

AUGUST 30, 2024



MUNICIPALITY OF TOA ALTA JULY 2024
MONTHLY REPORT
Civ. No. 3:21-01087-DRD



NIVIA I. AYALA, PE
TERRATEK ENGINEERING GROUP, PSC
P.O. Box 367445 San Juan, PR 00936

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I. DISTRIBUTION LIST

DOJ: david.l.gordon@usdoj.gov

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DNER: nildasanchez@drna.pr.gov

mariavrodriguez@drna.pr.gov

MTA: carmelovazquez@drna.pr.gov

carlos@cwlllegal.com

dbattle@cstlawpr.com

jramirez@amrclaw.com

cagosto674@gmail.com

II. REPORT ORGANIZATION

As part of the USA-MTA Civ. No. 3:21-01087-DRD Stipulation and Preliminary Injunction Order, MTA shall prepare and submit monthly reports regarding the performance of its obligations under this Order until completion of the requirements of Paragraphs 3 through 10 of this Order. Each report shall cover the period ending on the last day of each month. Each report must be sent to DOJ, EPA, and DNER on or before the 15th day of the month following the reporting period. Each monthly report shall include:

- i. Description of compliance with each requirement of this Order;
- ii. the volume, acreage, and location of the Intermediate Cover that was applied;
- iii. the volume and disposition of leachate and leachate-contaminated stormwater collected;
- iv. results of any sampling analysis performed; and
- v. Notification of any noncompliance with this Order, including a statement describing the noncompliance and its underlying causes, proposed measures, and an implementation schedule to correct the noncompliance.

The monthly report is divided into four sections.

Section 1 summarizes the order requirements and the compliance status for each requirement. *Please note that Task IDs are unrelated to the paragraphs assigned to the order.*

Section 2 will include detailed information or supporting documentation regarding the compliance status of each requirement, which needs a comprehensive description or status details.

Section 3 is a list of weekly inspections performed, and

Section 4 is the projection of next month's activities.

Section 5 includes all the attachments to the report.

III. Section 1: SUMMARY

Municipality of Toa Alta Civ. No. 3:21-01087-DRD		
Reporting Period:	July 01 to July 31, 2024	
Reporting Number:	22	
Reporting Official:	Nivia Ayala, PE/TerraTek	
Reporting Date:	08/30/2024	
Description of Compliance with Each Requirement of the Order		
ID	Requirement	Compliance Status
1	Access	In-Compliance
2	Daily Cover	In Compliance
3	Cessation of Waste Disposal	In-Compliance
4	Posting of Signs	In Compliance
5	Intermediate Cover	A new intermediate cover phase spanning approximately 4.5 acres is currently underway, with robust clearing and grubbing activities commencing this month.
6	Maintenance of Cover	In-Compliance
7	Slope Stability	In compliance with agreed short-term controls, safety barrier fencing, and H&S program.
8	Leachate Management	
8a	Leachate Management Plan	A formal Leachate Management Plan was submitted with the Preliminary Closure Plan on October 31, 2023.
8b	Management of Leachate Collected from Landfill	Permit Approved GDG-24-706-001
9	Stormwater Management	
9a	Short Term Controls	In- Compliance
9b	Survey of Leachate Seeps	In-Compliance
9c	Stormwater Management Plan	In-Compliance
9d	Discharges of Stormwater Not from Pond	N/A
9e	Discharge/Disposal of Pond Liquid	N/A
Additional Requirements		

The volume, acreage, and location of the Intermediate Cover that was applied.	None
The volume and disposition of leachate-contaminated stormwater collected.	None
Results Of Any Sampling Analysis Performed	None
Notification Of Noncompliance	The initial soil received was tested for compaction and hydraulic conductivity. The soil failed the hydraulic conductivity test, and we are finding a new source based on the soil report generated last month.

IV. SECTION 2: DETAIL INFORMATION OR SUPPORTING DOCUMENTATION OF EACH REQUIREMENT IN NEED OF COMPREHENSIVE DESCRIPTION OR STATUS DETAILS

A. COMPLETED REQUIREMENTS

Access:

Access is granted to the United States and the Commonwealth of Puerto Rico and their employees, representatives, and contractors to conduct the necessary inspections and studies, including reviewing the applicable record to evaluate existing conditions, following the agreed terms in the Stipulation.

Daily Cover:

Daily Cover at the facility was completed on April 30, 2022. Daily Cover covered all areas of exposed waste.

**Cessation of Waste Disposal:**

The cessation of waste disposal at the facility was completed by March 30, 2022. However, as agreed in the Stipulation, the temporary storage of construction and demolition (C&D) waste, bulk household waste (durable goods such as mattresses, furniture, and appliances), or yard waste (vegetation waste generated by land maintenance) for final disposal at a different landfill is active and been performed daily.



Posting of Signs:

A sign size of four feet by five feet was installed at the landfill entrance. See the attached pictures.



Safety Barrier Fencing

It was completed on April 28, 2023. However, it presents signs of wear and tear. It should be replaced.

B. Supporting documentation of each requirement in need of comprehensive description or status details

1. ID 5: Intermediate Cover

The following is a chronological order of the Municipality performed steps to negotiate and acquire the funds to perform this task:

Rural Development:

1. On May 18, 2020, the Municipality submitted a Notice of Intent to Rural Development requesting the award of funds under the Disaster Mitigation Assistance Grant for the Landfill.
2. On September 4, 2020, the Municipality amended its request to include the landfill closure, post-closure activities, and expansion.
3. On August 16, 2021, the Municipality received a Rural Development email confirming that all the documents for the appropriate Disaster Mitigation Assistance Grant for the Landfill were completed.
4. On August 22, 2022, the Municipality held a Public Hearing about the requested grant funds.
5. USDA Rural Grant Program, MTA submitted a final Environmental Assessment to Quiles, Danna - RD, San Juan, PR <danna.quiles@usda.gov>; Cabrera, Jose - RD, San Juan, PR <Jose.Cabrera@usda.gov>; Davila, Sandimary - RD, San Juan, PR <Sandimary.Davila@usda.gov>; Gonzalez, Melvin - RD, SAN JUAN, PR <Melvin.Gonzalez@usda.gov>. The document was submitted on September 30, 2022.
6. As of today, the Rural Development process is still ongoing but has not yet been completed.
7. The Municipality of Toa Alta, in its continued effort to receive assistance for obtaining the funds required for the landfill closure, received a letter from the Department of Housing informing the designation of the Community Development Block Grant - Mitigation Program (CDBG-MIT) funds for strategic, transformative, and high-impact projects that will strengthen the island's resilience to future natural disasters by improving critical infrastructure. As part of this analysis, the Toa Alta Solid Waste Management Project was selected as a strategic project that will receive funds from this program to implement landfill closure activities. Based on this designation, the

Municipality of Toa Alta has commenced meetings with the Department of Housing to complete all the required documentation required for the final issuance of the award. The Municipality will continue working with the Department of Housing to complete the required processes to receive the grant funds for this vital project.

8. The MTA and PRDOH have held additional meetings and requested information to complete the award issuance of CDBG-MIT funds.
9. The next meeting was scheduled for May 22, 2024.
10. On May 29, 2024, we submitted the final LOERD document for the Toa Alta Landfill Project. We are awaiting HUD approval.
11. The Toa Alta Municipality has started the Environmental Review Process while waiting for the LOERD Approval.
12. The CDBG-MIT program managers met with the Toa Alta Municipality personnel on July 12 and July 26. They support the municipality with the environmental review process.

Department of Natural and Environmental Resources (DNER)

1. A letter dated January 26, 2023, was directed to the MTA Mayor, approving \$1.3M for the planning and design of the closure activities. No disbursement has been received yet.
2. The Municipality designated \$3 Million of their ARPA funds to commence the execution of the required Intermediate Cover tasks.
3. The \$1.3M was reimbursed for planning and design in February 2023.
4. The MTA commenced an RFQ process for a Landfill Contractor to implement the Intermediate in January 2023. Unfortunately, no contractor submitted a proposal for the RFQ.
5. Thus, a new formal drawing was developed to identify the specific project specifications to issue an RFP purpose that would allow more flexibility for contractors to participate. The MTA prepared a new RFP that was published in May 2023.
6. The MTA had two contractors participate in the RFP process, and it is evaluating the proposals to issue the final determination that would allow the commencement of the work during August 2023.

7. The RFP was awarded to LC Group on August 16, 2023.
8. The Intermediate Cover activities started on August 29, 2023.
9. A meeting with DNER Technical Personnel was held on February 29, 2024, regarding formal comments regarding the Preliminary Closure Report submitted on October 31, 2023. After the DNER evaluation, the following are the discussed comments:
 1. Verify Closure Turf Stability Safety Factor calculated for the North Slope (2.4:1?)
 2. Verify the results of the static and seismic Safety Factors.
 3. Revise and include HELP Assumptions and used factors.
 4. Revise Help Calculation results *227 ft³ or 2.267x10³ ft³
 5. Clarify if the Stormwater Pond capacity calculation was performed using the existing water level or on an empty pond.
 6. Verify profile A' used on Drawing 8.

A revised Preliminary Closure Plan was to be submitted by April 15, 2024.

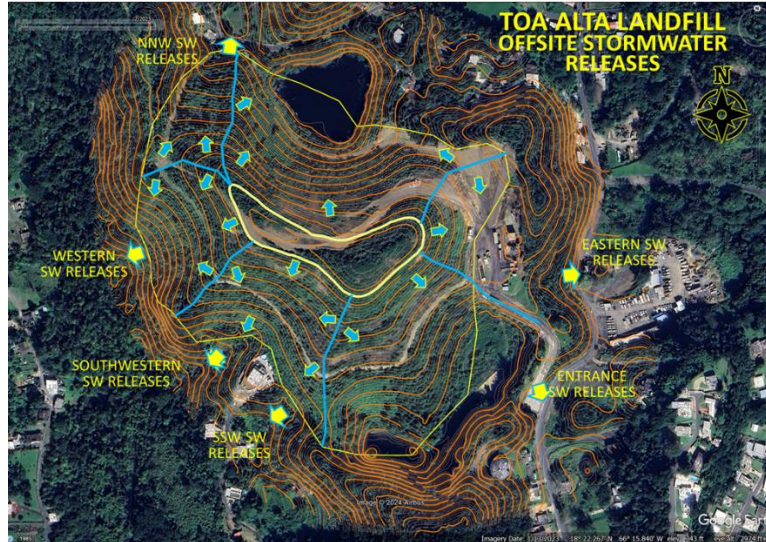
1a. ID 5: Intermediate Cover

The first phase of the intermediate cover project commenced on August 29, 2023, and concluded on February 23, 2024, covering 5.24 acres. A total of 8,264 cubic meters of intermediate cover were applied at the facility. The upcoming phase will encompass approximately 4.5 acres, and we have decided to utilize ET Cover material for this purpose. The soil selection process has begun using the available Soil Survey Resources, with soil samples from Vega Baja undergoing analysis for hydraulic conductivity. The material was classified as AASHTO A-7-5(12), and the Analysis Report is included in Attachment 2. Meanwhile, the Toa Alta Municipality has initiated clearing and grubbing tasks for the intermediate cover placement.

C. EPA REVISIONS, REQUESTS, AND VIRTUAL MEETINGS

- On February 22, 2024, a 2-hour discussion of the EPA HELP Model as it pertains to the Toa Alta Landfill was organized by Mr. Carl Plossl. The first hour was a general presentation of the suitability and use of the HELP Model in estimating leachate generation, stormwater flows, and other water flows in and out of Puerto Rico's landfills. The second hour was focused on aspects of the Toa Alta Landfill.
- On February 23, 2024, Mr. Carl Plossl requested a discussion of the Stormwater Management Plan submitted in July 2023. An extensive list of comments was discussed. MTA submitted a revised Plan on February 26, 2024.
- On February 27, 2024, a kmz file containing the second phase intermediate cover information was submitted to Mr. Carl Plossl.
- We want to thank Mr. Plossl for preparing and Updating the ET Cover Design Elements for the Toa Alta Landfill Intermediate Cover received on January 23, 2024.

- On March 4, 2024, we had a telephone conference call with Mr. Carl Plossl to discuss the Stormwater Management Plan Update. Mr. Plossl, kindly share with us the following documents:
 - Toa Alta Landfill SWPPP prepared in 2021.
 - A drawing showing what he understands to be the stormwater offsite release points/areas at the Toa Alta Landfill.



Needs to be reviewed and corrected

- On April 16, 2024, Mr. Carl Plossl informed us of the following:

Intermediate cover is required under the 1st Stip to be installed at 1 acre/month for the 1st year and then at the rate of 2 acres/month after that. By the end of March 2024, some 24 acres were to be installed. As only 5.24 acres are currently covered, the Municipality of Toa Alta is not in compliance. Your reports must reflect this lapse in compliance.

V. SECTION 3: WEEKLY INSPECTIONS PERFORMED DURING THE REPORTING PERIOD

TerraTek Engineering Group personnel diligently conducted inspections on July 01, 05, 12, 22, and 26, 2024. Each inspection report is available as Attachment 1 to this report.

SECTION 4: PROJECTION OF NEXT MONTH'S ACTIVITIES

August 2, 2024

Weekly Inspection

August 9, 2024

Weekly Inspection

August 16, 2024

Weekly Inspection

August 23

Weekly Inspection

These dates are subject to change.

Follow up on the next phase of the intermediate cover RFP process.

Continuing with the HUD CDBG-MIT Environmental Review Process.

Submit the project status report to the OGP (Puerto Rico's Office of Management and Budget).

VI. Section 4: Attachments

Attachment 1: Weekly Inspections

Attachment 2: Soil Sample Analysis Report

ATTACHMENT 1

Christian Villalta Calderón

cristhianvillalta@gmail.com

Submission Date Jul 1, 2024 3:28 PM

Nombre de la persona que hace la inspeccion Christian Villalta Calderón

Email cristhianvillalta@gmail.com

Fecha Jul 1, 2024

Hora 03:10 PM

Condicion del Clima Soleado

Esta la entrada limpia y libre de basura? Si

Foto Entrada



Hay Personal en la caseta de seguridad?

SI

Cuantos vagonetas han salido en la semana que cubre este día de inspección?

12

Datos de eventos de lluvia

Los datos registrados en el pluviometro se reportan al encargado en el municipio.

Incluir Foto de los datos del pluviometro



Fecha de la ultima verificacion del sistema de manejo de lixiviados Celda Sur?

Jul 1, 2024

Horas de operacion de la planta electrica

8

Estan las areas verdes limpias y se ha realizado mantenimiento?

SI

Estan los diques limpios y sus valvulas cerradas con candado?

SI

Take Photo



Take Photo



Se está aplicando cubierta intermedia en areas cerradas?

No

Existen areas de que tengan ya Cubierta Intermedia que

No

necesiten mantenimiento

Condicion de Cubierta Talud
Norte

Excelentes condiciones

Incluir foto



Foto de verja divisora



Tomar foto de las pendientes y la vegetacion



Condicion Operacion Recibo de Escombros

Necesita Limpieza

Tomar foto de la estacion de trasbordo



Tomar foto de las medidas de control (bermas, piso, etc.)



Equipos Operando

Al momento de la inspección no hay equipos operando, solamente se reciben escombros a esta hora de la inspección.

Condicion de medidas de control de erosion y sedimentacion

Buena

Tomar foto de bermas y canales



Tomar foto de bermas y canales o cualquier medida de control que necesite mantenimiento.



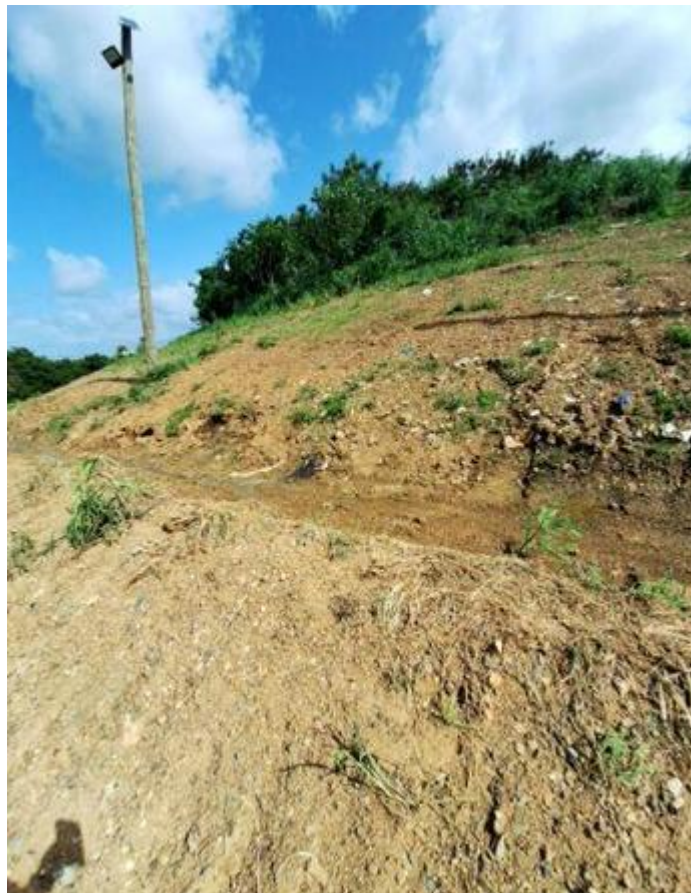
Se pueden notar brotes de lixiviado?

SI

Añadir fotos deal area de brotes visibles



Añadir fotos deal area de brotes visibles



Condicion de los caminos internos

Excelentes condiciones

Añadir fotos sobre las condiciones del camino perimetral.



Condicion de areas de desvio de materiales, si existe

Area completamente limpia.

Fotos Adicionales



Fotos Adicionales



Fotos Adicionales



Favor verificar que ha inspeccionado todas estas areas y/o condiciones.

Entrada	Pluviometro	Registro de Entrada y Salida
Area de Traslado	Aplicacion de Cubierta Intermedia	
Mantenimiento de Cubierta Intermedia		
Canales de Escorrentia	Brotos de Lixiviados	
Caminos Internos		
Equipos de Control de Erosion y Sedimentacion		
Area de Almacenamiento de Vegetativo		

Proxima Inspeccion Programada

07/05/2024

Necesitas compartir alguna informacion con nosotros?

/widget-uploads/voiceRecorder/222905932455863/668302f35feef_1719862003668302f3663bc.wav

Submissions Counter

81

Signature

Christian Villalta Calderón

cristhianvillalta@gmail.com

Submission Date Jul 5, 2024 2:24 PM

Nombre de la persona que hace la inspeccion Christian Villalta Calderón

Email cristhianvillalta@gmail.com

Fecha Jul 5, 2024

Hora 01:56 PM

Condicion del Clima Soleado

Esta la entrada limpia y libre de basura? Si

Foto Entrada



Hay Personal en la caseta de seguridad?

SI

Cuantos vagonetas han salido en la semana que cubre este día de inspección?

10

Datos de eventos de lluvia

Los datos del pluviometro se reportan a las oficinas centrales. Según se aprecia en el instrumento no hay lluvia acumulada.

Incluir Foto de los datos del pluviometro



Fecha de la ultima verificacion del sistema de manejo de lixiviados Celda Sur?

Jul 5, 2024

Horas de operacion de la planta electrica

8

Estan las areas verdes limpias y se ha realizado mantenimiento?

SI

Estan los diques limpios y sus valvulas cerradas con candado?

SI

Take Photo



Take Photo



Se está aplicando cubierta intermedia en areas cerradas?

No

Existen areas de que tengan ya Cubierta Intermedia que

No

necesiten mantenimiento

Condicion de Cubierta Talud
Norte

Excelentes condiciones

Incluir foto



Tomar foto de las pendientes y
la vegetacion



Condicion Operacion Recibo
de Escombros

Necesita Limpieza

Tomar foto de la estacion de
trasbordo



Tomar foto de las medidas de
control (bermas, piso, etc.)



Equipos Operando

Al momento de la inspección un. D4.

Condicion de medidas de control de erosion y sedimentacion

Buena

Tomar foto de bermas y canales



Se pueden notar brotes de lixiviado?

SI

Añadir fotos deal area de brotes visibles



Condicion de los caminos internos

Excelentes condiciones

Añadir fotos sobre las condiciones del camino perimetral.



Condicion de areas de desvio de materiales, si existe

Area completamente limpia.

Fotos Adicionales



Fotos Adicionales



Favor verificar que ha inspeccionado todas estas areas y/o condiciones.

Entrada

Pluviometro

Registro de Entrada y Salida

Area de Traslado

Aplicacion de Cubierta Intermedia

- Mantenimiento de Cubierta Intermedia
- Canales de Escorrentia Brotes de Lixiviados
- Caminos Internos
- Equipos de Control de Erosion y Sedimentacion
- Area de Almacenamiento de Vegetativo

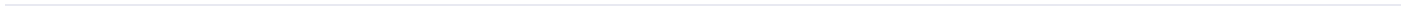
Proxima Inspeccion Programada

07/12/2024

Submissions Counter

82

Signature



Christian Villalta Calderón

crsthanvillalta@gmail.com

Submission Date Jul 12, 2024 3:47 PM

Nombre de la persona que hace la inspeccion Christian Villalta Calderón

Email crsthanvillalta@gmail.com

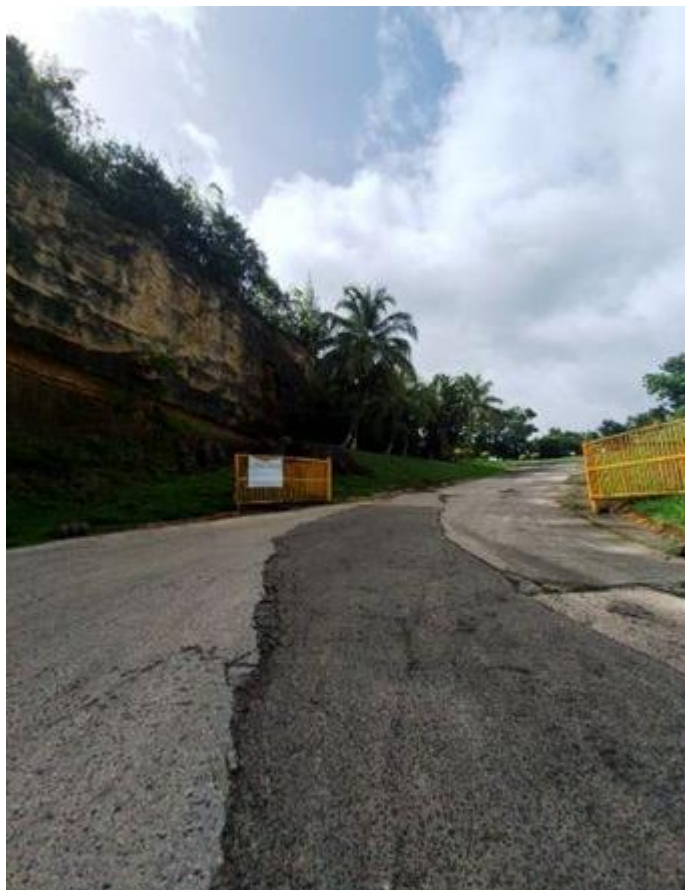
Fecha Jul 12, 2024

Hora 03:33 PM

Condicion del Clima Soleado

Esta la entrada limpia y libre de basura? Si

Foto Entrada



Hay Personal en la caseta de seguridad?

SI

Cuantos vagonetas han salido en la semana que cubre este día de inspección?

12

Datos de eventos de lluvia

Aun cuando el instrumento ya está instalado, no se ha iniciado con el registro diario de datos pluviometricos.

Incluir Foto de los datos del pluviometro



Fecha de la ultima verificacion del sistema de manejo de lixiviados Celda Sur?

Jul 12, 2024

Horas de operacion de la planta electrica

8

Estan las areas verdes limpias y se ha realizado mantenimiento?

SI

Estan los diques limpios y sus valvulas cerradas con candado?

SI

Take Photo



Take Photo



Se está aplicando cubierta intermedia en areas cerradas?

No

Existen areas de que tengan ya Cubierta Intermedia que

No

necesiten mantenimiento

Condicion de Cubierta Talud Norte

Excelentes condiciones

Incluir foto



Foto de verja divisora



Tomar foto de las pendientes y la vegetacion



Condicion Operacion Recibo de Escombros

Necesita Limpieza

Tomar foto de la estacion de trasbordo



Tomar foto de las medidas de control (bermas, piso, etc.)



Equipos Operando

Al momento de la inspección un D4 y una retroexcavadora

Condicion de medidas de control de erosion y sedimentacion

Buena

Tomar foto de bermas y canales



Se pueden notar brotes de lixiviado?

SI

Añadir fotos deal area de brotes visibles



Añadir fotos deal area de brotes visibles



Añadir fotos deal area de brotes visibles



Condicion de los caminos internos

Excelentes condiciones

Añadir fotos sobre las condiciones del camino perimetral.



Condicion de areas de desvio de materiales, si existe

Area completamente limpia.

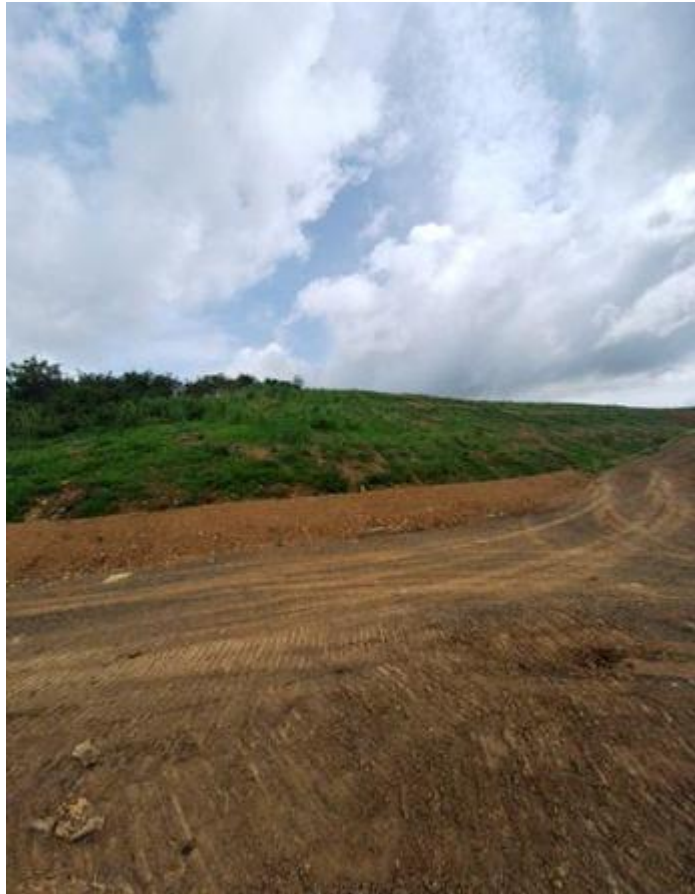
Fotos Adicionales



Fotos Adicionales



Fotos Adicionales



Favor verificar que ha inspeccionado todas estas areas y/o condiciones.

Entrada	Pluviometro	Registro de Entrada y Salida
Area de Traslado	Aplicacion de Cubierta Intermedia	
Mantenimiento de Cubierta Intermedia		
Canales de Escorrentia	Brotos de Lixiviados	
Caminos Internos		
Equipos de Control de Erosion y Sedimentacion		
Area de Almacenamiento de Vegetativo		

Proxima Inspeccion Programada

07/19/2024

Submissions Counter

83

Signature

Christian Villalta Calderón

cristhianvillalta@gmail.com

Submission Date Jul 22, 2024 3:51 PM

Nombre de la persona que hace la inspeccion Christian Villalta Calderón

Email cristhianvillalta@gmail.com

Fecha Jul 22, 2024

Hora 03:30 PM

Condicion del Clima **Lloviendo**

Esta la entrada limpia y libre de basura? Si

Foto Entrada



Hay Personal en la caseta de seguridad?

SI

Cuantos vagonetas han salido en la semana que cubre este día de inspección?

10

Datos de eventos de lluvia

Los datos registrados por el pluviometro se están enviando al administrador del vertedero.

Incluir Foto de los datos del pluviometro



Fecha de la ultima verificacion del sistema de manejo de lixiviados Celda Sur?

Jul 22, 2024

Horas de operacion de la planta electrica

8

Estan las areas verdes limpias y se ha realizado mantenimiento?

SI

Estan los diques limpios y sus valvulas cerradas con candado?

SI

Take Photo



Se está aplicando cubierta intermedia en áreas cerradas?

No

Existen áreas de que tengan ya Cubierta Intermedia que necesiten mantenimiento

No

Condicion de Cubierta Talud Norte

Excelentes condiciones

Incluir foto



Foto de verja divisora



Tomar foto de las pendientes y la vegetacion



Condicion Operacion Recibo
de Escombros

Buena

Tomar foto de la estacion de
trasbordo



Tomar foto de las medidas de
control (bermas, piso, etc.)



Equipos Operando

Al momento de la inspección un D4 y una retroexcavadora.

Condicion de medidas de control de erosion y sedimentacion

Buena

Tomar foto de bermas y canales



Se pueden notar brotes de lixiviado?

SI

Añadir fotos deal area de brotes visibles



Condicion de los caminos internos

Excelentes condiciones

Añadir fotos sobre las condiciones del camino perimetral.



Condicion de areas de desvio de materiales, si existe

Area completamente limpia.

Fotos Adicionales



Fotos Adicionales



Favor verificar que ha inspeccionado todas estas areas y/o condiciones.

- Entrada
- Pluviometro
- Registro de Entrada y Salida
- Area de Traslado
- Aplicacion de Cubierta Intermedia
- Mantenimiento de Cubierta Intermedia

- Canales de Escorrentia
- Brotos de Lixiviados
- Caminos Internos
- Equipos de Control de Erosion y Sedimentacion
- Area de Almacenamiento de Vegetativo

Proxima Inspeccion Programada

07/26/2024

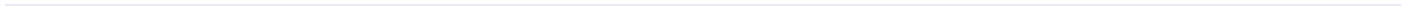
Necesitas compartir alguna informacion con nosotros?

/widget-uploads/voiceRecorder/222905932455863/669eb7dd091e9_1721677789669eb7dd1134c.wav

Submissions Counter

84

Signature



Christian Villalta Calderón

cristhianvillalta@gmail.com

Submission Date Jul 26, 2024 4:07 PM

Nombre de la persona que hace la inspeccion Christian Villalta Calderón

Email cristhianvillalta@gmail.com

Fecha Jul 26, 2024

Hora 03:33 PM

Condicion del Clima Soleado

Esta la entrada limpia y libre de basura? Si

Foto Entrada



Hay Personal en la caseta de seguridad?

SI

Cuantos vagonetas han salido en la semana que cubre este día de inspección?

10

Datos de eventos de lluvia

Los datos de precipitación se envian a la administracion del vertedero municipal de Toa Alta.

Incluir Foto de los datos del pluviometro



Fecha de la ultima verificacion del sistema de manejo de lixiviados Celda Sur?

Jul 26, 2024

Horas de operacion de la planta electrica

8

Estan las areas verdes limpias y se ha realizado mantenimiento?

SI

Estan los diques limpios y sus valvulas cerradas con candado?

SI

Take Photo



Se está aplicando cubierta intermedia en areas cerradas?

No

Existen areas de que tengan ya Cubierta Intermedia que necesiten mantenimiento

No

Condicion de Cubierta Talud Norte

Excelentes condiciones

Incluir foto



Foto de verja divisora



Tomar foto de las pendientes y la vegetacion



Condicion Operacion Recibo
de Escombros

Buena

Tomar foto de la estacion de
trasbordo



Tomar foto de las medidas de
control (bermas, piso, etc.)



Equipos Operando

Al momento de la inspección un D4 y una retroexcavadora.

Condicion de medidas de control de erosion y sedimentacion

Buena

Tomar foto de bermas y canales



Se pueden notar brotes de lixiviado?

SI

Añadir fotos deal area de brotes visibles



Añadir fotos deal area de brotes visibles



Condicion de los caminos
internos

Excelentes condiciones

Añadir fotos sobre las
condiciones del camino
perimetral.



Condicion de areas de desvio
de materiales, si existe

Area completamente limpia.

Fotos Adicionales



Fotos Adicionales



Fotos Adicionales



Favor verificar que ha inspeccionado todas estas areas y/o condiciones.

Entrada	Pluviometro	Registro de Entrada y Salida
Area de Traspordo	Aplicacion de Cubierta Intermedia	

- Mantenimiento de Cubierta Intermedia
- Canales de Escorrentia Brotes de Lixiviados
- Caminos Internos
- Equipos de Control de Erosion y Sedimentacion
- Area de Almacenamiento de Vegetativo

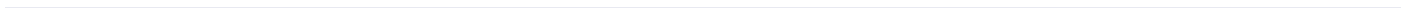
Proxima Inspeccion Programada

07/31/2024

Submissions Counter

85

Signature



ATTACHMENT 2

MGV-GES ENGINEERING LAB, PSC
Soil & Concrete Testing Laboratory

**CLASSIFICATION AND MODIFIED PROCTOR
TEST REPORT**

Client: LC Group, LLC
PO Box 857
Naranjito, PR 00719

Project No. L-1471
Report Date: 07/29/2024

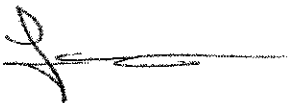
Report Status: Original
Amended

Project: Toa Alta Landfill
Location: Toa Alta, PR
Sample No.: L-071724-5 **Date Sample Received:** 07/17/2024
Sampled by: Client **Transported by:** Client
Source of Sample: Cantera Nidco Vega Baja
Sample Description: Sandy silt, red

Test	Test Method Used	Date Tested	Test Results
Classification	AASHTO	07/17/24-07/22/24	A-7-5
	ASTM D 2487, D-3282	07/17/24-07/22/24	ML
Modified Proctor	ASTM D 1557	07/17/24-07/22/24	Max. Dry Den.: 96.0 pcf Opt. W.C: 26.6 %

Comments: These results are for the exclusive use of the client for whom they were obtained. The apply only to samples tested and are not indicative of apparently identical sample.

Checked by:

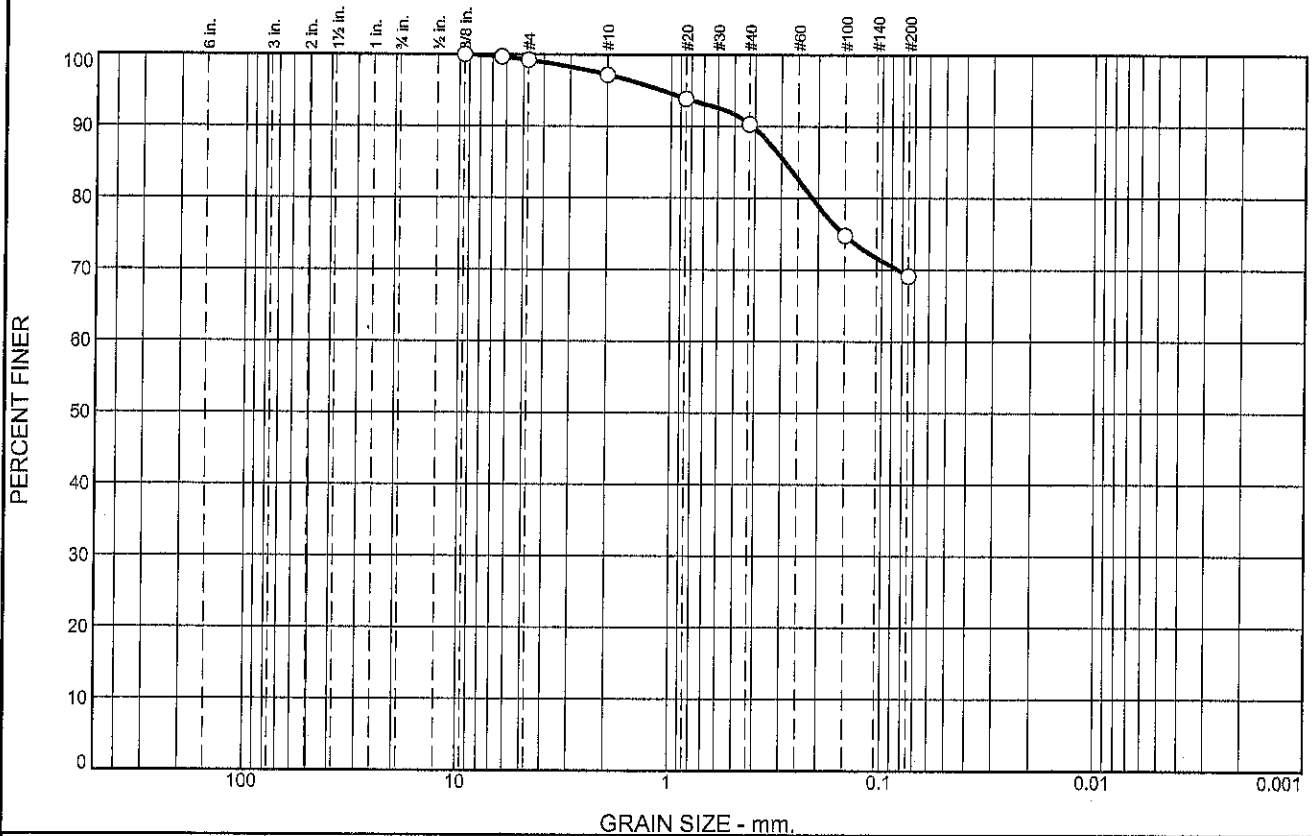



Lawrence Correa Aponte, PE
Laboratory Manager



Particle Size Distribution Report

ASTM C136



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.8	2.0	6.9	21.2	69.1	

Test Results (ASTM C136)				
Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)	Pct. of Fines
.375	100.0			
.25	99.7			
#4	99.2			
#10	97.2			
#20	93.9			
#40	90.3			
#100	74.8			
#200	69.1			

Material Description		
sandy silt		
Atterberg Limits		
PL= 32	LL= 49	PI= 17
Coefficients		
D ₉₀ = 0.4111	D ₈₅ = 0.2885	D ₆₀ =
D ₅₀ =	D ₃₀ =	D ₁₅ =
D ₁₀ =	C _u =	C _c =
Classification		
USCS= ML	AASHTO= A-7-5(12)	
Test Remarks		
F.M.=0.55		

* (no specification provided)

Location: Cantera Nidco, Vega Baja
 Sample Number: L-071724-5

Depth: n/a

Sample Date: 07/17/2024

MGV-GES Lab, Inc.

Client: LC GROUP, LLC
 Project: VERTEDERO TOA ALTA

Vega Baja, Puerto Rico

Project No: L-1471

Figure 5

Tested By: Y. ROSARIO

Checked By: LAWRENCE CORREA APONTE, PE

These results are for the exclusive use of the client for whom they were obtained. They apply only to samples tested and are not indicative of apparently identical sample.

COMPACTION TEST REPORT

Curve No.: 5

Project No.: L-1471

Date: 07/23/2024

Project: VERTEDERO TOA ALTA

Client: LC GROUP, LLC

Location: Cantera Nidco, Vega Baja

Sample Number: L-071724-5

Depth: n/a

Remarks:

MATERIAL DESCRIPTION

Description: sandy silt

Classifications -

USCS: ML

AASHTO: A-7-5(12)

Nat. Moist. = N/A %

Sp.G. = N/A

Liquid Limit = 49

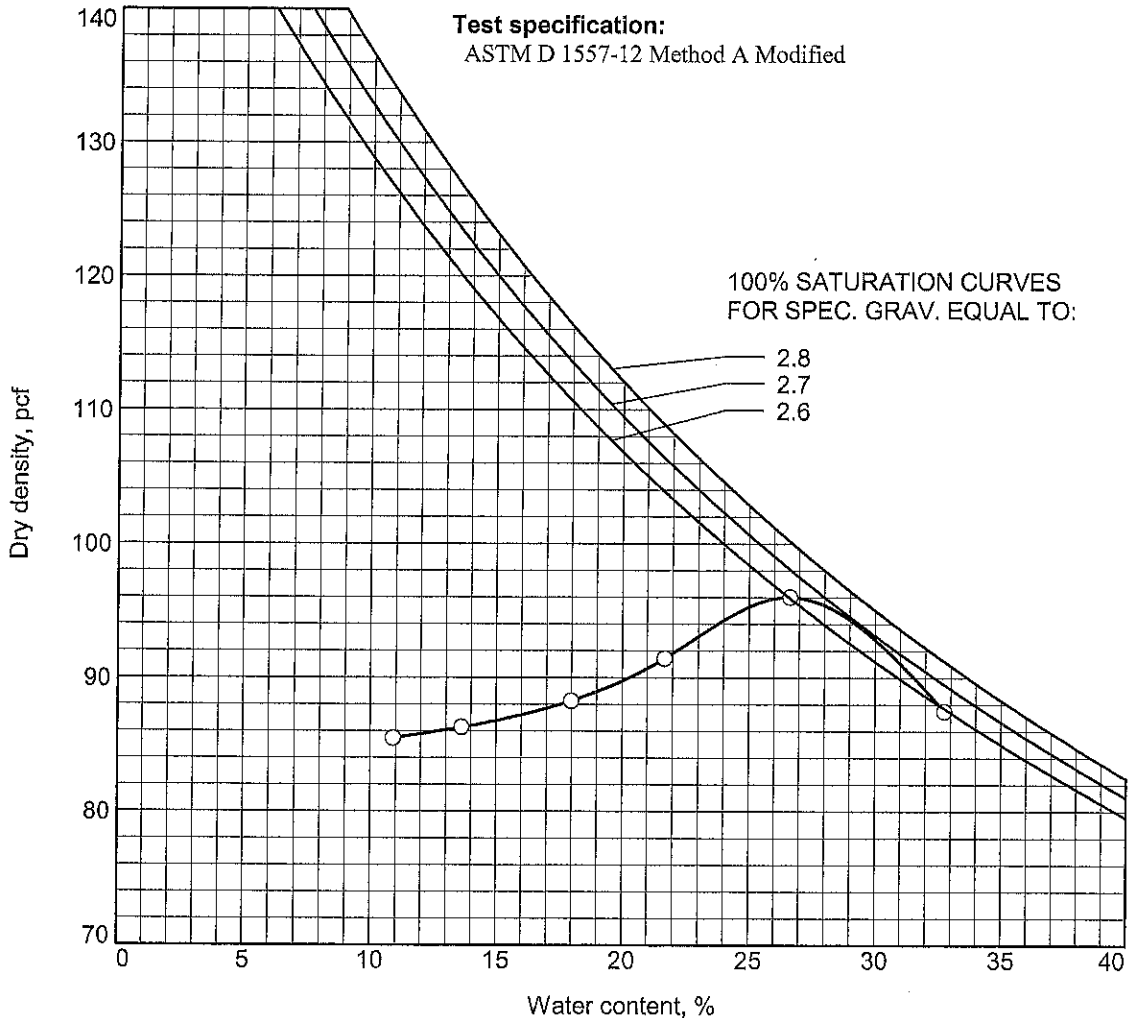
Plasticity Index = 17

% < No.200 = 69.1 %

TEST RESULTS

Maximum dry density = 96.0 pcf

Optimum moisture = 26.6 %



These results are for the exclusive use of the client for whom they were obtained. They apply only to samples tested and are not indicative of apparently identical sample.

MGV-GES Lab, Inc.

Figure

5

Tested By: C. CARDONA

Checked By: LAWRENCE CORREA APONTE, PE

MGV-GES ENGINEERING LAB, PSC
Soil & Concrete Testing Laboratory

**MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF POROUS MATERIAL
USING A RIGID-WALL, COMPACTION MOLD PERMEAMETER**

Client: LC Group, LLC
PO Box 857
Naranjito, PR 00719

Project No. L-1471
Report Date: 07/31/2024

Report Status: Original
Amended

Project: Toa Alta Landfill
Location: Toa Alta, PR
Sample No.: L-073124-1 **Date Sample Received:** 07/31/2024
Sampled by: Client **Transported by:** Client
Source of Sample: Cantera Nidco, Vega Baja
Sample Description: Sandy silt, red.
Tested by: Spec Group

Test	Test Method Used	Test Results
Hydraulic Conductivity (k) Falling Head Method	ASTM D 5856	K= 1.35 x10 ⁻⁷ cm/s

Comments: Sample compacted using (modified Proctor ASTM D1557)

- 1) MDD=96.0 pcf, OMC= 26.6%.
- 2) Test Specimen Compaction MDD= 86.7 pcf.
- 3) Percent Compaction of sample = 90%
- 4) Moisture Content = 30.9 % as compacted
- 5) Moisture after test: 47.7%

The test results presented herein should be forwarded to the corresponding professional consultant for review and final approval.

Checked by:

Lawrence Correa Aponte, PE
Laboratory Manager

