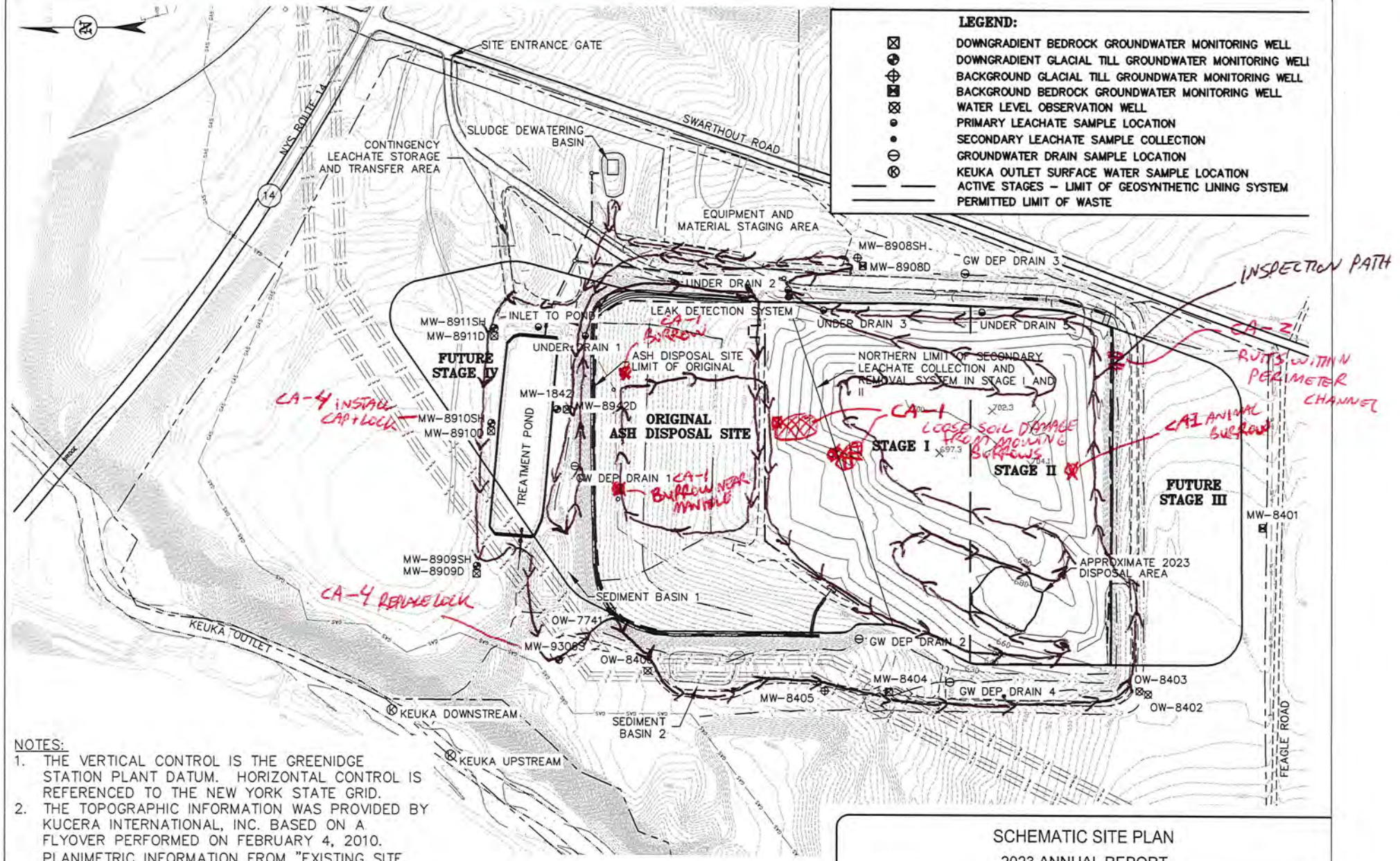
CA-2 FILL IN RUTS IN SOUTH PERIMETER CHANNEL.

CA-3 REPAIR CLEANOUT - CO-5, REPLACE CAPS FOR CO-6, CO-13, CO-15, CO-32

CA-4 INSTALL COVER WITH LOCK FOR MW-8210SH, REPLACE LOCK FOR MW-9306S

Inspector Signature:

2024 ANNUAL PE INSPECTION 11/1/2024 CORRECTIVE ACTIONS MAP 1 of 2



NOTES:

1. THE VERTICAL CONTROL IS THE GREENIDGE STATION PLANT DATUM. HORIZONTAL CONTROL IS REFERENCED TO THE NEW YORK STATE GRID.
2. THE TOPOGRAPHIC INFORMATION WAS PROVIDED BY KUCERA INTERNATIONAL, INC. BASED ON A FLYOVER PERFORMED ON FEBRUARY 4, 2010. PLANIMETRIC INFORMATION FROM "EXISTING SITE CONDITIONS" BY FAGAN ENGINEERS (FILE NUMBER 2K003-1) DATED APRIL 2000.
3. THE TOPOGRAPHIC INFORMATION ON THE ACTIVE STAGES OF THE LANDFILL WERE UPDATED WITH GROUND SURVEY FROM RICHARD WILLSON, PLS OBTAINED IN APRIL 2011 AND SUPPLEMENTED WITH SURVEY FROM WILLSON ASSOCIATES IN AUGUST 2019.

0' 175' 350'

SCHEMATIC SITE PLAN
2023 ANNUAL REPORT

LOCKWOOD HILLS LLC

EnSol
661 Main St.
Niagara Falls, NY 14301
716.285.3920

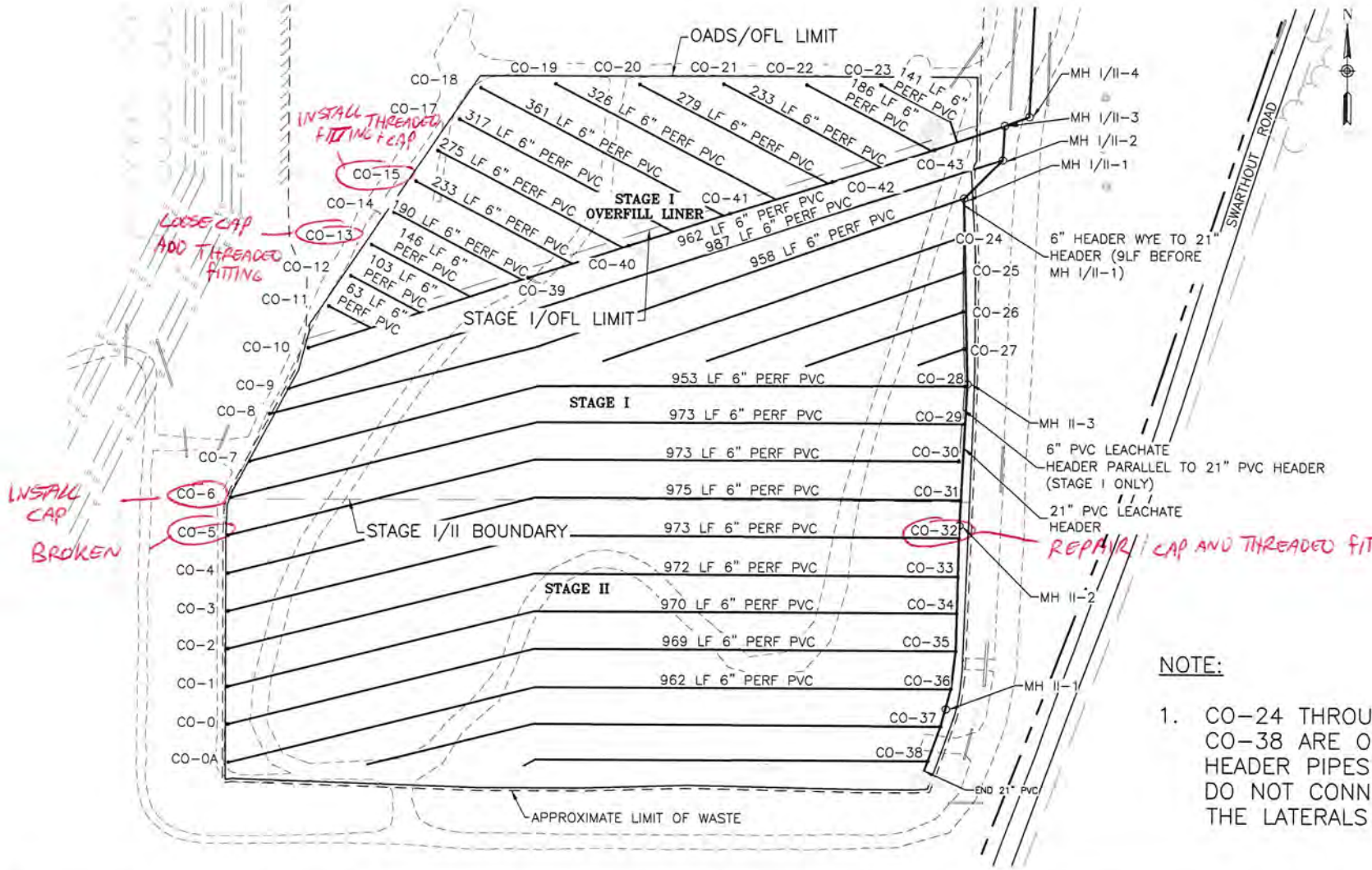
TOWN OF TORREY
COUNTY OF YATES
STATE OF NEW YORK

FEBRUARY 2024
077-A0002-01

FIGURE 1-1

Y:\Lockwood Hills LLC\ACAD\SCHEMATIC SITE PLAN.dwg, 2/13/2024 8:31:29 AM

2024 ANNUAL PE INSPECTION 11/1/2024 CORRECTIVE ACTIONS MAP 2 of 2



NOTE:

1. CO-24 THROUGH CO-38 ARE ON THE HEADER PIPES AND DO NOT CONNECT TO THE LATERALS

DAIGLER ENGINEERING, P.C.
CIVIL & GEO-ENVIRONMENTAL ENGINEERING
2620 GRAND ISLAND BLVD. GRAND ISLAND, NEW YORK 14072
(716) 773-6872 (716) 773-6873 FAX

LOCKWOOD HILLS LLC		PRIMARY LEACHATE COLLECTION AND RECOVERY SYSTEM		FIGURE 1
SCALE: 1" = 200'	REVISION # 0	LOCKWOOD ASH DISPOSAL SITE		
April 2019		TOWN OF TORREY	YATES COUNTY	NEW YORK

Q:\Lockwood Hills LLC\31-0314 Landfill Support Services\05 Line Cleaning Record\Stages I II Overfill Primary Leachate System.dwg 4/23/2019 2:39:26 PM

Attachment 2

Photographs

Photo 1 - Leachate Flume

Photo 2 - Manhole II-1

LOCKWOOD ASH DISPOSAL SITE **ANNUAL PE INSPECTION** **LOCKWOOD HILLS LLC**	**Photographs** **1**

Photo 3 - Manhole II-2

Photo 4 - Manhole II-3

LOCKWOOD ASH DISPOSAL SITE **ANNUAL PE INSPECTION** **LOCKWOOD HILLS LLC**	**Photographs** **2**

Photo 5 - Manhole I/II-1

Photo 6 - Manhole I/II-2

LOCKWOOD ASH DISPOSAL SITE **ANNUAL PE INSPECTION** **LOCKWOOD HILLS LLC**	**Photographs** **3**

Photo 7 - Manhole MH I/II-3

Photo 8 - Manhole MH I/II-S1

LOCKWOOD ASH DISPOSAL SITE **ANNUAL PE INSPECTION** **LOCKWOOD HILLS LLC**	**Photographs**
	4

Photo 9 - East Slope Looking North

Photo 10 - South Slope Looking East

LOCKWOOD ASH DISPOSAL SITE **ANNUAL PE INSPECTION** **LOCKWOOD HILLS LLC**	**Photographs** **5**

Photo 11 - West Slope Looking South

Photo 12 - Northwest Slope Looking North

LOCKWOOD ASH DISPOSAL SITE **ANNUAL PE INSPECTION** **LOCKWOOD HILLS LLC**	**Photographs** **6**

Photo 13 - Top of Disposal Site Looking North

Photo 14 - Northeast Slope Looking Northeast

LOCKWOOD ASH DISPOSAL SITE **ANNUAL PE INSPECTION** **LOCKWOOD HILLS LLC**	**Photographs** **7**

Photo 15 - Top of Landfill Looking North

Photo 16 - Top of Landfill Looking South

LOCKWOOD ASH DISPOSAL SITE **ANNUAL PE INSPECTION** **LOCKWOOD HILLS LLC**	**Photographs** **8**

Photo 17 - Sediment Basin 1

Photo 18 - Sediment Basin 2

LOCKWOOD ASH DISPOSAL SITE **ANNUAL PE INSPECTION** **LOCKWOOD HILLS LLC**	**Photographs** **8**

Photo 19 - Access Road on East Slope Looking North

Photo 20 - Treatment Pond Looking West

LOCKWOOD ASH DISPOSAL SITE **ANNUAL PE INSPECTION** **LOCKWOOD HILLS LLC**	**Photographs** **9**

Photo 21 - Loose Soil Northwest Slope

Photo 22 - Burrow on Southwest Slope

LOCKWOOD ASH DISPOSAL SITE **ANNUAL PE INSPECTION** **LOCKWOOD HILLS LLC**	**Photographs** **11**

Photo 23 - Broken Cleanout - CO-5

Photo 24 - Missing Cleanout Cap - CO-6

Photo 25 - Loose Cleanout Cap- CO-13

Photo 26 - Missing Cleanout Cap- CO-15

Photo 27 - Broken Cleanout CO-32

Photo 28 - Rutts in South Perimeter Drainage Channel

Photo 29 - MW-8910 Missing Cap and Lock

Photo 30 - MW-9306 Lock Not Closed

Photo 31 - Animal Burrow Northwest Slope

Photo 32 - Animal Burrow South Slope