



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
MEMPHIS ENVIRONMENTAL FIELD OFFICE**

**8383 WOLF LAKE DRIVE
BARTLETT, TN 38133-4119
PHONE (901) 371-3000 STATEWIDE 1-888-891-8332 FAX (901) 371-3170**

August 16, 2019

Kenny L. Brown
Director
Hardeman County Solid Waste
100 N. Main Street
Bolivar, TN 38008

**CERTIFIED MAIL # 91 7108 2133 3932 2042 9281
RETURN RECEIPT REQUESTED**

**RE: FOLLOW UP COMPLIANCE EVALUATION INSPECTION
SECOND NOTICE OF VIOLATION
HARDEMAN COUNTY LANDFILL
SNL350000223**

Dear Kenny Brown:

On July 23 and August 13, 2019, the Division of Solid Waste Management (DSWM) conducted a follow up compliance at your facility. During the course of the inspection it was discovered that violations previously noted during the April 23 and June 11, 2019, inspections have not been corrected.

A compliance Review Meeting is scheduled for September 4, 2019, at 10:00 a.m. CDT. The meeting will be held at the Jackson Environmental Field Office at 1625 Hollywood Drive, Jackson, TN 38305. The purpose of this meeting is to provide you with an opportunity to discuss the steps needed to bring your facility into compliance. Please be advised that this matter has been referred to our enforcement section for review.

If you have any questions or comments concerning this correspondence, please contact me by email at John.boatright@tn.gov or by phone at 901-371-3011.

Sincerely,



John Boatright, P.E.
Environmental Consultant II

ENCL: Inspection Report

CC: JB/nb/07908162019
Ashley Holt, Deputy Director, DSWM
Chris Lagan, DSWM – Enforcement
Clifton Jeter, EFOM, DSWM, JFO

SOLID WASTE INSPECTION REPORT

SITE/PHYSICAL LOCATION

Bolivar-Hardeman County Landfill
SNL350000223
75 Landfill Lane
Bolivar, TN
731-658-2884

PRIMARY CONTACT

Kenny Brown
Director
Hardeman County Department of Solid Waste
100 N. Main Street
Bolivar, TN 38008

DATE/TIME OF INSPECTION

July 23, 2019, at 9:40 a.m.
August 13, 2019, at 9:10 a.m.

INSPECTION PARTICIPANTS

Nathan Jordan, Site Operator
John Boatright, P.E., DSWM

At the conclusion of the August 13, 2019, inspection a facility construction meeting was held on site. Many other personnel were present from the county, consultants, contractors, and DSWM for the meeting but did not participate in the inspection.

REPORT PREPARED BY

John Boatright, P.E.
Division of Solid Waste Management
Memphis Environmental Field Office
8383 Wolf Lake Drive
Bartlett, TN 38113
901-371-3011

PURPOSE OF INSPECTION

This inspection was conducted to evaluate the solid waste disposal facility's compliance with the applicable requirements of the rules and regulations promulgated pursuant to the *Tennessee Solid Waste Disposal Act* and evaluate the status of violations noted in previous inspections.

FACILITY DESCRIPTION

Hardeman County Landfill (SNL 350000223), is a permitted Class I Landfill. The landfill can not accept regulated hazardous waste. The landfill currently has 3 active special waste approvals (1 "one time" and 2 continuous disposal).

The landfill property consist of 163 acres, with 19 acres of permitted waste disposal in the current built landfill area. An older pre subtitle D landfill area has been closed. The current landfill consists of four constructed phases. Phase I has received final cover. Phases II and III are in operation. Phase IV has been constructed but not approved to receive waste. Phase IV is scheduled to be reconstructed to achieve approval to receive waste.

INSPECTION FINDINGS

During the course of the inspection the following violations were identified.

Division Rule 0400-11-01-.04(2)(i)6.

- (2) General Facility Standards - Unless specifically noted otherwise, the standards of this paragraph apply to Class I, Class II, Class III, and Class IV disposal facilities.
 - (i) Run-on, Run-off, and Erosion Control
 - 6. The operator must take other erosion control measures (e.g., temporary mulching or seeding, silt barriers) as necessary to control erosion of the site.

Violation Observation:

Inadequate Erosion Control – Erosion was observed on the East, North, and West slopes of the landfill. No temporary erosion control measures were observed at the time of the inspections.

At the time of the July 23, 2019, inspection all of phase II and most of phase IV had been covered. At the time of the August 13, 2019, inspection this cover was heavily eroded and waste was exposed (photographs 2, 3, 4, 5, 7, and 8).

The facility will continue to spend employee and equipment time excavating, placing and replacing cover material until it establishes a viable storm water pollution prevention plan to minimize erosion on site.

The Tennessee Erosion Prevention and Sediment Control Training Program (available at <https://tnepsc.org/index.asp>) provides valuable training on preventing erosion.

Division Rule 0400-11-01-.04(2)(a)(3).

- (2) General Facility Standards - Unless specifically noted otherwise, the standards of this paragraph apply to Class I, Class II, Class III, and Class IV disposal facilities.
 - (a) Overall Performance Standard - The facility must be located, designed, constructed, operated, maintained, closed, and cared for after closure in such a manner as to minimize to the extent practicable:
 - 3. The potential for releases of solid wastes, solid waste constituents, or other potentially harmful materials to the environment except in a manner authorized by state and local air pollution control, water pollution control, and/or waste management control agencies.

Violation Observation:

Solid Waste Exposed – The erosion of phases II and III cover had exposed waste during the August 13, 2019, inspection.

Division Rule 0400-11-01-.04(6)(a)3 and 5.

- (6) Waste Handling and Cover Standards -
 - (a) Class I Disposal Facilities -
 - 3. Except for those completed portions to be finally closed (e.g., the final lift), all surfaces which will be left exposed for a period of over thirty days (e.g., initial and intermediate lifts) must be covered by an intermediate cover consisting of at least a one-foot layer of compacted soil or other material approved by the Commissioner.
- And
- 5. All initial and intermediate cover depths must be maintained until either additional wastes are placed over the area or final cover is applied.

Violation Observation:

Unsatisfactory Intermediate Cover – Phase II and most of phase III had intermediate cover applied during the July 23, 2019, inspection. It was observed during the August 13, 2019, inspection that most of this cover had washed away, exposing waste.


General Comments:

These inspections and this inspection report do not address the violations covered by the agreement for the reconstruction of phase IV. However it should be noted that the facility is not in compliance with that agreement. Specifically, Item number 3 on the July 5, 2016, compliance agreement requires that the leachate collection pit for Phase III have less than two (2) feet of freeboard. At the time of the inspection the pit had completely silted in and any liquids entering the pit were directly discharging into phase IV.

In order for Hardeman County to adequately address the ongoing cover and erosion violations, a comprehensive erosion control and prevention plan shall be developed. This plan will be similar to the Storm Water Pollution Prevention Plan required by the Tennessee Division of Water Resources to meet their regulatory requirements. Additionally, the County's plan will address the highly erodible nature of the currently available cover soil. This plan will be the main topic of discussion during the scheduled September 4, 2019, compliance review meeting.


SIGNED: _____

DATE: 20190816


John Boatright, P.E.
Environmental Consultant II
Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Memphis Environmental Field Office

REVIEWED: _____

DATE: 8/17/2019


Herb Nicholson, P.G., CHMM
Environmental Field Office Manager
Tennessee Department of Environment and Conservation
Division of Solid Waste Management
Memphis Environmental Field Office

Attachments:

- (1) Facility Evaluation Form

(2) Photographs of violations

Initial Inspection

TENNESSEE DIVISION OF SOLID WASTE MANAGEMENT
CLASS I FACILITY INSPECTION CHECKLIST*

**CLASS I
FACILITY**

SITE		DATE 20190723	TIME 09:42	WEATHER 80's MClr
Facility Permit Number Address County				EFO MEMPHIS
*SEE DISCLAIMER ON LAST PAGE				
VIOLATION		REGULATION		OBSERVATION NVO AOC V1 V2
BUFFER ZONE STANDARDS FOR SITING LANDFILLS				
8310	BUFFER ZONE STANDARD VIOLATED	0400-11-01-.04(3)(a)		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
COLLECTED LEACHATE				
8330	LEACHATE IMPROPERLY MANAGED	0400-11-01-.04(4)(a)8(i-iii) ?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
8340	INADEQUATE LEACHATE COLLECTION SYSTEM	0400-11-01-.04(4)(a)7 ?		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
COMMENTS SEE 8570.				
COMMUNICATIONS				
8130	NO COMMUNICATION DEVICES	0400-11-01-.04(2)(f) ?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
COVER MATERIAL				
8160	UNAVAILABILITY OF COVER MATERIAL.	0400-11-01-.04(2)(h) ?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
DEAD ANIMALS				
8250	DEAD ANIMALS IMPROPERLY HANDLED	0400-11-01-.04(2)(k)5.(ii) (I-III) ?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
DUST CONTROL				
8190	INADEQUATE DUST CONTROL	0400-11-01-.04(2)(j) ?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
DUTY TO PROVIDE INFORMATION				

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
DUTY TO PROVIDE INFORMATION						
8530	UNSATISFACTORY RECORDS OR REPORTS	0400-11-01-.02(5)(a)7 TCA 68-211-862(a)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8590	PERMITS, PLANS, OPERATING MANUAL NOT AVAILABLE	0400-11-01-.02(5)(a)(7)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
FIRE SAFETY						
8080	EVIDENCE OF OPEN BURNING	0400-11-01-.04(2)(c)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8090	INADEQUATE FIRE PROTECTION	0400-11-01-.04(2)(c)2	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
GAS MIGRATION CONTROL STANDARDS						
8380	INADEQUATE GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8390	INADEQUATE MAINTENANCE OF GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
GENERAL FACILITY STANDARDS						
8010	INADEQUATE VECTOR CONTROL	0400-11-01-.04(2)(a)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8020	ACCESS NOT LIMITED TO OPERATING HOURS	0400-11-01-.04(2)(a)4	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8030	INADEQUATE ARTIFICIAL OR NATURAL BARRIER	0400-11-01-.04(2)(b)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
GENERAL FACILITY STANDARDS						
8040	INADEQUATE INFORMATION SIGNS	0400-11-01-.04(2)(b)2 TCA 68-211-703(h)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8050	UNSATISFACTORY ACCESS ROAD(S)/PARKING AREA(S)	0400-11-01-.04(2)(b)3	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8060	CERTIFIED PERSONNEL NOT PRESENT DURING OPERATING HOURS	0400-11-01-.04(2)(b)5	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8070	UNAPPROVED SALVAGING OF WASTE	0400-11-01-.04(2)(b)6	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
LITTER CONTROL						
8110	UNSATISFACTORY LITTER CONTROL	0400-11-01-.04(2)(d)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
OPERATING EQUIPMENT						
8140	INADEQUATE OPERATING EQUIPMENT	0400-11-01-.04(2)(g)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8150	UNAVAILABILITY OF BACKUP EQUIPMENT	0400-11-01-.04(2)(g)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
OVERALL PERFORMANCE STANDARD						
8270	EXPOSED SOLID WASTE	0400-11-01-.04(2)(a)(3)	?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COMMENTS Most of the exposed waste from previous inspections has been covered. Some new waste has been exposed by recent rains.						
8320	INADEQUATE MAINTENANCE OF LEACHATE MANAGEMENT SYSTEM (INSPECTOR TO CHECK AND RECORD LEACHATE LEVELS AT EVERY LANDFILL SUMP)	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)7	?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COMMENTS The window on the leachate flow meter is crazed and it is very difficult to read the meter. The temporary leachate pit on Phase III had no free board, was inaccessible due to mud. This item is addressed in the Phase IV renovation plan.						

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
OVERALL PERFORMANCE STANDARD						
8350	LEACHATE OBSERVED AT THE SITE	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6,	?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COMMENTS	Only two leachate streams were observed and both were over the liner. No leachate was observed entering the run off system.					
8360	LEACHATE ENTERING RUN-OFF	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8370	LEACHATE ENTERING A WATER COURSE	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8420	POTENTIAL FOR EXPLOSIONS OR UNCONTROLLED FIRES	0400-11-01-.04(2)(a)2 0400-11-01-.04(5)(a)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8490	EXCESSIVE POOLING OF WATER	0400-11-01-.04 (2)(a)3 0400-11-01-.04(8)(c)4(iii)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8520	DUMPING OF WASTE INTO WATER	0400-11-01-.04 (2)(a)3	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
PERMANENT BENCHMARK						
8280	NO PERMANENT BENCHMARK	0400-11-01-.04(2)(o)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
PERSONNEL SERVICES						
8120	INADEQUATE EMPLOYEE FACILITIES	0400-11-01-.04(2)(e)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
PROPER OPERATION AND MAINTENANCE						
8540	GROUNDWATER MONITORING SYSTEM IMPROPERLY MAINTAINED	0400-11-01-.02(5)(a)4	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
RANDOM INSPECTION PROGRAM						
8290	INADEQUATE RANDOM INSPECTION PROGRAM	0400-11-01-.04(2)(s)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
RECORDS OF ORIGIN AND AMOUNT OF SOLID WASTE						
8610	NO OPERATING SCALES AND/OR FAILURE TO MAINTAIN WASTE RECORDS	TCA 68-211-862(a)(b)(1)(2)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
RUN-ON, RUN-OFF, AND EROSION CONTROL						
8170	INADEQUATE MAINTENANCE OF RUN-ON/RUN-OFF SYSTEM(S)	0400-11-01-.04(2)(i)1-5 0400-11-01-.04(8)(c)4(i)	?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COMMENTS The perimeter road is complete but the roadway has not been stabilized. Storm water can still over top the road and wash it out.						
8180	INADEQUATE EROSION CONTROL	0400-11-01-.04(2)(i)6 0400-11-01-.04(8)(c)4(ii)	?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COMMENTS While portions of the Phase II and III intermediate cover have been planted in grass, no other temporary erosion controls have been placed. SEE COMMENTS BELOW						
SPECIAL WASTE APPROVAL PROCESS						
8300	MISHANDLING OF SPECIAL WASTE	0400-11-01-.01(4)(d)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
UNLAWFUL METHODS OF DISPOSAL						
8570	OPERATION DOES NOT CORRESPOND WITH ENGINEERING PLANS (EVALUATE AND RECORD THE APPROXIMATE INTERIOR AND EXTERIOR SLOPE OF THE LANDFILL)	TCA 68-211-104(3) TCA 68-211-105(b)	?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COMMENTS This facility has been given temporary permission by DSWM to utilize a leachate pit near the interface between Phase III and IV to collect leachate from Phase I to III. A minimum of 2 feet of free board will be maintained. A minor modification is proposed to reconstruct phase IV to fix this problem. At thr time of the inspection free board was less than 2 feet and the levee appeared to have been over-topped.						
8580	OPERATION DOES NOT CORRESPOND WITH PERMIT CONDITIONS	TCA 68-211-104(3) 0400-11-01-.02(5)(a)(1)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
WASTE HANDLING AND COVER STANDARDS						
8430	WASTE NOT CONFINED TO A MANAGEABLE AREA	0400-11-01-.04(6)(a)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
WASTE HANDLING AND COVER STANDARDS						
8440	IMPROPER SPREADING OF WASTE	0400-11-01-.04(6)(a)2	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8450	IMPROPER COMPACTING OF WASTE	0400-11-01-.04(6)(a)2	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8460	UNSATISFACTORY INITIAL COVER	0400-11-01-.04(6)(a)3 0400-11-01-.04(6)(a)5	?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COMMENTS Initial cover thickness must be maintained until intermediate cover is applied. Recent rain events have slowed repair efforts.						
8470	UNSATISFACTORY INTERMEDIATE COVER	0400-11-01-.04(6)(a)4 0400-11-01-.04(6)(a)5	?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COMMENTS The intermediate cover on Phases II and III has several erosion areas and it would appear that sheet flow has exposed some flagging. Some erosion gullies have exposed some waste.						
8480	UNSATISFACTORY FINAL COVER	0400-11-01-.04(6)(a)6 0400-11-01-.04(8)(c)4	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8510	UNSATISFACTORY STABILIZATION OF COVER	0400-11-01-.04(6)(a)5,6	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
WASTE RESTRICTIONS						
8210	UNAUTHORIZED WASTE ACCEPTED	0400-11-01-.04(2)(k)1 0400-11-01-.04(2)(k)6	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8220	UNAPPROVED SPECIAL WASTE ACCEPTED	0400-11-01-.01(4)(b) 0400-11-01-.01(4)(c)5	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
WASTE RESTRICTIONS						
8230	TIRES IMPROPERLY HANDLED	0400-11-01-.04(2)(k)3.(i)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8240	MEDICAL WASTE IMPROPERLY HANDLED	0400-11-01-.04(2)(k)4.(i-iv)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

LEACHATE LEVELS

The leachate meter showed 11,169,408 gallons pumped at the time of the inspection.

**Disclaimer: The information contained in these documents (checklists/notes, etc.) is not intended to be all inclusive and is subject to change. These documents are intended solely for use by DSWM staff. These documents are not a substitute for evaluation of compliance in accordance with applicable laws and regulations. These documents are not intended for, nor can they be relied upon, to create any rights, substantive or procedural, enforceable or useable by any party in litigation with the State of Tennessee or its employees.*

SAVE FORM

Follow-Up Inspection Date

Inspector Name

John Boatright

Digitally signed by John Boatright
DN: cn=John Boatright, o=TEEC, ou=DSWM, email=john.boatright@tn.gov, c=US
Date: 2019.01.25 14:45:59 -0500

ADDITIONAL COMMENTS

No new violations were observed.


Extensive work, despite the wet conditions, has reduced the severity of the cover violations and almost eliminated the observed leachate issues.


The specific violations related to the reconstruction of Phase IV (8340, 8320, and 8570) are not included in the follow-up inspection date listed above.

EROSION CONTROL - Most temporary erosion control measures shown in the Tennessee Erosion Prevention and Sediment Control Program Level I course book do not require a permit modification to be implemented.

An extension of the follow-up inspection date is under consideration and a final decision on that or notification of further enforcement action will be sent to you when the decision is made.

Photographic Log

Site Name:	Tracking No.:	Date:
Hardeman County Landfill	SNL350000223	20190723
 <p>2019/07/23 09:53 N 35.287110°, W 89.056475°</p>		
Photo 1. View over Phase IV of the current working face on Phase III. Note some trees still remain on the liner.		

Site Name:	Tracking No.:	Date:
Hardeman County Landfill	SNL350000223	20190723
 <p>2019/07/23 10:18 N 35.287600°, W 89.054921°</p>		
Photo 2. View East along North edge of Phase III. Note that while extensive sediment and rain water damage is shown that no leachate is present.		

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190723



Photo 3. Panorama from the Northeast corner of Phase III. Note that all observed water is rain water and not leachate.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190723



Photo 4. View over the North road. Note the absence of leachate.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190723



Photo 5. View South along East face. Note the absence of leachate. The water to the left is ponded rain water. There is still significant erosion and sediment deposits.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190723



Photo 6. View of the East face. Note the reduced exposed waste and the absence of leachate. Also note that there are still significant erosion gullies on the slope and considerable sediment movement.

Initial Inspection

**TENNESSEE DIVISION OF SOLID WASTE MANAGEMENT
CLASS I FACILITY INSPECTION CHECKLIST***

**CLASS I
FACILITY**

SITE		DATE 20190813	TIME 09:10	WEATHER 90's MClr
Bolivar-Hardeman County Landfill SNL350000223 75 Landfill Way Hardeman				EFO MEMPHIS
*SEE DISCLAIMER ON LAST PAGE				
VIOLATION		REGULATION		OBSERVATION NVO AOC V1 V2
BUFFER ZONE STANDARDS FOR SITING LANDFILLS				
8310	BUFFER ZONE STANDARD VIOLATED	0400-11-01-.04(3)(a)		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
COLLECTED LEACHATE				
8330	LEACHATE IMPROPERLY MANAGED	0400-11-01-.04(4)(a)8(i-iii) ?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
8340	INADEQUATE LEACHATE COLLECTION SYSTEM	0400-11-01-.04(4)(a)7 ?		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
COMMENTS		SEE 8570.		
COMMUNICATIONS				
8130	NO COMMUNICATION DEVICES	0400-11-01-.04(2)(f) ?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
COVER MATERIAL				
8160	UNAVAILABILITY OF COVER MATERIAL.	0400-11-01-.04(2)(h) ?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
DEAD ANIMALS				
8250	DEAD ANIMALS IMPROPERLY HANDLED	0400-11-01-.04(2)(k)5.(ii) (I-III) ?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
DUST CONTROL				
8190	INADEQUATE DUST CONTROL	0400-11-01-.04(2)(j) ?		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
COMMENTS				
DUTY TO PROVIDE INFORMATION				

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
DUTY TO PROVIDE INFORMATION						
8530	UNSATISFACTORY RECORDS OR REPORTS	0400-11-01-.02(5)(a)7 TCA 68-211-862(a)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8590	PERMITS, PLANS, OPERATING MANUAL NOT AVAILABLE	0400-11-01-.02(5)(a)(7)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
FIRE SAFETY						
8080	EVIDENCE OF OPEN BURNING	0400-11-01-.04(2)(c)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8090	INADEQUATE FIRE PROTECTION	0400-11-01-.04(2)(c)2	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
GAS MIGRATION CONTROL STANDARDS						
8380	INADEQUATE GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8390	INADEQUATE MAINTENANCE OF GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
GENERAL FACILITY STANDARDS						
8010	INADEQUATE VECTOR CONTROL	0400-11-01-.04(2)(a)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8020	ACCESS NOT LIMITED TO OPERATING HOURS	0400-11-01-.04(2)(a)4	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8030	INADEQUATE ARTIFICIAL OR NATURAL BARRIER	0400-11-01-.04(2)(b)1	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

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VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
GENERAL FACILITY STANDARDS						
8040	INADEQUATE INFORMATION SIGNS	0400-11-01-.04(2)(b)2 TCA 68-211-703(h)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8050	UNSATISFACTORY ACCESS ROAD(S)/PARKING AREA(S)	0400-11-01-.04(2)(b)3	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8060	CERTIFIED PERSONNEL NOT PRESENT DURING OPERATING HOURS	0400-11-01-.04(2)(b)5	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8070	UNAPPROVED SALVAGING OF WASTE	0400-11-01-.04(2)(b)6	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
LITTER CONTROL						
8110	UNSATISFACTORY LITTER CONTROL	0400-11-01-.04(2)(d)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
OPERATING EQUIPMENT						
8140	INADEQUATE OPERATING EQUIPMENT	0400-11-01-.04(2)(g)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8150	UNAVAILABILITY OF BACKUP EQUIPMENT	0400-11-01-.04(2)(g)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
OVERALL PERFORMANCE STANDARD						
8270	EXPOSED SOLID WASTE	0400-11-01-.04(2)(a)(3)	?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COMMENTS Recent rains have exposed solid waste. The material being used as cover has no cohesion and washes away easily.						
8320	INADEQUATE MAINTENANCE OF LEACHATE MANAGEMENT SYSTEM (INSPECTOR TO CHECK AND RECORD LEACHATE LEVELS AT EVERY LANDFILL SUMP)	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)7	?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COMMENTS The window on the leachate flow meter is crazed and it is very difficult to read the meter. The temporary leachate pit on Phase III had no free board, was inaccessible due to mud. This item is addressed in the Phase IV renovation plan.						

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
OVERALL PERFORMANCE STANDARD						
8350	LEACHATE OBSERVED AT THE SITE	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6,	?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COMMENTS	All leachate streams observed were over the liner. No leachate was observed entering the run off system.					
8360	LEACHATE ENTERING RUN-OFF	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8370	LEACHATE ENTERING A WATER COURSE	0400-11-01-.04(2)(a)(3) 0400-11-01-.04(4)(a)6	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8420	POTENTIAL FOR EXPLOSIONS OR UNCONTROLLED FIRES	0400-11-01-.04(2)(a)2 0400-11-01-.04(5)(a)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8490	EXCESSIVE POOLING OF WATER	0400-11-01-.04 (2)(a)3 0400-11-01-.04(8)(c)4(iii)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8520	DUMPING OF WASTE INTO WATER	0400-11-01-.04 (2)(a)3	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
PERMANENT BENCHMARK						
8280	NO PERMANENT BENCHMARK	0400-11-01-.04(2)(o)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
PERSONNEL SERVICES						
8120	INADEQUATE EMPLOYEE FACILITIES	0400-11-01-.04(2)(e)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
PROPER OPERATION AND MAINTENANCE						
8540	GROUNDWATER MONITORING SYSTEM IMPROPERLY MAINTAINED	0400-11-01-.02(5)(a)4	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
RANDOM INSPECTION PROGRAM						
8290	INADEQUATE RANDOM INSPECTION PROGRAM	0400-11-01-.04(2)(s) ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
RECORDS OF ORIGIN AND AMOUNT OF SOLID WASTE						
8610	NO OPERATING SCALES AND/OR FAILURE TO MAINTAIN WASTE RECORDS	TCA 68-211-862(a)(b)(1)(2) ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
RUN-ON, RUN-OFF, AND EROSION CONTROL						
8170	INADEQUATE MAINTENANCE OF RUN-ON/RUN-OFF SYSTEM(S)	0400-11-01-.04(2)(i)1-5 0400-11-01-.04(8)(c)4(ii) ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS There were visible repairs where storm water had damaged the perimeter road. The current approved plans have an inadequate run-off and erosion control plan.						
8180	INADEQUATE EROSION CONTROL	0400-11-01-.04(2)(i)6 0400-11-01-.04(8)(c)4(ii) ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COMMENTS While portions of the Phase II and III intermediate cover have been planted in grass, no other temporary erosion controls have been placed. SEE COMMENTS BELOW						
SPECIAL WASTE APPROVAL PROCESS						
8300	MISHANDLING OF SPECIAL WASTE	0400-11-01-.01(4)(d)1 ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
UNLAWFUL METHODS OF DISPOSAL						
8570	OPERATION DOES NOT CORRESPOND WITH ENGINEERING PLANS (EVALUATE AND RECORD THE APPROXIMATE INTERIOR AND EXTERIOR SLOPE OF THE LANDFILL)	TCA 68-211-104(3) TCA 68-211-105(b) ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COMMENTS This facility has been given temporary permission by DSWM to utilize a leachate pit near the interface between Phase III and IV to collect leachate from Phase I to III. A minimum of 2 feet of free board will be maintained. A minor modification is proposed to reconstruct phase IV to fix this problem. SEE COMMENTS BELOW.						
8580	OPERATION DOES NOT CORRESPOND WITH PERMIT CONDITIONS	TCA 68-211-104(3) 0400-11-01-.02(5)(a)(1) ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
WASTE HANDLING AND COVER STANDARDS						
8430	WASTE NOT CONFINED TO A MANAGEABLE AREA	0400-11-01-.04(6)(a)1 ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
WASTE HANDLING AND COVER STANDARDS						
8440	IMPROPER SPREADING OF WASTE	0400-11-01-.04(6)(a)2	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8450	IMPROPER COMPACTING OF WASTE	0400-11-01-.04(6)(a)2	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8460	UNSATISFACTORY INITIAL COVER	0400-11-01-.04(6)(a)3 0400-11-01-.04(6)(a)5	?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COMMENTS Initial cover thickness must be maintained until intermediate cover is applied. Recent rain events have slowed repair efforts.						
8470	UNSATISFACTORY INTERMEDIATE COVER	0400-11-01-.04(6)(a)4 0400-11-01-.04(6)(a)5	?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COMMENTS Much of the intermediate cover placed before the previous inspection has washed away, exposing waste.						
8480	UNSATISFACTORY FINAL COVER	0400-11-01-.04(6)(a)6 0400-11-01-.04(8)(c)4	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8510	UNSATISFACTORY STABILIZATION OF COVER	0400-11-01-.04(6)(a)5,6	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
WASTE RESTRICTIONS						
8210	UNAUTHORIZED WASTE ACCEPTED	0400-11-01-.04(2)(k)1 0400-11-01-.04(2)(k)6	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8220	UNAPPROVED SPECIAL WASTE ACCEPTED	0400-11-01-.01(4)(b) 0400-11-01-.01(4)(c)5	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

*SEE DISCLAIMER ON LAST PAGE

VIOLATION		REGULATION	OBSERVATION			
			NVO	AOC	V1	V2
WASTE RESTRICTIONS						
8230	TIRES IMPROPERLY HANDLED	0400-11-01-.04(2)(k)3.(i)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						
8240	MEDICAL WASTE IMPROPERLY HANDLED	0400-11-01-.04(2)(k)4.(i-iv)	?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COMMENTS						

LEACHATE LEVELS

The leachate meter showed 11,441.359 gallons pumped at the time of the inspection.

**Disclaimer: The information contained in these documents (checklists/notes, etc.) is not intended to be all inclusive and is subject to change. These documents are intended solely for use by DSWM staff. These documents are not a substitute for evaluation of compliance in accordance with applicable laws and regulations. These documents are not intended for, nor can they be relied upon, to create any rights, substantive or procedural, enforceable or useable by any party in litigation with the State of Tennessee or its employees.*

SAVE FORM

Follow-Up Inspection Date

9/13/19

Inspector Name

John Boatright

Digitally signed by John Boatright
DN: cn=John Boatright, o=DSWM, email=john.boatright@tn.gov, c=US
Date: 2019.09.14 10:29:29 -0500

ADDITIONAL COMMENTS

8570 - The leachate collection pit is no longer effective. The pit is completely filled with sediment and any leachate entering the pit flows out through the breach in the levee. The compliance agreement of July 5, 2016, requires 2 feet of fretboard.

The specific violations related to the reconstruction of Phase IV (8340, 8320, and 8570) are not included in the follow-up inspection date listed above.

EROSION CONTROL - Most temporary erosion control measures shown in the Tennessee Erosion Prevention and Sediment Control Program Level I course book do not require a permit modification to be implemented. The current approved plans have an inadequate storm water management and erosion control plan. More effort needs to be placed on reducing the erosive effects

The primary problem for this facility in establishing and maintaining intermediate cover is the poor quality of the available soils. The primary soil is a very slightly clayey sand that has no cohesion when exposed to weathering. Hardeman County should either find a different source of soil that has a higher clay content or take aggressive stabilization measures. Until a more cohesive cover soil is found the County will continue to spend employee time and resources replacing the washed away cover.

A Compliance Review Meeting to determine a corrective action plan for the ongoing cover and erosion violations has been scheduled for Wednesday, September 4, 2019 at 10:00 AM in the Jackson Environmental Field Office. A formal letter announcing this will be sent shortly.

Photographic Log

Site Name:	Tracking No.:	Date:
Hardeman County Landfill	SNL350000223	20190813
		

Photo 1. View West of the current working face. Note the cover material.

Site Name:	Tracking No.:	Date:
Hardeman County Landfill	SNL350000223	20190813
		

Photo 2. Intermediate cover replacement on the East face.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813



Photo 3. View down the East face. Note the exposed waste in this previously covered area. Picture has been cropped to remove excess sky.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813



Photo 4. View up the East face. Note the erosion cut and the sediment fan. Picture has been cropped to remove excess sky.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813



Photo 5. View up the East face. Note the exposed waste and the sediment fan at the bottom.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813



Photo 6. View up the East face from near the North end. Note the erosion on areas that have thin grass and the large sediment fan at the bottom. Picture has been cropped to remove excess sky.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813



2019/08/13 09:43
N 35.287635°, W 89.054113°

Photo 7. View of the North face with exposed waste from erosion and leachate at the bottom.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813



2019/08/13 09:46
N 35.287635°, W 89.055221°

Photo 8. View East along the North face. Note the exposed waste on the older cover areas. Foreground cover is initial cover. Picture has been cropped to remove excess sky.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813



Photo 9. View of the northern part of the West face from Phase IV. Picture has been cropped to remove excess sky.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813



Photo 10. View of the center of the West face of Phase III from Phase IV. Note the cleared area to the right. Picture has been cropped to remove excess sky.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813

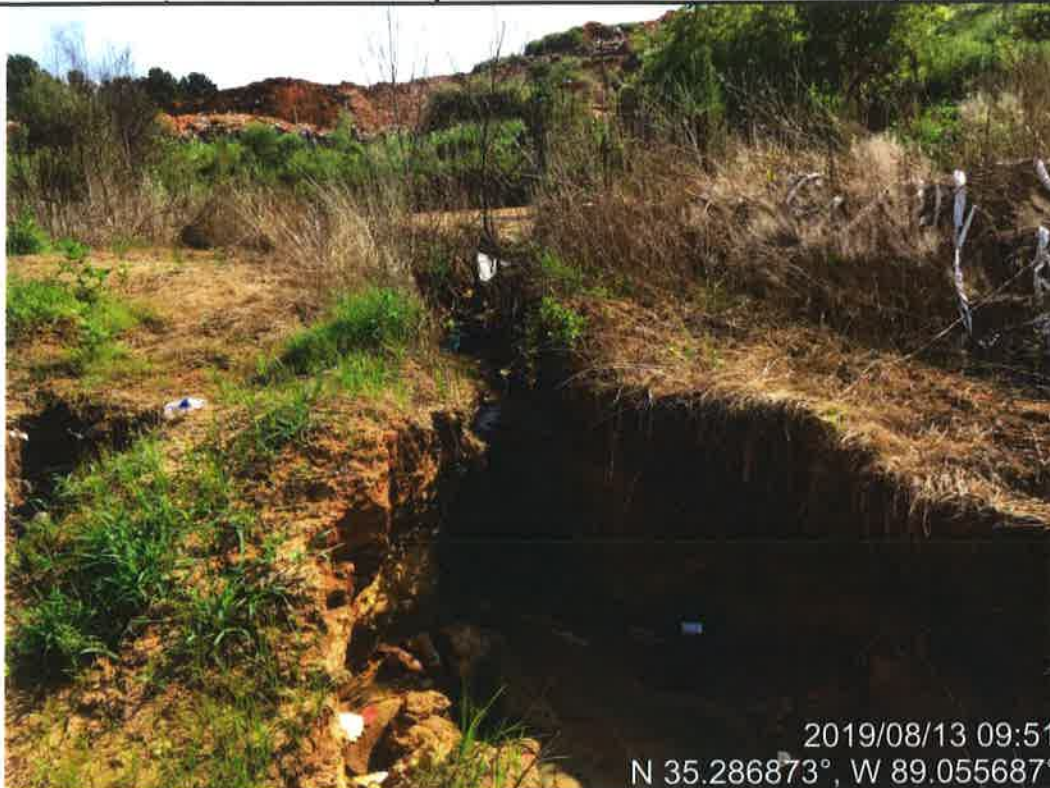


Photo 11. The breach in the levee for the Phase III leachate pit. Note the exposed liner material in the bottom of the cut.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813



Photo 12. The phase III leachate pit. Note the sediment filling the pit.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813



Photo 13. View of the West face of Phase III.

Site Name:
Hardeman County Landfill

Tracking No.:
SNL350000223

Date:
20190813



Photo 14. The leachate flow gauge.