2021 ANNUAL CCR UNIT INSPECTION INDIAN RIVER LANDFILL NRG INDIAN RIVER STATION DAGSBORO, DELAWARE

SCS ENGINEERS

25221158.00 | January 18, 2022

40 Shuman Blvd, Suite 216 Naperville, IL 60563

1.0 INTRODUCTION

1.1 OVERVIEW OF ANNUAL INSPECTION REPORT

SCS Engineers (SCS) has completed an annual inspection of the NRG Indian River Landfill at the Indian River Generating Station in Dagsboro, Delaware. The annual inspection was completed in accordance with the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule, 40 CFR 257 Subpart D (CCR Rule). Per 40 CFR 257.84(b)(1), an annual inspection is required to be conducted by a qualified professional engineer for all existing and new CCR landfills and any lateral expansion of a CCR landfill. For the Indian River Generating Station (owned by Indian River Power, LLC, a subsidiary of NRG Energy, Inc. [NRG]), this inspection requirement applies to Phase II of the existing Indian River Landfill.

The purpose of the annual inspection is to evaluate whether the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards. The findings from this annual inspection are summarized in subsequent sections of this report, in accordance with 40 CFR 257.84(b)(2).

This report must be placed in the Indian River facility's operating record per $\S257.105(g)(9)$, noticed to the State Director per $\S257.106(g)(7)$, and posted to the publicly accessible internet site per $\S257.107(g)(7)$. The 2020 annual inspection report was placed into the facility's operating record on January 18, 2021. Therefore, this report must be placed into the facility's operating record on January 18, 2022 to meet the annual reporting requirements of $\S257.84(b)(4)$.

1.2 OVERVIEW OF INDIAN RIVER LANDFILL

The Indian River Landfill is an industrial waste landfill used to dispose CCR and other industrial wastes generated at the station. The landfill is permitted by State of Delaware Department of Natural Resources and Environmental Control (DNREC) Solid Waste Permit No. 12/01.

The landfill consists of two major phases. Phase I is a 46-acre unlined, closed landfill that was operated between 1980 and 2014. Phase II is a 28-acre landfill expansion of Phase I that overlays the western slopes of Phase I and expands the landfill footprint to the west. Phase II has two landfill cells (Cells 1 and 2). The east portion of both Cells 1 and 2 overlays onto the western sideslopes of Phase I. Both landfill cells, including the overlay area, have a composite liner system at their base.

The Phase II expansion began accepting waste on September 17, 2010, within Cell 1. Cell 2 received operational authorization in 2015. Cell 1 is not actively receiving CCR material and has a vegetated intermediate cover. Cell 2 is currently open and actively receiving CCR material. No areas of Phase II have received final cover as described in $\S257.102(d)(3)$.

Due to the fact that Phase I was closed prior to the inception of the CCR Rule, it is not regulated under the CCR Rule. However, due to the fact that Phase II is an overlay expansion, it is recognized that the stability of Phase I may impact Phase II. Therefore, both Phases I and II are inspected on an annual basis.

2.0 ANNUAL INSPECTION

Mr. Richard Southorn, a qualified professional engineer with SCS, conducted the 2021 annual on-site inspection of IRLF on November 4, 2021. The annual inspection and evaluation focused on the following items as outlined in $\S257.84(b)(1)(i-ii)$:

- A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record; and
- A visual inspection of the CCR unit to identify signs of distress or malfunction.

Per $\S257.84(b)(2)$ (i-iv), the following aspects of the CCR unit must be documented as part of the annual inspection:

- 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 the inspection;
- Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit; and
- Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.

2.1 **REVIEW OF OPERATING RECORD**

The operating records review of the facility's operating record and verification were performed before and during the site inspection. Files reviewed included, but were not limited to:

- 2011 Phase II Landfill Expansion Application;
- NRG Permit SW-12/01;
- Previous Annual Landfill Operations Report;
- CCR Rule Inspection Reports;
- Leachate Collection System Daily Inspection Reports;
- Daily/After Storm Event Erosion Control/Emissions Inspection Forms;
- Disposal volume records provided by Indian River; and
- Miscellaneous reports and documents on NRG's CCR Rule Compliance Data Website. (<u>https://www.nrg.com/legal/coal-combustion-residuals.html</u>)

During the site inspection, Mr. Southorn interviewed Charlie Griggs (Landfill Manager) to verify the information contained within the operating record.

2.2 VISUAL INSPECTION

A visual inspection of the landfill was completed after review of the Operating Record to identify signs of distress or malfunction of the CCR unit. The visual inspection included observations of the following:

- Active disposal area (Phase II, Cell 2);
- Intermediate cover areas (Phase II);
- Final Cover areas (Phase I);
- Non-contact storm water run-on and run-off control features, including terrace benches, swales, downchutes, and sedimentation detention basins; and
- Leachate collection vaults.

Mr. Southorn focused on standard geotechnical signs of distress or malfunction such as slumping at the toe of slope, tensile cracking, abnormal or excessive erosion on the side slopes or stormwater management facilities, slope bulging, groundwater/surface water seepage or ponding, etc. These visual signs are potential indicators of structural weakness of the CCR Landfill unit.

A checklist documenting inspection findings is provided as **Attachment 1** to this report. Photographs taken during the inspection are provided as **Attachment 2** to this report. Findings are reported in **Section 3** of this report.

3.0 **REGULATORY FINDINGS OF ANNUAL INSPECTION**

CCR Rule Documentation Requirement §257.84(b)(2):	Annual Inspection Findings
<u> </u>	
§257.84(b)(2)(i): (i) Any changes in geometry of the structure since the previous annual inspection;"	Changes in geometry include the placement of CCR in Phase II Cell 2.
§257.84(b)(2)(ii): "(ii) The approximate volume of CCR contained in the unit at the time of the inspection;"	 Phase II design documents indicate that Cells 1 and 2 have a total combined disposal capacity of approximately 2.2 Million cubic yards (cy). Cell 1 has approximately 1,194,000 cy total disposal capacity, while Phase II has approximately 1,006,000 cy total disposal capacity. Cell 1: Cell 1 has largely been filled, but NRG Energy estimates that Phase II Cell 1 has approximately 5,000 cy of emergency capacity left in the event that Cell 2 becomes inaccessible. Therefore, Cell 1 is estimated to contain 1,189,000 cy of CCR material. Cell 2: At the end of calendar year 2020, approximately 257,028 cy had been placed in Phase II Cell 2. An additional 47,518 tons of CCR material were placed in Phase II Cell 2 in 2021. This equates to 42,427 cy, based on an assumed conversion factor of 1 cy = 1.12 ton. Therefore, the estimated total volume disposed in Phase II Cell 2 is 299,455 cy (257,028 cy + 42,427 cy). Phase II (Cells 1 and 2): The estimated total disposed volume in Phase II is 1,488,455 cy (1,189,000 cy + 299,455 cy). It is noted that the conversion factor is based on design documents in the Phase II permit application. Additionally, Phase I volumes have not been evaluated because Phase I was closed prior to the inception of the CCR Rule and are not regulated under the CCR Rule.

CCR Rule Documentation Requirement §257.84(b)(2):	Annual Inspection Findings
§257.84(b)(2)(iii): "(iii) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit;"	At the time of this inspection, there were no signs of actual or potential structural weakness or existing conditions that are disrupting or have the potential to disrupt the operation and/or safety of the CCR landfill. No signs of distress or malfunction were observed. Leachate liquid levels were elevated following large precipitation events in 2021. In order to remedy this condition, NRG installed intermediate cover over portions of Cell 2 to direct non-contact water away from the sumps and has been pumping leachate levels down. The efforts led to a lowering of leachate levels, as evidenced by a review of leachate head levels throughout the year. The liquid level control panel was observed to be functioning and supported by a high-level alarm. No standing leachate was observed. Containment berms that surround Cell 2 were in good condition. Based on the condition of the containment berms, lack of standing leachate, and functioning control systems, it is unlikely that leachate levels will impact operations or safety of the unit in 2022.
§257.84(b)(2)(iv): "(iv) Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.	There have been no changes observed during the annual inspection that have affected the stability or operation of the CCR unit since the previous annual inspection. A review of the operating record indicates that a minor repair was completed on a non-contact water downslope pipe. Scour had been observed in a downchute, which was attributed to a pipe joint separation. The scour was observed during weekly inspections of the landfill surface. The repair was completed in a timely manner and documentation of the observed conditions and the repair was provided to DNREC. The area appeared to be fully restored at the time of the inspection.

4.0 **RECOMMENDATIONS**

Based on the on-site inspection performed on November 4, 2021, SCS recommends the following actions:

- 1. Monitor leachate head levels in Phase II Cell 2 following large precipitation events. Pump leachate out of the sump area if leachate head becomes elevated above permissible levels. If leachate levels remain elevated, use run-on diversion berms or other appropriate methods to the extent practical to minimize the volume of rainwater that enters the leachate collection system.
- 2. Continue operation and maintenance within the active landfilling area as currently performed.
- 3. Maintain access to the closed portions of the landfill to maintain the ability to perform weekly visual site structural inspections.

There were no deficiencies or releases identified during the 2021 annual inspection that require the owner or operator to perform corrective actions as required under §257.84(b)(5).

5.0 **PROFESSIONAL ENGINEER'S CERTIFICATION**

In accordance with §257.84(b) of the CCR Rule, I hereby certify based on a review of available information within the facility's operating records and observations from my personal on-site inspection that the IRLF does not exhibit any appearances of actual/potential structural weakness that would be disruptive to the normal operations of the IRLF. The unit is being operated and maintained consistent with recognized and generally accepted good engineering standards and practices.

Certified by:	Richard Southorn		
Date:	January 18, 2021	DAVID SOUTHING	
Richard South Professional E SCS Engineers	orn, P.E. ngineer Registration No. P	PE 20894 PROVIDENCE 20894 PE 2	

ATTACHMENTS

- 1. Coal Combustion Residuals Landfill Annual Inspection Checklist and Photographs
- 2. Annual Inspection Photographs

REFERENCES

- 1. 2020 Landfill Periodic Inspection Report (dated January 18, 2020)
- 2. Annual Landfill Operations Reports, NRG Energy Indian River Generating Station
- 3. 40 Code of Federal Regulations Part 257.
- 4. Routine Inspection Reports.
- 5. DNREC Solid Waste Permit No. 12/01
- 6. CCR Rule Documents on NRG website (<u>https://www.nrg.com/legal/coal-combustion-residuals.html</u>)

Attachment 1 – Coal Combustion Residuals Landfill Annual Inspection Checklist and Photographs

Attachment 2 – Annual Inspection Photographs

Attachment 1

Coal Combustion Residuals Landfill

Annual Inspection Checklist

CCR LANDFILL ANNUAL INSPECTION CHECKLIST

Facility Name		Feature		Inspection Date
Indian River Landfil	I	Indian River Landfill		November 4, 2021
Station/Owner		Stat	е	
Indian River Power (NF	RG)	Delawa	are	
Inspected By	Phon	e No.	Туре	of Landfill
Richard Southorn	(630) 28	(630) 280-8125 🛛 🖾 A		□ Closed
	Weather			Temperature (°F)
🗆 Wet 🛛 Dry	□ Snow Cover	\Box Other:		45
Total precipitation last	24 hours (in)			
0				
Remarks:				
Annual inspection by qua	lified engineer.			

			CHECKS	S AND OBSERVATIO	ONS				
	1. !:	s the haul route	maintained?		⊠ Yes		No	□ N/A	
	2. A	re stormwater I	3MPs inspected and s	erviceable?	⊠ Yes		No	□ N/A	
SNC	3. !!	s the leachate s	ystem functional?		⊠ Yes		No	□ N/A	
ERATI	4. !!	s there evidence	\boxtimes	No	□ N/A				
OPE	5. A	Are stormwater retention basins functioning properly?							
	Comme	nts / Action Ite	ems						
	Actions	⊠ None	□ Maintenance	□ Monitoring	□ Minor Rep	air	🗆 Eng	gineering	

			PROBLE	MS			COVER
	🛛 1. Non	е	□ 5. Vegetation, brus	h 🗌 9. Se	ettlement	🗆 13. Seepage	☑ Vegetation
REACE	🗆 2. Anin	nal burrows	🗆 6. Vegetation, islan	getation, islands 🛛 10. Cracks		10. Cracks 14. Ponding	
L SUF	🗆 3. Anin	nal damage	□ 7. Poor grass cover	· 🗌 11.	Erosion	🗆 15. Bare spot	s 🗆 Soil
NDFIL	🗆 4. Tree	s, large brush	□ 8. Slope stability	□ 12.	Rills	□ 16. Other:	⊠ Other:
R LAN		-				CCR	
JPPE	Commen	ts / Action Ite	ns				
1							
	Actions	⊠ None	Maintenance	☐ Monitoring	g 🗆 N	linor Repair	Engineering

	PROBLEMS										
	🛛 1. Non	e	\Box 5. Vegetation, brusl	n 🗌 9. Settlem	nent 🗌 13. See	page	⊠ Vegetation				
SMS	🗆 2. Anin	nal burrows	🗆 6. Vegetation, islan	ds 🗌 10. Crack	s 🗌 14. Pon	ding		Gravel			
R BER	🗆 3. Anin	nal damage	□ 7. Poor grass cover	🗆 11. Erosic	on 🗌 15. Bare	e spots		Soil			
ЛЕТЕ	🗆 4. Tree	s, large brush	□ 8. Slope stability	🗆 12. Rills	🗆 16. Othe	er:	□ Other:				
ERIN	OBSERVATIONS										
ND F	1. Do	o slopes and be	rms provide positive dra	inage?	⊠ Yes	🗆 No		□ N/A			
PES /	2. ls	there exposed	waste on exterior slopes	?	□ Yes	🖾 No		□ N/A			
SLO	Comments / Action Items										
	None.										
Actions ⊠ None □ Maintenance □ Monitoring □ Minor Repair □ Engine							neering				

				PROBLEMS						
	🗆 1. None	e 🗌 3. Pip	ing leaking							
STEM	🗆 2. Sumj	o 🗆 4. Col	ntainment leaking	☑ 6. Other: Elevate Leachate Levels	d					
ΓE SY	OBSERVATIONS									
ACHA ⁻	1. Ist	he leachate tr	ransmission system fu	nctioning properly?		⊠ Yes		No	□ N/A	
LE/	Comments / Action Items									
	Phase II Cell 2 has reported leachate levels greater than one foot during periods in 2021.									
	Actions None Maintenance Monitoring Minor Repair Engineering								ineering	

				PROBLEMS						
	☑ 1. None □ 3. Ditch failure □ 5. Debris □ 7. Silt fences □ 9. Riprap apron									
SLS	🗆 2. Char	nnel 🗆 ·	4. Ditch washouts	□ 6. Sediment	🗆 8. Filt	er socks	□ 10	D. Other	-	
NTR(OBSERVATIONS	3					
ит со	1. Ar	e erosion o	r sediment controls i	n place?		⊠ Yes		No		
OIMEN	2. Ar	e drop strue	ctures in good repair	?		⊠ Yes		No	□ N/A	
ND SEI	3. Are re	e perimeter pair?	r run-on diversion dite	ches present and in	good	⊠ Yes		No	□ N/A	
SION A	4. Are perimeter run-off diversion ditches present and in good repair? □ No □ N/A									
ERC	Comments / Action Items									
	None.									
	ActionsImage: NoneImage: MaintenanceImage: MonitoringImage: Minor RepairImage: Engineering									
					•					

88 Inspector's Signature:

Date: Nov 4, 2021

Attachment 2

Coal Combustion Residuals Landfill

Annual Inspection Photographs



PROJECT NO.	25221158.00	DRAWN BY:	NV	ER	SCS ENGINEEDS	⊢			
DRAWN:	12/14/2021	CHECKED BY:	ZC	GINE	2830 DAIRY DRIVE MADISON W 53718-6751	E	INDIAN RIVER GENERATING STATION	SITE	DAGSBORO DE
REVISED:	N/A	APPROVED BY:	RDS	ENC	PHONE: (608) 224–2830	ъ	DAGSBORG, DE	•••	
1.)05004450.00\Deeuvie ee\A	and the section allowed Directors allow	1 Dhata Lag dug 1/0/2022 12:20	0.44 DM						

Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	239	
Date:	11/4/2021	and the second sec
Time:	8:13 AM	
Direction:	South-Southeast	
		the second second second second
Description:		
Outer sideslope of Sideslope is well ve maintained. No sig stress or geotechni	Phase II Cell 2. egetated and ins of vegetative cal instability.	

Image Number:	243
Date:	11/4/2021
Time:	8:17 AM
Direction:	North

Description:

Active face is well maintained. Material is graded and compacted.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	245
Date:	11/4/2021
Time:	8:18 AM
Direction:	North

Description:

Active face is well maintained. Material is graded and compacted.



247
11/4/2021
8:19 AM
West

Description:

Phase II Cell 1/Cell 2 boundary. Slopes are well vegetated with no sign of erosion, sloughing, or animal borrows.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	249	
Date:	11/4/2021	
Time:	8:20 AM	
Direction:	South-Southeast	
Description:		
Elbow of Phase I/Ph confluence, looking Vegetation is thick a	ase II Cell 1 upslope. nd healthy.	

Image Number:	251
Date:	11/4/2021
Time:	8:21 AM
Direction:	North

Description:

Overview of active face and Phase I intermediate cover slopes. Slopes are well vegetated with no sign of erosion or sloughing.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	253
Date:	11/4/2021
Time:	8:22 AM
Direction:	North-Northwest

Description:

Active face is background well maintained and orderly. Material is graded and compacted. Intermediate cover soils in foreground have been installed at the toe of the Phase I slope to collect and transfer noncontact water to the north and away from the active area.



Image Number:	257
Date:	11/4/2021
Time:	8:26 AM
Direction:	North

Description:

Intermediate cover soils at the toe of the Phase I slope drain to the north to this location. Non-contact water enters into the pipe shown in the middle of the photograph and are conveyed to the adjacent landfill perimeter (non-contact water) ditch.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	259
Date:	11/4/2021
Time:	8:36 AM
Direction:	Northwest

Description:

Looking across active area toward sump, with intermediate cover soils in foreground. Well maintained. No erosion or scour.



Image Number:	261
Date:	11/4/2021
Time:	8:40 AM
Direction:	Northwest

Description:

The slope of the active face slopes to the north toward a sump area. Shallow berms are placed perpendicular to the slope to slow contact water and prevent erosion. At the toe of the berms, contact water enters pipes, which direct contact water toward the sump. Pipe discharge location is shown.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	263
Date:	11/4/2021
Time:	8:42 AM
Direction:	Northwest

Description:

Sump area of Phase II Cell 2. No standing water.



Image Number:	265
Date:	11/4/2021
Time:	8:42 AM
Direction:	South-Southwest

Description:

The slope of the active face is slopes to the north toward the active face. Shallow berms are placed perpendicular to the slope to slow contact water and prevent erosion. At the toe of the berms, contact water enters pipes, which direct contact water toward the sump. Pipe discharge location is shown.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	267	
Date:	11/4/2021	
Time:	8:43 AM	
Direction:	North-Northeast	
Description:		
Sump area of Phase I standing water.	I Cell 2. No	



Description:

Outer berm of Phase II Cell 2. Berm is in good condition with healthy vegetation. No signs of erosion, sloughing, geotechnical distress, or animal burrows.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	271
Date:	11/4/2021
Time:	8:46 AM
Direction:	South
Description:	

Active face is well maintained.





Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	279
Date:	11/4/2021
Time:	9:03 AM
Direction:	Northeast

Description:

Inlets to stormwater basin. Clear of obstruction at inlets and outlets.





Description:

Southwest stormwater basin, well maintained.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	283
Date:	11/4/2021
Time:	9:04 AM
Direction:	South

Description:

Stormwater basin forebay. In good condition.



Image Number:	305
Date:	11/4/2021
Time:	9:16 AM
Direction:	Northeast

Description:

Phase I, Cell 1 leachate pump house and stormwater culvert. Building is appropriately signed. Culvert is free of obstructions.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	311
Date:	11/4/2021
Time:	9:17 AM
Direction:	North

Description:

Inside Phase I, Cell 1 Leachate Pump House. Cleanout riser and pump risers with T connection to forcemain shown. Building is well maintained.





Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	319
Date:	11/4/2021
Time:	9:19 AM
Direction:	West

Description:

Vegetative cover is dense and healthy.





Description:

Terrace berm. Clear of obstructions and functioning as intended. Vegetative cover is dense and healthy.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	325
Date:	11/4/2021
Time:	9:39 AM
Direction:	West-Southwest
Description:	
Vegetative cover is dense and healthy.	

Image Number:	327
Date:	11/4/2021
Time:	9:43 AM
Direction:	North-Northeast

Description:

Final cover on sideslopes of Phase II Cell 1. Vegetation is healthy with full coverage. No signs of erosion stability issues observed on sideslope.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	329	
Date:	11/4/2021	and the second
Time:	9:45 AM	
Direction:	South-Southeast	
Description:		
Final cover on sidesl Cell 1. Vegetation is coverage. No signs of stability issues obser sideslope.	opes of Phase II healthy with full of erosion rved on	

Image Number:	331
Date:	11/4/2021
Time:	9:47 AM
Direction:	South-Southeast

Description:

Phase II, Cell 2 leachate pump house. Building exterior is in good condition and appropriately signed.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	339	
Date:	11/4/2021	
Time:	9:49 AM	
Direction:	East-Southeast	
Description:		
Leachate liquid level controls in the Phase leachate pump hous	l indicator and e II, Cell 2 se.	

Image Number:	341
Date:	11/4/2021
Time:	9:49 AM
Direction:	West-Southwest

Description:

Inside Phase II, Cell 2 Leachate Pump House. Cleanout riser and pump risers with T connection to forcemain shown. Building is well maintained.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	343		
Date:	11/4/2021		
Time:	9:53 AM		
Direction:	East-Southeast		
Description:			
Landfilll sideslopes a well maintained. No slope stability issues	and terraces are evidence of 3.		

Image Number:	345
Date:	11/5/2021
Time:	1:22 PM
Direction:	South-Southeast

Description:

Downchute near southwest forebay of Northeast Detention Basin. The side outlet pipe detached in 2021 and was repaired, as documented in the operating record and communicated to DNREC. Pipe and downchute appear to be functioning appropriately as intended.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	347
Date:	11/6/2021
Time:	1:23 PM
Direction:	West

Description:

Phase I final cover. Vegetative cover is dense and healthy.



Image Number:	349
Date:	11/7/2021
Time:	1:26 PM
Direction:	South

Description:

Phase I terrace berm and sideslopes. Clear of obstructions and functioning as intended. Vegetative cover is dense and healthy.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	351	
Date:	11/8/2021	
Time:	1:27 PM	the way to be the second se
Direction:	North-Northwest	
Description:		
Phase I terrace bern Clear of obstruction as intended. Vegeta dense and healthy.	m and sideslopes. s and functioning ative cover is	

Image Number:	353
Date:	11/9/2021
Time:	1:27 PM
Direction:	South

Description:

Phase I terrace berm and sideslopes. Clear of obstructions and functioning as intended. Vegetative cover is dense and healthy.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	355		
Date:	11/10/2021		- Albert
Time:	1:31 PM	and the second	
Direction:	East-Southeast		
Description:			C. C. C. Mar
Phase I corner down crossing equalizing p obstructions.	nchute road pipes. Free of		



Description:

Phase I final cover. Vegetative cover is dense and healthy.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	359
Date:	11/12/2021
Time:	1:33 PM
Direction:	Southwest

Description:

Phase I final cover. Vegetative cover is dense and healthy.



Image Number:	361
Date:	11/13/2021
Time:	1:34 PM
Direction:	North-Northwest

Description:

Letdown pipe location from plateau terrace into access road ditch. Free draining. No evidence of erosion.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	363	
Date:	11/14/2021	
Time:	1:35 PM	
Direction:	Southeast	
		the second s
Description:		
Description: Final cover on plateau. Vegetation is well established. No signs of animal burrows or erosion.		

365
11/15/2021
1:36 PM
East

Description:

Final cover on plateau. Vegetation is well established. No signs of animal burrows or erosion.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	367	
Date:	11/16/2021	
Time:	1:37 PM	
Direction:	Southwest	and the second second second second
		the second second
Description:		
Final cover on plat well established. I burrows or erosion	eau. Vegetation is No signs of animal n	

Image Number:	369
Date:	11/17/2021
Time:	1:38 PM
Direction:	North

Description:

Final cover on plateau. Vegetation is well established. No signs of animal burrows or erosion.

Overlooking Phase II, Cell 2 active area from Phase II Cell 1 plateau.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	371	aller at some
Date:	11/18/2021	a state of the second
Time:	1:39 PM	A.S. States
Direction:	North-Northwest	and the second s
Description:		·
Final cover on platea well established. No burrows or erosion.	au. Vegetation is o signs of animal	



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	375	
Date:	11/20/2021	
Time:	1:40 PM	and the second
Direction:	North-Northwest	
Description:		
Downchute inlet, fre	e of obstructions.	

Image Number:	377
Date:	11/21/2021
Time:	1:41 PM
Direction:	North
Direction:	North

Description:

Downchute from plateau area. Functioning as intended.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	379	
Date:	11/22/2021	
Time:	1:42 PM	
Direction:	Northeast	
Description:		
Downchute inlet, free	of obstructions.	

Image Number:	385
Date:	11/25/2021
Time:	1:44 PM
Direction:	Southeast

Description:

Final cover on plateau. Vegetation is well established. No signs of animal burrows or erosion.



Indian River Landfill – 2021 Annual Inspection Dagsboro, DE SCS Engineers Project #25221158.00

Image Number:	387	
Date:	11/26/2021	
Time:	1:47 PM	
Direction:	North-Northwest	
Description:		
Monitoring well clu	uster.	
		Mark Market Bardes
		Contraction of the second second
		A State And State And State

Image Number:	389
Date:	11/27/2021
Time:	1:48 PM
Direction:	North

Description:

Northeast Detention Basin outlet skimmer.



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Image Number:	391
Date:	11/28/2021
Time:	1:48 PM
Direction:	Southwest

Description:

Northeast Detention Basin (Non-Contact Water). No ponding water outside of forebay areas.

