

July 3, 2018

Arkansas Department of Environmental Quality NPDES Branch, Water Division 5301 Northshore Drive North Little Rock, AR 72118-5317

Attn: Ms. Carrie McWilliams, P.E.

NPDES Branch, Water Division

RE: North Sedimentation Basin Construction

Waste Management of Arkansas

Eco Vista Class I Landfill

Eco-Vista, LLC

NPDES Permit ARG160045C

AFIN: 72-00144 Solid Waste Permit No: 0290-S1-R3

Dear Ms. McWilliams:

On behalf of our client, Eco Vista, LLC – Eco Vista Class I Landfill, Shepherd Engineering Design Co., Inc. (SEDCo) is submitting this construction certification for the North Sedimentation Basin as per Part 1.3.3 of ARG160045. Eco Vista, LLC recently completed the construction of Cell 12 North at the Eco Vista Class 1 Landfill, located in Tontitown, Arkansas. As part of the 5-acre Cell 12 North Cell construction, a 7.3-acre stormwater sedimentation basin was constructed in accordance with the requirements of the ARG160000 and Recommended Standards for Wastewater Facilities, commonly referred to as "10 State Standards".

The design and plans for the North Sedimentation Basin were completed by Terracon Consultants, Inc. They were included in a major permit modification application that was submitted to the Solid Waste Management Division (SWMD) of the ADEQ. The SWMD approved the major permit modification on October 1, 2014. During this major permit application; Terracon also submitted a Notice of Intent (NOI) and the Arkansas Form 1 with the design, plans and specifications to the Water Division of the ADEQ on November 15, 2013. The Water Division approved the North Sedimentation Basin and issued a permit (ARG160045C) on April 25, 2014 (Attachment J).

ADEQ Permit No.: ARG160045

The construction of the sedimentation basin was completed in phases as the current landfill cells at Eco Vista Landfill have been built. The subgrade, berms and inlet culvert were constructed in 2016 as part of Cell 10/11 North Cell construction and completed by the earthwork contractor. The construction of the remaining earthwork components were completed in 2018, as part of Cell 12 North Cell construction, which included the installation of the clay liner (seal), principle spillway, discharge pipe, emergency spillway, inlet/outlet treatments (riprap aprons), pond gauges and vegetation and was completed by CEG Construction, Inc. Construction Quality Assurance (CQA) observation, testing, and documentation was provided by Shepherd Engineering Design Co. Inc. (SEDCo). Earthwork activities for the North Sedimentation Basin began on March 26, 2018 and were finished on June 17, 2018. The placement of clay liner in the North Sedimentation Basin began on May 11, 2018 and was completed on June 10, 2018. Cell 12 North Cell construction drawings that show the North Sedimentation Basin are presented in **Attachment A**.

Design

• The basin shape was slightly modified to accommodate a new scale house location (Attachment B). The basin was reduced to approximately 7.3 acres in size. This reduced the capacity of the basin from approximately 2,704,024 ft³ = 20,226,105 gallons to a capacity of 2,034,990 ft³ = 15,221,725 gallons. This new volume was determined from the as built survey (shown in Attachment C) and are calculated from the basin floor elevation (approximately elevation = 1282 feet) to invert elevation of emergency spillway (elevation = 1290 feet). Therefore, the constructed basin can hold the run-off from both a 25-year, 24-hour (8,992,875 gallons) and a 100-year, 24-hour (10,991,292 gallons) storm event based on the calculation submitted by Terracon in the Stormwater Management Plan, Section 2.2 in November 2013.

Construction Summary

- Top of berm width: 24 feet wide to accommodate vehicles;
- Inner and outer berm slopes: Not steeper that 3:1 and not flatter than 4:1 (Attachment C);
- Approximately 2 feet of freeboard: At elevation = 1288 feet (top of principle spillway), approximate volume is 1,460,160 ft³ = 10,921,966 gallons. The invert of the emergency spillway is at elevation 1290 feet;
- Design Depth: 6 feet;
- Erosion Control: The berms (interior and exterior) were seed and mulched to promote vegetative growth. Inlet and outlet riprap aprons as shown on construction drawings. The emergency spillway lined with geotextile and riprap;
- Seal: Clay liner was installed at 12" thick with a minimum permeability of less than 1 x 10⁻⁷ cm/sec; and
- Pond level gauge: 4 markers installed.

ADEQ Permit No.: ARG160045

Construction Quality Assurance

The Construction Quality Assurance (CQA) activities performed by SEDCo were to confirm that the North Sedimentation Basin was constructed in accordance to the project drawings, specification and CQA Plan. SEDCo followed the CQA Plan that was approved by the SWMD ["Construction Quality Assurance Plan", Eco Vista Class I Landfill, Lateral Expansion Area, prepared by Terracon Consultants, Inc., December 2012 (Revised October 2013)]. We realize the requirements based on a CQA Plan for landfill liner systems is probably more that what is needed, but we felt that it was appropriate to implement an approved CQA Plan for the site.

Construction activities observed by SEDCo's CQA personnel for the project included the following:

- 1. In 2016, the North Sedimentation Basin was cut and filled to achieve the required subgrade elevations. In fill locations, the subgrade material was placed and compacted to achieve the required elevations. The subgrade consisted of material from an on-site borrow source and it was placed in approximately 9-inch thick loose lift. In 2018, the subgrade was proofrolled with an osculating end dump truck to detect potentially soft or loose zones. There were no soft zones detected.
- 2. The Clay Liner (i.e., seal) was placed and compacted in the sedimentation basin area to achieve the required elevations. The Clay Liner consisted of clay material which was obtained from two (2) off-site borrow source and provided by WMAR. Based on the total quantity of Clay Liner to be placed, 11,777 CY, samples were collected to meet the frequency requirements of the CQA Plan. There were two (2) bucket samples collected (1 per site) and tested as preconstruction samples (Attachment D).

During construction, three (3) construction samples were collected and tested, based on the sample frequency of one per 5,000 CY (**Attachment E**). The clay material was hauled and placed into a stockpile; which began prior to the start of construction and finished a couple of weeks into construction. The Clay Liner was placed in approximately 9-inch loose lifts (6-inch compacted lift thickness) and compacted to a minimum relative compaction of 95 percent of the maximum dry unit weight, as determined by the Standard Proctor Compaction Test i.e., ASTM D698.

As part of CQA activities, geotechnical testing was performed on the Clay Liner components as described in the CQA Plan. Depending on the specific test, testing was performed in-place or at the off-site geotechnical laboratory. The following geotechnical tests were performed:

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 In-place nuclear moisture/density tests were performed on compacted lifts of the Clay Liner material. The tests were performed in general accordance with ASTM D2922 and ASTM D3017.

SEDCo

The CQA Plan requires one test sample per 10,000 square foot per lift. The approximate total area of the North Sedimentation Basin was 7.3 acres (317,998 SF), which is thirty-two (32) per lift based on the required one per 10,000 SF. A total of seventy-eight (78) field moisture/density tests or thirty-nine (39) per lift were performed for the Clay Liner in the North Sedimentation Basin. This total number of test exceeds the minimum required acceptable sample frequency of one per 10,000 SF required by the CQA Plan. The results of the in-place nuclear moisture/density tests and the testing locations per lift are presented in **Attachment F**.

- Soil classification, Atterberg limits, standard proctor, grain size analysis and percent passing the No. 200 sieve tests, were conducted on the soils used for the Secondary Clay Liner material. The tests were conducted in accordance with ASTM D2487, ASTM D4318, ASTM D698, ASTM D422, and ASTM D1140.
- Hydraulic conductivity and moisture content tests were performed on Shelby tube samples of material used for the Clay Liner. The hydraulic conductivity tests were performed in general accordance with ASTM D5084, and the moisture content tests were performed in accordance with ASTM D2216, and ASTM D698.

The CQA Plan requires one Shelby tube sample per 40,000 square foot per lift. The approximate total area of the North Sedimentation Basin was 7.3 acres (317,998 SF)). Based on that area, the required number of Shelby tubes per lift would be eight (8). A total of twenty (20) Shelby tube samples (ten (10) per lift) for permeability tests were obtained from the newly constructed Clay Liner. The Shelby tube samples were sent to the TRI laboratory in Austin, Texas and were tested for permeability per ASTM D5084. The results of the Shelby tube samples are presented in **Attachment G**.

SEDCo supplied a nuclear gauge (i.e., CPN Corporation Model MC-1DRP, Serial No. M880904573), which was used to perform the moisture/density tests. A grid layout of the site was used to visually locate the in-place tests and sample locations. Since visual positioning of test locations was used, the locations and elevations of the tests and samples given in the appendices are only approximate.

The project photographs taken by the CQA technician and the CQA Technician daily reports are included in **Attachment H** and **Attachment I**.

North Sedimentation Basin Construction

ADEQ Permit No.: ARG160045

If you should have any comments, please do not hesitate to contact me at (870) 391-1543 or Jeff Shepherd at (405) 823-7772.

Sincerely,

Shepherd Engineering Design Co., Inc.

Bryan W. Bailey, P.E.

Bryan W Bailey

Project Engineer

Jeff A Shepherd, P.E.

ABA Slepl Q

Senior Engineer

Cc: Mr. David Conrad – Waste Management of Arkansas (1 Copy of Report)

Mr. Tim Murray - Eco Vista Class I Landfill (1 Copy of Report)

Ms. Jodi Reynolds – Environmental Protection Manager – Arkansas (1 Copy of Report)

Attachments: Attachment A - Construction Drawings

Attachment B - Construction Drawings: Relocated Scalehouse

Attachment C - Surveyor's As-Built Drawings

Attachment D – Clay Liner: Preconstruction Testing

Attachment E – Clay Liner: Construction Testing

Attachment F - Moisture/Density Test Results & Approximate Location of

Field Tests of Clay Liner (Lifts 1 and 2)

Attachment G – In-Situ Permeability Testing

Attachment H – Construction Photographs

Attachment I – CQA Technician Daily Reports

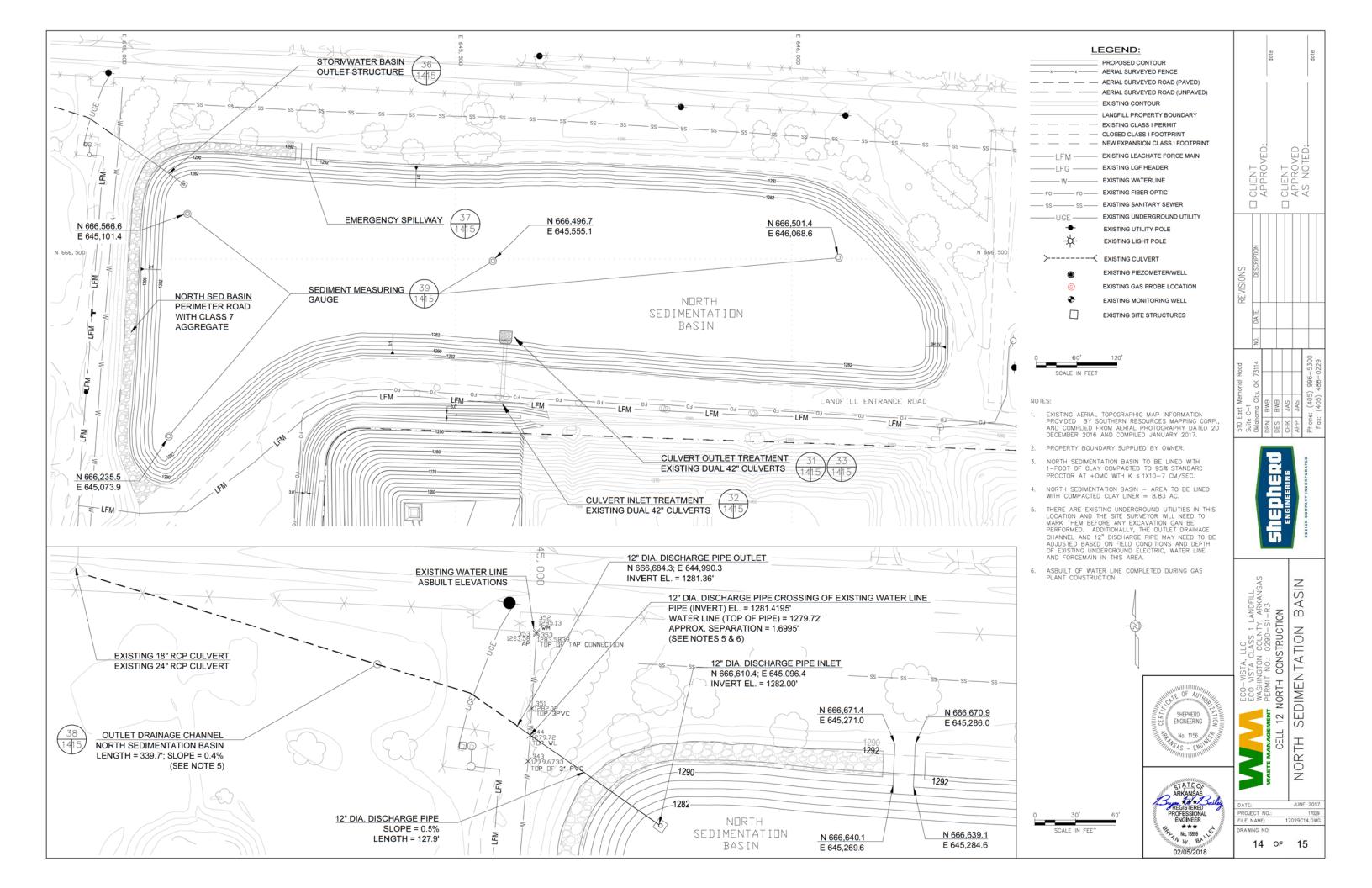
Attachment J – ARG160045C (Complete Construction Application)

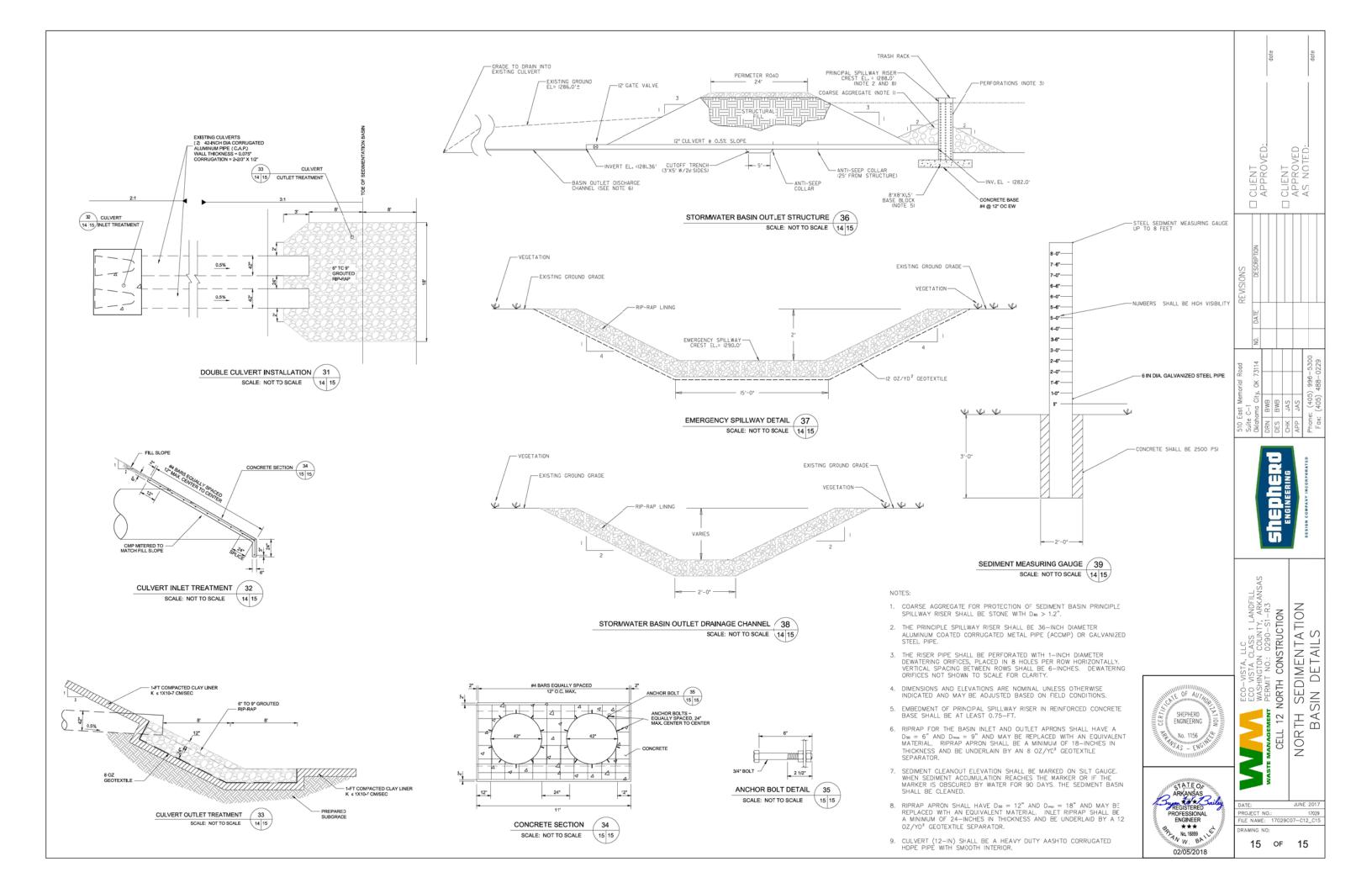




Eco Vista Class I Landfill North Sedimentation Basin Construction ADEQ Permit No.: ARG160045

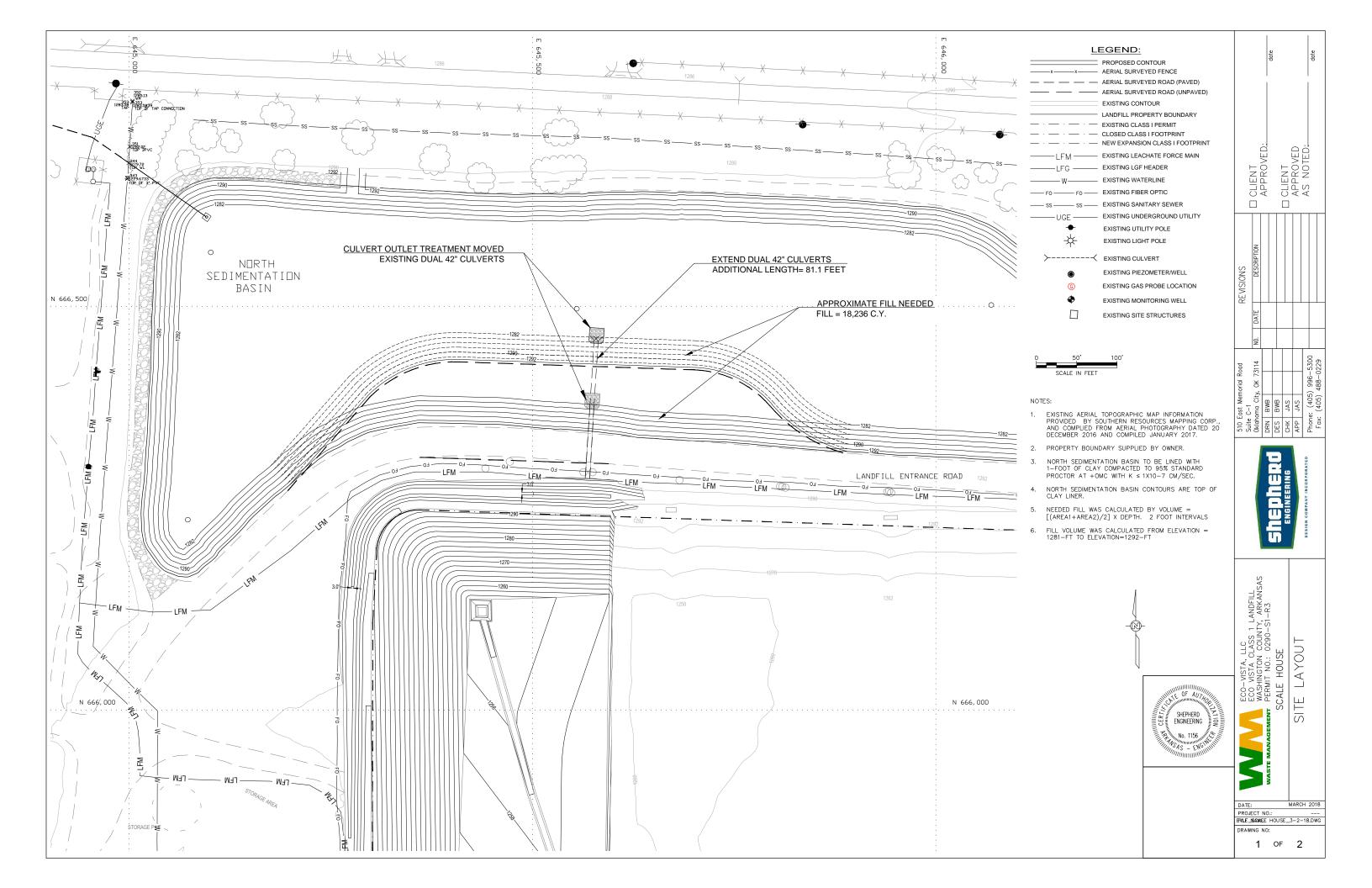
ATTACHMENT A Construction Drawings

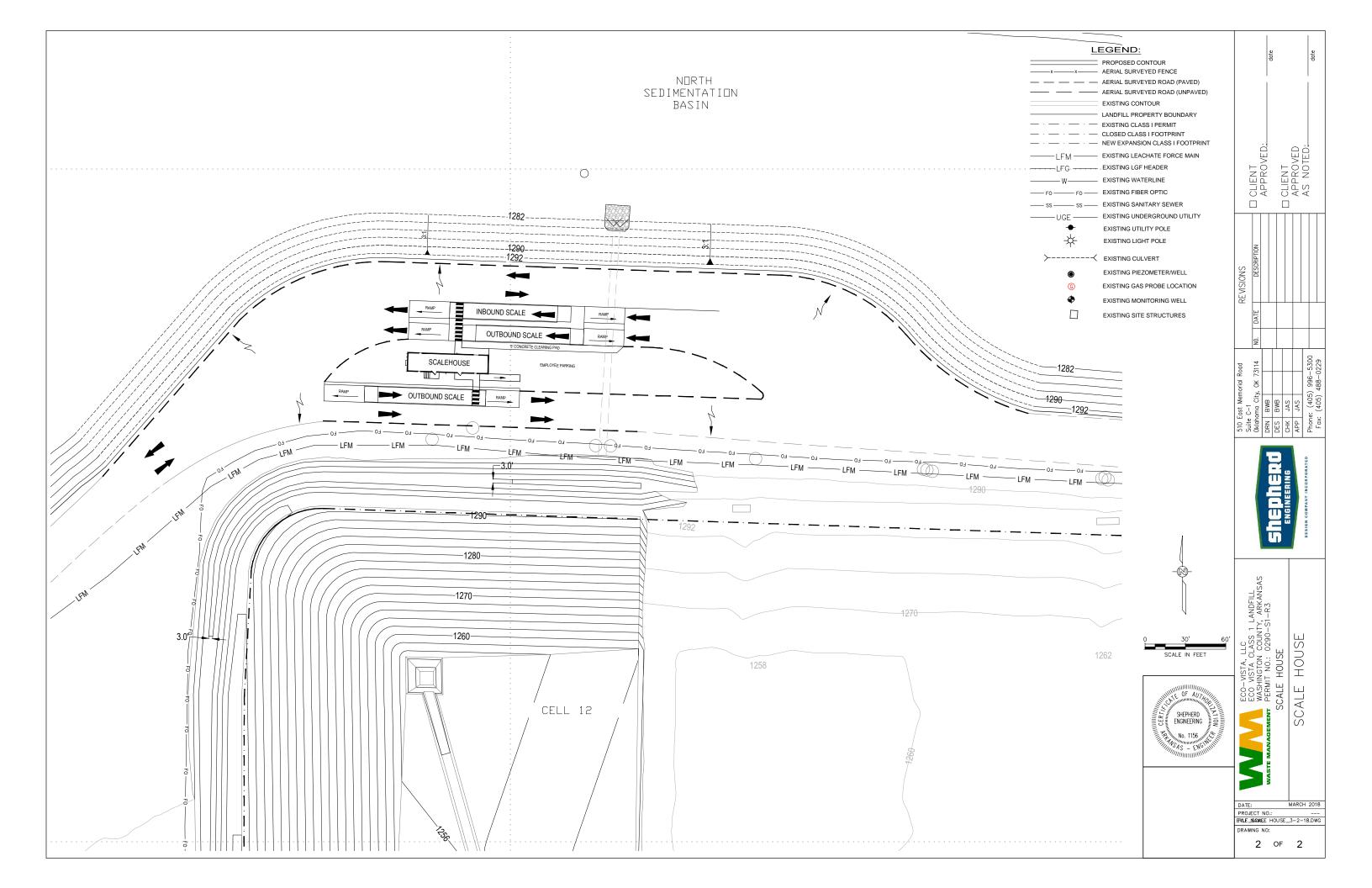




Eco Vista Class I Landfill North Sedimentation Basin Construction ADEQ Permit No.: ARG160045

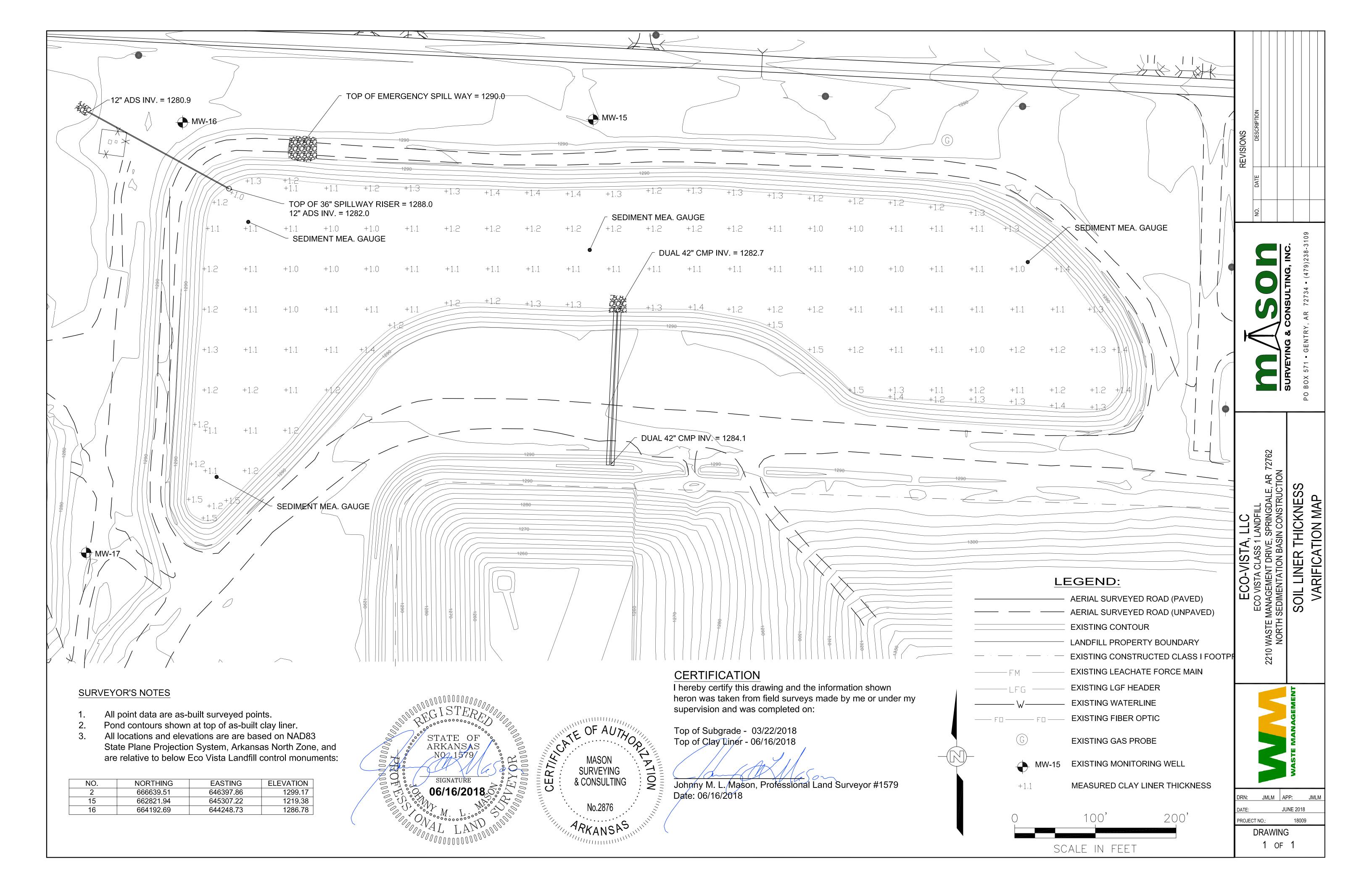
ATTACHMENT B Construction Drawings – Relocated Scale house





Eco Vista Class I Landfill North Sedimentation Basin Construction ADEQ Permit No.: ARG160045

ATTACHMENT C Surveyor's As-Built Drawings



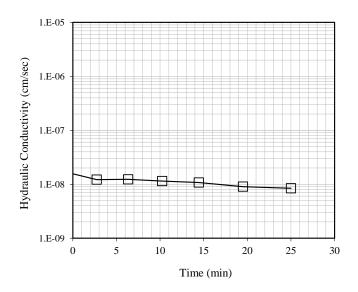
Eco Vista Class I Landfill North Sedimentation Basin Construction ADEQ Permit No.: ARG160045

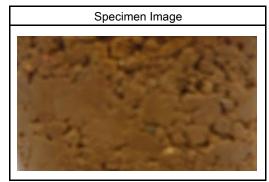
ATTACHMENT D Clay Liner – Preconstruction Testing

Hydraulic Conductivity

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: Clay-Baker-1 (S-C)





TRI Log #: 35739.1B

Test Method: ASTM D5084

Method F

Initial Values	
Sample Condition	Remolded
Diameter (in)	2.80
Height (in)	1.50
Initial Mass (g)	302.7
Sample Area (in ²)	6.16
Water Content (%)	21.5
Total Unit Weight (pcf)	124.8
Dry Unit Weight (pcf)	102.7
Specific Gravity (Assumed)	2.65
Degree of Saturation	93.4
Void Ratio	0.61
Porosity	0.38
1 Pore Volume (cc)	57.4
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.98

Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
10.2	1.1E-08
14.4	1.1E-08
19.5	9.0E-09
25.0	8.4E-09
Average, Last 2 Readings	8.7E-09

Jeffrey A. Kuhn, Ph.D., P.E., 4/4/2018

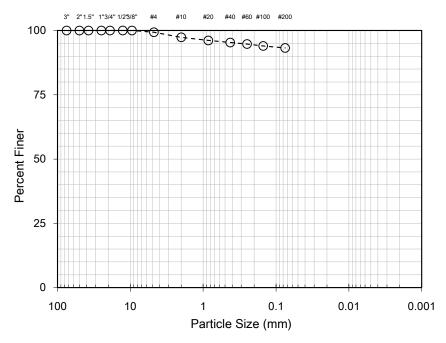
Particle Size, Atterberg Limit, and USCS Analyses for Soils

Client: Waste Management, Inc.

Eco Vista Landfill Cell 12 North

Sample ID: Clay-Baker-1 (S-C)

Project:



	60	
Ē	50	"U" Line "A" Line
Plasticity Index (PI)	40	CH or OH
y Inc	30	
sticit	20	CL or OL MH or OH
P	10	CL ML ML or OL
	0	
		0 10 20 30 40 50 60 70 80 90 100
		Liquid Limit (LL)

TRI Log #:

35739.1

Atterberg Limits		
(ASTM D4318, Method A : Multipoint, Air Dried)		
Liquid Limit	34	
Plastic Limit	19	
Plastic Index	15	
(NL = No Liquid Limit, NP = No Plastic Limit)		

Mechanical Sieve			
	(ASTM D422)		
Sieve Designation		Percent Passing	
-	mm		
3 in.	76.2	100.0	
2 in.	50.8	100.0	
1.5 in.	38.1	100.0	
1 in.	25.4	100.0	
3/4 in.	19.0	100.0	
1/2 in.	12.7	100.0	
3/8 in.	9.51	100.0	
No. 4	4.76	99.3	
No. 10	2.00	97.4	
No. 20	0.841	96.1	
No. 40	0.420	95.3	
No. 60	0.250	94.8	
No. 100	0.149	94.0	
No. 200	0.074	93.2	

Hydrometer Analysis		
(ASTM D422)		
Percent Passing		
Ū		

Log-Linear Interpolation		
Percent Passing		

D _X (mm), Log-Linear Interpolation			
10	30	50	60

Cu	C
	-

USCS Classification (ASTM D2487)		
Lean cla	y (CL)	

Moisture Content (%) (ASTM D2216)
22.6

Jeffrey A. Kuhn, Ph.D., P.E., 3/12/2018

Laboratory Compaction Characteristics of Soil Using Standard Effort (ASTM D698)

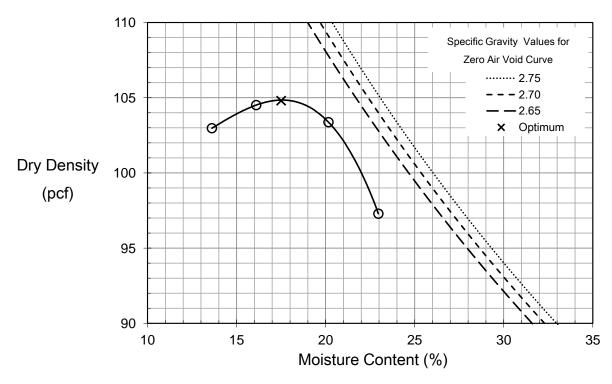
Client: Waste Management, Inc. TRI Log #: 35739.1

Project: Eco Vista Lansfill Cell 12 North

Sample ID: Clay-Baker-1 (S-C)

Compaction Effort	-	Standard
Method	-	Α
Rammer Type	-	Automatic
Maximum Dry Density	pcf	104.8
Optimum Water Content	%	17.5

Oversize Particle / "Rock" Correction (ASTM D4718)				
Oversized Particles %				
Maximum Dry Density	pcf			
Optimum Water Content %				



Jeffrey A. Kuhn, Ph.D, P.E., 3/7/2018

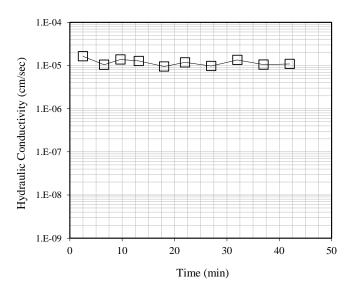
Quality Review / Date

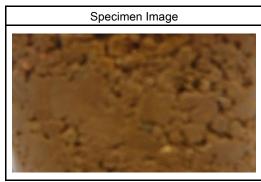
Hydraulic Conductivity

Client: Waste Management, Inc.

Project: Eco Vista Landfill Cell 12 North

Sample ID: Clay-Baker-1 (S-C)





Note - Secondary features were observed in the specimen following remolding as presented in the specimen image. Tabular values of water content are presented within the report body and below to achieve saturation values of 80, 85, and 90% given specific gravity values of 2.65 and 2.73. Assuming a specific gravity of 2.65, the saturation of the specimen was 70.2% following compaction. Please alert TRI if additional hydraulic conductivity testing is requested.

Dry Density	Saturation	w (%)	
pcf	%	Gs = 2.65	Gs = 2.73
99.6	80	19.9	20.8
99.6	85	21.2	22.1
99.6	90	22.4	23.4

TRI Log #: 35739.1
Test Method: ASTM D5084
Method C

Initial Values			
Sample Condition	Remolded		
Diameter (in)	2.80		
Height (in)	1.50		
Initial Mass (g)	284.0		
Sample Area (in ²)	6.16		
Water Content (%)	17.5		
Total Unit Weight (pcf)	117.0		
Dry Unit Weight (pcf)	99.6		
Specific Gravity (Assumed)	2.65		
Degree of Saturation	70.2		
Void Ratio	0.66		
Porosity	0.40		
1 Pore Volume (cc)	60.2		
Eff. Confining Stress (psi)	15.0		
B-Value Prior to Permeation	0.89		

Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
27.0	9.8E-06
32.0	1.4E-05
37.0	1.1E-05
42.0	1.1E-05
Average, Last 4 Readings	1.1E-05

Jeffrey A. Kuhn, Ph.D., P.E., 3/26/2018

GTS, Inc.
Geotechnical & Testing Services

1915 North Shiloh Drive Fayetteville, Arkansas 72704

Office: (479) 521-7645 Fax: (479) 521-6232

Office Locations

Fayetteville, Arkansas Fort Smith, Arkansas Tulsa, Oklahoma

PROJECT Eco Vista Landfill

JOB NO. <u>18-11148</u> **DATE** <u>5/21/2018</u>

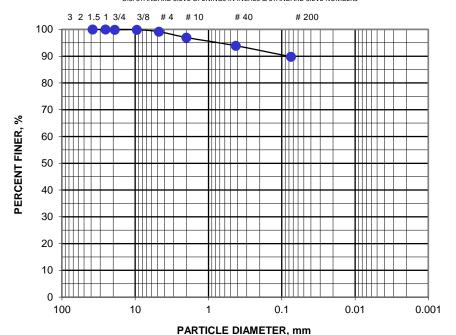
LOCATION	Beechwood Parking Lot	SIEVE SIZE	PERCENT PASSING
SAMPLE NO.	4986	3.00"	100.0%
	•	1.50"	100.0%
DEPTH (FT)	2"-6" below surface grades	1.00"	100.0%
		3/4"	100.0%
PLASTIC LIMIT	23	3/8"	100.0%
	•	No. 4	99.2%
LIQUID LIMIT	52	No. 10	97.0%
	-	No. 40	93.9%
PLASTICITY INDEX	29	No. 200	89.8%

VISUAL CLASSIFICATION	Dark Brown Fat Clay
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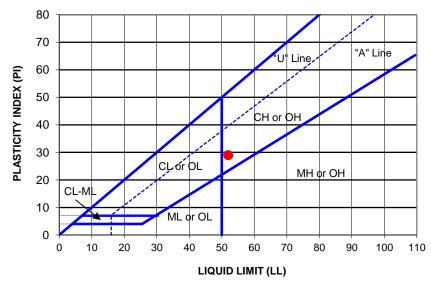
ASTM	AASHTO	AASHTO
DESCRIPTION	CLASSIFICATION	GI
Fat Clay, CH	A-7-6	29

GRAIN SIZE DISTRIBUTION CURVE

U.S. STANDARD SIEVE OPENINGS IN INCHES & STANDARD SIEVE NUMBERS



PLASTICITY CHART



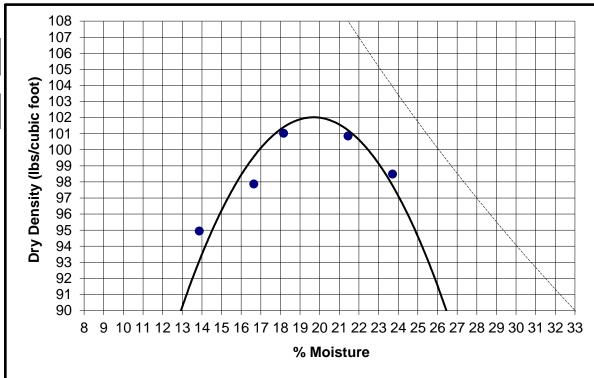


LABORATORY COMPACTION CHARACTERISTICS OF SOIL

CLIENT:	Choice Development	DATE:	5/21/18	SAMPLE LOCATION:	Beechwood Parking Lot	LL=	52
PROJECT NUMBER:	18-11148	LAB NO.	4986	SAMPLE DESCRIPTION:	Fat Clay, CH	PL=	23
PROJECT NAME:	Eco Vista Landfill	TEST METHOD:	ASTM D698	AASHTO CLASS.:	A-7-6	PI=	29

VISUAL CLASSIFICATION: Dark Brown Fat Clay

Maximum Dry Density (lbs./cubic foot)	102.0
Optimum Moisture	19.8
(percent)	19.0



1915 North Shiloh Drive, Suite 1 Fayetteville, Arkansas 72704 Office: (479) 521-7645

Office: (479) 521-7645 Fax: (479) 521-6232



Hydraulic Conductivity Test Procedures Performed In Accordance With ASTM D 5084 Method C Using De-aired Water

HYDRAULIC CONDUCTIVITY TEST RESULTS

PROJECT: Eco Vista Landfill PROJECT NUMBER: 18-11148

SAMPLE NUMBER: 5059 SAMPLE LOCATION: Beechwood Parking Lot

West Center of Site

DEPTH: 2" - 6" below Surface Grades **SAMPLE TYPE:** Remolded Sample from Bulk

Material

VISUAL CLASSIFICATION: Dark Brown Fat Clay ASTM DESCRIPTION: Fat Clay, CH

Hyrdraulic Conductivity, k₂₀: 1.55E-08 cm/s

Test Parameters

Cell Pressure (psi): 34.5

Inflow Pressure (psi): 19.5

Back Pressure (psi): 19

Effective

Confining Pressure (psi): 15

Reservior Area (cm²): 0.89

Test Start Time: 5/29/18 1:40 PM

Initial Sample Data

Diameter (in): 2.85

Length (in): 5.63

Moisture Content: 20.1%

Wet Unit Weight (pcf): 119.3

Dry Unit Weight (pcf): 99.4

Percent Compaction: 97.5%

Hydraulic Gradient: 4.03

Final Sample Data

Diameter (in): 2.86

Length (in): 5.60

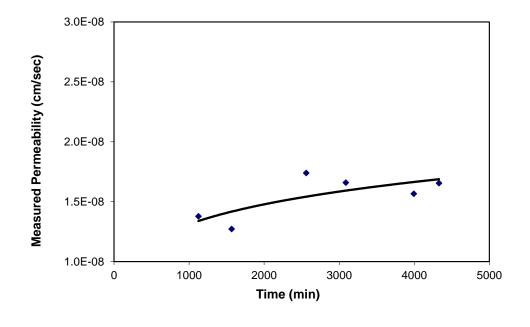
Moisture Content: 25.1%

Wet Unit Weight (pcf): 124.6

Dry Unit Weight (pcf): 99.6

Percent Compaction: 97.6%

Hydraulic Gradient: 3.92



Eco Vista Class I Landfill North Sedimentation Basin Construction ADEQ Permit No.: ARG160045

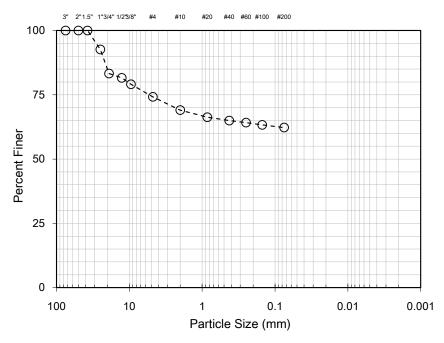
ATTACHMENT E Clay Liner – Construction Testing

Particle Size, Atterberg Limit, and USCS Analyses for Soils

Client: Waste Management Inc.

Project: Eco Vista Landfill Cell 12 North

Sample ID: Clay-CS-1



	60 -	
<u>E</u>	50 -	"U" Line
Plasticity Index (PI)	40	CH or OH
y Inc	30 -	
sticit	20 -	CL or OL MH or OH
Pa	10	CLML ML or OL
	0 -	
		0 10 20 30 40 50 60 70 80 90 100 Liquid Limit (LL)

TRI Log #:

37747.1

Atterberg Limits		
(ASTM D4318, Method A : Multipoint, Air Dried)		
Liquid Limit 32		
Plastic Limit 20		
Plastic Index 12		
(NL = No Liquid Limit, NP = No Plastic Limit)		

Mechanical Sieve				
(ASTM D422)				
Sieve Designation		Percent Passing		
3 in.	76.2	100.0		
2 in.	50.8	100.0		
1.5 in.				
1 in.	1 in. 25.4			
3/4 in.	19.0	83.3		
1/2 in.	12.7	81.6		
3/8 in.	9.51	79.1		
No. 4	4.76	74.2		
No. 10	2.00	69.1		
No. 20	No. 20 0.841			
No. 40	0.420	65.0		
No. 60	0.250	64.2		
No. 100	0.149	63.3		
No. 200 0.074		62.3		

Hydrometer Analysis			
(ASTM	(ASTM D422)		
Particle Size	Percent Passing		
mm	5		

Log-Linear Interpolation		
Particle Size	Percent Passing	
mm	9	
0.005		
0.002		

D _X (mm), Log-Linear Interpolation			
10	30	50	60

Cu	C
	-

USCS Classification (ASTM D2487)		
Gravelly lean clay with sand (CL)		
Moisture Content (%) (ASTM D2216)		
18.9		

Jeffrey A. Kuhn, Ph.D., P.E., 5/25/2018

Laboratory Compaction Characteristics of Soil Using Standard Effort (ASTM D698)

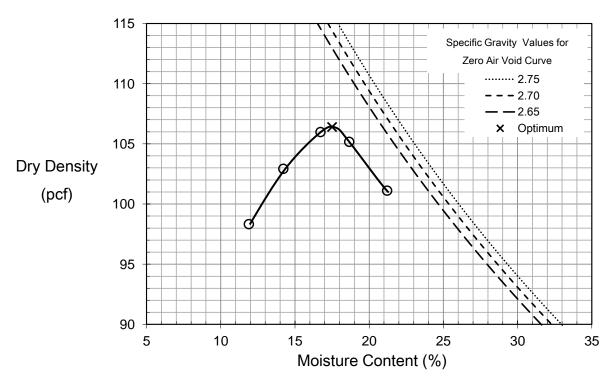
Client: Waste Management Inc TRI Log #: 37747.1

Project: Eco Vista Landfill Cell 12 North

Sample ID: Clay-CS-1

Compaction Effort	-	Standard
Method	-	Α
Rammer Type	-	Automatic
Maximum Dry Density	pcf	106.4
Optimum Water Content	%	17.5

Oversize Particle / "Rock" Correction (ASTM D4718)		
Oversized Particles %		
Maximum Dry Density	pcf	
Optimum Water Content	%	



Jeffrey A. Kuhn, Ph.D, P.E., 5/25/2018

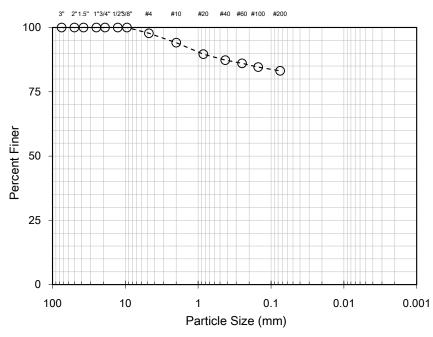
Quality Review / Date

Particle Size, Atterberg Limit, and USCS Analyses for Soils

Client: Waste Management Inc.

Project: Eco Vista Landfill Cell 12 North

Sample ID: PC-CS-2



60	
<u>≘</u> 50	"U" Line
Plasticity Index (PI) 0 0 0 0 0 0	CH or OH
<u>⊆</u> 30	
os ficit	CL or OL MH or OH
<u>명</u> 10	CLIML ML or OL
0	
	0 10 20 30 40 50 60 70 80 90 100 Liquid Limit (LL)

TRI Log #:

38245.3

Atterberg Limits		
(ASTM D4318, Method A : Multipoint, Air Dried)		
Liquid Limit 34		
Plastic Limit 20		
Plastic Index	14	
(NL = No Liquid Limit, NP = No Plastic Limit)		

N	lechanical Siev	/e	
	(ASTM D422)		
Sieve Designation		Percent Passing	
-	mm		
3 in.	76.2	100.0	
2 in.	50.8	100.0	
1.5 in.	38.1	100.0	
1 in.	25.4	100.0	
3/4 in.	19.0	100.0	
1/2 in.	12.7	100.0	
3/8 in.	9.51	100.0	
No. 4	4.76	97.8	
No. 10	2.00	94.1	
No. 20	0.841	89.7	
No. 40	0.420	87.3	
No. 60	0.250	86.1	
No. 100	0.149	84.6	
No. 200	0.074	83.2	

Hydrometer Analysis			
(ASTM	(ASTM D422)		
Particle Size	Percent Passing		
mm	3		

Log-Linear Interpolation		
Percent Passing		

D _X (mm), Log-Linear Interpolation			
10	30	50	60

Cu	C

USCS Classification (ASTM D2487)	
Lean clay with sand (CL)	
Moisture Content (%) (ASTM D2216)	
16.1	

Jeffrey A. Kuhn, Ph.D., P.E., 6/18/2018

Laboratory Compaction Characteristics of Soil Using Standard Effort (ASTM D698)

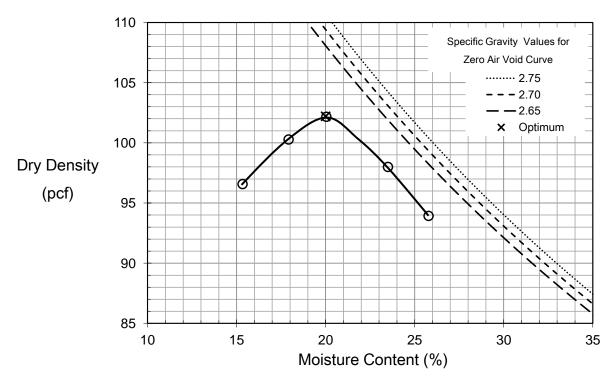
Client: Waste Management Inc. TRI Log #: 38245.3

Project: Eco Vista Landfill Cell 12 North

Sample ID: PC-CS-2

Compaction Effort	-	Standard
Method	-	Α
Rammer Type	-	Automatic
Maximum Dry Density	pcf	102.2
Optimum Water Content	%	20.0

Oversize Particle / "Rock" Correction (ASTM D4718)		
Oversized Particles %		
Maximum Dry Density	pcf	
Optimum Water Content	%	



Jeffrey A. Kuhn, Ph.D, P.E., 6/18/2018

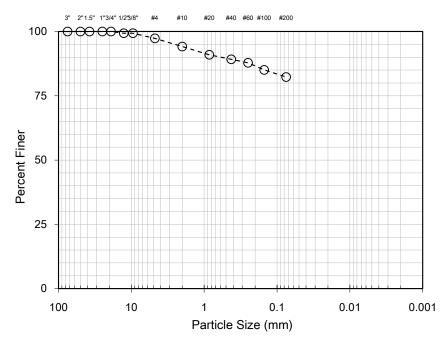
Quality Review / Date

Particle Size, Atterberg Limit, and USCS Analyses for Soils

Client: Waste Management Inc.

Project: Eco Vista Landfill Cell 12 North

Sample ID: P-CS-3



	60	
Ē	50	"U" Line
Plasticity Index (PI)	40	CH or OH
y Inc	30	
sticit	20	CL or QL MH or OH
Plag	10	CLIML ML or OL
	0	
		0 10 20 30 40 50 60 70 80 90 100
		Liquid Limit (LL)

TRI Log #:

38351.11

Atterberg Limits		
(ASTM D4318, Method A : Multipoint, Air Dried)		
Liquid Limit 43		
Plastic Limit 23		
Plastic Index 20		
(NL = No Liquid Limit, NP = No Plastic Limit)		

Mechanical Sieve		
(ASTM D422)		
Sieve Designation		Percent Passing
-	mm	
3 in.	76.2	100.0
2 in.	50.8	100.0
1.5 in.	38.1	100.0
1 in.	25.4	100.0
3/4 in.	19.0	100.0
1/2 in.	12.7	99.4
3/8 in.	9.51	99.4
No. 4	4.76	97.3
No. 10	2.00	94.2
No. 20	0.841	91.0
No. 40	0.420	89.2
No. 60	0.250	87.8
No. 100	0.149	85.1
No. 200 0.074		82.3

Hydrometer Analysis		
(ASTM D422)		
Particle Size	Percent Passing	
mm)	

Log-Linear Interpolation		
Particle Size	Percent Passing	
mm		
0.005		
0.002		
•		

D_X (mm), Log-Linear Interpolation			
10	30	50	60

Cu	C

USCS Classification (ASTM D2487)
Lean clay with sand (CL)
Moisture Content (%) (ASTM D2216)
19.8

Jeffrey A. Kuhn, Ph.D., P.E., 6/18/2018

Laboratory Compaction Characteristics of Soil Using Standard Effort (ASTM D698)

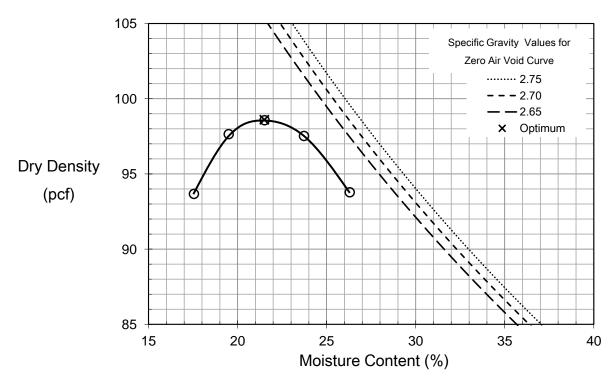
Client: Waste Management Inc. TRI Log #: 38351.11

Project: Eco Vista Landfill Cell 12 North

Sample ID: P-CS-3

Compaction Effort	-	Standard
Method	-	Α
Rammer Type	-	Automatic
Maximum Dry Density	pcf	98.6
Optimum Water Content	%	21.5

Oversize Particle / "Rock" Correction (ASTM D4718)											
Oversized Particles %											
Maximum Dry Density	pcf										
Optimum Water Content %											



Jeffrey A. Kuhn, Ph.D, P.E., 6/18/2018

Quality Review / Date

Eco Vista Class I Landfill North Sedimentation Basin Construction ADEQ Permit No.: ARG160045

ATTACHMENT F Moisture/Density Test Results for Clay Liner & Approximate Location of Field Tests of Clay Liner (Lift 1 & 2)



Client Name: Waste Management of Arkansas Project Number: 18024 Date of Report: 06/12/18

Attn: Mr. David Conrad Test Method: Nuclear

Project Name: North Sedimentation Pond CQA Monitor: Joe Shepperd

Location: Eco Vista Class 1 Landfill CQA Engineer: Bryan W Bailey, P.E.

					Wet	Dry	Lab Max.	%	Reg'd.%	%		Reg'd.%	%	Р		Shelby Tube	
Test		Location		Lift or	Unit Wt.,	Unit Wt.,	Dry Unit Wt.,	Lab Max	Lab Max	Water	OMC	Water	Over	or	RETEST	Permeability	Lab
No.	Date	Northing	Easting	Elev.	pcf	pcf	pcf	Dry Unit Wt.	Dry Unit Wt.	Content		Content	OMC	F	NO.	Test No.	No.
1	5/16/18	666,520	646,028	L-1	128.0	105.1	104.8	100+	≥ 98.0 %	21.8	17.5	OMC + 4%	4.3	Р			BS-1
2	5/16/18	666,440	646,062	L-1	126.6	104.0	104.8	99.3	≥ 98.0 %	21.7	17.5	OMC + 4%	4.2	Р		PL1-ST-1 PL1-BS-1	BS-1
3	5/16/18	666,532	645,923	L-1	126.5	104.1	104.8	99.3	≥ 98.0 %	21.5	17.5	OMC + 4%	4.0	Р			BS-1
4	5/16/18	666,615	645,988	L-1	128.4	105.7	104.8	100+	≥ 98.0 %	21.5	17.5	OMC + 4%	4.0	Р			BS-1
5	5/20/18	666,431	645,881	L-1	128.2	104.3	104.8	99.5	≥ 98.0 %	22.9	17.5	OMC + 4%	5.4	Р		PL-1-BS-2	BS-1
6	5/20/18	666,535	645,835	L-1	128.9	106.8	108.7	98.2	≥ 98.0 %	20.7	16.4	OMC + 4%	4.3	Р			L2CS1
7	5/20/18	666,556	645,734	L-1	127.5	103.1	104.8	98.4	≥ 98.0 %	23.7	17.5	OMC + 4%	6.2	Р		PL-1-ST-2 PL-1-BS-3	BS-1
8	5/20/18	666,493	645,763	L-1	128.0	104.4	104.8	99.6	≥ 98.0 %	22.6	17.5	OMC + 4%	5.1	Р		PL-1-ST-3	BS-1
9	5/20/18	666,491	645,649	L-1	127.5	104.0	104.8	99.2	≥ 98.0 %	22.6	17.5	OMC + 4%	5.1	Р		PL-1-ST-4	BS-1
10	5/27/18	666,424	645,955	L-1	128.7	105.0	104.8	100+	≥ 98.0 %	22.6	17.5	OMC + 4%	5.1	Р			BS-1
11	5/27/18	666,342	645,963	L-1	128.1	105.4	104.8	100+	≥ 98.0 %	21.5	17.5	OMC + 4%	4.0	Р			BS-1
12	5/27/18	666,328	646,053	L-1	127.8	104.6	104.8	99.8	≥ 98.0 %	22.2	17.5	OMC + 4%	4.7	Р		PL-1-ST-5	BS-1
13	5/30/18	666,330	645,037	L-1	123.5	100.2	102.0	98.3	≥ 98.0 %	23.2	19.8	OMC +1%	3.4	Р		PL-1-ST-6	4986
14	5/30/18	666,348	645,142	L-1	125.4	101.3	102.0	99.3	≥ 98.0 %	23.8	19.8	OMC +1%	4.0	Р			4986
15	5/30/18	666,232	645,033	L-1	124.9	101.1	102.0	99.1	≥ 98.0 %	23.6	19.8	OMC +1%	3.8	Р		PL-1-BS-4	4986
16	5/30/18	666,223	645,119	L-1	123.5	100.7	102.0	98.7	≥ 98.0 %	22.7	19.8	OMC +1%	2.9	Р			4986
17	5/30/18	666,315	645,217	L-1	124.5	100.6	102.0	98.6	≥ 98.0 %	23.8	19.8	OMC +1%	4.0	Р		PL-1-ST-7 PL- 1-BS-5	4986



Client Name: Waste Management of Arkansas Project Number: 18024 Date of Report: 06/12/18

Attn: Mr. David Conrad Test Method: Nuclear

Project Name: North Sedimentation Pond CQA Monitor: Joe Shepperd

Location: Eco Vista Class 1 Landfill CQA Engineer: Bryan W Bailey, P.E.

	1 1				I		l	21				5		Г_	1	[a, ,, = ,]	
					Wet	Dry	Lab Max.	%	Req'd.%	%		Req'd.%	%	Р		Shelby Tube	
Test		Loca	ation	Lift or	Unit Wt.,	Unit Wt.,	Dry Unit Wt.,	Lab Max	Lab Max	Water	OMC	Water	Over	or	RETEST	Permeability	Lab
No.	Date	Northing	Easting	Elev.	pcf	pcf	pcf	Dry Unit Wt.	Dry Unit Wt.	Content		Content	OMC	F	NO.	Test No.	No.
18	5/30/18	666,437	645,046	L-1	124.9	100.9	102.0	98.9	≥ 98.0 %	23.8	19.8	OMC +1%	4.0	Р		PL-1-ST-8	4986
19	5/30/18	666,585	645,062	L-1	124.5	100.5	102.0	98.5	≥ 98.0 %	23.9	19.8	OMC +1%	4.1	Р		PL-1-ST-9 PL-1-BS-6	4986
20	5/30/18	666,640	645,119	L-1	124.0	100.2	102.0	98.3	≥ 98.0 %	23.7	19.8	OMC +1%	3.9	Р			4986
21	5/30/18	666,632	645,239	L-1	125.9	100.6	102.0	98.7	≥ 98.0 %	25.1	19.8	OMC +1%	5.3	Р		PL-1-ST-10	4986
22	5/30/18	666,417	645,220	L-1	125.6	101.9	102.0	99.9	≥ 98.0 %	23.2	19.8	OMC +1%	3.4	Р			4986
23	5/30/18	666,464	645,140	L-1	125.5	101.5	102.0	99.5	≥ 98.0 %	23.7	19.8	OMC +1%	3.9	Р			4986
24	5/30/18	666,550	645,155	L-1	123.8	100.1	102.0	98.1	≥ 98.0 %	23.7	19.8	OMC +1%	3.9	Р			4986
25	5/30/18	666,559	645,269	L-1	123.6	100.2	102.0	98.3	≥ 98.0 %	23.3	19.8	OMC +1%	3.5	Р			4986
26	5/30/18	666,528	645,353	L-1	123.7	100.7	102.0	98.7	≥ 98.0 %	22.9	19.8	OMC +1%	3.1	Р			4986
27	5/30/18	666,444	645,360	L-1	124.0	100.9	102.0	98.9	≥ 98.0 %	22.9	19.8	OMC +1%	3.1	Р			4986
28	5/30/18	666,473	645,461	L-1	126.3	103.2	104.8	98.5	≥ 98.0 %	22.4	17.5	OMC + 4%	4.9	Р			BS-1
29	5/31/18	666,530	645,430	L-1	126.4	104.0	104.8	99.3	≥ 98.0 %	21.5	17.5	OMC + 4%	4.0	Р			BS-1
30	5/31/18	666,531	645,548	L-1	126.2	103.9	104.8	99.1	≥ 98.0 %	21.5	17.5	OMC + 4%	4.0	Р			BS-1
31	5/31/18	666,481	645,557	L-1	126.7	103.3	104.8	98.6	≥ 98.0 %	22.6	17.5	OMC + 4%	5.1	Р			BS-1
32	5/31/18	666,618	645,521	L-1	126.3	103.4	104.8	98.6	≥ 98.0 %	22.2	17.5	OMC + 4%	4.7	Р			BS-1
33	5/31/18	666,623	645,622	L-1	126.2	103.0	104.8	98.3	≥ 98.0 %	22.5	17.5	OMC + 4%	5.0	Р			BS-1



Client Name: Waste Management of Arkansas Project Number: 18024 Date of Report: 06/12/18

Attn: Mr. David Conrad Test Method: Nuclear

Project Name: North Sedimentation Pond CQA Monitor: Joe Shepperd

Location: Eco Vista Class 1 Landfill CQA Engineer: Bryan W Bailey, P.E.

					Wet	Dry	Lab Max.	%	Req'd.%	%		Req'd.%	%	Р		Shelby Tube	
Test		Loca	ation	Lift or	Unit Wt.,	Unit Wt.,	Dry Unit Wt.,	Lab Max	Lab Max	Water	OMC	Water	Over	or	RETEST	Permeability	Lab
No.	Date	Northing	Easting	Elev.	pcf	pcf	pcf	Dry Unit Wt.	Dry Unit Wt.	Content		Content	OMC	F	NO.	Test No.	No.
1	6/6/18	666,360	646,127	L-2	126.4	104.6	102.0	100+	≥ 98.0 %	20.8	19.8	OMC + 1%	1.0	Р			4986
2	6/6/18	666,458	646,145	L-2	126.0	102.6	102.0	100+	≥ 98.0 %	22.8	19.8	OMC +1%	3.0	Р			4986
3	6/6/18	666,557	646,041	L-2	124.8	103.3	102.0	100+	≥ 98.0 %	20.8	19.8	OMC +1%	1.0	Р			4986
4	6/7/18	666,429	646,017	L-2	125.0	102.5	102.0	100+	≥ 98.0 %	21.9	19.8	OMC +1%	2.1	Р			4986
5	6/7/18	666,478	645,919	L-2	125.1	102.0	102.0	100+	≥ 98.0 %	22.6	19.8	OMC +1%	2.8	Р		PL-2-ST-1 PL- 2-BS-1	4986
6	6/7/18	666,611	645,948	L-2	124.1	100.8	102.0	98.8	≥ 98.0 %	23.1	19.8	OMC +1%	3.3	Р			4986
7	6/7/18	666,615	645,822	L-2	124.7	101.1	102.0	99.1	≥ 98.0 %	23.4	19.8	OMC +1%	3.6	Р			4986
8	6/7/18	666,341	645,985	L-2	124.5	101.3	102.0	99.3	≥ 98.0 %	22.9	19.8	OMC +1%	3.1	Р			4986
9	6/7/18	666,619	645,709	L-2	123.2	100.7	102.0	98.8	≥ 98.0 %	22.3	19.8	OMC +1%	2.5	Р			4986
10	6/7/18	666,564	645,854	L-2	122.4	101.0	102.0	99.0	≥ 98.0 %	21.2	19.8	OMC +1%	1.4	Р			4986
11	6/7/18	666,447	645,812	L-2	122.7	101.6	102.0	99.6	≥ 98.0 %	20.8	19.8	OMC +1%	1.0	Р			4986
12	6/7/18	666,341	645,870	L-2	124.8	100.7	102.0	98.8	≥ 98.0 %	23.9	19.8	OMC +1%	4.1	Р			4986
13	6/7/18	666,439	645,717	L-2	125.0	102.1	102.0	100+	≥ 98.0 %	22.4	19.8	OMC +1%	2.6	Р		PL-2-ST-2 PL- 2-BS-2	4986
14	6/7/18	666,486	645,714	L-2	125.5	102.4	102.0	100+	≥ 98.0 %	22.6	19.8	OMC +1%	2.8	Р			4986
15	6/7/18	666,538	645,760	L-2	125.2	102.3	102.0	100+	≥ 98.0 %	22.4	19.8	OMC +1%	2.6	Р			4986
16	6/7/18	666,449	645,624	L-2	125.5	103.4	102.0	100+	≥ 98.0 %	21.4	19.8	OMC +1%	1.6	Р			4986
17	6/7/18	666,535	645,626	L-2	124.9	102.5	102.0	100+	≥ 98.0 %	21.8	19.8	OMC +1%	2.0	Р			4986



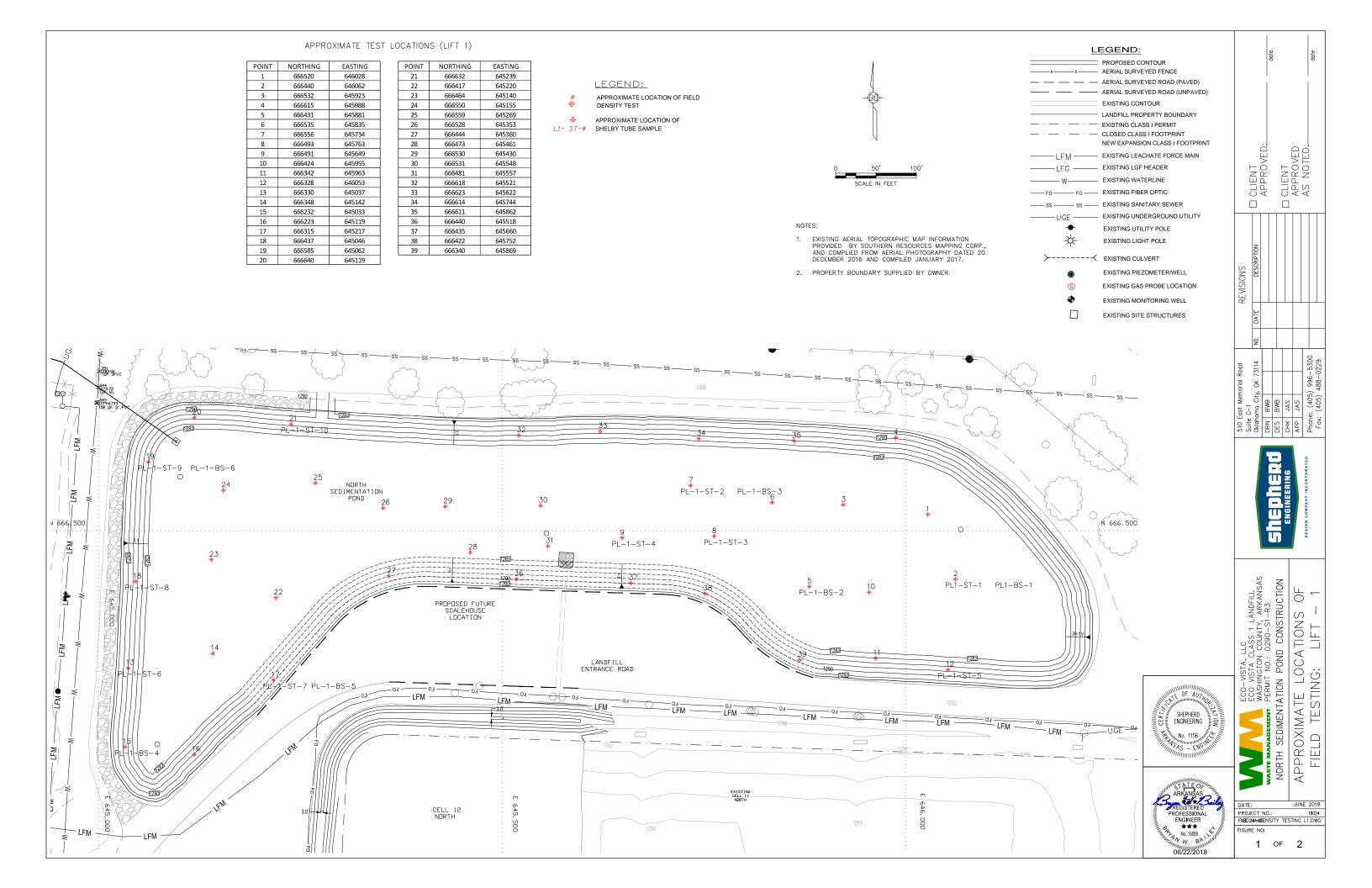
Client Name: Waste Management of Arkansas Project Number: 18024 Date of Report: 06/12/18

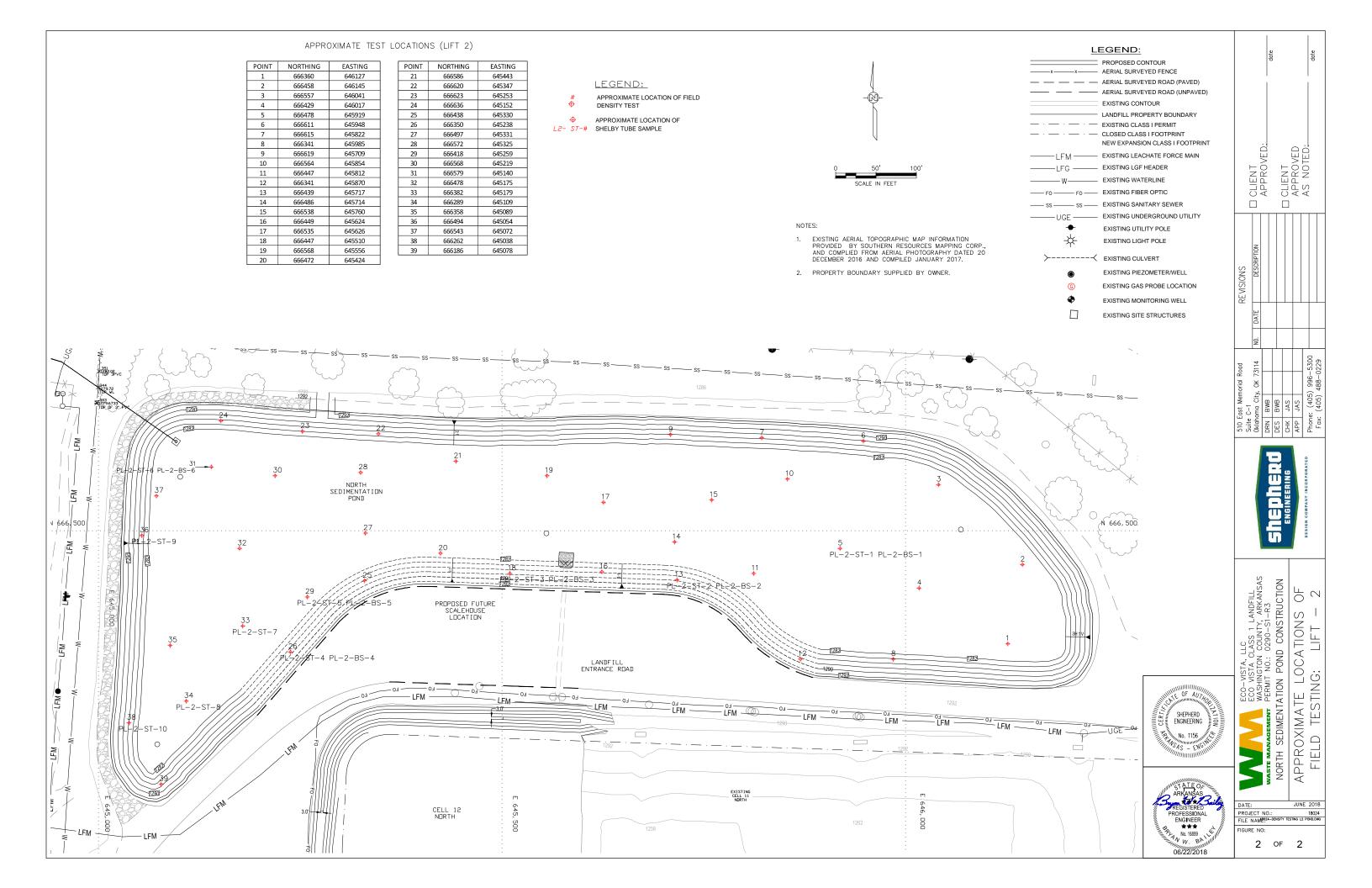
Attn: Mr. David Conrad Test Method: Nuclear

Project Name: North Sedimentation Pond CQA Monitor: Joe Shepperd

Location: Eco Vista Class 1 Landfill CQA Engineer: Bryan W Bailey, P.E.

					Wet	Dry	Lab Max.	%	Req'd.%	%		Req'd.%	%	Р		Shelby Tube	
Test		Location		Lift or	Unit Wt.,	Unit Wt.,	Dry Unit Wt.,	Lab Max	Lab Max	Water	OMC	Water	Over	or	RETEST	Permeability	Lab
No.	Date	Northing	Easting	Elev.	pcf	pcf	pcf	Dry Unit Wt.	Dry Unit Wt.	Content		Content	OMC	F	NO.	Test No.	No.
18	6/8/18	666,447	645,510	L-2	125.6	103.6	102.0	100+	≥ 98.0 %	21.2	19.8	OMC +1%	1.4	Р		PL-2-ST-3 PL- 2-BS-3	4986
19	6/8/18	666,568	645,556	L-2	125.4	103.0	102.0	100+	≥ 98.0 %	21.8	19.8	OMC +1%	2.0	Р			4986
20	6/8/18	666,472	645,424	L-2	125.8	102.4	102.0	100+	≥ 98.0 %	22.8	19.8	OMC +1%	3.0	Р			4986
21	6/8/18	666,586	645,443	L-2	122.6	101.5	102.0	99.5	≥ 98.0 %	20.8	19.8	OMC +1%	1.0	Р			4986
22	6/9/18	666,620	645,347	L-2	123.9	100.4	102.0	98.4	≥ 98.0 %	23.4	19.8	OMC +1%	3.6	Р			4986
23	6/9/18	666,623	645,253	L-2	124.4	101.7	102.0	99.7	≥ 98.0 %	22.3	19.8	OMC +1%	2.5	Р			4986
24	6/9/18	666,636	645,152	L-2	124.1	100.6	102.0	98.6	≥ 98.0 %	23.4	19.8	OMC +1%	3.6	Р			4986
25	6/9/18	666,438	645,330	L-2	123.5	101.2	102.0	99.2	≥ 98.0 %	22.0	19.8	OMC +1%	2.2	Р			4986
26	6/9/18	666,350	645,238	L-2	123.6	101.5	102.0	99.5	≥ 98.0 %	21.8	19.8	OMC +1%	2.0	Р		PL-2-ST-4 PL- 2-BS-4	4986
27	6/9/18	666,497	645,331	L-2	128.1	106.0	102.0	100+	≥ 98.0 %	20.9	19.8	OMC +1%	1.1	Р			4986
28	6/9/18	666,572	645,325	L-2	127.5	105.3	102.0	100+	≥ 98.0 %	21.1	19.8	OMC +1%	1.3	Р			4986
29	6/9/18	666,418	645,259	L-2	125.7	102.4	102.0	100+	≥ 98.0 %	22.7	19.8	OMC +1%	2.9	Р		PL-2-ST-5 PL- 2-BS-5	4986
30	6/9/18	666,568	645,219	L-2	126.7	104.1	102.0	100+	≥ 98.0 %	21.7	19.8	OMC +1%	1.9	Р			4986
31	6/9/18	666,579	645,140	L-2	126.5	104.2	102.0	100+	≥ 98.0 %	21.4	19.8	OMC +1%	1.6	Р		PL-2-ST-6 PL- 2-BS-6	4986
32	6/9/18	666,478	645,175	L-2	127.3	104.9	102.0	100+	≥ 98.0 %	21.3	19.8	OMC +1%	1.5	Р			4986
33	6/9/18	666,382	645,179	L-2	127.1	104.5	102.0	100+	≥ 98.0 %	21.6	19.8	OMC +1%	1.8	Р		PL-2-ST-7	4986





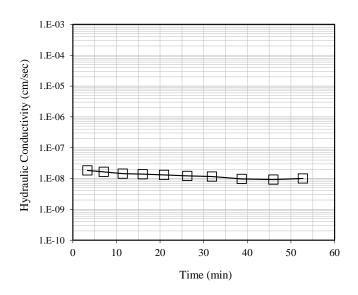
Eco Vista Class I Landfill North Sedimentation Basin Construction ADEQ Permit No.: ARG160045

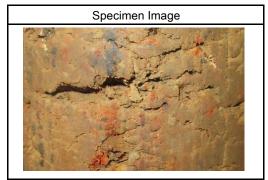
ATTACHMENT G In-Situ Permeability Testing

Client: Waste Management, Inc.

Project: Eco Vista Landfill Cell 12 North

Sample ID: PL1-ST-1





TRI Log #: 37698.1
Test Method: ASTM D5084
Method F

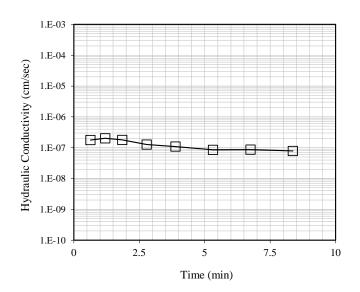
Initial Values	
IIIllai values	Ť
Sample Condition	Undisturbed
Diameter (in)	2.84
Height (in)	2.35
Initial Mass (g)	464.1
Sample Area (in ²)	6.33
Water Content (%)	23.5
Total Unit Weight (pcf)	118.9
Dry Unit Weight (pcf)	96.3
Specific Gravity (Assumed)	2.73
Degree of Saturation	83.3
Void Ratio	0.77
Porosity	0.43
1 Pore Volume (cc)	105.9
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.97

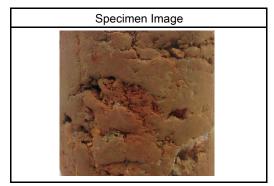
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
31.9	1.2E-08
38.7	9.7E-09
46.0	9.3E-09
52.7	1.0E-08
Average, Last 2 Readings	9.6E-09

Jeffrey A. Kuhn, Ph.D., P.E., 5/21/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-1-ST-2





TRI Log #: 37856.3

Test Method: ASTM D5084

Method F

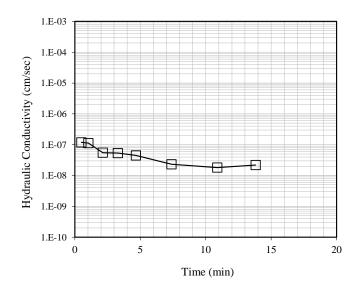
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.85
Height (in)	2.97
Initial Mass (g)	591.2
Sample Area (in ²)	6.40
Water Content (%)	20.4
Total Unit Weight (pcf)	118.4
Dry Unit Weight (pcf)	98.4
Specific Gravity (Assumed)	2.73
Degree of Saturation	76.1
Void Ratio	0.73
Porosity	0.42
1 Pore Volume (cc)	131.6
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.98

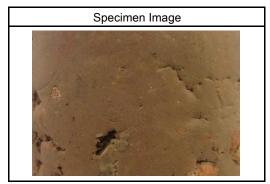
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
3.9	1.1E-07
5.3	8.5E-08
6.8	8.7E-08
8.4	7.8E-08
Average, Last 2 Readings	8.2E-08

Jeffrey A. Kuhn, Ph.D., P.E., 5/26/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-1-ST-3





TRI Log #: 37856.4

Test Method: ASTM D5084

Method F

Methodi	
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.74
Height (in)	2.14
Initial Mass (g)	408.8
Sample Area (in ²)	5.88
Water Content (%)	20.8
Total Unit Weight (pcf)	123.9
Dry Unit Weight (pcf)	102.6
Specific Gravity (Assumed)	2.73
Degree of Saturation	85.8
Void Ratio	0.66
Porosity	0.40
1 Pore Volume (cc)	81.9
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.97

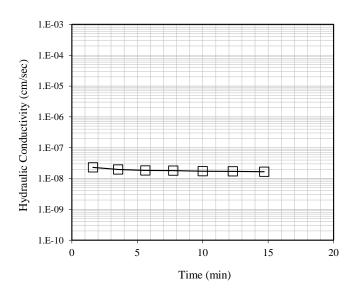
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
4.7	4.5E-08
7.4	2.3E-08
10.9	1.8E-08
13.8	2.2E-08
Average, Last 2 Readings	2.0E-08

Jeffrey A. Kuhn, Ph.D., P.E., 5/26/2018

Client: Waste Mangement, Inc.

Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-1-ST-4





TRI Log #: 37856.5

Test Method: ASTM D5084

Method F

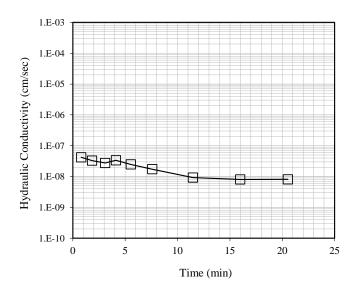
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.73
Height (in)	1.34
Initial Mass (g)	244.3
Sample Area (in ²)	5.86
Water Content (%)	19.7
Total Unit Weight (pcf)	118.3
Dry Unit Weight (pcf)	98.9
Specific Gravity (Assumed)	2.73
Degree of Saturation	74.3
Void Ratio	0.72
Porosity	0.42
1 Pore Volume (cc)	54.1
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.98

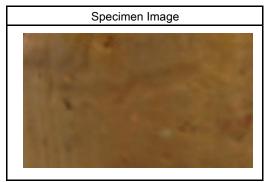
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
7.8	1.8E-08
10.0	1.7E-08
12.3	1.7E-08
14.7	1.7E-08
Average, Last 2 Readings	1.7E-08

Jeffrey A. Kuhn, Ph.D., P.E., 5/26/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL1-ST-5





TRI Log #: 38015.1

Test Method: ASTM D5084

Method F

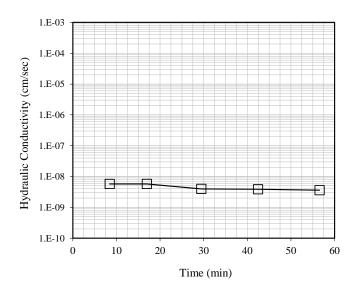
Modificati	
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.85
Height (in)	1.26
Initial Mass (g)	258.3
Sample Area (in ²)	6.36
Water Content (%)	17.9
Total Unit Weight (pcf)	123.0
Dry Unit Weight (pcf)	104.3
Specific Gravity (Assumed)	2.73
Degree of Saturation	77.2
Void Ratio	0.63
Porosity	0.39
1 Pore Volume (cc)	50.8
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.98

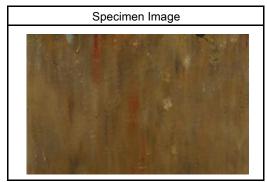
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
7.6	1.7E-08
11.5	9.2E-09
16.0	8.0E-09
20.5	8.1E-09
Average, Last 2 Readings	8.1E-09

Jeffrey A. Kuhn, Ph.D., P.E., 6/4/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-1-ST-6





TRI Log #: 38165.1

Test Method: ASTM D5084

Method F

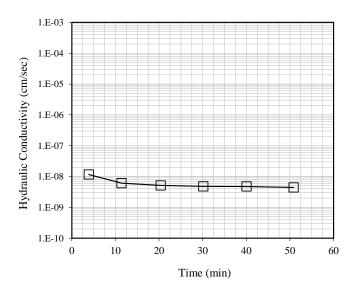
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.84
Height (in)	1.86
Initial Mass (g)	388.2
Sample Area (in ²)	6.32
Water Content (%)	23.5
Total Unit Weight (pcf)	125.5
Dry Unit Weight (pcf)	101.6
Specific Gravity (Assumed)	2.73
Degree of Saturation	94.7
Void Ratio	0.68
Porosity	0.40
1 Pore Volume (cc)	77.9
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.95

Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
17.0	5.8E-09
29.5	4.0E-09
42.5	3.9E-09
56.6	3.6E-09
Average, Last 2 Readings	3.7E-09

Jeffrey A. Kuhn, Ph.D., P.E., 6/6/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-1-ST-7





TRI Log #: 38165.2

Test Method: ASTM D5084

Method F

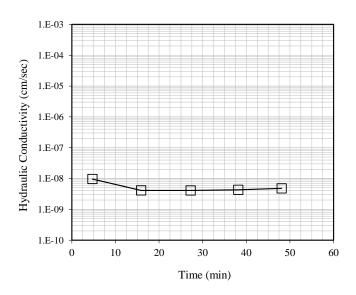
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.84
Height (in)	1.74
Initial Mass (g)	360.6
Sample Area (in ²)	6.32
Water Content (%)	23.2
Total Unit Weight (pcf)	125.0
Dry Unit Weight (pcf)	101.5
Specific Gravity (Assumed)	2.73
Degree of Saturation	93.3
Void Ratio	0.68
Porosity	0.40
1 Pore Volume (cc)	72.7
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.94

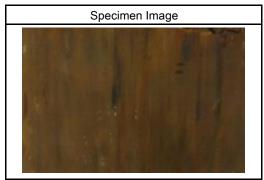
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
20.4	5.1E-09
30.1	4.8E-09
40.0	4.8E-09
50.8	4.4E-09
Average, Last 2 Readings	4.6E-09

Jeffrey A. Kuhn, Ph.D., P.E., 6/6/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-1-ST-8





TRI Log #: 38165.3

Test Method: ASTM D5084

Method F

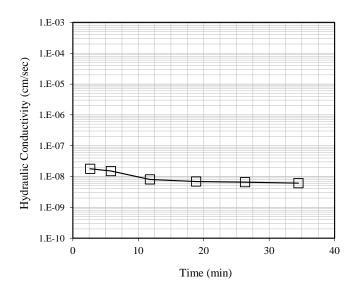
1.20.137.1	
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.85
Height (in)	1.77
Initial Mass (g)	372.9
Sample Area (in ²)	6.36
Water Content (%)	23.8
Total Unit Weight (pcf)	126.4
Dry Unit Weight (pcf)	102.1
Specific Gravity (Assumed)	2.73
Degree of Saturation	97.4
Void Ratio	0.67
Porosity	0.40
1 Pore Volume (cc)	73.7
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.97

Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
15.9	4.1E-09
27.2	4.1E-09
38.2	4.3E-09
48.1	4.8E-09
Average, Last 2 Readings	4.5E-09

Jeffrey A. Kuhn, Ph.D., P.E., 6/7/2018

Client: Waste Management, Inc.
Project: EcoVista Landfill Cell 12 North

Sample ID: PL-1-ST-9





TRI Log #: 38165.4

Test Method: ASTM D5084

Method F

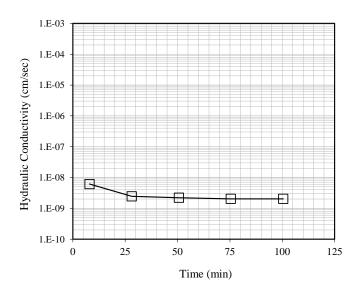
Wiethean	
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.88
Height (in)	1.87
Initial Mass (g)	388.4
Sample Area (in ²)	6.52
Water Content (%)	24.7
Total Unit Weight (pcf)	121.1
Dry Unit Weight (pcf)	97.1
Specific Gravity (Assumed)	2.73
Degree of Saturation	89.5
Void Ratio	0.75
Porosity	0.43
1 Pore Volume (cc)	86.0
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.97

Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
11.8	8.1E-09
18.8	6.9E-09
26.3	6.6E-09
34.5	6.1E-09
Average, Last 2 Readings	6.3E-09

Jeffrey A. Kuhn, Ph.D., P.E., 6/7/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-1-ST-10





TRI Log #: 38165.5

Test Method: ASTM D5084

Method F

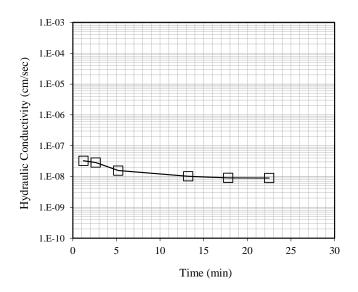
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.85
Height (in)	1.89
Initial Mass (g)	399.0
Sample Area (in ²)	6.36
Water Content (%)	23.9
Total Unit Weight (pcf)	126.4
Dry Unit Weight (pcf)	102.1
Specific Gravity (Assumed)	2.73
Degree of Saturation	97.3
Void Ratio	0.67
Porosity	0.40
1 Pore Volume (cc)	79.0
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.97

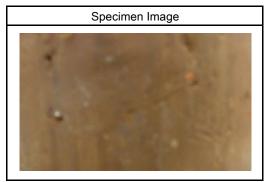
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
28.1	2.5E-09
50.7	2.2E-09
75.4	2.0E-09
100.5	2.0E-09
Average, Last 2 Readings	2.0E-09

Jeffrey A. Kuhn, Ph.D., P.E., 6/6/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-2-ST-1





TRI Log #: 38316.1

Test Method: ASTM D5084

Method F

Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.90
Height (in)	1.58
Initial Mass (g)	314.5
Sample Area (in ²)	6.62
Water Content (%)	17.0
Total Unit Weight (pcf)	114.6
Dry Unit Weight (pcf)	98.0
Specific Gravity (Assumed)	2.73
Degree of Saturation	62.9
Void Ratio	0.74
Porosity	0.43
1 Pore Volume (cc)	72.8
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.97

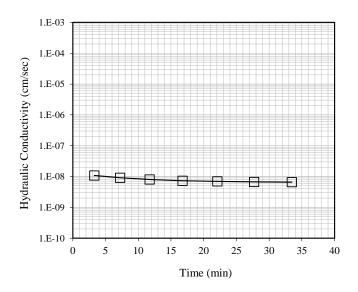
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
5.2	1.6E-08
13.2	1.0E-08
17.8	9.1E-09
22.5	9.0E-09
Average, Last 2 Readings	9.0E-09

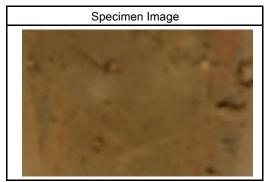
Jeffrey A. Kuhn, Ph.D., P.E., 6/13/2018

Client: Waste Management, Inc.

Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-2-ST-2





TRI Log #: 38316.2

Test Method: ASTM D5084

Method F

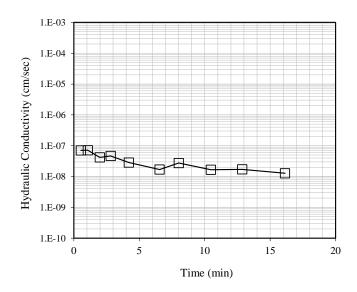
Modificati	
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.89
Height (in)	1.41
Initial Mass (g)	300.9
Sample Area (in ²)	6.55
Water Content (%)	16.6
Total Unit Weight (pcf)	123.9
Dry Unit Weight (pcf)	106.3
Specific Gravity (Assumed)	2.73
Degree of Saturation	75.0
Void Ratio	0.60
Porosity	0.38
1 Pore Volume (cc)	57.0
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.96

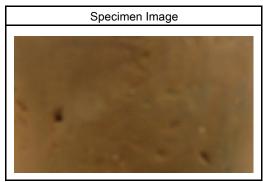
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
16.8	7.3E-09
22.1	7.0E-09
27.7	6.7E-09
33.5	6.6E-09
Average, Last 2 Readings	6.6E-09

Jeffrey A. Kuhn, Ph.D., P.E., 6/18/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-2-ST-3





TRI Log #: 38316.3

Test Method: ASTM D5084

Method F

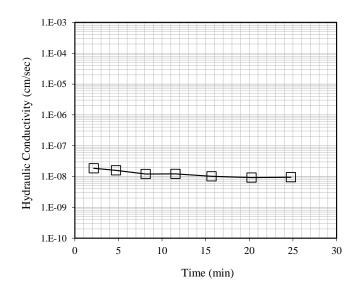
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.85
Height (in)	1.46
Initial Mass (g)	309.7
Sample Area (in ²)	6.38
Water Content (%)	19.3
Total Unit Weight (pcf)	126.9
Dry Unit Weight (pcf)	106.4
Specific Gravity (Assumed)	2.73
Degree of Saturation	87.6
Void Ratio	0.60
Porosity	0.38
1 Pore Volume (cc)	57.1
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.97

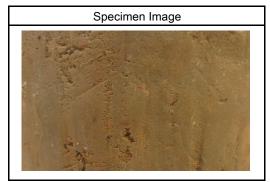
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
8.0	2.7E-08
10.5	1.7E-08
12.9	1.7E-08
16.1	1.3E-08
Average, Last 2 Readings	1.5E-08

Jeffrey A. Kuhn, Ph.D., P.E., 6/18/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-2-ST-4





TRI Log #: 38351.1

Test Method: ASTM D5084

Method F

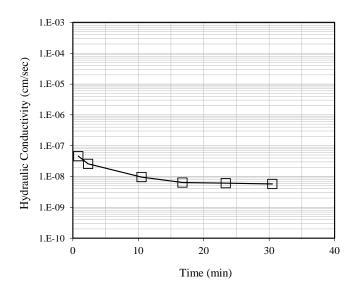
IVIOUIOU I	
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.84
Height (in)	1.55
Initial Mass (g)	321.1
Sample Area (in ²)	6.35
Water Content (%)	21.3
Total Unit Weight (pcf)	124.5
Dry Unit Weight (pcf)	102.6
Specific Gravity (Assumed)	2.73
Degree of Saturation	88.1
Void Ratio	0.66
Porosity	0.40
1 Pore Volume (cc)	64.0
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.98

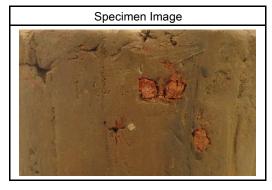
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
11.5	1.2E-08
15.7	1.0E-08
20.3	9.3E-09
24.8	9.5E-09
Average, Last 2 Readings	9.4E-09

Jeffrey A. Kuhn, Ph.D., P.E., 6/13/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-2-ST-5





TRI Log #: 38351.2

Test Method: ASTM D5084

Method F

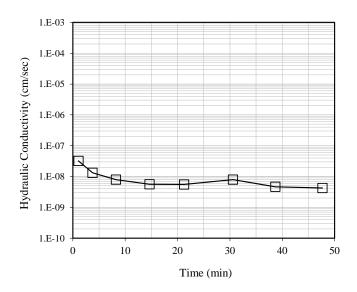
Wictiodi	
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.86
Height (in)	1.50
Initial Mass (g)	302.7
Sample Area (in ²)	6.44
Water Content (%)	16.6
Total Unit Weight (pcf)	118.9
Dry Unit Weight (pcf)	102.0
Specific Gravity (Assumed)	2.73
Degree of Saturation	67.6
Void Ratio	0.67
Porosity	0.40
1 Pore Volume (cc)	63.7
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.97

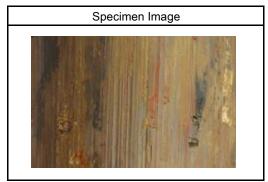
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
10.5	9.6E-09
16.8	6.4E-09
23.4	6.1E-09
30.5	5.7E-09
Average, Last 2 Readings	5.9E-09

Jeffrey A. Kuhn, Ph.D., P.E., 6/18/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-2-ST-6





TRI Log #: 38351.3

Test Method: ASTM D5084

Method F

Methodi	
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.80
Height (in)	1.30
Initial Mass (g)	255.3
Sample Area (in ²)	6.16
Water Content (%)	20.9
Total Unit Weight (pcf)	121.4
Dry Unit Weight (pcf)	100.5
Specific Gravity (Assumed)	2.73
Degree of Saturation	81.9
Void Ratio	0.70
Porosity	0.41
1 Pore Volume (cc)	53.8
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.97

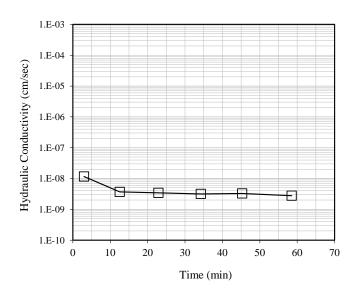
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
21.3	5.5E-09
30.6	7.9E-09
38.7	4.7E-09
47.7	4.2E-09
Average, Last 2 Readings	4.4E-09

Jeffrey A. Kuhn, Ph.D., P.E., 6/18/2018

Client: Waste Management, Inc.

Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-2-ST-7





TRI Log #: 38351.4

Test Method: ASTM D5084

Method F

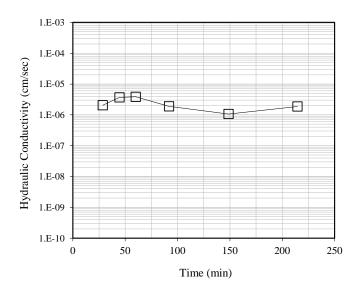
Wictiod	
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.84
Height (in)	1.33
Initial Mass (g)	270.1
Sample Area (in ²)	6.32
Water Content (%)	22.1
Total Unit Weight (pcf)	122.0
Dry Unit Weight (pcf)	99.9
Specific Gravity (Assumed)	2.73
Degree of Saturation	85.5
Void Ratio	0.70
Porosity	0.41
1 Pore Volume (cc)	57.1
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.97

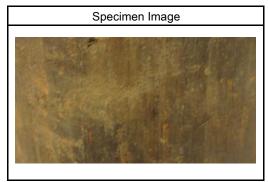
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
22.9	3.4E-09
34.2	3.2E-09
45.3	3.3E-09
58.5	2.8E-09
Average, Last 2 Readings	3.0E-09

Jeffrey A. Kuhn, Ph.D., P.E., 6/13/2018 Analysis & Quality Review/Date

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-2-ST-8





TRI Log #: 38351.5

Test Method: ASTM D5084

Method C

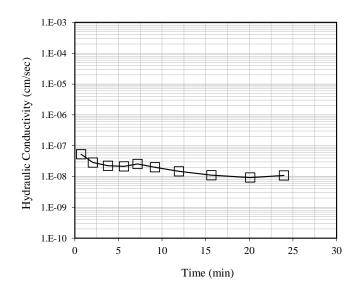
Wicthod O	
Initial Values	
Sample Condition	Undisturbed
Diameter (in)	2.85
Height (in)	1.25
Initial Mass (g)	247.6
Sample Area (in ²)	6.37
Water Content (%)	16.6
Total Unit Weight (pcf)	118.5
Dry Unit Weight (pcf)	101.6
Specific Gravity (Assumed)	2.73
Degree of Saturation	67.0
Void Ratio	0.68
Porosity	0.40
1 Pore Volume (cc)	52.6
Eff. Confining Stress (psi)	15.0
B-Value Prior to Permeation	0.97

Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
60.1	3.9E-06
91.9	1.9E-06
148.7	1.1E-06
214.6	1.9E-06
Average, Last 4 Readings	2.2E-06

Jeffrey A. Kuhn, Ph.D., P.E., 6/18/2018

Client: Waste Management, Inc.
Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-2-ST-9





TRI Log #: 38351.6

Test Method: ASTM D5084

Method F

Initial Values							
Sample Condition	Undisturbed						
Diameter (in)	2.85						
Height (in)	1.47						
Initial Mass (g)	288.2						
Sample Area (in ²)	6.36						
Water Content (%)	20.1						
Total Unit Weight (pcf)	117.0						
Dry Unit Weight (pcf)	97.4						
Specific Gravity (Assumed)	2.73						
Degree of Saturation	73.4						
Void Ratio	0.75						
Porosity	0.43						
1 Pore Volume (cc)	65.8						
Eff. Confining Stress (psi)	15.0						
B-Value Prior to Permeation	0.96						

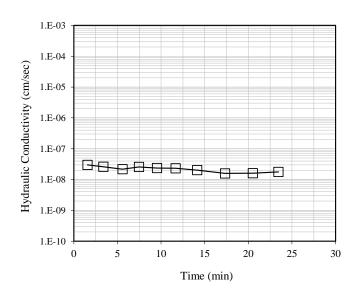
Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
11.9	1.5E-08
15.7	1.1E-08
20.1	9.3E-09
24.0	1.1E-08
Average, Last 2 Readings	1.0E-08

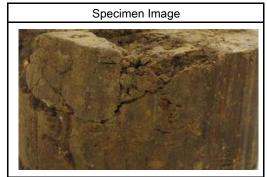
Jeffrey A. Kuhn, Ph.D., P.E., 6/18/2018

Client: Waste Management, Inc.

Project: Eco Vista Landfill Cell 12 North

Sample ID: PL-2-ST-10





TRI Log #: 38351.7

Test Method: ASTM D5084

Method F

Wicthod						
Initial Values						
Sample Condition	Undisturbed					
Diameter (in)	2.84					
Height (in)	1.80					
Initial Mass (g)	359.3					
Sample Area (in ²)	6.31					
Water Content (%)	18.2					
Total Unit Weight (pcf)	120.3					
Dry Unit Weight (pcf)	101.8					
Specific Gravity (Assumed)	2.73					
Degree of Saturation	73.7					
Void Ratio	0.67					
Porosity	0.40					
1 Pore Volume (cc)	75.1					
Eff. Confining Stress (psi)	15.0					
B-Value Prior to Permeation	0.98					

Time	Hydraulic Conductivity, K at 20° C
Min	cm/s
14.1	2.0E-08
17.3	1.6E-08
20.5	1.6E-08
23.5	1.8E-08
Average, Last 2 Readings	1.7E-08

Jeffrey A. Kuhn, Ph.D., P.E., 6/18/2018

Eco Vista, LLC. SEDCo

Eco Vista Class I Landfill North Sedimentation Basin Construction ADEQ Permit No.: ARG160045

ATTACHMENT H Construction Photographs



Photo 1 – Watering and Placing Clay liner in Sedimentation Pond



Photo 2 – Density Testing Clay Liner



Photo 3 – Principle Spillway: 36" Riser Pipe



Photo 4 – Principle Spillway connected to discharge pipe





Photo 5 – Principle Spillway



Photo 6 – Principle Spillway: 36" riser with trash rack



Photo 7 – Emergency Spillway with Riprap lining



Photo 8 – Outfall Pipe with RipRap apron



Photo 9 – Outfall 12" pipe with outlet riprap apron



Photo 10 – Sedimentation Pond Markers

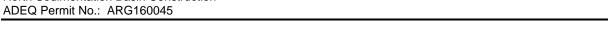




Photo 11 – Sedimentation Basin Inlet: Dual 42" CMP with RipRap Apron



Photo 12 – Placing and compacting Scalehouse pad

Eco Vista, LLC. SEDCo

Eco Vista Class I Landfill North Sedimentation Basin Construction ADEQ Permit No.: ARG160045

ATTACHMENT I CQA Technician Daily Reports

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PROJECT:	Cell 12 North					Arch 26,2018	
PROJECT NO.:	18024				DAY: s	M T W T	F S
CLIENT:	Waste Mar	agement of Ark	arısas - Eco V	ista Landfill	WEATHER: 40°	- 62° Cloudy	L
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Sample No.	Lift No.	Northing	<u>Easting</u>	Sample Date	Ship Date	Tracking Italiaci	1 44
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		Dally Soil	.s const	RUCTION REF	PORT	
PROJECT:	Cell 12 No	orth	wati kuman kanan ation m		DATE: A	nil 2, 2018
PROJECT NO.:	18024				DAY:	M T W T F S
CLIENT:	Waste Ma	nagement of Ark	ansas - Eco V	/ista Landfill	WEATHER: 350-	60° Sunny
CONTRACTOR:	CEG Cons	struction	13			Lowbumielty
REPORT BY:	Joest	CPPON II	91K 422K 12 SPRING WARF OF BEST 11 L SECO	TIME ARRIVED:	02:00	TIME DEPARTED: 06:00
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		Jaily soil	_s const	RUCTION REP	ORT		
PROJECT:	Cell 12 No)TTO	CAR ICITATION AND MINISTRAL		DATE: A	pril 3,2018	***
PROJECT NO.:	18024	Re Engerment	***************************************		DAY: S	M T W T F S	-
CLIENT:	Waste Ma	nagement of Ark	kansas - Eco \	/ista Landfill		30 Andly Cloudy	
CONTRACTOR:	CEG Cons					ph Low/mul humidity	
REPORT BY:	Joe S	happal	。 	TIME ARRIVED:	07:00	TIME DEPARTED: 19:00	
NUMBER WOR	RKING	LISTEQU	UIPMENT	T	GENERAL N	NOTES	
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VISITORS TIME	T	NAME	REP	RESENTING	ſ `	REMARKS	
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Ma.	, /	7/		04-03-18 DATE 4/10/2018		ENGINEERING	
// //	REVIEWED BY		•	DATE		DESIGN COMPANY INCORPORATED	

		Daily soil	S CONST	RUCTION REP	PORT	
PROJECT:	Cell 12 No	rth	DATE: A	oril 4,2018		
PROJECT NO.:	18024				DAY: s	M T W T F S
CLIENT:		nagement of Ark	ansas - Eco V	ista Landfill		-50° Frais /Sunny
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REPORT BY:	Joseph	Shepped D	C.M. 1 1/4 65 1 1 3 (10 3 (10 10 10 10 10 10 10 10 10 10 10 10 10 1	TIME ARRIVED:	07.00	DEPARTED: 19:00
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VISITORS TIME		NAME	1020	RESENTING		REMARKS
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SAMPLES SENT T	OLABORA.	TORY.			<u></u>	
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v G	A ISOMNICIAN	•		04/04/2018 DATE 4/10/2018		ENGINEERING
//m	~/ˈsui	1		4/10/2018		DESIGN COMPANY INCORPORATED
- funcional formands	REVIEWED BY	t.		DATE		

DESCRIPTION COMPARED BY EXCEPTION FOR RESIDENCE AND A SECOND OF

		Daily soil	s const	RUCTION REI	PORT		
PROJECT:	Cell 12 No	L[]J	1907年末於郑江湖的88年江、東心東海馬特別北海山		DATE: A	nil 5.2018	Account 10
PROJECT NO .:	18024				DAY:	M T W TX F	S
CLIENT:	Waste Ma	nagement of Arl	kansas - Eco V	ista Landfill	WEATHER: 335		
CONTRACTOR:	CEG Cons						
REPORT BY:	Joe SI	rappa D		TIME ARRIVED	07.00	TIME DEPARTED: 19:00	
NUMBER WOF	RKING	LISTEQ	UIPINENT	T	GENERAL I	NOTES	
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e a la l	1-Dump		-1.00.03-30-4-30-4-30-4-30-4-30-4-30-4-30-				
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VISITORS TIME	No statement and statement and a statement and	NAME	BED	RESENTING	T	REMARKS	
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AND COLUMN ASSAULT FRANCIS OF THE PROPERTY OF							
FIELD PROBLEMS	WHICH CC	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLAII	\		
		· ·	<u> </u>				
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SAMPLES SENT T	O LABORA	TORY:					
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number	
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//	7			4/5/20/8 DATE 4/10/2018		ENGINEERING	
	EVIEWED BY	LuS.		9/10/2018 DATE		DESIGN COMPANY INCORPORATED	
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-	DAILY SOILS CONSTRUCTION REPORT								
PROJECT:	Cell 12 No	orth			DATE: P	toril 6,2018			
PROJECT NO.:	18024				DAY: s	M T W T F S			
CLIENT:	· · · · · · · · · · · · · · · · · · ·	anagement of Ar	kansas - Eco V	/ista Landfill		-570 Mostly Cloudy			
CONTRACTOR:						uph Medium humidity			
REPORT BY:	Joest	neppend		TIME ARRIVED		DEPARTED: 19:00			
NUMBER WOR	RKING	LIST EC	UIPMENT		GENERAL I	NOTES			
le		1-Excavator							
		1-Dozer 1-D	Jump			······································			
		1-Tractor w1							
		1-Shaepsfoot							
VISITORS	<u>,</u>					· · · · · · · · · · · · · · · · · · ·			
TIME	· · · · · · · · · · · · · · · · · · ·	NAME	REP	RESENTING	·	REMARKS			
-	<u>L</u>								
CONSTRUCTION A	ACTIVITIES:	Working c	m scalehour	sepad. Had to	rework cell	floor in two Areas			
for shelby to									
<u> </u>		<i>P</i>			· · · · · · · · · · · · · · · · · · ·				

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FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLAII	V	·			
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SAMPLES SENT TO	O LABORAT	ropy.		.,,					
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11-5T-R	Lift No.	Northing	Easting	Sample Date	Ship Date				
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L1-5T-IR L1-5T 3R	Lift No.			<u> </u>					
	Lift No.	665565	645 459	4-10-208	4/6/18	780416416500			
	Lift No.	665565	645 459	4-10-208	4/6/18	780416416500			
11-8T 3R		665565	645 459	4-6-208	4/6/18	780416416500			
11-8T 3R	Diff No.	665565	645 459	4-6-208	4/6/18	780416416500			
11-8T 3R		665565	645 459	4-10-208	4/6/18	780416416500			

DATE

	_	DAILY SOIL	S CONST	RUCTION REI	PORT	
PROJECT:	Cell 12 No	orth			DATE:	April 7.2018
PROJECT NO.:	18024				DAY: s	
CLIENT:		anagement of Ark	kansas - Eco V	ista Landfill	WEATHER: 25	0-450 Clowly
CONTRACTOR:					E5-10m	veh
REPORT BY:	Joes	Shappen		TIME ARRIVED	D: 07:00	TIME DEPARTED: 19:00
NUMBER WOF	RKING	LIST EQ	UIPMENT	T	GENERAL N	NOTES
Ь		1-Excavator				
			-Dump			
		1-tractor w				
		,	,			

VISITORS TIME	Τ	NAME	REPF	RESENTING	Т	REMARKS
I IIVIa-	 	·		·	Sura	eyed Scale house bad
	Johnny	MASDN	I'INDUN C	suveymig	the state	eyed Scale house pad
						TIMUMOL
CONSTRUCTION /	ACTIVITIES:	: Finish that	live In sen'	Inhouse and I	the an	Installed and rolled
			Care	WII SOME		1 F 190 FFT LCA STEEL
<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			The state of the s		
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TITLD DDORLEMS	- AND THE CO	ייי ה מבפווו T IN	AV CHANC	TOPPED OF CLAI		
FIELD PROBLEMO	WHICH CC	MLD KEOULT IIV	DELAY, OFFAITO	GE ORDER, OR CLAIM	1	

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TO OFITT						**************************************
SAMPLES SENT TO	[<u> </u>	T D-10	
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
	l			 	<u> </u>	-
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· · · · · · · · · · · · · · · · · · ·	<u> </u>		<u> </u>	1	-	
	<u> </u>			<u> </u>		
Minanta =	Janar prod	.)		4-7-2018		
- Juny CO	A TECHNICIAN	,	-	DATE	-	-nenheni
A.	. 18	2_1		4-7-2018 V/10/2018		ENGINEERING
- W	REVIEWED BY	in the second se		DATE	-	DESIGN COMPANY INCORPORATED

DAILY SOILS CONSTRUCTION REPORT									
PROJECT:	Cell 12 No	rth			DATE: (-	loril 8 2018			
PROJECT NO.:	18024				DAY: ^s ✓	M T W T F S			
CLIENT:	Waste Ma	nagement of Arl	kansas - Eco V	ista Landfill	WEATHER: 260-490 Paretly Cloudy				
CONTRACTOR:	CEG Cons	truction		T	5-10 man	med humidity			
REPORT BY:	Joe 51	1epporl		TIME ARRIVED	: 07:00	DEPARTED: 19:00			
NUMBER WOF			JIPMENT	T	GENERAL NOTES				
6	u di di	1-Excavator							
	1-Dump								
	1-Tractor W pan								
						, , , , , , , , , , , , , , , , , , ,			
VISITORS									
TIME				RESENTING		REMARKS			
CONSTRUCTION A	ACTIVITIES:	Hawling out	the excess	1 from scale hou	se pach. HE	ter Johnny surveyed			
yesterday, a	yestenday, and found out it was overbuilt. After removing the excess material from pail, went oux to (NW) corner of retention ponch began digging trench for 12 mich pipes drain.								
to WW) Conner	of return	non ponce per	Jan digging -	trench for 12 mc	n prom ova	W>			
	 								
						· · · · · · · · · · · · · · · · · · ·			
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLAI	N				
,				Out of the second secon					
SAMPLES SENT T	O LABORAT	ORY:		T	1				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number			
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	1		<u> </u>	1./					
(Ingoh They	ALL TECHNICIAN			4.8-2018 V/10/2018	- [
a a a a a a a a a a a a a a a a a a a	A ILOINIONI			11112 10.00					
) Jany			DATE	-	DESIGN COUPANY INCORPORATED			

	DAILY SOILS CONSTRUCTION REPORT								
PROJECT:	Cell 12 No	rth			DATE:	oril 9, 2018			
PROJECT NO.:	18024				DAY: S	M T W T F S			
CLIENT:	Waste Ma	nagement of Arl	kansas - Eco V	ista Landfill	WEATHER: 310	-60° Cloudy w/Sunshine			
CONTRACTOR:	CEG Cons	truction		-	E-5-10m	of Medium humidity			
REPORT BY:	Joes	heppon0		TIME ARRIVED	07:00	DEPARTED: 19:00			
NUMBER WOF	RKING	G LIST EQUIPMENT			GENERAL I	NOTES			
5		1-Excavator 1	-Mini X	A load of soch					
		1-Dozen 1-D		RIPRAP Rock al	so delivered	for loadhat, line.			
		1-Sheepsfoot							
		1- Water Trud	Κ						
VISITORS		LIANG	l pro-	POPLIFILA	T	DEMARKO			
TIME		NAME	KEPF	RESENTING		REMARKS			
CONSTRUCTION	ACTIVITIES:	Mil consor	al notantion	and Devices	ملحشر بهما	Mad Concrete			
presed in the after noon. Rip Rap installed @ the exot of the 12 mich drainage pipe.									
Porting parties	white no	3/10 13/19	P MSTRANES (E TALL LOOK IS L	ME INVICOR	ever a Je page			
	<u></u>		***************************************	**************************************					
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EIEI D DDODI EME	WILICH CO	III D DEGIU T IN	DELAY CHANG	GE ORDER, OR CLAIF					
PIELD PROBLEMS	Which CO	OLD KESOLI IN	DELAT, CHANG	SE ORDER, OR CLAII	1				
									
SAMPLES SENT TO					T 01:1 D 4:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number			
					· · · · · · · · · · · · · · · · · · ·				
(Jap Shou	grand)			4-9-2018					
co	A TECHNICIAN			DATE		shepherd			
Min	Sheed			4,9-2018 4/10/2018		ENGINEERING			
- //pp	REVIEWED BY			DATE	-	DESIGN COMPANY INCORPORATED			

	DAILY SOILS CONSTRUCTION REPORT								
PROJECT:	Cell 12 No	rth ·			DATE: /	April 10,2018			
PROJECT NO.:	18024				DAY:				
CLIENT:		nagement of Ar	kansas - Eco \	/ista Landfill	WEATHER: 30	0-65° light variable wind			
CONTRACTOR:	CEG Cons	truction			Sunny	low humidity			
REPORT BY:	Que	ShepperO		TIME ARRIVED	07:00	DEPARTED: 19:00			
NUMBER WOF	RKING	LIST EQ	UIPMENT		GENERAL NOTES				
6	1-Excavator		- Construction	- Construction meeting 10:00 Am - 12:00 pm					
	1-Dimp		-COA pulled	-COA pulled Construction sample from borrow					
		1-Mini X	7	site"		' V			
		1-Tractor w	PAN						
VISITORS		L							
TIME	1	NAME	REP	RESENTING	T	REMARKS			
					T				
CONSTRUCTION A	ACTIVITIES:	Dug the t	rench for	relocating w	ter line.				
North sid	CONSTRUCTION ACTIVITIES: Dug the trench for relocating water line. North side of retention pond dug or out spill way.								
	U	1		, 7					
					-				
		<u> </u>							
		······································	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	·····				
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLAI	N				
	* * * * * · · · ·		· 			The state of the s			

		······································							
SAMPLES SENT TO	O LABORAT	'ORY:							
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number			
L1-C8-1	1	N-A	N.A.	4.10.18	4-10-18	1804 6527 4425			
71 201				7-/-/-	1 10 10	1001 800 0 1170			
						 			
		· · · · · · · · · · · · · · · · · · ·			 				
					 				
			J.,	<u> </u>					
	Sleppel A TECHNICIAN			4-10-2018 Y/13/2018	- 6				
/ • • • • •	A TAECHNICIAN			DATE		Shephero			
Thy	- Buil	, , , , , , , , , , , , , , , , , , , ,		4/13/2018		DESIGN COMPANY INCORPORATED			
R	EVIEWED BY		•	DATE					

DAILY SOILS CONSTRUCTION REPORT									
PROJECT:	Cell 12 No	rth			DATE:	Paril 11,2018			
PROJECT NO.:	18024		<u> </u>		DAY:	M T W T F S			
CLIENT:	Waste Ma	nagement of Ar	kansas - Eco \	/ista Landfill	WEATHER: 560.	-740 Sunny			
CONTRACTOR:	CEG Cons				SSE 20mph	Low humiclify			
REPORT BY:	Soe 5	hoppa0		TIME ARRIVED	07:00	DEPARTED: 20:00			
NUMBER WOF	RKING LIST EQUIPMENT				GENERAL NOTES				
6		1-Excavator							
) <u> </u>	Sheeps foot						
			Water truck		······································				
	· · · · · · · · · · · · · · · · · · ·	1-Tractorw/p)An						
VISITORS TIME	<u> </u>	NAME	REP	RESENTING		REMARKS			
1 K151 bus		W 11 74 7-1							
						the state of the s			
(that was due out yesterday) Lift one is water across the floor before hauling material down for lift 2. Strontal lift 2 approximated about 1/3 of the way North from Bouth and. (WAIting on later results of 55T-1R									
			V						
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLAI	IN.				
SAMPLES SENT T	O LABORAT	ORY:							
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number			
PC-AGG:1	NA	N/A	N/A	4-11-2018	4-11-2018	1804 8465 0089			
L1-CS-2	N/A	N/A	NA	4-11-2018	4-11-2018	780448465320			
Joseph. Sla	M TECHNICIAN		_	4-/1-18 DATE		henhen			
Pry	Suu REVIEWED BY]	-	4/13/2018 DATE		ENGINEERING DESIGN COMPANY INCORPORATED			

	DAILY SOILS CONSTRUCTION REPORT								
PROJECT:	Cell 12 No	orth			DATE: A	enil 12, 2018			
PROJECT NO.:	18024				DAY:	M $ T $ $ W $ $ T $			
CLIENT:		anagement of Ar	kansas - Eco V	/ista Landfill	WEATHER: 63°	-78° Semny			
CONTRACTOR:	+-/				5-15 mpl	Med. humidity			
REPORT BY:	Joes	Shopper O		TIME ARRIVED): 07. 0 0	DEPARTED: 20:00			
NUMBER WOR			UIPMENT		GENERAL N	NATER			
NUMBER WOR	KNING	2-Excavatore		Clinton and					
		2-Dozers 1-	•			anno iosan			
		1-WAter Truc		1-Dozn down	1-Dozon down for maintenance (Allday) 10:30 mm				
		1-Tractor w/	7						
WEITORS		1-Sheeps foot							
VISITORS TIME	T	NAME	REP	RESENTING	T	REMARKS			

			<u> </u>		<u></u>				
CONSTRUCTION	ACTIVITIES:	Continues	ig to recien	re material for	from born	owsite. And			
loading on	t red me	sterid going	back to be	orrowsite. to see where	- 1	777			
	mms son	ne pretimina	try testing	to see where	the maters	al (clay) is naturally			
<u>at.</u>						*			
Den and	1 5ee 5	Some nocks (roming over	in the loads. (13:00)				
to We mes	et w/ L) AVIN PRI MOT	vis to desc	cuss possibiliti	es to elim	inste foreign objects			
from from	coming o	over in the la	ands.						
		·	**************************************		3				
					<u></u>				
EIELD DROB! EMS	e withich CC	OUI D RESULT IN	TOELAY CHAN	IGE ORDER. OR CLAI					
FIELD FRODELING	3 WINDER GO	JULU REGUET III	I DELM I, Guma	SE Under, on ver	А				
Name of the second seco									
		<u> </u>							
SAMPLES SENT TO	O LABORA	TORY:							
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number			
Friction	Interfe	are shippo	0			780501519719			
	"	//							
1. 181	1 0			1-12-18					
- Hosely Sign	GA TECHNICIAN	1	-	4-/2-18 DATE	-	Shenheid			
Ma	1	2.1		Ulmlie		ENGINEERING			
- Vary	REVIEWED BY	<u>my</u>	- ·	DATE	-	DESIGN COMPANY INCORPORATED			

	DAILY SOILS CONSTRUCTION REPORT								
PROJECT:	Cell 12 No	rth			DATE: /	Penil 13 2018			
PROJECT NO.:	18024				DAY:	M T W T F S			
CLIENT:	Waste Mai	nagement of Ark	cansas - Eco V	ista Landfill	WEATHER: 60-	720 Cloudy			
CONTRACTOR:	CEG Cons	truction			15-25 mpt	med/high humidity			
REPORT BY:	Joe :	Shopper D		TIME ARRIVED	:07:00	DEPARTED: 17:00			
NUMBER WOF	RKING	LIST EQU	JIPMENT	GENERAL NOTES					
8	8			RAM @ 16:45	·				
			Water truk broke dawn						
VISITORS		LA BEC	DEDI	RESENTING	<u> </u>	REMARKS			
TIME	NAME REPR			RESENTING		KEMAKKO			
				, (, , , , , , , , , , , , , , , , , ,					
CONSTRUCTION	CTIVITIES:	Constinue	a socialad	and hard me	terial law	n into Call for			
1. 1:11 2) /	OA miles	o mucieves	2/1 tarte	ena sou	n vito car ger			
Jos Uf C	Part	an perjoin	s some ju	Eld tests site about 15:	か ろ	·			
Stopped	Rucioving	MAIDI IAT A	Tom DUVOW	SUR ABOUT 13:	00	ware the second			
				<u>, 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1</u>					
<u> </u>									
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FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHANC	GE ORDER, OR CLAI	N	HT			
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						······			
	.,	<u> </u>		44					
SAMPLES SENT T	O LABORAT	ORY:			_				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number			
	-1 0		handra and the same of the sam	11221	<u></u>	——————————————————————————————————————			
Johnaph 2	Wyyes			4-13-2018 DATE	-				
7 7 00	M			4/17/2018		ENGINEERING			
. My	Bail					DESIGN COMPANY INCORPORATED			
/ F	REVIEWED BY			DATE					

	. [DAILY SOIL	S CONST	RUCTION REP	PORT	
PROJECT:	Cell 12 No	rth			DATE:	oril 14, 2018
PROJECT NO.:	18024				DAY: s	
CLIENT:	Waste Ma	nagement of Arl	kansas - Eco V	ista Landfill	WEATHER: 36.	-410 Partly Clouchy
CONTRACTOR:	CEG Cons	truction			NW 10-15 K	nph
REPORT BY:	Joe &	ropperd		TIME ARRIVED:	07:00	TIME DEPARTED: /8:00
NUMBER WO	SKING	LIST FO	UIPMENT	<u> </u>	GENERAL I	NOTES
Nomber 118		1-Excavator	OII WILLY!		OLIVE! (FILE !	10.10
<u> </u>	1-Doza					
	2-Dumps					
	1-Tractor WI pan					
		1-Sheasson				
VISITORS		[1 Cine 33965				
TIME	1	NAME	REPI	RESENTING		REMARKS
CONSTRUCTION I	ACTIVITIES: Tu ial Im	Plumbe is	here and u the wast	ster (me is a	lone.	
	V			7		
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				· · · · · · · · · · · · · · · · · · ·		
			DEI 41/ QUANI		 	
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLAIN	***************************************	
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SAMPLES SENT T	O LABORAT	ORY:		· · · · · · · · · · · · · · · · · · ·		<u> </u>
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
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Cforopt 3	Sheppyell A TECHNICIAN	·		4-/4-/8 DATE		
	7	1				ENGINEERING
	on 11	Eur (4/17/2018		DESIGN COMPANY INCORPORATED
F	EVIEWED BY			DATE		

	[DAILY SOIL	S CONST	RUCTION RE	PORT			
PROJECT:	Cell 12 No	rth			DATE:	April 15, 2018		
PROJECT NO.:	18024				DAY: S	/M T W T F S		
CLIENT:	Waste Ma	nagement of Ari	kansas - Eco \	/ista Landfill	WEATHER: 30%	420 Partly Sunny		
CONTRACTOR:						Low humidity		
REPORT BY:	Joes	hopporl		TIME ARRIVED	07:00	TIME 18:00 DEPARTED:		
NUMBER WO	RKING	LIST EQ	UIPMENT	GENERAL NOTES				
. 8		2-Dozens 1-		Olandina NOTES				
1-2xx412+to1								
		1 1-Tractorw	DAna.					
								
		1-Shoopsfoot 1-Water Truck						
VISITORS		I WAGE IIWGE						
TIME		NAME	REP	RESENTING		REMARKS		
						tt.		
COA Tested lift to 2 on the floor and pulled 2 shells tubes on the floor L2-5T-142								
CQA Tested.	lift to 2	on the floo	and pull	ler 2 sholby trak	ses on the XI	00 L2-5T-142		
	U	V	,	3	v			
								
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	· · · · · · · · · · · · · · · · · · ·							
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLAI	N			
					······································			
	41 m. 41 m			***************************************				
SAMPLES SENT T	O LABORAT	ORY:		~ ,				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number		
L2-5T-1				4-15-2018				
L2-3T-2				4-15-2018				
		L			<u> </u>			
(Warl Shen	rail			4-15-2018	<u></u>			
The part of the pa	A TECHNICIAN			4-15-2018 DATE 4/17/2018		shepherd		
	- 11.1	•		4/17/2018		ENGINEERING		
- 1/3ge	REVIEWED BY			DATE	-	DEBIGH COMPANY INCORPORATED		

		DAILY SOI	LS CONST	RUCTION RE	PORT	
PROJECT:	Cell 12 No	orth			DATE:	oril 16, 2018
PROJECT NO.:	18024				DAY: S	M T F S
CLIENT:	Waste Ma	nagement of A	rkansas - Eco \	/ista Landfill	WEATHER: 25	-570 Sunny
CONTRACTOR:					5-10mph	Low hum, dity
REPORT BY:	Que 5	Shepper O		TIME ARRIVED	TIME 1700 DEPARTED:	
NUMBER WO	RKING	LIST EC	UIPMENT	1	GENERAL	NOTES
. 8	<u> </u>	2-Dozens		No Material Del		
1-Watutnul		k	To the pure pure to the			
1-Tractor w/pm						
VISITORS TIME	l'	NAME	l DED	RESENTING		REMARKS
		INAMIL	KEI	RESERTING		KEWAKNO
	4					· · · · · · · · · · · · · · · · · · ·
CONSTRUCTION	ACTIVITIES:	CaA Tes	ted lift 1	on (W) Slope Sh	pood out F	E.J.Ex
		aintamina	moisture to	on (W) Slope. Sh the cell (watering	3	
				0	/	
						
					"""	<u> </u>
			······································			
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1 to	·					
FIELD PROBLEMS	WHICH CO	OULD RESULT IN	N DELAY, CHAN	GE ORDER, OR CLAI	1	
		······································	······································			
			 			
SAMPLES SENT TO	O LABORAT	TORY:		· · · · · · · · · · · · · · · · · · ·		······································
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
LI-ST-4	1	445 891	645 339	4-16		- Tracking Manuscri
LI-ST-5 (BSG)	<u></u>	Lele 5 6661	645 354	4-16		
LI - ST - (800)	<u> </u>	445 527	645 323	4-11.		
LI-B5-4	1	le65 831	645 339	4-16		
LI-BS-5	1	645 707	645 348	4-11		
/ / /	, ,	443 107	1 3 13 0/0	1/./.	L	
Joseph She	ATECHNICIAN		-	4/16/20/8 DATE		
, , , , ,	AT LECHNICIAN	_			9	Shepherd
- Ilm	~ //	ach .		4/17/2018		ENGINEERING
R	EVIEWED BY		-	DATE	- '	DESIGN COMPANY INCORPORATED

		DAILY SOIL	_S CONST	RUCTION REP	PORT	
PROJECT:	Cell 12 No	rth			DATE: H	Paril 17.2018
PROJECT NO.:	18024				DAY: s	M T W T F S
CLIENT:		nagement of Arl	kansas - Eco V	/ista Landfill	WEATHER: 34	° + 75° Sunny
CONTRACTOR:	CEG Cons	truction			10-15mg	of soul low/Mal huiselity
REPORT BY:	Joe 5	Shoppa D		TIME ARRIVED:	07:00	TIME DEPARTED: 00:00
NUMBER WOF	RKING	LIST EQ	UIPMENT		GENERAL I	NOTES
8		1-Encounton 1	1-Dump	LI-STIR Failed		
		2-Dozens 1-Sh		Reworking a		,
		1-Wata Truck	•	CA COA perform	red density	tests to lift(1)
		1-Tractorw pa		after revovaking	aneo-) · · · · · · · · · · · · · · · · · · ·
		1-Tractoruldis	śc			
VISITORS		*****	TOED	TEOTRITIALO	T	P=11 PI/O
TIME		NAME	KEPF	RESENTING		REMARKS
	 					
	 					
CONSTRUCTION A	2 on W	Natuing rel Islope	l tomaintena	n more time and b	where apply	jung lift 2 to the N slope

		,				
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			,			
FIELD PROBLEMS	, WHICH CO	ULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLAIN		
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						· · · · · · · · · · · · · · · · · · ·
SAMPLES SENT TO	O LABORAT	ORY:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
	i				ĺ	
	·		<u> </u>			
1.15	1		L	117.2018		<u></u> .
Cloop in	2//e-01 LATECHNICIAN		•	DATE		-benbend
13		11		Y/20/2018		ENGINEERING
	REVIEWED BY	uil		DATE		DESIGN COMPANY INCORPORATED

		DAILY SO	ILS CONS	TRUCTION R	EPORT		
PROJECT:	Cell 12 N	lorth			DATE:	April 18	
PROJECT NO.:	18024				DAY: s	M T W T F S	
CLIENT:	Waste M	anagement of	Arkansas - Eco	Vista Landfill	WEATHER: 4/3	°-70° Sumy	
CONTRACTOR:	CEG Cor	nstruction			10-20 m	2 winds Conhunich	
REPORT BY:	Jose	ph Shopper	9	TIME ARRIVE		TIME DEPARTED:	
NUMBER WOF	RKING	LIST E	QUIPMENT	T	GENERAL	NOTES	
7		1-EXCAVATOR	1-Sheeps Soot	Rociovad ma		- days and a second sec	
		1-Tractor w/ pm	·	Suitable Sorus	Recieved material Dark/soil not sure if Suitable for use		
		1 1 1	h 2 Dozens				
			· · · · · · · · · · · · · · · · · · ·				
VISITORS							
TIME		NAME	REF	PRESENTING		REMARKS	
				I testeel. BKI			
Filled Shedli	ry LI-s	ot-IRA'	CGA Test	GE ORDER, OR CLA		tieles faildel 21-STI; STIA	
SAMPLES SENT TO	LABORAT	ORY:					
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number	
LI-STIRA		645560	645 412	4-18-2018	£15008		
					4-13-2018	780598198768	
Angle of Branch	Separation of the Secretary of the Secre	e)		4-18-18 DATE 4/20118 DATE		INCOMPANY INCORPORATED	

		DAILY SO	LS CONS	TRUCTION RI	EPORT	
PROJECT:	Cell 12 N	orth			DATE:	April 19, 2018
PROJECT NO.:	18024				DAY: s	
CLIENT:	Waste M	anagement of A	rkansas - Eco	Vista Landfill	WEATHER: 30	20-57° Sunny
CONTRACTOR	: CEG Cor	struction			5-10 mpi	h low real humichet
REPORT BY:	Joes	Sheppar D	······································	TIME ARRIVE	D: 07:00	TIME DEPARTED: 19:00
NUMBER WO	RKING	LIST EC	QUIPMENT		GENERAL	NOTES
	7	1-Excavator &	2- Dozens		<u> </u>	
		1- Dung 1- Water Tryck				
		1-Tradow/pan	1-Sheeps Goot			
						
VISITORS						
TIME		NAME	REF	PRESENTING	T	REMARKS
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
						
CONSTRUCTION	ACTIVITIES	: Testod life	+ 2(N) shope	, Received mas	terial throw	shout the day
Howled and	placed 1	ft 2 on (w)	Slave- N-	, Receved man	4576 of the	627ALY
	· · · · · · · · · · · · · · · · · · ·					·
***	***************************************		· · · · · · · · · · · · · · · · · · ·			
	T15000000000000000000000000000000000000					
	**				-	
	· · · · · · · · · · · · · · · · · · ·					
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLAI	Λ	
						·
						
	····		V			
SAMPLES SENT TO	O LABORAT	ORY:		1		
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number

			:			
/anad	Sherry 1	7		1/19 2018		
Con Con	A TECHNICIAN		•	4-11.2010 DATE	-	
	12 1	Buil		4/20/2018 4/20/2018		ENGINEERING
RF	EVIEWED BY	my		9/2012018 DATE		DESIGN COMPANY INCOMPORATED
IXI				DATE		

	!	DAILY SO	ILS CONST	RUCTION RE	PORT	-
PROJECT:	Cell 12 No	orth			DATE:	April 20, 2018
PROJECT NO.:	18024				DAY:	
CLIENT:			Arkansas - Eco V	/ista Landfill	WEATHER: 55	266° Simny
CONTRACTOR:	CEG Cons				5-10 mpt	Laymal hum, dity
REPORT BY:	Joe	2 Sheppend	9	TIME ARRIVED	D: 07.00	TIME DEPARTED: 19:00
NUMBER WOR	RKING	LIST E	QUIPMENT		GENERAL	NOTES
. 7		1-Excavator	1-sheepsfeat	Lowded and Res		
		1-Dozan 1-Tra			V	Pi Doi: On Son
****	T-T1	1- Water truck				
VISITABE						
VISITORS TIME	ſ 	NAME	REPI	RESENTING	~ 	PERFE
		MANIE	IXLI I	(ESENTING		REMARKS
	1					
						usely test parformed
FIELD PROBLEMS	WHICH COL	ULD RESULT IN		GE ORDER, OR CLAIM	N	
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
12 ST-3		466		4-20-18	4-23-18	780652246372
12-874	9	645 956	645 333	4-20-18	4-23-18	1, 1,
Sproph Bla	yre f TECHNICIAN	2.1		DATE		Shepherd ENGINEERING
REI	VIEWED BY	aug_		4/25/2018 DATE	, ,	DESIGN COMPANY INCORPORATED

		DAILY SOI	LS CONS	TRUCTION RE	PORT	
PROJECT:	Cell 12 N	orth			DATE:	April 21,2018
PROJECT NO.:	18024				DAY: S	M T W T F S
CLIENT:		anagement of A	rkansas - Eco	Vista Landfill	WEATHER:	Cloudy w/ nain
CONTRACTOR:			······································		•	
REPORT BY:	Jos	eph Sheppno		TIME ARRIVE	D: 07:00	TIME 08:00 DEPARTED:
NUMBER WOR	RKING	KING LIST EQUIPMENT		GENERAL	. NOTES	
7						
						
VISITORS						
TIME		NAME	REF	PRESENTING		REMARKS
					1	
CONSTRUCTION A	CTIVITIES	No Clark	du to	weether, and	.,	
			an co	weether, and	<u>/</u>	
				, , , , , , , , , , , , , , , , , , , ,		
					· · · · · · · · · · · · · · · · · · ·	111
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLAI	1	
	····			70 ° .		
****	······································		·			
· American comparinger of			· · · · · · · · · · · · · · · · · · ·			·
SAMPLES SENT TO				T	T	
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
						
				,		
1 / 1		****	 	L		
(Joseph Sta)	ml			4-21-18 DATE		
/ / cg/	TECHNICIAN	4		DATE		shepherd
	Pen 1	Sail		4/25/2018		ENGINEERING
RE.	VIEWED BY		,	DATE	•	DESIGN COMPANY INCORPORATED

		DAILY SO	LS CONS	TRUCTION REF	PORT	
PROJECT:	Cell 12 N	orth			DATE:	April 22, 2018
PROJECT NO.:	18024				DAY: S	T W T S
CLIENT:	Waste Ma	anagement of A	rkansas - Eco`	Vista Landfill	WEATHER:	Parin
CONTRACTOR:	CEG Con	struction				
REPORT BY:	Joseph	sh Shappa C)	TIME ARRIVED:	0,	TIME DEPARTED:
NUMBER WORKING		LIST EC	QUIPMENT		GENERAL	NOTES
VISITORS						
TIME		NAME	REP	RESENTING		REMARKS
FIELD PROBLEMS				GE ORDER, OR CLAIN_		
SAMPLES SENT TO) LABORAT	ORY:				,
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
				·		
					-	
Jogsh Shape	1 TECHNICIAN	2-/		4-22-18 DATE 4/25/25/8		hepherd engineering
RE	VIEWED BY	uc _y	•	DATE	c	DESIGN COMPANY INCOMPORATED

	ı	DAILY SOI	LS CONS	TRUCTION RE	EPORT	
PROJECT:	Cell 12 No	orth			DATE:	April 23, 2018
PROJECT NO.:	18024				DAY: s	M T F S
CLIENT:		anagement of Ar	rkansas - Eco ՝	Vista Landfill	WEATHER: 50	75" Sumay
CONTRACTOR:					545 mpl	Low himidity
REPORT BY:				TIME ARRIVE		TIME DEPARTED: 20:00
NUMBER WOF	RKING	LIST EQ	UIPMENT		GENERAL	NOTES
· 8		1-ExcAVATO	1-Dozen			A
		1-Tradow/p				
		1-Dump				
						
VISITORS						
TIME		NAME	REP	PRESENTING		REMARKS
	<u> </u>					
	<u> </u>	11.7				
CONSTRUCTION A	CTIVITIES:	HANT HANTER	I and pl	ace lift 3 no	orth halfof	floor
				W		
				-		
					· · · · · · · · · · · · · · · · · · ·	
					*****	***************************************
	-					
	*****				· · · · · · · · · · · · · · · · · · ·	
						Military
			****	***************************************		
						
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHANC	GE ORDER, OR CLAI	JN	

					W. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
			······································			
SAMPLES SENT TO	LABORAT	ORY:	· · · · · · · · · · · · · · · · · · ·	Mg-1		
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
12-ST-3	2			4-20-18	4-23-18	1806 5224, 2372
22-ST-4	2			4-20-18	1/2	1806 5224 6372
1.15/	0			10210	-1	I
May Cher	TECHNICIAN			4-25-10 DATE	-	
n.		<i>a</i> .				
/ hy	VIEWED BY	Sant	,	4/25/2018		DESIGN COMPANY INCORPORATED
IVE.	AIFAAFD D I	•		DATE		

	· —- <u></u>	DAILY SOI	LS CONS	TRUCTION RE	EPORT			
PROJECT:	Cell 12 No	iorth			DATE:	April 24, 2018		
PROJECT NO.:	18024				DAY:	M T W T F S		
CLIENT:		anagement of A	rkansas - Eco ՝	Vista Landfill	WEATHER: 49	1-74° Sunny		
CONTRACTOR:		CEG Construction NNW 5-10 mpl Lubhumiclity TIME ARRIVED: 17 TIME						
REPORT BY:	Josep	h Shapper O)	TIME ARRIVE	D: 07:00	TIME DEPARTED: 20:00		
NUMBER WOR	RKING	LISTEC	QUIPMENT	T	GENERAL	NOTES		
· 8		1-Excounter	· · · · · · · · · · · · · · · · · · ·	Recioud nu				
		1 - 1	m 1-Dozer	L1-516	<u>xmv</u>	heroy janus		
		1- Sheepstoot		12-51-2	7 Passed			
				21-5TIRA				
VISITORS			, , , , , , , , , , , , , , , , , , ,					
TIME		NAME	REF	PRESENTING		REMARKS		
	<u> </u>			Maderia		VERIMINO		
						- Waller		
1								
CONSTRUCTION A	CTIVITIES:	Have and	1 continue	to place lift.	3 on north	holf of the cell		
floor, force	ssed and	1 tested.	Pulled som	06 (23-KST-1	.)	- 8 0		
Andfullad	Bucket :	Sample L2	-C5-1			haf of the cell		
F		•						
	-							
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLAI	.in			
SAMPLES SENT TO	LABORAT	ORY:						
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number		
13-ST-1	1		1	424-18	4-24-18	7806 4724 4939		
22-C5-1	2			4-24-18	4-24-18	7806 4681 1715		
						100		
And Stew	- 1			Ind. and		1		
Charles and	TECHNICIAN		-	4-24-LUIX DATE	-			
. 12	1	n ,		4/25/2018	b	ENGINEERING		
/sr	VIEWED BY	uis		9/25/2018 DATE	- (DESIGN COMPANY INCOMPORATED		

	!	DAILY SOI	LS CONST	TRUCTION RE	EPORT	
PROJECT:	Cell 12 No	orth			DATE:	April 25, 2018
PROJECT NO.:	18024				DAY: s	M T W T F S
CLIENT:		anagement of Ar	rkansas - Eco \	Vista Landfill	WEATHER: 40	0-560 Overcast/w Rai
CONTRACTOR:					NNW 10.	mph high hiemichty TIME
REPORT BY:	Jose	ph Sheppen S)	TIME ARRIVED	D: 07:00	TIME DEPARTED: 10:00
NUMBER WOR	RKING	LIST EC	QUIPMENT	T	GENERAL	NOTES
8	-	1-Excavator				NOTEC
		-Tractorulpan				
		Isheeps foot	F			
		1- Water truck				
VISITORS						
TIME		NAME	REP	RESENTING	T	REMARKS
	T Nati			Media Comp		PLIMATO
				GE ORDER, OR CLAIR		
SAMPLES SENT TO	LABORAT	ORY:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
Jongob Shyr	L TECHNICIAN Bu	, m1	-	4-25-2018 DATE 4/30/2018	E	hepherd ENGINEERING
RE'	VIEWED BY			DATE	U	DESIGN COMPANY INCORPORATED

	***	DAILY SOI	LS CONST	TRUCTION RE	EPORT	
PROJECT:	Cell 12 N	iorth			DATE: /	April 24, 2018
PROJECT NO.:	18024				DAY:	M T W T F S
CLIENT:		lanagement of A	vrkansas - Eco \	Vista Landfill		3-61° Overcust
CONTRACTOR:	CEG Con	nstruction			5-10 mph	/
REPORT BY:	Joe S	sheppend		TIME ARRIVE		TIME DEPARTED: 09;00
NUMBER WOF	PKING	I IST EC	QUIPMENT	T	CENEDAL	
7	This control	1-Dump	MILINE IN I		GENERAL	NOTES
		1-Dozer			A	
		1-Excavator	?			
VISITORS						
TIME		NAME	REP	PRESENTING	T	REMARKS
	17 (1912)			RESERTING		KEMAKNO
					 	- Anna Anna Anna Anna Anna Anna Anna Ann
FIELD PROBLEMS	WHICH CO	DULD RESULT IN		GE ORDER, OR CLAIR		helpod Landfill area.
SAMPLES SENT TO	T	1	T	T		
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
Anal 6	31.			1 21-2018	,	
TO COA	TELYINICIAN VIEWED BY	Bui{		4/30/2018 DATE		ENGINEERING DESIGN COMPANY INCOMPORATED

		DAILY SOI	LS CONS	TRUCTION RE	EPORT	
PROJECT:	Cell 12 N	Iorth			DATE:	April 27, 2018
PROJECT NO.:	18024				DAY:	M T W T FX S
CLIENT:	Waste M	anagement of A	rkansas - Eco	Vista Landfill	WEATHER: 50%	2-72 5 Sunny
CONTRACTOR:	CEG Con				5-10 mph	TIME
REPORT BY:				TIME ARRIVED	ED: 07:00	TIME DEPARTED: 10:00
NUMBER WOR	RKING	LIST EC	QUIPMENT	T	GENERAL I	NOTES
3	11 417		1-Dump	Dine and tid		exect for Seachate lin
		1- Ercarah		Tipe one ye	ting over	ved for seaware on.
VISITORS						
TIME		NAME	REF	PRESENTING		REMARKS
	i			1 the Control of the		KLIMANA
					1	
				IGE ORDER, OR CLAIR		civing any material
SAMPLES SENT TO	LABORAT	ORY:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
Joseph She	Por Dechnician	2 ,		4-27-2018 DATE 4/30/2018		THE PITER OF THE PROPERTY OF T
J/m	VIEWED BY	rait		4/30/2018 DATE		DESIGN COMPANY INCORPORATED

		DAILY SO	LS CONS	TRUCTION RI	EPORT	
PROJECT:	Cell 12 N	orth			DATE:	April 28, 2018
PROJECT NO.:	18024				DAY: s	M T W T F S
CLIENT:	Waste Ma	anagement of A	rkansas - Eco`	Vista Landfill	WEATHER: 50	0-75* Senry
CONTRACTOR:	CEG Con				5-10mph	Low humidity
REPORT BY:	goc:	Shepperd		TIME ARRIVE		TIME DEPARTED: 19:00
NUMBER WOF	RKING	LIST EC	QUIPMENT	<u> </u>	GENERAL	NOTES
3		1-9xcAVAT			GLINERAL	INOTES
		1-Dumo			·	**************************************
		V-Tracko w/ pm				
VISITORS						
TIME		NAME	RFD	RESENTING	<u> </u>	REMARKS
			174	· .====================================		CANAMIA
						
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLAI	N.	
SAMPLES SENT TO	LABORAT	ORY:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
Joseph SI	TERHNICIAN		_	4-28-2018 DATE 4/30/2018		henhend
Jry RE	Sav VIEWED BY	<u> </u>		4/30/2018 DATE		ENGINEERING DESIGN COMPANY INCOMPORATED

		DAILY SO	LS CONS	TRUCTION RE	EPORT	
PROJECT:	Cell 12 No	orth			DATE:	April 29, 2018
PROJECT NO.:	18024				DAY: S	M T W T F
CLIENT:	Waste Ma	nagement of A	rkansas - Eco \	√ista Landfill	WEATHER: 5%	20-760 Sunny
CONTRACTOR:	CEG Cons	struction			5-10mph	Low humichty
REPORT BY:	Joe 5	Shepper O		TIME ARRIVE	D: 07:00	TIME DEPARTED: 19:00
NUMBER WO	RKING	LIST EC	QUIPMENT		GENERAL	. NOTES
le		1-Excavator 1	-Dump			
	1-Dozer 1-Water truck					
	1-Trados w pan					
						
VISITORS						
TIME	I	NAME	REP	RESENTING		REMARKS
		7			north slape	ne placing lift 2 mate 2 pulled shelby tube (13-ST-2)
		SED RESOLT III	DELAY, CHANG	GE ORDER, OR CLAI		
SAMPLES SENT TO			DELAY, CHANG	GE ORDER, OR CLAII	/	
			Easting	SE ORDER, OR CLAII	Ship Date	Tracking Number
SAMPLES SENT TO	LABORATO	DRY:			/	Tracking Number

•

		DAILY SOI	LS CONST	TRUCTION RE	EPORT			
PROJECT:	Cell 12 No	orth			DATE:	April 30 2018		
PROJECT NO.:	18024				DAY: S	' M / T W T F		
CLIENT:	Waste Ma	anagement of A	rkansas - Eco V	/ista Landfill	WEATHER: 50	20-79° Sunsy		
CONTRACTOR:	CEG Con	struction				L Low humidity		
REPORT BY:	Joes	Shepperd		TIME ARRIVE	D: 07:00	TIME DEPARTED: 19:00		
NUMBER WOR	RKING	LISTEC	QUIPMENT	GENERAL NOTES				
le			1-Dunp	Neal to test floo		Pull brig 5 samples		
		1-Trador w/pan				poro un compos		
		1	_ 1-Sheapsfood					
	-		·					
VICITADE								
VISITORS TIME	<u> </u>	NAME	REP	RESENTING				
1 Strang		MARIE	IXI-III	(ESENTING		REMARKS		
FIELD PROBLEMS	w нісн соі	ULD RESULT IN		SE ORDER, OR CLAII		iff 2.		
SAMPLES SENT TO			<u> </u>		т			
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number		
LD-ST-5	2			4-30-18				
La-ST-6	2			4.30-18				
Joseph She	PP 2 J	-	-	4-30-18 DATE		Shepherd		
/ Suy	- Bush JIEWED BY	y	_	5 19/2018 DATE	,	DESIGN COMPANY INCOMPÓRATED		

Cell 12 No		·		***************************************	
	<u>rtn</u>			DATE:	MAY 1, 2018
18024				DAY: s	M/T/W T F
Waste Ma	nagement of A	rkansas - Eco V	/ista Landfill		20-80° Cloudy
CEG Cons	struction		4		TIME
			TIME ARRIVED:	*	TIME DEPARTED:
KING	LIST EC	QUIPMENT		GENERAL	NOTES
	1-Excavator -	1-minix	Dropped samples	······································	
	2-Dozus 1	1-Water truck			
	1-Demp 1-7.	TACTOR W/pan			
	 	, , , , , , , , , , , , , , , , , , ,	 		
	<u> </u>				
	VAME	REPF	RESENTING	T	REMARKS
					(Verifical Area
VHICH COL	JLD RESULT IN	DELAY, CHANG	E ORDER, OR CLAIN_		
LABORAT(DRY:				
Lift No.	Northing	Easting	Sample Date	Shin Date	Tracking Number
		1	Odnipio 2015	Olip Date	Hacking Number
		1			
		1			
ECHNICIAN			15/61/20/8 DATE	[C	shepherd
_ / Sa	il		5/4/2018		DESIGN COMPANY INCOMPONATED
	KING N CTIVITIES: ABORATO Lift No.	KING LIST EQ 1-Excavator - 2-Dozes 1-Dump 1-70 NAME NAME CTIVITIES: Cell seems Melocating material WHICH COULD RESULT IN LABORATORY: Lift No. Northing	KING LIST EQUIPMENT 1-Exervator - 1-mini X 2-Dozers 1-Water truck 1-Dump 1-Tractor wipm NAME REPR STIVITIES: Cell seems to be a little Melocating material to areas need Millich Could RESULT IN DELAY, CHANGE LABORATORY: Lift No. Northing Easting ABORATORY: Lift No. Northing Easting AMIL AMIL	TIME ARRIVED: KING LIST EQUIPMENT 1-Excents - 1-mini X Drapped samples of 2-Dozes 1-Matertack 1-Dump 1-Tractor w/pem NAME REPRESENTING NAME REPRESENTING CITIVITIES: Coll seems to be a little thick. Disguing Melocations material to areas neer 2 cd on spreading. MHICH COULD RESULT IN DELAY, CHANGE ORDER, OR CLAIR DETERMINED Sample Date ABORATORY: Lift No. Northing Easting Sample Date Date Date Sull Jaul Sample Date Auch Jaul Sample Date Sull Jaul Sample Date Auch Jaul Sample Date Sull Jaul Sample Date	TIME ARRIVED: KING LIST EQUIPMENT GENERAL 1- Excession - 1-min' X Bropped samples & fed Ex 3-Derus 1-Andre truck 1-Dump 1-Time to us from NAME REPRESENTING PARTICIPATION OF SAMPLES A CALLE SECOND TO S

		DAILY SO	ILS CONS	TRUCTION R	EPORT	
PROJECT:	Cell 12 N	lorth		DATE:	MAY 2, 2018	
PROJECT NO.:	18024				DAY:	S W T W T F
CLIENT:	Waste M	anagement of A	rkansas - Ecc	Vista Landfill	WEATHER:	2°-86° Paretly Cloudy
CONTRACTOR:	CEG Construction					L med humidity
REPORT BY:	Joes	hopper Q		TIME ARRIVE	D: 07:00	TIME DEPARTED: 19:00
NUMBER WOF	RKING	LIST E	QUIPMENT		GENERA	L NOTES
6 1-Excavatos 1-Dump						
			lise 1-min X 1-Water truck	<u>/</u>		
VISITORS	······································					
TIME		NAME	RE	PRESENTING		REMARKS

			-			
				IGE ORDER, OR CLA		the west slope. In lift 2 and C5-1, I for from east to was
······································						
					/	
SAMPLES SENT TO	LABORAT	ORY:			1	
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
12.B5/,2,3	2			05/02/18		
L3-L5-/				05/02/18		
Longol Slag	nyens TECHNICIAN			05/02/08 DATE	- 2	- Denise of
REV	VIEWED BY	Pail		5/4/2018 DATE		ENGINEERING DESIGN COMPANY INCOMPORATED

		DAILY SO	ILS CONS	TRUCTION RE	PORT	
PROJECT:	Cell 12 No	orth			DATE:	MAY 3, 2018
PROJECT NO.:	18024				DAY: s	M T W T F
CLIÈNT:	Waste Ma	anagement of A	rkansas - Ecc	Vista Landfill	- MIERTIES	$\frac{1}{2}$
CONTRACTOR:	: CEG Cons				1. /	Ram, Nowork
REPORT BY:	Joe51	reper 0		TIME ARRIVE	D: 11/4	TIME DEPARTED: N/H
NUMBER WO	RKING	LIST EC	QUIPMENT		GENERA	L NOTES
VISITORS TIME	T		ne ne			
I HAIC	 '	NAME	KE	PRESENTING		REMARKS
FIELD PROBLEMS	WHICH COL	ULD RESULT IN	DELAY, CHAN	IGE ORDER, OR CLAIF		
SAMPLES SENT TO	O I ABORATI	UBA-				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
12-85/23	2			15/02/18	05/03/18	7808 1425 7411
23-CS-/	3			05/02/18	05/03/18	1808 1425 7422
1/						
Joseph Shap	Pro J TECHNICIAN			05/03/18 DATE		shepherd
	ry /	ril_		5/4/2018		ENGINEERING
- RE	.VIEWED BY	,		DATE		The state of the s

		DAILY SOI	LS CONS	TRUCTION RE	PORT	
PROJECT:	Cell 12 No	orth			DATE:	MAY 4, 2018
PROJECT NO.:	18024				DAY: S	M/ T W T F
CLIENT:	Waste Ma	anagement of A	rkansas - Eco ՝	Vista Landfill	WEATHER: 6	8°-77° FAii
CONTRACTOR:	CEG Con		***************************************			
REPORT BY:	Joe 5	hopper O		TIME ARRIVED	D: 07.00	TIME DEPARTED: 19:00
NUMBER WO	RKING	LISTEC	QUIPMENT	T	GENERAL	LNOTES
6		1-Excavator				- 1101 LU
			- 1-Dump		***	
		1-Tractor w/pA				
		1-Dump				
		1- Water pum	0			
VISITORS						
TIME	TIME NAME REPRESENTING					REMARKS
	ļ	**************************************				
FIELD PROBLEMS	WHICH COU	PULD RESULT IN		GE ORDER, OR CLAIN		of the call (Am).
SAMPLES SENT TO		T	r	·	1	
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
Josep L St	repa.			05/04/18 DATE		
- The	Sur Sur	d	-	5/8/2018 DATE		ENGINEERING DESIGN COMPANY INCOMPORATED

		DAILY SO	LS CONS	TRUCTION R	EPORT			
PROJECT:	Cell 12 N	Iorth			DATE:	May 5,2018	•	
PROJECT NO.:	18024				DAY: s	M T W T F	Is X	
CLIENT:	Waste M	anagement of A	rkansas - Eco	Vista Landfill	WEATHER:	3-77° Sumy	_1/\	
CONTRACTOR:	CEG Cor	nstruction			(NW) 5-10.	mpt Low humi, dity		
REPORT BY:	Joe	Sheppe, O		TIME ARRIVE	D: 07:00	TIME DEPARTED: P.O.	0	
NUMBER WOR	RKING	LIST EC	QUIPMENT		GENERAL NOTES			
6		1-Excavator	1-Dozers					
		1-Dump 1-Tr	rador w/pan					
	1-Sheeps foot							
								
VISITORS		-						
TIME		NAME	REI	PRESENTING		REMARKS		

				deall. COA; tell on North si Lift 3 m We		o fine Finsh pung 3 west slope, pulled o is filled in with ridnowy to the son	M.	
		West						
		**************************************			/			
SAMPLES SENT TO	LABORAT	ORY:						
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number		
L3-ST-3	.3			05/05/2018			l	
				·			I	
Joseph Shopp	ud TECHNICIAN			05/05/18 DATE		henheni		
11.	- 60	nist.		5/8/2018		ENGINEERING		
REV	VIEWED BY	w)		DATE	-	DESIGN COMPANY INCOMPORATED	155	

		DAILY SO	ILS CONS	TRUCTION RI	EPORT	
PROJECT:	Cell 12 N	orth			DATE:	May 6,2018
PROJECT NO.:	18024				DAY: s	M T F
CLIENT:		anagement of A	rkansas - Eco	Vista Landfill	WEATHER: 60	10°-80° Sumay
CONTRACTOR:	CEG Con	struction	****		5-10 mph	Low humicity
REPORT BY:	Joe E	Shepper D		TIME ARRIVE	D: 07.00	TIME DEPARTED: 17:00
NUMBER WO	RKING	LIST EC	QUIPMENT		GENERAL	. NOTES
<u> </u>		1-Excavator	1-Dump			
	1-Doze 1-minix 1-tnatow/pan 1-sheepsloot					
	1-Wata truck					
VISITORS						
TIME				PRESENTING		REMARKS
		Market 1987 1987 1987 1987 1987 1987 1987 1987				
CONOTOLOGICAL		01/1	1 / / 2 7	//		
				Sof day applied		callo prevent leachate use throughout the to the slopes of
SAMPLES SENT TO	LABORAT	ORY:			/	
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
L3-5T4,56	3			05/04/18		

		DAILY SO	LS CONS	TRUCTION R	EPORT	
PROJECT:	Cell 12 No	orth			DATE:	May 7,2018
PROJECT NO.:	18024				DAY: s	M/ T W T F
CLIENT:		anagement of A	rkansas - Eco	Vista Landfill	WEATHER: 2/	10.86° Sunny
CONTRACTOR:	CEG Cons				55W 2-5,	mph Med. humischiby
REPORT BY:	Joe	Shepper O		TIME ARRIVE	ED: 07:00	TIME DEPARTED: 19:00
NUMBER WOF	RKING	LIST EC	QUIPMENT		GENERAL	L NOTES
				AGG Aggrege	ate and Sun	
				COA took AGG	n sample.	al delivered today
			P			
	V	 			W	
VISITORS						
TIME	!	NAME		PRESENTING		REMARKS
	Clothny 1.	Moson	Mason Suy		Check grave	ele Sun Smal let
				70	0	· b g
 		7	1			uis on recessory
FIELD PROBLEMS	ЖНІСН СОІ	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLA	.IA	
					/	
SAMPLES SENT TO	LABORATO	ORY:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
148T-1,2,3	4			5/07/18	05/97/18	1808 6267 6657
14 BS 1+2	4			05/07/18	15/07/18	7808 6267 8581
PC:- AGIGI				05/07/18	05/07/18	7808 6269 1718
Joseph Sh	LEPPA (7		05/07-/18 DATE	- E	
JS REV	un /	Baily		5/8/2018	_	ENGINEERING DESIGN COMPANY INCOMPORATED

		DAILY SO	ILS CONST	TRUCTION RE	EPORT	
PROJECT:	Cell 12 N	Vorth			DATE:	May 118, 2018
PROJECT NO.:	18024				DAY:	$\begin{bmatrix} \mathbf{M}' & \mathbf{T} & \mathbf{W} & \mathbf{T} & \mathbf{F} \end{bmatrix}$
CLIENT:	Waste M	fanagement of A	Arkansas - Eco \	Vista Landfill	WEATHER:	2°-85° 5umny
CONTRACTOR:	: CEG Con	nstruction			10-15 mph	
REPORT BY:	Soe Si	Thegan O		TIME ARRIVE		TIME DEPARTED: 17:00
NUMBER WO	PKING	LIST E	QUIPMENT		GENERAL	
(0	131 343	1-Excavator			GENTLING	NOTES
		1-Trackon W/ pan	4			
*		77.	lise - Water truck	,†		
			Smooth Roller			
VISITORS						
TIME		NAME	REP	PRESENTING		REMARKS
	-					
	-					
FIELD PROBLEMS		DULD RESULT IN		GE ORDER, OR CLAII	IN	
SAMPLES SENT TO	O LABORAT	FORY:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
14-05-1	4			15/08/18,	15/08/18	
L4 ST 4,5,6	4			05/08/18	05/08/18	
Joseph 2	Charges L A VECHNICIAN			05/08/18		
Thy	- Baul	<i>'</i>		5/14/16/ DATE	_	SIEDHERU ENGINEERING

	1	DAILY SOI	LS CONST	RUCTION RE	:PORT			
PROJECT:	Cell 12 No	orth			DATE:	MM 9, 2018		
PROJECT NO.:	18024				DAY:	M T W T F S		
CLIENT:		anagement of Ar	rkansas - Eco V	/ista Landfill	WEATHER: 65	(°-88° 5cmny		
CONTRACTOR:	CEG Con				55E 5-10	TIME mad frumiclity		
REPORT BY:	Joe &	Sheppa Q		TIME ARRIVED	D: 07:00	TIME DEPARTED: 19:00		
NUMBER WOF	RKING	LIST EC	QUIPMENT	T	GENERAL NOTES			
6		19xx avator		·		NO INC.		
		V-Smooth Kaller	1					
		1-WaterTruck						
		2-Duzers						
VISITORS								
TIME		NAME	REPI	RESENTING		REMARKS		
	<u> </u>					Chaire at the same		
CONSTRUCTION A	ACTIVITIES:	: Recieving n	notorial in the	e poul ara and	parling out	Relmaterial		
- Some gracling	g and sn	rooth rolling.	of cell 12.	e poul ara and. Also Watering				
<i>U</i> =		<i>U v</i>	7	ν				
		·-						
			M. P. C.		***************************************			

FIELD PROBLEMS	WHICH CC	OULD RESULT IN	DELAY, CHANG	SE ORDER, OR CLAIR	ı N			
			•	,	1			
	*****				PARTITION OF THE PARTIT			
					/			
SAMPLES SENT TO) LABORA7	rory:						
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number		
<u> </u>	Bass of the Control o	110		Vanpio	Olub ====	Hacking (variable)		

-					 			
								
$\overline{}$	1	£			<u></u>			
(Joseph &	Theppe V		-	05/09/18				
/ / GWA	. TROHNICIAN			DATE	E	shepherd		
	Z	Bail		5/14/2018	100	ENGINEERING		
RE	EVIEWED BY	eary	-	DATE	, 0	DEEIGH GOMPANY INCOMPONATED		

		DAILY SO	LS CONS	TRUCTION RE	PORT	
PROJECT:	Cell 12 N	orth			DATE:	MAY 10,2018
PROJECT NO.:	18024				DAY: s	M T F S
CLIENT:		anagement of A	rkansas - Eco '	Vista Landfill	WEATHER: 60	60-86 Sunny
CONTRACTOR:					55E 5-15	mph med humidity
REPORT BY:	1 Gos	hepper 0	**************************************	TIME ARRIVED): 07:00	DEPARTED: 19:00
NUMBER WO	RKING	LIST EC	QUIPMENT		GENERA	L NOTES
4		1-Excavator	1-Dump	Contr Construe		
		1-Tractor w/pan		Johnny Mason	will be out	+ tomorracto for
*** *********************************		1-5mooth sol	/	Certification of	of coll ce	.//
	****	1- Wister Truck	<u>k</u>			
VISITORS		<u> </u>				
TIME		NAME		PRESENTING	 , 	REMARKS
9:45-10:45	Bryan I.	miley	Shopher Ing	gineenium Besign Co.	for constru	uchon marting
FIELD PROBLEMS	S WHICH CC	OULD RESULT IN	V DELAY, CHAN	GE ORDER, OR CLAI	n	
SAMPLES SENT TO	O LABORA	FORY:			/	
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
Anaphic	Shayres I A TEMNICIAN			05/10/18 DATE		Shephero
	y /h EVIEWED BY	nil.	-	5/4/218 DATE		DEELGH COMPANY INCOMPONATED

		DAILY SOI	LS CONST	RUCTION RE	PORT	
PROJECT:	Cell 12 No	orth			DATE:	May 11, 2018
PROJECT NO.:	18024				DAY: s	M T F S
CLIENT:	Waste Ma	nagement of Ar	kansas - Eco V	/ista Landfill	WEATHER: 65	°-85° Sumny
CONTRACTOR:	CEG Cons				(south) (5-20m)	of Med, humidity
REPORT BY:	Joe 3	hoppord		TIME ARRIVE		TIME DEPARTED: A:W
NUMBER WOR	RKING	LIST FO	UIPMENT	T	GENERAL	NOTES
4		1-Excavator e			GENERAL	. 1101 E3
		1-Dump 1-To				
		1-minix	20,007,7	***************************************		
VISITORS TIME		NAME	PEDI	RESENTING		DEMADICO
a time	/	MASON			7011	REMARKS
	Johnny 1	MASON	Mason Sin	vegenz-	Tolestif	s cell clay I men
CONSTRUCTION A	CTIVITIES:	Started place	ing material	in the small to	Le eastend	working westward
Continue to	1902 ÖVÇ	meterial kin	n Baker str	borrow man	And catur	rum redmaterial
to borrow si	,	- //		necessary con		1
1. ,	, ,,	nacla et Ce	2m / 1/	` '		sletuel today
Ashmo we	Il be b	ick tomorra		J- Capaza.	· · · · · · · · · · · · · · · · · · ·	perior song
1 117						
					-	٠.
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHANG	E ORDER, OR CLAI	۸	
					/	
SAMPLES SENT TO	LABORAT	ORY:			1	
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
Margal Sla	apport			05/11/2018		
CON CON	VECHNICIAN			DATE		henhend
M)	2-1				ENGINEERING
	VIEWED BY	rul,	-	5/14/2018 DATE		DESIGN COMPANY INCORPORATED

		DAILY SOI	LS CONST	TRUCTION RE	PORT	
PROJECT:	Cell 12 No	iorth			DATE: ,	May 12, 2018
PROJECT NO.:	18024			**************************************	DAY:	
CLIENT:			Arkansas - Eco V	Vista Landfill	WEATHER:	50-86° Postly Cloudy, Frin
CONTRACTOR:	CEG Cons	nstruction			South 15-0	Sompt mal humidity
REPORT BY:	Joe 5	Theppor O		TIME ARRIVED	D: 07-00	TIME DEPARTED: 19:00
NUMBER WOR	RKING	LIST EC	QUIPMENT	7	GENERAL	NOTES
5	44 541	····	2-lozers	Mohum ads co		anxing lunch tome
		1-Dump 1-4	tractor/pm	00	W Con H	anymed humon humon
		1-Water Truc				

VISITORS TIME	<u> </u>	NAME	REP	PRESENTING	7	
1 3 mm	Adman M	****			AUALIS	REMARKS
	LOOMOU,	/lAson	Mason Suu	reding	THE KINE	
	1			,		
CONSTRUCTION A	ACTIVITIES	· Pall is Ca	stilied &	atite Pombinaso for	I has hi	1. I-ble and the same
Man Worke	lem	1 La count	1/4/cecs -	tto LUMITIMARE,	place you	not lift on the pond
41001	ng from c	east to weve.	-			
-		A	- 17.11 t			
		,				
-						
					-	
						
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	I DELAY, CHANG	GE ORDER, OR CLAIM	Λ	
***************************************				****		
SAMPLES SENT TO	<u> </u>				, r	
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
<u> </u>		[
· · · · · · · · · · · · · · · · · · ·		[
				1		
				[
1 151	1 1			112		
- Coaph Tog	PECHNICIAN			05/12/18 DATE	- F	- This is a
B	1				1	SNEDNERO ENGINEERING
They	Bus	ly	<u>.</u> ,	5/14/2018	- -	DESIGN COMPANY INCOMPONATED
/ KE	VIEWED BY			DATE		MEGICAL GEOGRAPHICA CONTRACTOR OF THE CONTRACTOR

PROJECT:					- Anna Alian	
	Cell 12 N	orth			DATE:	MAY 13, 2018
PROJECT NO.:	18024				DAY: S	M/ T W T F
CLIENT:	Waste Ma	anagement of Ar	kansas - Eco Vi	sta Landfill	WEATHER: 66-	88° Simny
CONTRACTOR:	CEG Con					med hunicity
REPORT BY:	Joseph	Shopport		TIME ARRIVE	07:00	TIME DEPARTED: 19:00
NUMBER WOI	RKING	LIST EQ	UIPMENT		GENERAL	NOTES
7		1-Excavator			January	NOTES
SUZIE, DANA, Frank, W	ill matt	1-Tractow pan				
Union, Baylan		1- Writer truck				
VISITORS						
TIME		NAME	REPR	RESENTING		REMARKS
FIELD PROBLEMS	WHICH CO	OULD RESULT IN	DELAY, CHANG	E ORDER, OR CLAI	IA.	
FIELD PROBLEMS	wнісн сс	OULD RESULT IN	DELAY, CHANG	E ORDER, OR CLAI	IN_	
			DELAY, CHANG	E ORDER, OR CLAI	IN	•
			DELAY, CHANG	E ORDER, OR CLAI	Ship Date	Tracking Number
SAMPLES SENT TO	O LABORA	TORY:			-	Tracking Number
SAMPLES SENT TO	O LABORA	TORY:			-	Tracking Number

		DAILY SOIL	S CONST	RUCTION REP	PORT	
PROJECT:	Cell 12 No	orth			DATE: /	DAN 14, 2018
PROJECT NO.:	18024				DAY: S	M T W T F S
CLIENT:	Waste Ma	nagement of Ar	kansas - Eco V	ista Landfill	WEATHER: 47	0-880 Sunny
CONTRACTOR:	CEG Cons					
REPORT BY:	Jo	seph Shep	perQ	TIME ARRIVED:	07.00	TIME DEPARTED: 19:30
NUMBER WOR	RKING	LIST EQ	UIPMENT	I	GENERAL	NOTES
CEG 7				Rock delivered		
TEP 34?		1-watertruck 1-skilsteer	-skytrack finklift	Pipe is being	welled	
VISITORS						
TIME		NAME	REPR	RESENTING		REMARKS
-						
end of the dell.	lang . PAY	nols 1-24 an	o deployed and the back	nd welded. 5/5	econday 1	loys from 13:00 the iner
SAMPLES SENT TO	O LABORAT	ORY:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
						3

		DAILY SOIL	S CONST	RUCTION RE	PORT	
PROJECT:	Cell 12 No	orth		-	DATE:	MAJ 15, 2018
PROJECT NO.:	18024				DAY: S	M T W T F S
CLIENT:	Waste Ma	anagement of Ar	kansas - Eco V	/ista Landfill		0-850 Partly Cloudy
CONTRACTOR:	CEG Con	struction			N-5-10m	seh mort think humidi
REPORT BY:	Joe	Shepperd		TIME ARRIVED	07:00	TIME DEPARTED: 19:00
NUMBER WOR	RKING	LIST EQ	UIPMENT	T	GENERAL	NOTES
CEG 20		1-Excavator	2-Dozens	13-		
TEP = ? 30)	1-Skytrack forkly		Rained monde	an aight	
		1-Skielsteer	-water track			in welcled (continued
				All geomenonan	e experted y	has been recieved.
VISITORS						
TIME		NAME	REP	RESENTING		REMARKS
						10710
- Jeomanna y	10 2 17 101	e teachate Im	le ABCK dolue	GE ORDER, OR CLAI	4 phlleel.	n area for use in s of 60 mills No lines deployed
SAMPLES SENT TO	LABORAT	ORY:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
Oman	J. Shown	a. ()		15-15-18		
Bu	A TECHNICIAN SEVIEWED BY	w.		05-15-18 DATE 5/18/2018		Shepherd ENGINEERING DESIGN COMPANY INCOMPORATED

	-					
PROJECT:	Cell 12 N	North			DATE:	Man 11 2018
PROJECT NO .:	18024				DAY: S	MAY 16, 2018
CLIENT:	Waste M	lanagement of A	Arkansas - Eco Vis	sta Landfill	1	2º82° Pavetty Cloudy
CONTRACTOR:	CEG Cor	nstruction	THE TOUR LOO VIS	sta Landilli	1/1/10/2	Total party Cloudy
REPORT BY:	Ope	Shappen O		TIME ARRIV	ED: 07:00	TIME DEPARTED: 16 00
NUMBER WOR	SKING	LIST	Olumber I			
CEG - 6	arango.		QUIPMENT	57 1 6	GENERA	LNOTES
TEP -		2-Dozers 1-		Tested ponc	I grist light	, too dry.
1.01			Skylm k forklight			0
		DI Tackor W/	san I- Nater fructo			
		1- Skidsteer				
VISITORS		I F STUSTEET				
TIME		NAME	REPRE	SENTING		REMARKS
						KEMAKKS
COAs	hips das	structs DS	5-1-14 Coff	earlies due to	nain.)	
Cans	hips plan	tructs DS	5-1-14 Coff o	erslag due to	rain.)	
ELD PROBLEMS V	vhich co	ULD RESULT IN	5-1-14 Coff o	erslag due to	rain.)	
ELD PROBLEMS V	vhich co	ULD RESULT IN	5-1-14 Coff o	erslag due to	aain.)	
ELD PROBLEMS V	VHICH CO	ORY:	DELAY, CHANGE	ORDER, OR CLA	Ship Date	Tracking Number
ELD PROBLEMS V	VHICH CO	ORY:	DELAY, CHANGE	ORDER, OR CLA	aain.)	Tracking Number
MPLES SENT TO Sample No., 22 /-SF)	VHICH CO	ORY:	DELAY, CHANGE	ORDER, OR CLA	Ship Date	Tracking Number 7810024 85532
ELD PROBLEMS V	VHICH CO	ORY:	DELAY, CHANGE	ORDER, OR CLA	Ship Date	Tracking Number
AMPLES SENT TO Sample No. , OSS-/-/48 PL/-SF)	VHICH CO	ORY:	DELAY, CHANGE	ORDER, OR CLA	Ship Date	Tracking Number 7810024 85532
AMPLES SENT TO Sample No. DSS-/-/48 PL/-SF-/	VHICH CO	ORY:	DELAY, CHANGE	ORDER, OR CLA	Ship Date	Tracking Number 7810024 85532
AMPLES SENT TO Sample No. PL 1-ST 1 BS-1	VHICH CO	ORY:	DELAY, CHANGE	ORDER, OR CLA	Ship Date	Tracking Number 7810024 85532
AMPLES SENT TO Sample No. PL 1-571 BS-1	VHICH CO LABORAT Lift No.	ORY:	DELAY, CHANGE Easting	ORDER, OR CLA	Ship Date	Tracking Number 7810024 85532

			ILS CONST		EPURI ,	
PROJECT:	Cell 12 N	North			DATE:	May 12 2018
PROJECT NO .:	18024				DAY: S	MAY 17, 2018
CLIENT:	Waste M	lanagement of A	rkansas - Eco V	/ista Landfill		8°-81° Sunny
CONTRACTOR:	CEG Cor	nstruction		Total Latin	5mph se	Sw, hist wall have
REPORT BY:	Joe ?	Shapparo		TIME ARRIVE	D: 07:00	TIME DEPARTED:
NUMBER WOR	RKING	LISTE	QUIPMENT		GENERAL	NOTES
CEG	le	1-minix				110100
		1-Skytrack	forklift			
VISITORS						
TIME		NAME	REPR	RESENTING		REMARKS
MiniX Co	CTIVITIES atinces	Lines Crow North Anch	some dean	p. Too wet I	for them to	deploy today
				E ORDER, OR CLAI		deploy today
ELD PROBLEMS	wнiсн со	OULD RESULT IN				deploy today
	wнiсн со	OULD RESULT IN				deploy today

PROJECT NO.:	Cell 12 I	MOLLII			DATE:	No. 18 2018
	18024				DAY:	MAY 18 2018
CLIENT:	Waste M	flanagement of	Arkansas - Eco V	ista Landfill		50-85° Sunny,
CONTRACTOR:	CEG Co	nstruction		ista Lanumi	5F 50	Jenny,
REPORT BY:	Joe	Shopperd		TIME ARRIV	ED: 07:00	TIME DEPARTED:
NUMBER WO	RKING	LISTE	QUIPMENT			
CEG	6	1-skidsteer	The state of the s		GENERA	L NOTES
TEP	7	1-Excavator	1-Skytuck forklift			
description of the second of t						
/ISITORS						
TIME		NAME	REPR	ESENTING		REMARKS
						A of the sump.
ELD PROBLEMS (мнісн со	OULD RESULT IN				
ELD PROBLEMS (WHICH CO	OULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	AIN_	
ELD PROBLEMS (MPLES SENT TO Sample No.	мнісн со	OULD RESULT IN			Alli Ship Date	Tracking Number
LD PROBLEMS I	WHICH CO	OULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	AIN_	
ELD PROBLEMS (MPLES SENT TO Sample No.	WHICH CO	OULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	Alli Ship Date	Tracking Number
ELD PROBLEMS I	WHICH CO	OULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	Alli Ship Date	Tracking Number
ELD PROBLEMS (MPLES SENT TO Sample No.	WHICH CO	OULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	Alli Ship Date	Tracking Number
AMPLES SENT TO Sample No.	WHICH CO	OULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	Alli Ship Date	Tracking Number
MPLES SENT TO Sample No.	WHICH CO	OULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	Alli Ship Date	Tracking Number
ELD PROBLEMS N	WHICH CO	OULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	Ship Date	Tracking Number

PROJECT:	Cell 12 N	Jorth			1 1	
PROJECT NO.:	18024	NOIGH			DATE:	MAY 19,2018
CLIENT:		lauanumi r r			DAY:	
CONTRACTOR:	CEG Cor	nstruction	Arkansas - Eco Vi	sta Landfill		30-85° Sunny,
REPORT BY:	1		6		5-10mp	TIME
- OIL DI.	Jos	eph Sheppe	rd	TIME ARRIVI	ED: 07:00	DEPARTED: 19:0
NUMBER WOR	RKING	LIST E	QUIPMENT		GENERAL	NOTES
CEG: 6		1-Excavator	Shytrack forklight		OLIVLIVA	LINOTES
TEP:		1-Skielsteer 2	- Dozers			
		1-Dump 1-Th	actor report			
ISITORS						
TIME		NAME	REPRI	ESENTING		REMARKS
gladle, Itis	abot 4	MCK. IF Alou	al being reloc	ated to thing	LE CALAS.	
ELD PROBLEMS V	V НІСН СО	ULD RESULT IN	DELAY, CHANGE			
LD PROBLEMS V	V НІСН СО	ULD RESULT IN			IA_	
LD PROBLEMS V	VHICH CO	ULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA		Tracking Number
LD PROBLEMS V	VHICH CO	ULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	IA_	
LD PROBLEMS V	VHICH CO	ULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	IA_	
ELD PROBLEMS V	VHICH CO	ULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	IA_	
ELD PROBLEMS V	VHICH CO	ULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	IA_	
ELD PROBLEMS V	VHICH CO	ULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	IA_	
MPLES SENT TO	VHICH CO	ULD RESULT IN	DELAY, CHANGE	ORDER, OR CLA	Ship Date	

PROJECT:	Cell 12 N	Jorth			1	-1
PROJECT NO.:	18024	4OI (II			DATE:	MAJ 20, 2018
CLIENT:	1				DAY:	
CONTRACTOR:	CEG Cor	lanagement of A	\rkansas - Eco \	/ista Landfill		ole - 81° Cloudy
REPORT BY:	1	Shopper O		TIME ARRIVE	N 3mph D: 07:00	TIME 13:00 crews
	1 0000	a toplace			01,00	DEPARTED: 16:00
NUMBER WO		LIST E	QUIPMENT		GENERA	L NOTES
CEG:	5	1-Exeavator				
TEP!		1-Tractoral	PAN			
VISITORS						
TIME		NAME	REP	RESENTING		REMARKS
PL-1-BS	243.	Tie in welc	ls completed	on Swondary	Lines,	omel Bag samples
				E ORDER, OR CLAIR		met DAG SAMPLES
						omet DAG SAMPLES
IELD PROBLEMS	wнich co	OULD RESULT IN				omer DAG SAMPLES
ELD PROBLEMS	wнich co	OULD RESULT IN				Tracking Number
ELD PROBLEMS	WHICH CO	OULD RESULT IN	DELAY, CHANG	E ORDER, OR CLAII		
IELD PROBLEMS	WHICH CO	OULD RESULT IN	DELAY, CHANG	E ORDER, OR CLAII		
IELD PROBLEMS	WHICH CO	OULD RESULT IN	DELAY, CHANG	E ORDER, OR CLAII		
IELD PROBLEMS	WHICH CO	OULD RESULT IN	DELAY, CHANG	E ORDER, OR CLAII		

PROJECT:	Cell 12 No	orth			DATE:	May 21 2018
PROJECT NO .:	18024				DATE:	MAY 21,2018
CLIENT:	Waste Ma	nagement of A	rkansas Eco	Viota Landfill		1 = 81 ° 55W 2-5 mph
CONTRACTOR:	CEG Cons	struction		vista Landilli	Papelly Clou	cely/Fair Mad, humico
REPORT BY:	Joseph	Shopperd		TIME ARRIV	ED: 07:00	TIME DEPARTED: 19:00
NUMBER WO	RKING	LIST FO	QUIPMENT	10.00	051155	
CEGIE	5		and in Livi	TO P AL	GENERA	
TEP:				DIP SAP COL	Wered and	installed in Sed ,
				& 42' pipe .	from the bus	sk of londfill
				1		0
ISITORS						
TIME		NAME	REF	PRESENTING		REMARKS
Road BASI	insalle	6-350-6 1 for soul	on top of	Levey at West	t and of Se	Afternoon sam. Throughout de lag.
				Levey at West		Moughout de lag.
ELD PROBLEMS	W НІСН СОІ	JLD RESULT IN				Moughout de lay.
	W НІСН СОІ	JLD RESULT IN	DELAY, CHAN	GE ORDER, OR CLA	AIN_	
ELD PROBLEMS MPLES SENT TO Sample No.	WHICH COL	JLD RESULT IN			Ship Date	Tracking Number
ELD PROBLEMS	WHICH COL	JLD RESULT IN	DELAY, CHAN	GE ORDER, OR CLA	AIN_	

PROJECT:		DAILY SO		200 Table 10	0111	
	Cell 12 N	lorth			DATE:	May 22, 2018
PROJECT NO.:	18024				DAY:	
CLIENT:	Waste M	anagement of A	Arkansas - Eco	Vista Landfill	WEATHER: 64	10.850 FAIN
CONTRACTOR:	CEG Cor				ESE 2	TIME mod humidity
REPORT BY:	Joe	2 Shapper D		TIME ARRIVED	0: 07:00	DEPARTED: 19:0
NUMBER WOR	RKING	LIST E	QUIPMENT		CENEDA	LNOTEO
CEG-	6	1-Excavator		H1.101	GENERA	
TEP		1-WAterTru		Cell.	n acc geo	composite to finish
				- Corr		
VISITORS						
TIME		NAME	REI	PRESENTING		REMARKS
Only stockpo	ling C	Hay muteria	/.			0 00
		rig Innicoria	£ u	GE ORDER, OR CLAIM		
IELD PROBLEMS V	WHICH CO	ULD RESULT IN	£ u			
AMPLES SENT TO	WHICH CO	ULD RESULT IN	£ u			
AMPLES SENT TO Sample No.	VHICH CO	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLAIN		Tracking Number
AMPLES SENT TO Sample No.	VHICH CO	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLAIN		
TELD PROBLEMS V	WHICH CO	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLAIN		Tracking Number 78/0 5500 00 28

PROJECT:	0-11 40 -	1				
	Cell 12 N	North			DATE:	MAY 23, 2018
PROJECT NO.:	18024				DAY:	M V T
CLIENT: CONTRACTOR:	Waste M	lanagement of A	Arkansas - Eco	Vista Landfill	WEATHER: 65	= 81° Parelly Cloudy
		nstruction			E 2-50	TIME 1
REPORT BY:	Joe	Shapper O		TIME ARRIVE	D: 07:00	DEPARTED: 143
NUMBER WOR	RKING	LISTE	QUIPMENT		GENERA	LNOTES
CEG:	6		1-skidsteer	2-Touch 1		
TEP: 21		1- Water Fru	orklift	All destructs	PASSED / A	are hong
VISITORS						
TIME		NAME	REI	PRESENTING		REMARKS
1000						
ELD PROBLEMS	WHICH CO	ULD RESULT IN		GE ORDER, OR CLA		
ELD PROBLEMS	WHICH CO	ULD RESULT IN				
ELD PROBLEMS	WHICH CO	ULD RESULT IN		GE ORDER, OR CLAI	IN	
ELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHAN			Tracking Number
AMPLES SENT TO	WHICH CO	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLAI	IN	
IELD PROBLEMS I	WHICH CO	OULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLAI	IN	Tracking Number

		DAILY SOI	L9 COM9 I	KOCHON KE	PORT	
PROJECT:	Cell 12 N	orth			DATE:	MAY 24, 2018
PROJECT NO .:	18024				DAY: s	M T W T
CLIENT:	Waste Ma	anagement of Ar	rkansas - Eco V	ista Landfill	WEATHER: 65	- 85° Mostly Cloudy
CONTRACTOR:	CEG Con	struction			SELEMPH	med. humidity
REPORT BY:	Joes	Shopper O		TIME ARRIVE	07:00	TIME DEPARTED: 19:00
NUMBER WO	RKING	LIST EQ	UIPMENT		GENERAL	NOTES
CEG: 4	1	1-Excavator			Wall that to the	110120
TEP: 25		1-skytrach fork 1-Bebent 18.	1- Dump			
VISITORS						
TIME		NAME	REPF	RESENTING		REMARKS
	0		MCK 5+4121	to eligibly zeoc	omposite (o	installing nock.
				SE ORDER, OR CLAI		700)
TELD PROBLEMS	s wнісн сс	DULD RESULT IN				900)
TIELD PROBLEMS	WHICH CO	OULD RESULT IN		SE ORDER, OR CLAI		900)
TELD PROBLEMS	s wнісн сс	DULD RESULT IN				Tracking Number

ruction Noppor S	leff	TIME ARRIVE	DATE: DAY: WEATHER: 65 5540-10 D: 07-00 GENERAL	MARY 25, 2018 M T W T EX C. 85° PARTLY Cloudy Comph, Mad Humidity TIME DEPARTED: 19:00
LIST EQ LIST EQ LEXCAVA ISI LEXCAVA ISI LEXCAVA LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAV	UIPMENT I-mini X lff I-Dozen	TIME ARRIVE	DAY: S WEATHER: 65 5510 - 10	on the most of the state of the
LIST EQ LIST EQ LEXCAVA ISI LEXCAVA ISI LEXCAVA LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAV	UIPMENT I-mini X lff I-Dozen	TIME ARRIVE	D: 07-00	omph, Med Humility TIME DEPARTED: 19:00
LIST EQ LIST EQ LEXCAVA ISI LEXCAVA ISI LEXCAVA LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAVA ISI LEXCAV	UIPMENT I-mini X lff I-Dozen	TIME ARRIVE	D: 07-00	TIME DEPARTED: 19:00
LIST EQ 1-Excava for 1-Skylrack fork 1-Skidsteer 1-Dump	I-mini X lff I-Dozen			
1-Excava box 1-Skylrack fork 1-Skicksteen 1-Demop	I-mini X lff I-Dozen		GENERAL	NOTES
1-Excava box 1-Skylrack fork 1-Skicksteen 1-Demop	I-mini X lff I-Dozen	TOTAL NO.		
-Skytrack fork. -Skicksteer -Dump	lff 1-Dozen	TOTAL NO.		
-Skidsteer -Dump	1-Dozen	TOTAL NO.		
	REPF	PEOENTING		
AME	REPR	PECENTING		
AME	REPR	COENTINO		
	11011	CESIENTINES		DEMARKS
		CLOENTING		REMARKS
				working.
RY:				
Northing	Easting	Sample Date	Ship Date	Tracking Number
			Jimp Date	Tracking reamper
		95-25-2018 DATE		shephead
	D RESULT IN	D RESULT IN DELAY, CHANG	D RESULT IN DELAY, CHANGE ORDER, OR CLAI	

			LS CONST			
PROJECT:	Cell 12 No	orth			DATE:	Mai 26 2018
PROJECT NO .:	18024				DAY: S	MAY 26 2018
CLIENT:	Waste Ma	anagement of A	rkansas - Eco V	/ista Landfill		10 90° Summ
CONTRACTOR:	CEG Con	struction	200 0	note Euriaini	1,35/12 2-	Smal mal has all
REPORT BY:	Joe!	Shopperd		TIME ARRIVE	D: 07:00	Smpt med humidity TIME DEPARTED: 19:00
NUMBER WOR	KING	LISTEC	QUIPMENT		OFFICE OF	
CEG:	-	1-Exemps to			GENERAL	NOTES
TEP: 20	017-20	1- Auma 1-54.	bad lokill			
		1-Dump 1-5ky	mer gringer			
VISITORS		NAME	1			
TIME		NAME	REP	RESENTING		REMARKS
on the monder	on D.	mit unel.	ROAD DASE	singed on line	dfill now V.	howling and squeac
				SE ORDER, OR CLA		To bee sprend love
TELD PROBLEMS \	WHICH CO	ULD RESULT IN				To bee sprend loom
TELD PROBLEMS V	WHICH CO	ULD RESULT IN				To bee sprend loom
TELD PROBLEMS \	WHICH CO	ULD RESULT IN				To bee spread lame
FIELD PROBLEMS V	LABORAT	ULD RESULT IN	DELAY, CHANG	E ORDER, OR CLA	Ship Date	Tracking Number
SAMPLES SENT TO Sample No.	LABORAT	ULD RESULT IN	DELAY, CHANG	SE ORDER, OR CLAI	Ship Date	

PROJECT:	Cell 12 No	orth			DATE:	Max 27 2018
PROJECT NO .:	18024				DAY: S	MAY 27. 2018 X M T W T F
CLIENT:	Waste Ma	anagement of A	rkansas - Eco \	/ista Landfill		5°-85° Simny
CONTRACTOR:	CEG Con	struction			5-10 mph	mal humility
REPORT BY:	Joes	Shapper O		TIME ARRIVE	D: 07.00	mal humility TIME DEPARTED: 18:0
NUMBER WOR	RKING	LISTE	QUIPMENT	T	CENEDAL	NOTEO
CEG: 3		1-Exemulton			GENERAL	NOTES
			1-Dump			
VISITORS						
TIME		NAME	REPI	RESENTING		REMARKS
WATER TRUCK BY	roke, ba	nowal Innd	fell writes true	k. Spied Spr	sad imd c	lry yesterday.
				K. Spied Spi		comparted Roady
						comparted Roady
IELD PROBLEMS	wнich co	ULD RESULT IN				comparted Roady
IELD PROBLEMS	wнich co	ULD RESULT IN				Tracking Number
FIELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLA	IN	
TELD PROBLEMS	WHICH CO	ULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLA	IN	

	1	DAILY SOI	LS CONS	RUCTION R	EPORT	
PROJECT:	Cell 12 N	North	11100		DATE:	May 29, 2018
PROJECT NO.:	18024				DAY: S	MO T W T F
CLIENT:	Waste M	lanagement of A	rkansas - Eco	/ista Landfill	WEATHER:	6. 89° Partly Cloud
CONTRACTOR:	CEG Co	nstruction			ESE 4mp	h mod humichter
REPORT BY:	Joe	Shappand		TIME ARRIVE		TIME DEPARTED: 19:00
NUMBER WOF	RKING	LISTE	QUIPMENT		CENEDAL	NOTES
CEG ::		2-Skidsteers			GENERAL	NOTES
		1-minix 1-1				
		1-water truck				
		1-Skytrach forkle				
		To forte	71			
VISITORS						
TIME		NAME	REP	RESENTING		REMARKS
	-					
TELD PROBLEMS	wнісн сс	DULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLA	NIN	
AMPLES SENT TO	LABORA	TORY:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
D5-1-12				- unipio Duto	111	/
					05/09/18	781/7896 6104
					05/29/18	1811 1897 5462
Angot, She	ppe, D ECHNICIAN			05/23/2018 DATE		-benkend
By	Sin VIEWED BY			05/23/2018 DATE		Shepherd ENGINEERING

		DAILY SO	LS CONST	RUCTION R	EPORT	
PROJECT:	Cell 12 N	lorth			DATE:	May 3/2 2018
PROJECT NO .:	18024				DAY: S	MAY 30,2018
CLIENT:	Waste M	anagement of A	rkansas - Eco V	ista Landfill		" 90° Sumny
CONTRACTOR:	CEG Cor	nstruction			ESE 5-1	onal meling build
REPORT BY:	J	Se Shoppen	0	TIME ARRIVE	ED: 07.00	TIME DEPARTED: 1900
NUMBER WOR	RKING	LISTE	QUIPMENT		OFNEDAL	Works
CEG: 4	-		1-watertruck		GENERAL	NOTES
TEP: 20		1-Tractor w/pA				
		1-Skytrach for	41:11			
		1-skilstoer	FIOT			
All Control of the Co						
VISITORS			_			
TIME		NAME	REPR	ESENTING		REMARKS
FIELD PROBLEMS	WHICH CO			EORDER OR CLA		
AMPLES SENT TO	LABORAT	ORY:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
PL DS-9A49B		3		ounipie Date	05-30-18	Tracking Number
DS-13-15					03-30-10	18/19900 5301
Angol S	TECHNICIAN)		05/30/18 0/1/2018		shephepd
134	1 Sun	7		6/1/2018		ENGINEERING
REI	/IEWED BY	,	-	DATE	-	DESIGN COMPANY INCOMPONATED

		DAILY SOI	LS CONST	RUCTION RE	EPORT	
PROJECT:	Cell 12 N	orth			DATE:	May 31 2018
PROJECT NO.:	18024				DAY: s	M T W TX F
CLIENT:	Waste M	anagement of A	rkansas - Eco \	/ista Landfill	WEATHER: 65	1-88° Cloudy w/some su
CONTRACTOR:	CEG Cor				SW 8 mph	modly humidity
REPORT BY:	Jo	e Shappard		TIME ARRIVE	D: 07:00	DEPARTED: 19:00
NUMBER WOR	RKING	LIST EG	UIPMENT		GENERAL	NOTES
CEG: 3			1-water truck		GLIVLINAL	140125
TEP- 17		1-Sky track for				
		1-Dozer 1				
VISITORS						
TIME		NAME	REP	RESENTING		REMARKS
and marked	PA finis last 3	ches som si clustructs	сттаку, ALI 05-25-27	tests and unecu	um lests of	fell in from putting pary lines in Ancho t 12:00 pm primary Luies.
SAMPLES SENT TO	LABORAT	ORY:				
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
				Gumple Date	Omp Date	Tracking Number
Jorgoh	Shappe	0		05/31/08 DATE		shephepd
	7	1		6/1/248		ENGINEERING
RE	VIEWEDBY	They	-	6/1/2/8 DATE		DESIGN COMPANY INCOMPONATED

		DAILY SOI	LS CONST	RUCTION R	EPORT	
PROJECT:	Cell 12 N	lorth			DATE:	June 1,2018
PROJECT NO.:	18024				DAY: S	M T W T F S
CLIENT:	Waste M	lanagement of A	rkansas - Eco V	/ista Landfill		0.92° Parethy Cloudy
CONTRACTOR:	CEG Cor	nstruction		iota Larianii	E 3-10,	mph High tomal humility
REPORT BY:	Joe:	Shapperd		TIME ARRIVE	D: 07.00	TIME DEPARTED: 20:00
NUMBER WO	RKING	LIST EC	UIPMENT	1	GENERAL	NOTES
CEG:		1-Excavator			GENERAL	NOTES
TEP:1		1-Water bruck				
		1- Skytrack for				
VISITORS						
TIME		NAME	PEDI	RESENTING		DEMARKS
		1000	NEF	KESENTING		REMARKS
						ung GCL and primary all chock on first lift.
FIELD PROBLEMS	WHICH CO	DULD RESULT IN	DELAY, CHANG	SE ORDER, OR CLA	NIN	
SAMPLES SENT TO	AL ABODA	TORY				
			e	20.00202020	To an	
Sample No. 05-16-21	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
1)0-/6-21					06/01/18	
Joseph S.	happer O	7		06/01/18 DATE		shepherd
1/20	VIEWED BY	7	-	6/5/2-18 DATE	-	ENGINEERING

ROJECT:	Cell 12 N					1 0 - "
PROJECT NO.:	18024	iortn			DATE: (June 2, 2018
CLIENT:	100000				DAY:	
CONTRACTOR:	CEG Cor	anagement of A	rkansas - Eco \	/ista Landfill		0-88 " Sunny / w Cloud
	-			1	5-10-20 mph	High mod humicolity
REPORT BY:	Joe	Shepper O		TIME ARRIVE	D: 07:00	DEPARTED: /8:00
NUMBER WOR		LISTEG	QUIPMENT		GENERAL	NOTES
CEG: 3		1-Excavator	1-porer			
TEP: 17		1-skylinch fork	tiff			
		1-Water truck	1. skidsteer			
VISITORS						
TIME		NAME	REP	RESENTING		REMARKS
westen . Every Thursday	thing i	n the cost sid	has cell to	line up the gested.	ecomposite	contune Leploying deployed from the
1100 3000				line up the ge		deployed from the
TELD PROBLEMS	wнich co	DULD RESULT IN				deployed from the
TELD PROBLEMS	WHICH CO	OULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLAI		deployed from the
IELD PROBLEMS	wнich co	DULD RESULT IN				Tracking Number
FIELD PROBLEMS	WHICH CO	OULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLAI	N_	
FIELD PROBLEMS	WHICH CO	OULD RESULT IN	DELAY, CHANG	GE ORDER, OR CLAI	Ship Date	

		DAILY SOI				
PROJECT:	Cell 12 N	orth			DATE:	Auno 3 2018
PROJECT NO.:	18024				DAY: S	June 3, 2018
CLIENT:	Waste Ma	anagement of A	rkansas - Eco V	/ista Landfill	WEATHER: 60	°-85° Sunny,
CONTRACTOR:	CEG Con	struction			N 5-15m	oh low humielite
REPORT BY:	Jong	oh Shapport	2	TIME ARRIVE	07:00	TIME DEPARTED: 19:00
NUMBER WOR	RKING	LIST EC	QUIPMENT	1	CENEDAL	NOTEC
CEG: 4	/	1-Excavator			GENERAL	NOTES
TEP: off		1-Dump 1-1				LIMIT
10			in confine			
VISITORS						
TIME		NAME	REPR	RESENTING		REMARKS
Loachate Lin	ne. Am	Staxted pri	leetive cover	on Southwes	st side of	Coechate line.
				E ORDER, OR CLAI		Cocchate line.
FIELD PROBLEMS	wнich co	ULD RESULT IN				Cocchate line.
SAMPLES SENT TO	WHICH CO	OULD RESULT IN	DELAY, CHANG	E ORDER, OR CLAII		
FIELD PROBLEMS	wнich co	ULD RESULT IN				Tracking Number

PROJECT:				RUCTION RE	-1 -1 -1	
	Cell 12 N	orth			DATE:	June 4,2018
PROJECT NO .:	18024				DAY: s	M T F
CLIENT:	Waste Ma	anagement of A	rkansas - Eco V	ista Landfill	WEATHER: //	0,850 Sumny
CONTRACTOR:	CEG Con			130 130 130 131	NW -5-10	mak malina humil
REPORT BY:	Closoph	Shappar O		TIME ARRIVE	D: 07:00	TIME DEPARTED: 19:00
NUMBER WOR	SKING	LISTEC	UIPMENT			
CEB = 4				31 1	GENERAL	
TEP-17		1-Excavator		Chart Approx	umalely 4	nollo of 250 estronou not romple
120-11		1-Backhoe/1	Strack forklist	geocomposite	· Northwe	stronger not roupl
		1-5kid stean				
ISITORS		1				
TIME		NAME	REPE	RESENTING		REMARKS
						KLWARKS
						relplacing protection
FI D PROBLEMS						
ELD PROBLEMS	wнісн со	ULD RESULT IN		E ORDER, OR CLAI		
Kan out of a	WHICH CO	ULD RESULT IN				
MPLES SENT TO	WHICH CO	ULD RESULT IN	DELAY, CHANG	E ORDER, OR CLAI	N	
Kom out of a	WHICH CO	ULD RESULT IN				Tracking Number
AMPLES SENT TO	WHICH CO	ULD RESULT IN	DELAY, CHANG	E ORDER, OR CLAI	N	
AMPLES SENT TO	WHICH CO	ULD RESULT IN	DELAY, CHANG	E ORDER, OR CLAI	N	

			LO CONS	TRUCTION RI	EPORT	
PROJECT:	Cell 12 N	orth			DATE:	June 5,2018
PROJECT NO .:	18024				DAY: S	M T W T F S
CLIENT:	Waste Ma	anagement of A	rkansas - Eco '	Vista Landfill		2°.87° Simny
CONTRACTOR:	CEG Con	struction		Tiota Larianii	55W 5 mg	medium humidit
REPORT BY:	Joe 5	hoppend		TIME ARRIVE	D: 07:00	TIME DEPARTED: 19:00
NUMBER WOI	RKING	LISTEC	UIPMENT		CENEDAL	NOTES
CEB=5		1-Excavator	1-Damp	100- 0-1	GENERAL	NOTES
TEP-17		1- Dozen 1-Tr		10:00 pm meet	ling	
		1-skytrack for 1-skidsteen				
VISITORS		1		,		
TIME		NAME	REP	RESENTING		REMARKS
CONSTRUCTION A Primary line Sleeves weld Lines is bee material in		Je Jean par				to secondary
					in_	
SAMPLES SENT TO) LABORAT	ORY:			/	
SAMPLES SENT TO	LABORAT	FORY:	Easting		-/-	Tracking Number
			Easting	Sample Date	Ship Date	Tracking Number
			Easting		-/-	Tracking Number

		DAILY SOI	LS CONS	TRUCTION RE	EPORT	
PROJECT:	Cell 12 N	lorth			DATE:	Tune 6,3018
PROJECT NO .:	18024				DAY: s	M T WY T F
CLIENT:	Waste M	anagement of A	rkansas - Eco	Vista Landfill		2-89° Paretly Cloudy
CONTRACTOR:	CEG Cor	struction		viola Landini	SSEL	of MARTY Cloudy
REPORT BY:	Joes	hoppas		TIME ARRIVE	D: 07:00	TIME DEPARTED: 19:00
NUMBER WOR	KING	I IST EC	QUIPMENT	1		
CEG: 4		1- Dimp 1-		0 . 1	GENERAL	
TEP: 17				Recieved 4	olls of ged	xomposite to comple
			2-Dozers	the North west	corner. Fr.	manother landfill
		1-Skytrach for	Rlift			
		1-Water tru	ck			
VISITORS		IF SKIUSTEET				
TIME		NAME	REP	RESENTING		REMARKS
						TEMPITO
pansay lin	in Exert	EG is digg	ing out the	burnita, and	proad, a be installed	sion welder all
FIELD PROBLEMS I Upper Rub sh SAMPLES SENT TO	oej m	CROCKNATO Unio	DELAY, CHANG	GE ORDER, OR CLAI	Missell a	detail indiawing
					1	
Sample No.	Lift No.	Northing	Easting	Sample Date	Ship Date	Tracking Number
Anoph Shop	2010			al N/ Id		
Bry	Full Piewed By			06-04-18 DATE 6/8/2018		Shepherd ENGINEERING DELICH COMPANY INCOMPONATEO

	The second second	DAILY SO				
PROJECT:	Cell 12 N	lorth			DATE:	June 7, 2018
PROJECT NO.:	18024				DAY: S	M T W TX F
CLIENT:	Waste M	anagement of A	rkansas - Eco	Vista Landfill	WEATHER:	
CONTRACTOR:	CEG Cor	nstruction		sister admiration		
REPORT BY:	Joe S	hopper O		TIME ARRIV	ED: 07:00	DEPARTED: 19:00
NUMBER WOR	RKING	LISTE	QUIPMENT			
CEG	,	1-Excavator			GENERAL	NOTES
TEP 1		1-Dump 1-Tre	2-Dozers			
		1-Water Land	L 1-okilosteon			
		1-5kytorck g	late lilt			
		1	un cy			
VISITORS						
TIME		NAME	REI	PRESENTING		REMARKS
			-			
UALCULIN tester HDPE lines to CEB wa and pulls to	and preven	is good. in demande a second lift mples of soil	leftover G lue to wen of clay lu	then, now in the pour	o wnapped a	and sealed in
				one in the ponded by tubes		line. Welds an and sealed in
IELD PROBLEMS (WHICH CO	ULD RESULT IN				and sealed in
AMPLES SENT TO	WHICH CO	ULD RESULT IN				Tracking Number
AMPLES SENT TO Sample No. PL-2 ST-14-2	WHICH CO	OULD RESULT IN	DELAY, CHAN	GE ORDER, OR CL/	Ship Date	
IELD PROBLEMS V AMPLES SENT TO Sample No.	WHICH CO	OULD RESULT IN	DELAY, CHAN	GE ORDER, OR CLA	AIN	

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Oproph Shappord			06-08-18 DATE 6/11/2018		

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PROJECT:	Cell 12 N	North			DATE: (une 9, 2018
PROJECT NO.:	18024				DAY: s	M T W T
CLIENT:	Waste N	lanagement of A	Arkansas - Eco	Vista Landfill	WEATHER: 18	- 91° Sunny
CONTRACTOR:	CEG Co	nstruction			552 5.1	a mah mel h .
REPORT BY:	Joe	Shappar D		TIME ARRIVE	ED: 07:00	TIME DEPARTED: 9 00
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		DAILY SC	ILS CON	STRUCTION F	REPORT	
PROJECT:	Cell 12 N	North			DATE:	12 200
PROJECT NO .:	18024				DAY:	Clune 10,2018
CLIENT:	Waste M	lanagement of	Arkansas - Fo	o Vista Landfill		
CONTRACTOR:	CEG Co	nstruction	minoriodo - Ec	o vista Landilli		7°-90° Summy
REPORT BY:	Joe	Shappon D		TIME ARRIV	5-10 mps	TIME
					07.00	DEPARTED: 19:00
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-2BS-4-6	2			06-09-18	06-11-15	Doe on Monday
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-2-ST-8-1D	2			06-10-18		Fohelby tubes
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CQAT	ECHNICIAN			06-10-18 DATE	- 1	
Bur	Back			06-10-18 DATE		Shepherd Engineering
	EWED BY					

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	I	DAILY SOIL	S CONST	RUCTION REP	PORT		
PROJECT:	Cell 12 No	orth			DATE:	6/11/2018	3
PROJECT NO.:	18024				DAY: s	M T W T	F S
CLIENT:	Waste Ma	nagement of Ark	ansas - Eco V	ista Landfill	WEATHER:		
CONTRACTOR:	CEG Cons	struction			77-85 F (sur		
REPORT BY:	Bryan E	Bailey		TIME ARRIVED:	7:00	TIME DEPARTED:	5:30PM
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NUMBER WOI		CAT 345 Exca		1 Water trucks	GENERAL N	IOTES	
OLO S	,	Tractor with par		1 Water trucks			
		D6 Dozer - 1					
		Off Road Dump	Truck - 1				
VISITORS			1				
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CONSTRUCTION	ACTIVITIES:				1		
			stalling protec	tive cover on west sid	de slope		
001111111111111111111111111111111111111	o onouvanii	g, naamig ana m	iotaining protoc	are corer on week en	20 010 poi		
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		100.				STEDNER ENGINEERING	
	1 Sryan	W Bailey	<u>=</u>	11-Jun	_	DESIGN COMPANY INCORPORAT	ED
	REVIEW D BY	1		DATE			

	I	DAILY SOIL	S CONST	RUCTION REF	PORT		
PROJECT:	Cell 12 No	orth			DATE:	6/12/2018	
PROJECT NO.:	18024				DAY: s	M T W T	F S
CLIENT:	Waste Ma	nagement of Ark	ansas - Eco V	ista Landfill	WEATHER:		
CONTRACTOR:	CEG Cons	struction			77-85 F (sur		
REPORT BY:	Bryan E	Bailey		TIME ARRIVED	: 7:00	TIME DEPARTED:	6:00PM
NUMBER WOL		LIGTEG	UDMENT	1	OENEDAL A	NOTES.	
NUMBER WOI CEG 5		CAT 345 Excav		1 Water trucks	GENERAL I	NOTES	
0203	,	Tractor with pa		1 Water trucks			
		D6 Dozer - 1	· ·				
		Off Road Dump	Truck - 1				
VISITORS			1		1		
TIME		NAME	REP	RESENTING		REMARKS	
CONSTRUCTION			. 11.				
-				tive cover on west sign		er broke down ard	una
3:00 pm. Continu	ied hauling	an dumping pro	tective cover n	naterial at base of we	st slope.		
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1 Sruje	an W / Ja	ney	-	06/12/18 DATE	-	chenhen	7
1) 111	2.1				SPEPPER	
13	ryan W /	Dailey	_	12-Jun	_	DESIGN COMPANY INCORPORATE	0
- 24	REVIEWED BY	- 0		DATE			

PROJECT:	Cell 12 N	North			- I	1 1
PROJECT NO .:	18024				DATE:	Lene 13,2018
CLIENT:		lanagament of	A-1		DAY:	X
CONTRACTOR:	CEG Cor	Naste Management of Arkansas - Eco Vi CEG Construction		Vista Landfill	WEATHER: 7	20°- 73° Sunny
REPORT BY:	-	Sheppan O		TIME ARRIV	5-10mph ED: 07:00	Medium humi Vite
NUMBER WOR	PKING	110==				OLI AINIED. 77.2
CEG			QUIPMENT		GENERA	L NOTES
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PROJECT NO.: 18 CLIENT: W	1-Ex	LIST EQUATION 1	JIPMENT I-Dozon		DATE: DAY: WEATHER: 70 5-5-10 m ED: 07:00 GENERAL	TIME DEPARTED: 9:0
CLIENT: WOONTRACTOR: CIREPORT BY: (NUMBER WORKING CEG 4	aste Manager EG Construction Dec Theorem NG 1-Ex	LIST EQUATION 1	JIPMENT I-Dozon		DAY: S WEATHER: 70 5-5-10 M	or-93° Sinny, some of the Med. humildity TIME DEPARTED: 9:00
NUMBER WORKI	Joe Thepping	LIST EQUATION 1	JIPMENT I-Dozon		WEATHER: 70 5-5-10 M	or-93° Simmy, some of the med. humility TIME DEPARTED: 100
NUMBER WORKI	Joe Thepping	LIST EQUATION 1	JIPMENT I-Dozon		ED: 07:00	TIME DEPARTED: 19:00
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PROJECT NO.: 18024 DATE: June 15, 2018 DAY: DAY: DAY: DAY: DAY: DAY: DAY: DAY:	PROJECT:	1COI 12 1	Varth				The second secon
CLIENT: Waste Management of Arkansas - Eco Vista Landfill Weather: - - - - - - -			North			DATE:	June 15, 2018
CONTRACTOR: CEG Construction REPORT BY: See Shappe. D TIME ARRIVED: 71.92° Surrey, Frin S. 10.75° Surrey S. 1		1					S M T W T
REPORT BY: Joe Shoppon D TIME ARRIVED: 67:00 TIME DEPARTED: 17.4 NUMBER WORKING LIST EQUIPMENT GENERAL NOTES NUMBER WORKING LIST EQUIPMENT GENERAL NOTES L-Dezer L-Tocks uppon L-Dezer L-Tocks uppon JISITORS TIME NAME REPRESENTING REMARKS CONSTRUCTION ACTIVITIES: Continue to guade pouls. And hawling and placing posterior covers ELD PROBLEMS WHICH COULD RESULT IN DELAY, CHANGE ORDER, OR CLAIM MPLES SENT TO LABORATORY: Sample No. Lift No. Northing Easting Sample Date Ship Date Tracking Number PCS 2		Waste Management of Arkansas - Eco Vista Land		Vista Landfill	WEATHER:	110-920 Simmy, Frais	
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	MPLES SENT TO	LABORAT	ULD RESULT IN	DELAY, CHAN	GE ORDER, OR CL	AIMShip Date	Tracking Number
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J-Dumps 1-2 1-Timelon is/1 1-Dozen NAME	QUIPMENT Excavates onn REP MASON S	TIME ARRIVE	SSIN 10-19 ED: 07:00 GENERAL Surveyo	DEPARTED: 17: be L NOTES REMARKS my posed all after
E Management of A Construction Seph Shepper of A LIST EC 2-Dumps 1-2 1-Timelon works NAME Iny Mason	QUIPMENT Excavates onn REP MASON S	TIME ARRIVE	DAY: WEATHER: 73 SSW 10-5: ED: 07:00 GENERAL Survey	TIME DEPARTED: 19: bu REMARKS My pond all after
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PROJECT:	Cell 12 N	North			DATE:	June 17,2018
PROJECT NO.:	18024		DAY:	X M T W T		
CLIENT:	Waste N	lanagement of A				
CONTRACTOR:	CEG Co	nstruction		S-10-15 mph Medium humy		
REPORT BY:	Joe	Shopperd		TIME ARRIVI	ED: 07:00	TIME DEPARTED: 19:0
NUMBER WOR			QUIPMENT	1		
CEG-4		1-Seeding fram			GENERA	LNOTES
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		1-mini X 1-Ti	1-Dirano			
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onstruction Ain the pond. Finishing prote	Sump Sump Edice or	: Seedad pon 1845 coveres over and che	D. of closed Deep protect.	die cover. Il	Opipe in less union	hour locations (Dep. ver ext.
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ELD PROBLEMS V	УНІСН СО	ULD RESULT IN			JA_	
LD PROBLEMS V	VHICH CO	OLD RESULT IN	DELAY, CHANG	E ORDER, OR CLA		Tracking Number

Eco Vista, LLC. SEDCo

Eco Vista Class I Landfill North Sedimentation Basin Construction ADEQ Permit No.: ARG160045

ATTACHMENT J ARG160045C (Complete Construction Application)

Arkansas Department of Environmental Quality NPDES PERMIT APPLICATION FORM 1

INSTRUCTIONS:

- 1. This form should be <u>typed or printed in ink</u>. If insufficient space is available to address any item please continue on an attached sheet of paper.
- 2. Please complete the following Section (s):

Sections	A	В	C	D	E	F	G	Н	I
POTW	X	X	X	X					X
Industrial User	X	X	Χ.	X	X	X	X		X
Construction Permit Only	X	X	*	X				X	X
Modification	X	X	Х	X	X	*	*	X	X
All Other Applicants	X	X	Х	X	X				X

^{*} As necessary

- 3. If you need help on SIC or NAICS go to www.osha.gov/oshstats/sicser.html
- 4. If you have any questions about this form you may call NPDES Section at 501-682-0622 or go to www.adeq.state.ar.us/water. You may also contact:

Department Arkansas Department of Health

Information in Regard to Water Supply

Telephone # 501-661-2623

- 5. The following EPA Forms in addition to Form 1 is required for processing your application:
 - Form 2A Municipal Dischargers
 - Form 2B Concentrated Animal Feeding Operations
 - Form 2C Existing Manufacturing, Commercial, Mining, and Silvicultural Operations
 - Form 2D New Sources and New Dischargers Application for Permit to Discharge Process Wastewater
 - Form 2E Facilities Which Do Not Discharge Process Wastewater (i.e. Domestic, Non contact cooling water)
 - Form 2F Application for Permit to Discharge Storm Water Discharges Associated With Industrial Activity
- 6. Where to Submit

Return the completed form by mail to:

Arkansas Department of Environmental Quality Permits Branch, Water Division 5301 Northshore Drive North Little Rock, AR 72118

Or by email to:

Water-Permit-Application@adeq.state.ar.us

NPDES PERMIT APPLICATION FORM 1

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER DIVISION
5301 Northshore Drive
North Little Rock, AR 72118-5317
www.adeq.state.ar.us/water

ΡĮ	JRPOSE OF THIS APPLICATION
	INITIAL PERMIT APPLICATION FOR NEW FACILITY
	INITIAL PERMIT APPLICATION FOR <u>EXISTING</u> FACILITY
	MODIFICATION OF EXISTING PERMIT
	REISSUANCE (RENEWAL) OF EXISTING PERMIT
	MODIFICATION AND CONSTRUCTION OF EXISTING PERMIT
\boxtimes	CONSTRUCTION PERMIT
SE	ECTION A- GENERAL INFORMATION
1.	Operator (Legal) Applicant Name (who has ultimate decision making responsibility over the operation of a facility or activity):
	Eco-Vista, LLC
	Note: The legal name of the operator must be identical to the name listed with the Arkansas Secretary of State.
2.	Operator Type: Private ☐ State ☐ Federal ☐ Partnership ☐ Corporation ☒ Other ☐
	State of Incorporation:DE
_	
3.	Facility Name: Eco-Vista, LLC
4.	ls the operator identified in number 1 above, the owner of the facility? Yes No
5.	NPDES Permit Number (If Applicable): AR00
6.	NPDES General Permit Number (If Applicable): <u>ARG160045</u>
7.	NPDES General Storm Water Permit Number (If Applicable): ARR000231
8.	Permit Numbers and/or names of any permits issued by ADEQ or EPA for an activity located in Arkansas that is presently held by the applicant or its parent or subsidiary corporation which are not listed above:
	Permit Name Permit Number Held by
	See Attachment #1
	See Attachment #1
9.	Give driving directions to the wastewater treatment plant with respect to known landmarks:
<i>)</i> .	of the differing directions to the wastewater treatment plant with respect to known fandinarks.
	·
10.	Facility Physical Location: (Attach a map with location marked; street, route no. or other specific identifier)
	Street: 2210 Waste Management Drive
	City: Springdale County: Washington State: AR Zip: 72762

	*		Title:	Environmental Protection Mgi
			P.O. Box	
City: Springdale	State:	AR		Zip: <u>72762</u>
E-mail address*: _jtaylo28@wm.com	Fax:			
* Is emailing all documents (permit, letters, DMRs, invoi	ces, etc.) acce	eptable to the	applicant?	☐ Yes ☐ No
Neighboring States Within 20 Miles of the permitted facili	ty (Check all	that apply):		
Oklahoma Missouri Tennessee	Louisiana 🗌	Texas _	M	ississippi 🗌
. Indicate applicable Standard Industrial Classification (SIC) Codes and N	IAICS codes	for primary	processes
4953/4212 SIC Facility Activity under thi	is SIC or NAI	CS:		
562212/325314 NAICS				
. Design Flow: 2.11 MGD Highest Monthly Average			,)
. Is Outfall equipped with a diffuser? Yes	⊠ No			
. Responsible Official (as described on the last page of this a	application):			
Name: Mr. David Conrad			Title:	Market Area Engineer
Address: 2210 Waste Management Drive				501-982-7336
E-mail Address:				
	ite: AR			72762
	ite: AR		Zip:	
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res	nte: AR ponsible office	ial as describ	Zip:	t page of this application):
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res Name: Ms. Jodi Taylor	nte: AR ponsible offic	ial as describ	Zip: e on the las Title:	t page of this application): Environmental Protection Mgr
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res Name: Ms. Jodi Taylor	nte: AR ponsible office	ial as describ	Zip: e on the las Title:	t page of this application):
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res Name: Ms. Jodi Taylor Address: 2210 Waste Management Drive E-mail Address: jtaylo28@wm.com	nte: AR ponsible offic	ial as describ	Zip: e on the las Title: Number:	Environmental Protection Mgr
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res Name: Ms. Jodi Taylor Address: 2210 Waste Management Drive E-mail Address: jtaylo28@wm.com City: Springdale Sta	ponsible office	ial as describ Phone	Zip: e on the las Title: Number:	t page of this application): Environmental Protection Mgr 501.993.8966
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res Name: Ms. Jodi Taylor Address: 2210 Waste Management Drive E-mail Address: jtaylo28@wm.com City: Springdale Sta Name, address and telephone number of active consulting of	ponsible office	ial as describ Phone	Zip: e on the las Title: Number:	t page of this application): Environmental Protection Mgr 501.993.8966
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res Name: Ms. Jodi Taylor Address: 2210 Waste Management Drive E-mail Address: jtaylo28@wm.com City: Springdale Sta Name, address and telephone number of active consulting of Contact Name: Jennifer Harmon	ponsible office	ial as describ Phone	Zip: e on the las Title: Number:	t page of this application): Environmental Protection Mgr 501.993.8966
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res Name: Ms. Jodi Taylor Address: 2210 Waste Management Drive E-mail Address: jtaylo28@wm.com City: Springdale Sta Name, address and telephone number of active consulting of Contact Name: Jennifer Harmon Company Name: Terracon Consultants, Inc.	ponsible office	Phone (If none, so s	Zip: e on the las Title: Number: Zip: tate):	t page of this application): Environmental Protection Mgr 501.993.8966 72762
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res Name: Ms. Jodi Taylor Address: 2210 Waste Management Drive E-mail Address: jtaylo28@wm.com City: Springdale Sta Name, address and telephone number of active consulting of Contact Name: Jennifer Harmon Company Name: Terracon Consultants, Inc. Address: 25809 I-30 South	ponsible office	Phone (If none, so s	Zip: e on the las Title: Number:	t page of this application): Environmental Protection Mgr 501.993.8966 72762
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res Name: Ms. Jodi Taylor Address: 2210 Waste Management Drive E-mail Address: jtaylo28@wm.com City: Springdale Sta Name, address and telephone number of active consulting of the company Name: Jennifer Harmon Company Name: Terracon Consultants, Inc. Address: 25809 1-30 South E-mail Address: jkharmon@terracon.com	ponsible officente: AR engineer firm	Phone (If none, so s	Zip: e on the las Title: Number: Zip: tate):	Environmental Protection Mgr 501.993.8966 72762 r: 501-847-9292
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res Name: Ms. Jodi Taylor Address: 2210 Waste Management Drive E-mail Address: jtaylo28@wm.com City: Springdale Sta Name, address and telephone number of active consulting of the company Name: Jennifer Harmon Company Name: Terracon Consultants, Inc. Address: 25809 1-30 South E-mail Address: jkharmon@terracon.com City: Bryant	ponsible office	Phone (If none, so s	Zip: e on the las Title: Number: Zip: tate):	t page of this application): Environmental Protection Mgr 501.993.8966 72762
City: Springdale Sta Cognizant Official (Duly Authorized Representative of res Name: Ms. Jodi Taylor Address: 2210 Waste Management Drive E-mail Address: jtaylo28@wm.com City: Springdale Sta Name, address and telephone number of active consulting of the company Name: Jennifer Harmon Company Name: Terracon Consultants, Inc. Address: 25809 1-30 South E-mail Address: jkharmon@terracon.com	ponsible office te: AR te: AR engineer firm State: AR	Phone (If none, so s	Zip: e on the las Title: Number: Zip: tate):	Environmental Protection Mgr 501.993.8966 72762 r: 501-847-9292

SECTION B: FACILITY AND OUTFALL INFORMATION

Lat: 36 ° 8 '_	-		`.		• ,	Washin gton	Nearest Tonti Town: wn
2. Outfall Location (The location Outfall No. <u>002</u> :	ation of the end	of the pipe Di	ischarge point.)	:			
Latitude: 36 ° 08 Where is the collection point?		_	itude: <u>94</u>	° <u>15</u>	, 41.11	,	
Name of Receiving Stream (i. Little Wildcat Creek, thence to		•	•		•		River):
Outfall No:	1000						
Latitude: °	,	" Longi	tude:	•	,	**	
Where is the collection point?					· · · · · · · · · · · · · · · · · · ·		
Name of Receiving Stream (i.	e. an unnamed	tributary of M	ill Creek, thenc	e into Mill Cr	eek; thence in	to Arkansas	River):
<u> </u>							
3. Monitoring Location (If the	ne monitoring is	s conducted at	a location diffe	rent than the a	bove Outfall	location).	
Outfall No:							
Lat: °	·	" Long:	·		"		
Outfall No:							4
Lat: °		Long: _	·			,	
Outfall No:						-	
Lat: °		' Long: _	·	·			
4. Type of Treatment system	(Included all co	emponents of the	reatment systen	n and Attach t	he process flo	w diagram):	
Sedimentation pond							

Э.	Do you na	ive, or plan to have, autor	natic sampling equipmen	nt or continuous wa	astewater flow	metering e	quipme	nt at this facility?
	Current:	Flow Metering Sampling Equipment	Yes Type: Yes Type:		No No	=	N/A N/A	
	Planned:	Flow Metering Sampling Equipment	Yes Type: Yes Type:		No No	=	N/A N/A	\boxtimes
If y	yes, please ir	ndicate the present or futu	re location of this equip	ment on the sewer	schematic an	d describe t	he equip	ment below:
				· .				
6.	Is the prop	posed or existing facility le	ocated above the 100-ye	ear flood level?	Yes			No
		NOTE: FEMA Map n	nust be included with th	is application. Ma	ps can be orde	ered at <u>www</u>	v.fema.g	ov.
	If "No	o", what measures are (or	will be) used to protect	the facility?				
7.	Population	for Municipal and Dome	estic Sewer Systems: N	<u>A</u>				
8.	Backup Po	ower Generation for Treat	ment Plants					
	Are there	e any permanent backup g	enerators? Yes	No 🛛	1			
	If Yes, H	ow many?	Total Horesp	ower (hp)?				
	If No, Ple	ease explain?		· · · · · · · · · · · · · · · · · · ·				·····

SECTION C - WASTE STORAGE AND DISPOSAL INFORMATION

1.	Sludge Disposal Method (Check as many as are applicable):
\boxtimes	Landfill
	Landfill Site Name Eco-Vista, LLC ADEQ Solid Waste Permit No. 0290-S1-R2
	Land Application: ADEQ State Permit No
	Septic tank Arkansas Department of Health Permit No.:
	Distribution and Marketing: Facility receiving sludge:
	Name: Address:
	City: State: Zip: Phone:
	Rail: Pipe: Other:
	Subsurface Disposal (Lagooning):
	Location of lagoon How old is the lagoon?
	Surface area of lagoon: Acre Depth: ft Does lagoon have a liner? Yes No
	Incineration: Location of incinerator
	Remains in Treatment Lagoon(s):
	How old is the lagoon(s)? Has sludge depth been measured?
	If Yes, Date measured? Sludge Depth? ft If No, When will it be measured?
	Has sludge ever been removed? Yes No If Yes, When was it removed?
Ü	Other (Provide complete description):

SECTION D - WATER SUPPLY

water S	sources (check as many as are applicable):
\boxtimes	Private Well - Distance from Discharge point: Within 5 miles Within 50 miles
	Municipal Water Utility (Specify City):
	Distance from Discharge point: Within 5 miles Within 50 miles
\boxtimes	Surface Water- Name of Surface Water Source: Beaver Lake is within approximately 16.5 miles
	Distance from Discharge point: □□Within 5 miles Within 50 miles
Lat: _	°" Long:°"
	Other (Specify):
	Distance from Discharge point: □ □ □ Within 5 miles □ Within 50 miles

SECTION E: FINANCIAL ASSURANCE AND DISCLOSURE STATEMENT

1. Act 409 of the 2009 Regular Session of the Arkansas Legislature (Act 409) provides for financial assurance requirements for permitting non-municipal domestic sewage treatment systems. Arkansas Code 8-4-203 (b)(1)(A)(i) – "The department shall not issue, modify, or renew a National Pollutant Discharge Elimination System permit or state permit for a non-municipal domestic sewage treatment works without the permit applicant first demonstrating to the department its financial ability to cover the estimated costs of operating and maintaining the non-municipal domestic sewage treatment works for a minimum period of five (5) years."

The applicant must provide a detailed estimate of the operation and maintenance (O&M) costs for the facility for a five year period. Once the O&M estimate is approved, the applicant must provide **financial assurance** in order to show that the facility is able to cover the costs of operating and maintaining the treatment system for the next five years.

The minimal financial assurance may be demonstrated to the department by using the following as outlined in Arkansas Code 8-4-203(b)(2):

- A. Obtaining insurance that specifically covers operation and maintenance costs
- B. Obtaining a letter of credit;
- C. Obtaining a surety/performance bond;
- D. Obtaining a trust fund or an escrow account; or
- E. Using a combination of insurance, letter of credit, surety bond, trust fund, or escrow account.

2. Disclosure Statement:

Arkansas Code Annotated Section 8-1-106 requires that all applicants for any type of permit or transfer of any permit, license, certification or operational authority issued by the Arkansas Department of Environmental Quality (ADEQ) file a Disclosure Statement with their application. The filing of a Disclosure Statement is mandatory. No application can be considered administratively complete without a completed Disclosure Statement. The form may be obtained from the ADEQ web site at:

http://www.adeq.state.ar.us/disclosure stmt.pdf

SECTION F - INDUSTRIAL ACTIVITY

1.	Does an effluent guideline limitation promulgated by EPA (<u>Link to a Listing of the 40 CFR Effluent Limit Guidelines</u>) under Section 304 of the Clean Water Act (CWA) apply to your facility?								
	YES [(Answer quest	tions 2 and 3)	NO 🗆						
2.	What Part of 40 CFR?	_							
3.	What Subpart(s)?	. <u></u>							
4.	Give a brief description of all operations at this facility including primary products or services (attach additional sheets if necessary):								
5.	Production: (projected for ne	w facilities)							
		Last	12 Months	Highest Production	Year of Last 5 Years				
	Product(s) Manufactured	ļi ļi	bs/day*	lbs/c	day*				
	(Brand name)	Highest Month	Days of Operation	Monthly Average	Days of Operation				

^{*} These units could be off-lbs, lbs quenched, lbs cleaned/etched/rinsed, lbs poured, lbs extruded, etc.

SECTION G - WASTEWATER DISCHARGE INFORMATION

Facilities that checked "Yes" in question 1 of Section F are considered Categorical Industrial Users and should skip to question 2.

1. For Non-Categorical Users Only: List average wastewater discharge, maximum discharge, and type of discharge (batch, continuous, or both), for each plant process. Include the reference number from the process flow schematic (reference Figure 1) that corresponds to each process. [New facilities should provide estimates for each discharge.]

No.	Process Description	Average Flow (GPD)	Maximum Flow (GPD)	Type of Discharge (batch, continuous, none)
-				
	, , , , , , , , , , , , , , , , , , , ,			
ifh	eatch discharge occurs or will o	ccur indicate: [New facilit	ties may estimate.]	•
		cour, maicute. [1 to tt lucim		
r	mber of batch discharges:	-	ge discharge per batch:	(GPD)
Nu	mber of batch discharges:	-	•	(GPD)

Answer questions 2, 3, and 4 only if you are subject to Categorical Standards.

2. For Categorical Users: Provide the wastewater discharge flows for each of your processes or proposed processes. Include the reference number from the process flow schematic (reference Figure 1) that corresponds to each process. [Note: 1) New facilities should provide estimates for each discharge and 2) Facilities should denote whether the flow was measured or estimated.]

No.	Regulated Process	Average Flow (GPD)	Maximum Flow (GPD)	Type of Discharge (batch, continuous, none)

No.	Unregulated Process	Average Flow (GPD)	Maximum Flow (GPD)	Type of Discharge (batch, continuous, none)

	No.	Dilution (e.g., Cooling Water)	Average Flow (GPD)	Maximum Flow (GPD)	Type of Discharge (batch, continuous, none)	
	INO.	(e.g., Cooling Water)	(GFD)	(012)	(batch, commuous, none)	•
	If ba	tch discharge occurs or will occ	ur, indicate: [New facilit	ties may estimate.]		
	Num	ber of batch discharges:	per day Averag	ge discharge per batch:	(GPD)	
	Time	e of batch discharges (day	at vs of week)	(hours of day)		
	Flow	rate: gallons/minute	Percent of total	discharge:		
3.	Do you h	ave, or plan to have, automatic	sampling equipment or o	continuous wastewater fl	ow metering equipment at this facility	?
	Current:	Flow Metering Sampling Equipment	Yes Type:	No	□ N/A □ □ N/A □	
	Planned:	Flow Metering Sampling Equipment	Yes Type: Yes Type:	No	□ N/A □ · · · · · · · · · · · · · · · · · ·	
Ify	es, please	indicate the present or future loo	cation of this equipment	on the sewer schematic	and describe the equipment below:	
_						
4.	•	·			er wastewater volumes or characteristic	eș?
		Yes No	(If no, skip Que	estion 5)		-
5.	Briefly de	escribe these changes and their	effects on the wastewate	r volume and characteris	ities:	
				·		
						

SECTION H-TECHNICAL INFORMATION

Technical information to support this application shall be furnished in appropriate detail to understand the project. Information in this Part is required for obtaining a **construction permit** or for **modification** of the treatment system.

1. Describe the treatment system. Include the types of control equipment to be installed along with their methods of operation and control efficiency.

Sedimentation pond. The outfall will be constructed of a 36 inch diameter vertical riser pipe with a trash rack inlet grate and a 12 inch diameter discharge pipe. The discharge will be controlled via a gate valve. The outlet will have a riprapped channel. The pond will also be constructed with an emergency spillway.

- 2. One set of construction plans and specifications, approved (Signed and stamped) by a **Professional Engineer** (PE) registered in **Arkansas**, must be submitted as follows:
 - a. The plans must show flow rates in addition to pertinent dimensions so that detention times, overflow rates, and loadings per acre, etc. can be calculated.
 - b. Specifications and complete design calculations.
 - c. All treated wastewater discharges should have a flow measuring device such as a weir or Parshall flume installed. Where there is a significant difference between the flow rates of the raw and treated wastewater, a flow measuring device should be provided both before and after treatment.
- 3. If this application includes a construction permit disturbing five or more acres, a storm water construction permit must be obtained by submitting a notice of intent (NOI) to ADEQ.

Page 12 Revised October 2009

SECTION I: SIGNATORY REQUIREMENTS

Cognizant Official (Duly Authorized Representative)

40 CFR 122.22(b) states that all reports required by the permit, or other information requested by the Director, shall be signed by the applicant (or person authorized by the applicant) or by a duly authorized representative of that person. A person is duly authorized representative only if:

- (1) the authorization is made in writing by the applicant (or person authorized by the applicant);
- the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity responsibility, or an individual or position having overall responsibility for environmental matters for the company.

The applicant hereby designates the following person as a Cognizant Official, or duly authorized representative, for signing reports, etc., including Discharge Monitoring Reports (DMR) required by the permit, and other information requested by the Director:

Signature of Cognizant Official:	Date: 11.15.13
Printed name of Cognizant Official: Ms. Jodi Taylor	
Official title of Cognizant Official: Environmental Protection Mgr.	501.993.8966/501.982.7 Telephone Number: 336
Responsible Official	
The information contained in this form must be certified by a <u>responsible off</u> applications" (40 CFR 122.22).	icial as defined in the "signatory requirements for permit
Responsible official is defined as follows:	
Corporation, a principal officer of at least the level of vice president Partnership, a general partner Sole proprietorship: the proprietor Municipal, state, federal, or other public facility: principal executive office	er, or ranking elected official.
(Initial) "I certify that the cognizant official designated above is qual provisions of 40 CFR 122.22(b)." NOTE: If no duly authorized representative the applicant to be the responsible official for the facility and only reports Department.	ve is designated in this section, the Department considers
(Initial) "I certify that, if this facility is a corporation, it is registered the full name of the corporation if different than that listed in Section A above	with the Secretary of State in Arkansas. Please provide
"I certify under penalty of law that this document and all attachments were provided a system designed to assure that qualified personnel properly gather a inquiry of the person or persons who manage the system, or those persons information submitted is, to the best of my knowledge and belief, true, accur penalties for submitting false information including the possibility of fine and under penalty of law that all analyses reported as less than detectable in this at the EPA approved test method having the lowest detection limit for the substant	and evaluate the information submitted. Based on my directly responsible for gathering the information, the rate, and complete. I am aware that there are significant dimprisonment for knowing violations. I further certify application or attachments thereto were performed using
Signature of Responsible Official:	Date: 11/15/2013

Market Area Engineer

Official title of Responsible Official:

501.804.0806/501.982.7

Telephone Number: 336



NOTICE OF INTENT NPDES GENERAL PERMIT <u>ARG160000</u> OPERATORS DISCHARGING SANITARY LANDFILL RUNOFF

The attached form can be used by all persons desiring coverage under NPDES general permit ARG160000 (Operators Discharging Sanitary Landfill Runoff). The form should be completed and submitted to this Department in accordance with Part 1.3 of the general permit.

Be sure to read the Permit No. ARG160000. It describes what constitutes coverage under this permit, effluent requirements, discharge limitations, and other standard conditions that are applicable to this permit. A copy of the permit, fact sheet and other information for this permit can obtained on the Department's website: http://www.adeq.state.ar.us/water/branch permits/general permits/default.htm

If you have any questions concerning the ARG160000 permit information or Notice of Intent, please contact General Permits Section of the Water Division at (501) 682-0623.

REMEMBER THE FOLLOWING:

- 1. The Notice of Intent (NOI) must be complete. Do not leave any question blank; use "NA" if a question is not applicable. Outfall information must be completed; it cannot be blank or "NA".
- 2. A Topographic map showing the location of the discharge points must be attached to the Notice of Intent at the time of submission.
- 3. Read the Certification.
- 4. A \$400.00 Check payable to ADEQ (Re: ARG160000).
- 5. A Disclosure form. Arkansas Code Annotated Section 8-1-106 requires that all applicants for the issuance or transfer of any permit, license, certification or operational authority issued by the Arkansas Department of Environmental Quality (ADEQ) file a disclosure statement with their applications. The filing of a disclosure statement is mandatory. No application can be considered complete without one. A new disclosure statement must be submitted even if one is already on file with the Department. The form may be obtained from ADEQ web site at:http://www.adeq.state.ar.us/disclosure_stmt.pdf

Please call the following number if you have any questions on this Form:

<u>Topic</u>	Contact person	Phone Number
Area Map and USGS Hydrologic Unit Code	Department of the Interior United States Geological Survey	(501)296-1877
Domestic Drinking Water Supply Intake	Department of Health	(501)661-2623
General Information	Permits Branch	(501)682-0623

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY NOTICE OF INTENT

LANDFILL SANITARY DISCHARGE NPDES GENERAL PERMIT ARG160000

Application Type: New Renewal (Permit # ARG16_) Other 🛚	Additional Outfall
I. PERMITTEE/OPERATOR INFORMATION		
Permittee (Legal Name): Eco-Vista, LLC Permittee Mailing Address: 2210 Waste Management Drive Permittee City: Springdale Permittee State: AR Zip: 72762 Permittee Telephone Number: 479-361-2069 Permittee Fax Number: 479-361-5934 Permittee E-mail Address: Jtaylo28@wm.com	Operato State Federal Sole Proprietorship *State of Incorporation The legal name of the identical to the name list Secretary of State.	Partnership Corporation* //Private DE De Permittee must be
II. INVOICE MAILING INFORMATION		
Invoice Contact Person: Jodi Taylor Invoice Mailing Company: Waste Management Invoice Mailing Address: 100 Two Pine Drive	City: North Lit State: AR Telephone: 501-982-	Zip: <u>72117</u>
		36
Facility Latitude: 36 ° 08′ 38.56 " Facility Longitud Accuracy: Method: Datum: WGS84 Sc		
Outfall Number: 002 Estimated Flow: The outfall will be constructed of a 36 inch diameter and a 12 inch diameter discharge pipe. The discharge will have a riprapped channel. The pond will also be	will be controlled via a g	a trash rack inlet grate gate valve. The outlet
	Basin Code: le: 94 °15 ′ 41.11 ″	
Accuracy: Method: Datum: WGS84 Sc		ription: Outfall
Receiving Stream: Little Wildcat Creek thence to Clear Creek thence to the	ne Illinois River, thence	to the Arkaneae Piver

V. **FACILITY PERMIT INFORMATION** NPDES Individual Permit Number (If Applicable): AR00 NPDES General Permit Number (If Applicable): ARG160045 ARG16 C (application has been State Construction Permit Number: submitted along with this update) NPDES General Construction Stormwater Permit Number (If Applicable): ARR15 NPDES Industrial Stormwater General Permit Number: ARR000231 Other Department Permits: VI. OTHER INFORMATION: Additional Location Description This NOI is for the addition of a future pond outfall on the north portion of the Additional Comments: facility. Consultant Contact Name: Jennifer Harmon, Terracon Consultants, Inc. Consultant Email Address: jkharmon@terracon.com Consultant Address: 25809 I-30 S City: **Bryant** State: AR Zip: 72202 Consultant Phone Number: 501.847.9292 Consultant Fax Number: 501.847.9210 VII. . CERTIFICATION OF OPERATOR "I certify that, if this facility is a corporation, it is registered with the Secretary of the State of Arkansas. I certify that the cognizant official designated in this Application is qualified to act as a duly authorized representative under the provisions of 40 CFR 122.22(b). If no cognizant official has been designated, I understand that the Department will accept reports signed only by the Applicant. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." Responsible Official Printed Name: Mr. David Conrad Title: Market Area Engineer Responsible Official Signature: Date: Responsible Official Email: dconrad@wm.com Cognizant Official Printed Name: Title: Jodi Taylor Environmental Protection Mgr. Cognizant Official Signature: Telephone: 501-982-7336 Cognizant Official Email: X. PERMIT REQUIREMENT VERIFICATION Please check the following to verify completion of permit requirements. If you answer "NO" to any of questions below the application will be considered incomplete and cause a delay in the permitting process. No Yes Submittal of Complete NOI? X

WATER DIVISION
5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK, ARKANSAS 72118
PHONE 501-682-0623 / FAX 501-682-0880

New Permittees Only Check Number:

Maps have been included with the Construction Permit Application

冈

Submittal of Required Permit Fee?

Submittal of Disclosure Statement?

Submittal of Topographic Map?

industrial (Operator's 1	License Number:	



INSTRUCTIONS

I. How to Determine Latitude and Longitude:

If a physical address is known go to www.terraserver-usa.com and proceed with the following steps:

- 1. Select Advanced Find
- 2. Select Address
- 3. Input address
- 4. Click on Aerial Photo
- 5. Click on the Info link at the top of the page
- 6. Note the Latitude and Longitude are in Decimal Coordinates.
- ,7. Go to www.geology.enr.state.nc.us/gis/latlon.html to convert coordinates to Degrees, Minutes, and Seconds.

NOTE: If a physical address does not exist you may find the coordinates in the Legal Description of the property.

II. How to Determine the Accuracy, Method, Datum, Scale, and Description for the Facility/Outfall Latitude and Longitude:

Horizontal **Accuracy** Measure – This indicates the accuracy, **in meters**, of the latitude/longitude location, or how close the specific latitude/longitude location is guaranteed to be to the real-world location. It is typically a function of the method used to obtain the latitude/longitude.

Horizontal Collection **Method** - The text that describes the method used to determine the latitude and longitude coordinates for a point on the earth.

Address Matching-House Number	Public Land Survey-Quarter Section
Address Matching-Block Face	Public Land Survey-Section
Address Matching-Street Centerline	Classical Surveying Techniques
Address Matching-Nearest Intersection	Zip Code-Centroid
Address Matching-Digitized	Unknown
Address Matching-Other	GPS-Unspecified
Census Block-1990-Centroid	GPS with Canadian Active Control System
Census Block/Group-1990-Centroid	Interpolation-Digital Map Source (TIGER)
Census Block/Tract-1990-Centroid	Interpolation-SPOT
Census-Other	Interpolation-MSS
GPS Carrier Phase Static Relative Position	Interpolation-TM
GPS Carrier Phase Kinematic Relative Position	Public Land Survey-Eighth Section
GPS Code (Pseudo Range) Differential	Public Land Survey-Sixteenth Section
GPS Code (Pseudo Range) Precise Position	Public Land Survey-Footing
GPS Code (Pseudo Range) Standard Position (SA Off)	Zip+4 Centroid
GPS Code (Pseudo Range) Standard Position (SA On)	Zip+2 Centroid
Interpolation-Map	Loran C ·
Interpolation-Photo	Interpolation-Other
Interpolation-Satellite	

Horizontal Reference **Datum** - The code that represents the reference datum used in determining latitude and longitude coordinates.

Unknown	.WGS84
NAD27	NAD83

Source Map Scale - The scale used to determine the latitude and longitude coordinates.

Not Applicable	1:62,500
Unknown	1:63,000
1:15,840	1:63,350
1:20,000	1:63,360
1:24,000 (1" = 2,000')	1:100,000
1:25,000	1:250,000

Reference Point **Description** - The place for which geographic coordinates were established.

Facility/Station Building Entrance or Street Address	Facility Center/Centroid
Boundary Point	Intake Point
Treatment/Storage Point	Release Point
Monitoring Point	Other

III. How to Determine your Hydrologic Basin Code for the Facility/Outfall:

- 1. Locate the county of your facility on the map on Page 7.
- 2. Find the numbered segment overlaying the county. For example 2C overlays most of Saline County.
- 3. Find the Eight Digit Hydrologic Basin Code located inside the numbered segment.

IV. How to Determine your Stream Segment for the Facility/Outfall:

- 1. Locate the county of your facility on the map on Page 7.
- 2. Find the numbered Stream Segment overlaying the county. For example 2C overlays most of Saline County. 2C would be the Stream Segment for any facility located within that segment.

V. How to Determine your Ultimate Receiving Waters:

- 1. Locate the county of your facility on the map on Page 7.
- 2. Find the numbered segment overlaying the county. For example 2C overlays most of Saline County.
- 3. Match the number from the segment to one of the numbered Ultimate Receiving Waters. For example: A facility located in Western Saline County is in segment 2C. The "2" determines that the Ultimate Receiving . Water for the project is the Ouachita River.
- VI. <u>Signatory Requirements</u>: The information contained in this form must be certified by a <u>responsible official</u> as defined in the "signatory requirements for permit applications" (40 CFR 122.22).

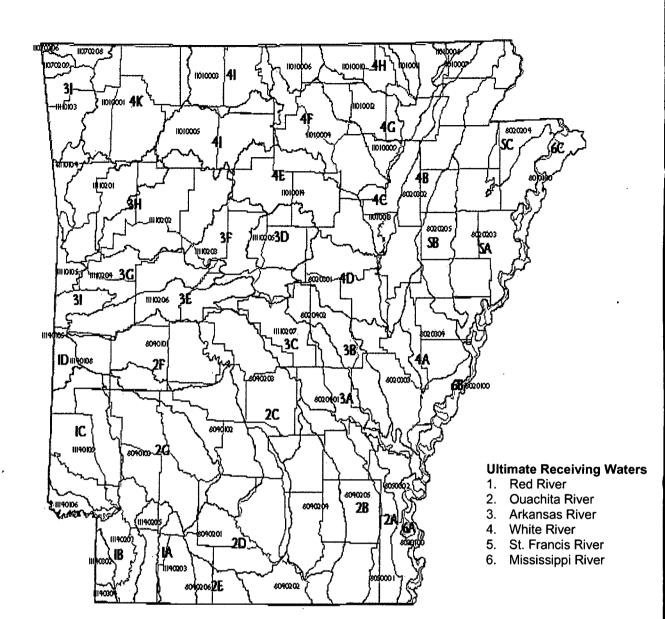
Responsible official is defined as follows:

Corporation, a principal officer of at least the level of vice president, treasurer

Partnership, a general partner

Sole proprietorship: the proprietor/owner

Municipal, state, federal, or other public facility: principal executive officer, or ranking elected official



Stormwater Management Plan

Eco-Vista, LLC ADEQ Permit No. 0290-S1-R2 AFIN: 72-00144

> November 2013 Project No. 35097120



PREPARED FOR: Eco-Vista, LLC 2210 Waste Management Drive Springdale, AR 72762 479.361.2063

PREPARED BY:

Terracon Consultants, Inc. 25809 Interstate 30 South Bryant, Arkansas 72022 501.847.9292

Offices Nationwide Employee-Owned

Established in 1965 terracon com





Stormwater Management Plan ■ Springdale, AR Waste Management ■ Eco-Vista Class 1 Landfill November 2013 ■ Terracon Project No. 35097120

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ATTACHMENTS

Attachment A Facility Drawings

Attachment B North Pond Calculations

Terracon

Stormwater Management Plan ■ Springdale, AR
Waste Management ■ Eco-Vista Class 1 Landfill
November 2013 ■ Terracon Project No. 35097120

1.0 GENERAL

This Stormwater Management Plan presents site specific methods and procedures for the design, construction and operation of the Eco-Vista Class 1 Landfill (Facility) Stormwater North Retention Pond to be constructed in the fall of 2014 or spring of 2015 depending upon the timing of the solid waste permit expansion issuance. The Stormwater Management Plan has been developed to conform with applicable 10 State Standards and Arkansas State Regulations. The Stormwater Management Plan will be updated as required to reflect current operations and regulations. Revisions to the Stormwater Management Plan will be submitted to the Arkansas Department of Environmental Quality (ADEQ) for approval. The construction of the complete pond may be in phases as construction of the future cells progresses.

1.1 LOCATION

The north stormwater retention pond will be located on the northern portion of the facility, just to the west of the facility entrance road. This location has been cleared previously and used as a borrow area. The pond will collect stormwater from future cells. Please see **Attachment A – Drawing 8** for the site layout drawing.

1.2 GROUNDWATER SEPARATION

Stormwater routed to the pond will be runoff from the inactive cells of the landfill. Groundwater levels range from ELEV. 1230 to 1235 feet. The pond bottom is located at ELEV 1280 feet. Groundwater elevation was interpolated based on the Historic High Groundwater Elevation Map dated 10-30-13 (Attachment A – Figure 4.6), which was the most recent available potentiometric map available at the time of design. Based on the interpolation, the minimum separation distance has been met.

2.0 BASIS OF DESIGN

2.1 POND SHAPE

The northern pond is an "L" shape and has a capacity of approximately 2,704,024 ft³ or 20,226,105 gallons.

2.2 CALCULATIONS

As required by the Boston Mountain Solid Waste Management District, the pond has been designed to contain the run-off from a 100-year, 24-hour storm event. NPDES Sanitary Landfills General Permit (ARG160000) requires that the pond be constructed for a minimum of a 25-year, 24-hour storm event. **Attachment B** contains the output file from the Civil Storm v8i computer modeling software for a 25-year, 24-hour storm and a 100-year, 24-hour



Stormwater Management Plan ■ Springdale, AR Waste Management ■ Eco-Vista Class 1 Landfill November 2013 ■ Terracon Project No. 35097120

storm for the northern pond. Perimeter ditches will route landfill stormwater to the inlet structure as indicated in Drawing No. 17.

The drainage area for the north pond is approximately 37.4 acres size and the pond is 8.6 acres in size. The 25-year, 24-hour storm fall totals are 7.2 inches over the entire 46 acres from the Civil Storm output. This rainfall event amounts to approximately 1,202,256 ft³ or 8,992,875 gallons of stormwater for the drainage area. The pond has been designed to accommodate approximately 20,226,105 gallons of stormwater which is more than adequate to contain a 25-year, 24-hour storm. The riser pipe will discharge stormwater only when the gate valve is opened.

The 100-year, 24-hour storm fall totals are 8.8 inches over the entire 46 acres from the Civil Storm output. This rainfall event amounts to approximately 1,469,424 ft³ or 10,991,292 gallons of stormwater for the drainage area. The pond has been designed to accommodate approximately 20,226,105 gallons of stormwater which is more than adequate to contain a 100-year, 24-hour storm. The riser pipe will discharge stormwater only when the gate valve is opened.

3.0 POND CONSTRUCTION DETAILS

3.1 EMBANKMENTS AND DIKES

3.1.1 Material

The perimeter dikes will be constructed of relatively impervious soil and compacted to at least 95% Standard Proctor Density in order to form a stable structure. Vegetation and other unsuitable materials will be removed from the area where the embankment is to be placed to reduce the potential for dike failure due to decomposing vegetation.

3.1.2 Top Width

The top levee width will be twenty-four (24) feet wide to accommodate vehicles.

3.1.3 Minimum and Maximum Slopes

The inner and outer slopes will be constructed at a maximum of 3:1 (H:V) slope as shown on Detail BB on Drawing 16. Where necessary, the inner slope will not be flatter than a 4:1 slope and the outer slope will be sufficient to prevent surface runoff from entering the ponds.

3.1.4 Freeboard and Design Depth

The pond would need a capacity of 662,247 ft³ for a 25-year, 24-hour rain event. At elevation 1,288 feet, the pond has a capacity of 2,704,024 ft³. The levee's lowest elevation is at 1,290 feet, thus leaving a freeboard of approximately 2 feet. The pond is considered to



Stormwater Management Plan
Springdale, AR
Waste Management
Eco-Vista Class 1 Landfill
November 2013
Terracon Project No. 35097120

be a small system due to the footprint being approximately 8.6 acres. The bottom of the pond is at elevation 1,282 feet while the emergency spill way is at elevation 1,288 feet, thus leaving operating elevation of 6 feet.

3.1.6 Erosion Control

The dikes will have a covered layer of at least 4 inch of fertile soil to promote the establishment of vegetative cover. This vegetative cover will be established prior to prefilling (Section 3.2.2) the ponds in order to minimize erosion. The discharge and maintenance pipes will discharge into an area that has been lined with geotextile and riprap in order to prevent erosion. The emergency spillway will be lined with geotextile, concrete and rip-rap in order to prevent erosion.

3.2 POND BOTTOM

3.2.1 Soil

Soil used to construct the pond bottoms (not including the seal) and dike cores shall be relatively incompressible and tight and compacted at or up to 4% above the optimum water content to at least 95% Standard Proctor Density.

3.2.2 Seal

The pond shall be constructed with a minimum 16-inch thick compacted clay liner system that has a hydraulic conductivity of less than or equal to 1x10-7 cm/sec as measured by undisturbed hydraulic conductivity test or a soil liner system that meets the minimum requirements of Section 93.422 of "10 State Standards". Results of a testing program which substantiates the adequacy of the proposed seal must be incorporated into and/or accompany the engineering report and submitted to the ADEQ Water Division. Standard ASTM procedures or acceptable similar methods shall be used for all tests.

3.2.2 Prefilling

Prefilling the ponds should be considered in order to protect the liner, prevent weed growth, reduce odor and maintain moisture content of the seal. However, the dikes must be prepared as described in the preceding paragraphs before the introduction of water.

3.3 MISCELLANEOUS

3.3.1 Fencing, Access and Warning Signs

Trespassing onto Facility property is prevented by gates at the entrance to the landfill along the all-weather access from Arbor Acres Road. Signs at the entrance displays the hours of

Stormwater Management Plan ■ Springdale, AR

Waste Management ■ Eco-Vista Class 1 Landfill November 2013 ■ Terracon Project No. 35097120



operation. The public is only allowed access to the landfill during normal operating hours. Additional fencing and signs for the stormwater pond will not be necessary to prevent the entering of livestock or trespassers.

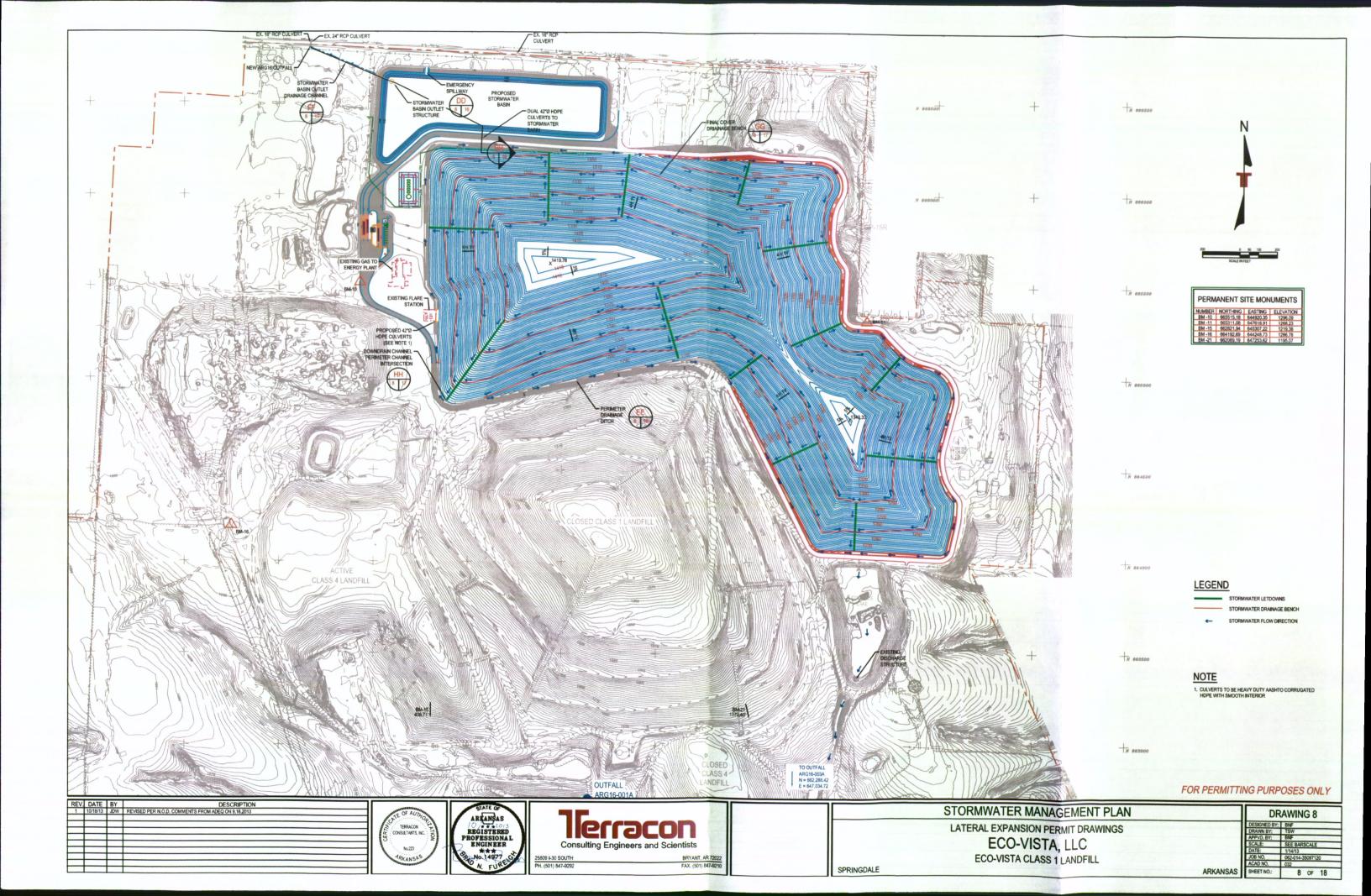
3.3.2 Pond Level Gauges

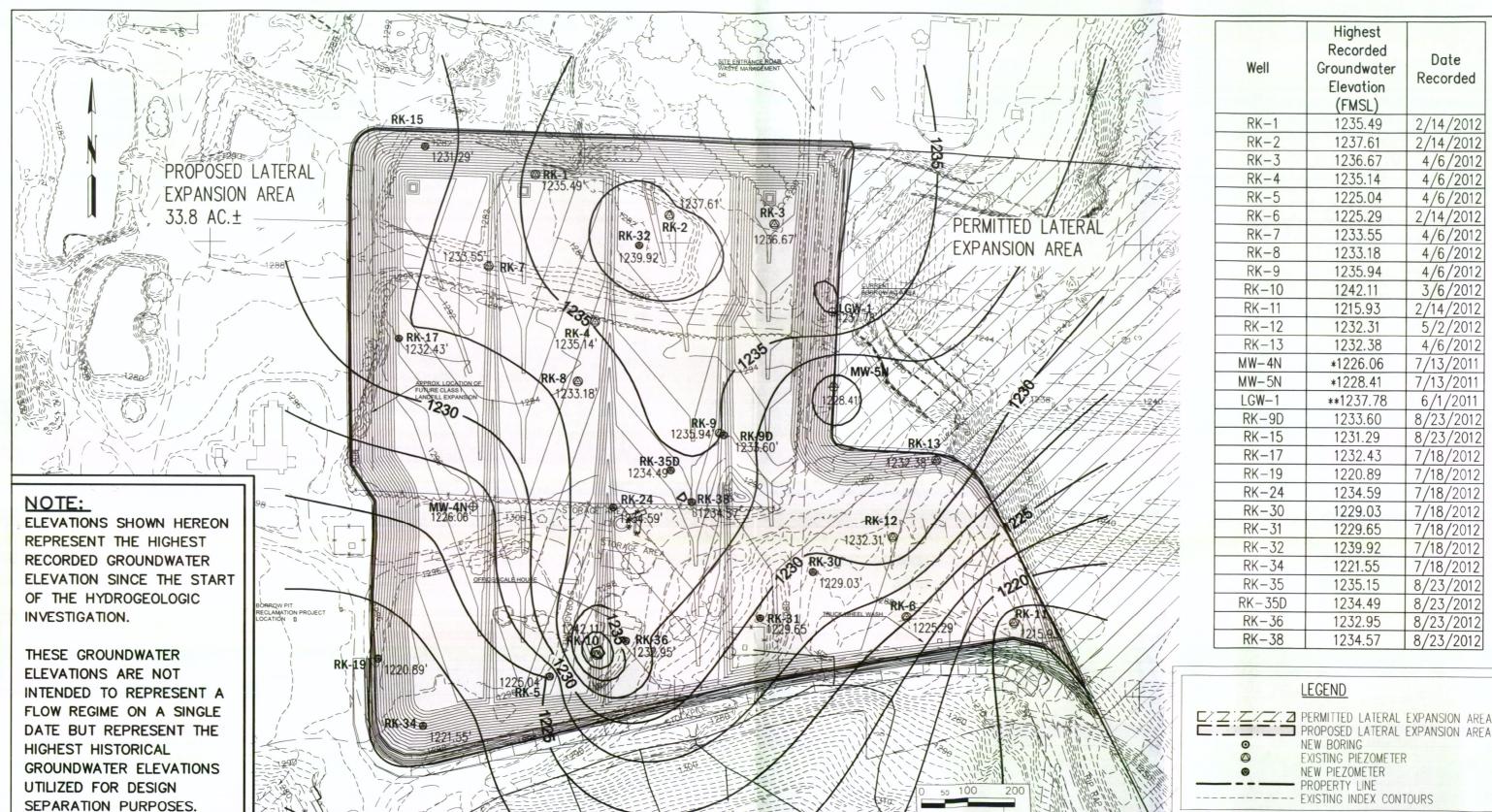
A pond level gauge will be provided in the pond that will allow easy assessment of the level of the pond water.



Stormwater Management Plan ■ Springdale, AR
Waste Management ■ Eco-Vista Class 1 Landfill
November 2013 ■ Terracon Project No. 35097120

Attachment AFacility Drawings





ECO VISTA LANDFILL FACILITY - HISTORIC HIGH GROUNDWATER ELEVATION MAP - FIGURE 4.6 ECO VISTA MAJOR MODIFICATION APPLICATION ECO VISTA, LLC SPRINGDALE 7529 Counts Massie Rd. N. Little Rock, AR 72113 Ph.: (501) 812-4551

CHIMNEY ROCK CONSULTING

REVISED: 10/30/13 JOB NO: 7-4005-0301 ACAD NO: 037

Date

Recorded

2/14/2012

2/14/2012

4/6/2012

4/6/2012

4/6/2012

2/14/2012

4/6/2012

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4/6/2012 7/13/2011

7/13/2011

6/1/2011 8/23/2012

8/23/2012

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8/23/2012

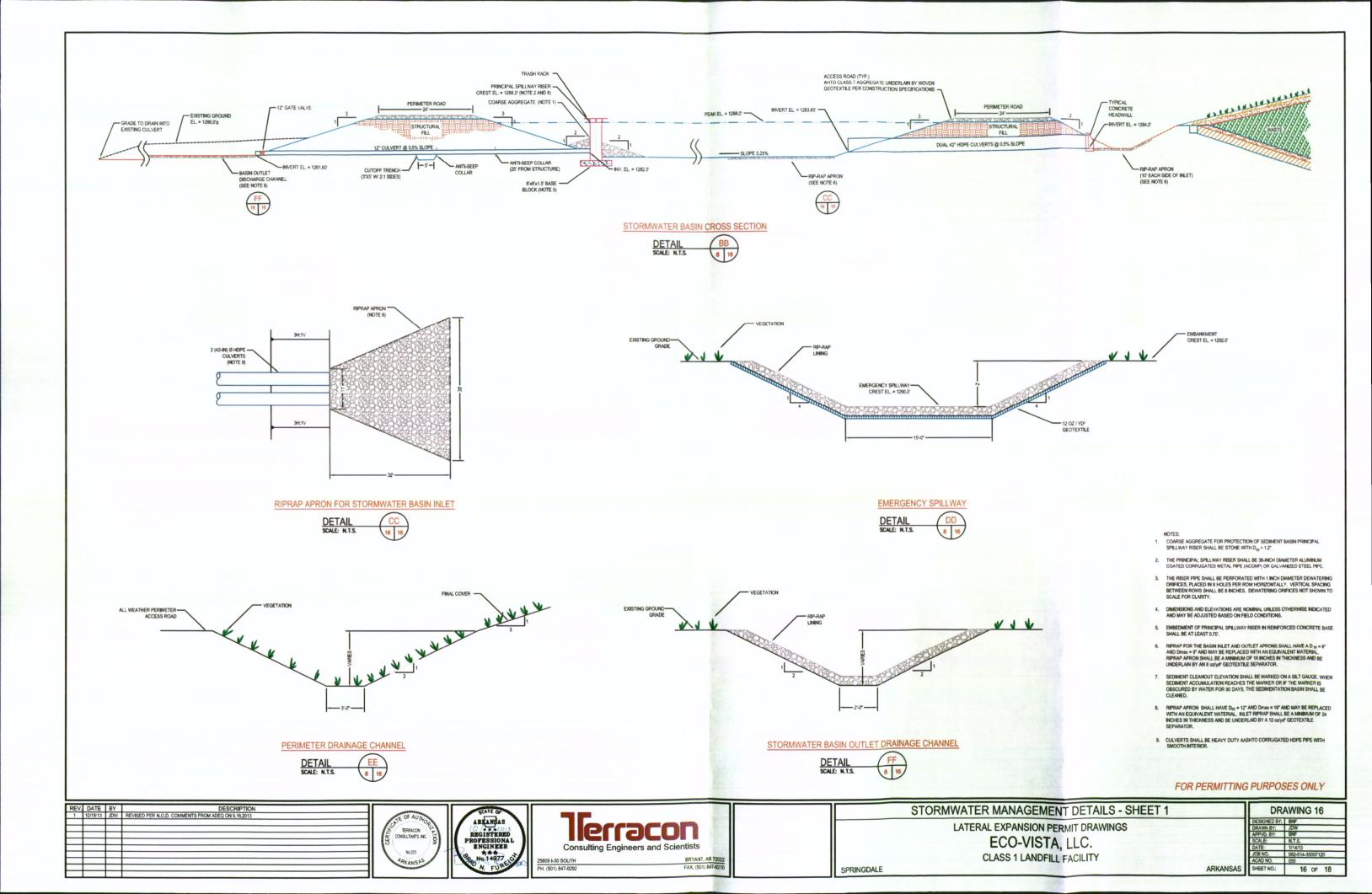
8/23/2012

8/23/2012

11/12

1'' = 200'DATE: NOVEMBER 2012

ARKANSAS





Stormwater Management Plan ■ Springdale, AR Waste Management ■ Eco-Vista Class 1 Landfill November 2013 ■ Terracon Project No. 35097120

Attachment BPond Calculations

Project Inventory: Eco Vista Expansion Area 25 YR.csd

Title Eco Vista Expansion Area Stormwater Design

Engineer Heath Lockley

Company Terracon Consultants, Inc.

Date 11/15/2012

Notes

Scenario Summary	
ID	88
Label	Scenario - 1
Notes	
Active Topology	<i>> Base Active Topology</i>
Physical	<i>> Base Physical</i>
Headloss	<i>> Base Headloss</i>
Boundary Condition	<i>> Base Boundary Condition</i>
Initial Settings	<i>> Base Initial Settings</i>
Hydrology	<i>> Base Hydrology</i>
Output	<i>> Base Output</i>
Inflow	<i>> Base Inflow</i>
Rainfall Runoff	<i>> Base Rainfall Runoff</i>
Water Quality	<i>> Base Water Quality</i>
Operational	<i>> Base Operational</i>
User Data Extensions	<i>> Base User Data Extensions</i>
Dynamic Solver Calculation Options	<i>> Base Calculation Options</i>

Network Inventory				
Conduits	0	Pond Outlet Structures	0	
Channels	3	Outfalls	1	
Gutter Links	0	Wet Wells	0	
Catch Basins	0	Pumps	0	
Manholes	0	Catchments	6	
Cross Sections	3	Ponds	1	

Calculation Executive Summary

Scenario	•		
Label	Scenario - 1		
Storm Event			
Label .	Base Rainfall Runoff	Return Event	(N/A) years
Global Storm Event	<none></none>		
Calculation Executive Summa	ary		
Total Inflow Volume	3,934,979.0 gal	Total System Volume Change	3,953,382.9 gal
Total System Outflow Volume	0.0 gal	Continuity Error	0.5 %
Total System Overflow Volume	377.3 gal	Total N-R Iterations	1610
Total Gutter Volume Change	(N/A) gal		

Calculation Detailed Summary

<general></general>			
Label	Base Calculation Options		
Inlets			
Neglect Side Flow?	False	Active Components for Combination Inlets In Sag	Grate and . Curb
Neglect Gutter Cross Slope For Side Flow?	False	Active Components for Combination Inlets on Grade	Grate and Curb
Options			<u> </u>
Calculation Time Step	0.025 hours	Hydrologic Time Step	0.025 hours
Output Increment	0.050 hours	Total Simulation Time	24.000 hours
Options (Advanced)			
Virtual Flow Depth	0.040 ft	NR Weighting Coefficient	0.700
Y Iteration Tolerance	0.03 ft	Relaxation Weighting Coefficient	0.600
LPI Coefficient	1.000	Computation Distance	50.00 ft

Catchment Calculation Summary

Label	Runoff Method	Loss M	ethod	Total Rainfall Depth (in)	Area (User Defined) (acres)
CM-1	Unit Hydrograph	SCS CN		7.2	3.307
CM-2	Unit Hydrograph	SCS CN		7.2	3.473
CM-3	Unit Hydrograph	SCS CN		7.2	6.876
CM-4	Unit Hydrograph	SCS CN		7.2	6.650
CM-5	Unit Hydrograph	SCS CN		7.2	7.895
CM-6	Unit Hydrograph	SCS CN		7.2	9.192
Volume (Total	Flow (Peak)	Time To Peak		=	
Runoff)	(ft³/s)	(hours)			
(gal)					
369,320.7	14.07	12.100			
397,829.0	15.16	12.100			
786,629.0	29.98	12.100			
792,733.1	30.21	12.100			
535,021.7	20.39	12.100			
1,051,424.4	39.15	12.100			

General Calculation Summary

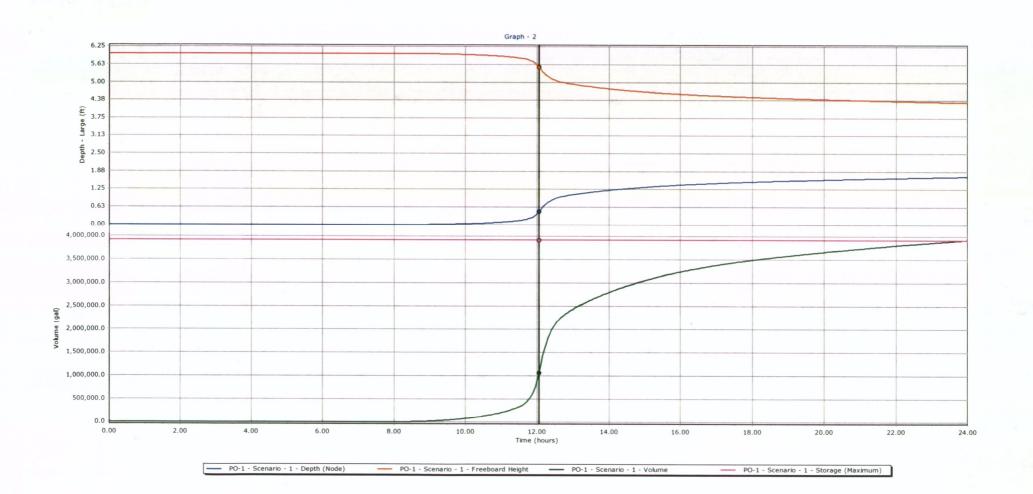
Label	Element Type	Branch	Time to Maximum Flow (hours)	Flow (Maximum) (ft³/s)
CH-1	Channel	2	12.100	51.94
CH-2	Channel	2	12.100	111.42
CH-3	Channel	1	12.100	27.69
CS-3	Cross Section	2		
CS-4	Cross Section	2		
CS-5	Cross Section	1		

Bentley Systems, Inc. Haestad Methods Solution Center 27 Siemon Company Drive Suite 200 W Watertown, CT 06795 USA +1-203-755-1666

Bentley CivilStorm V8i (SELECTseries 2) [08.11.02.75] Page 1 of 2

General Calculation Summary

Label	Element Type	_	Branch		to Maximum Flow (hours)	Flow (Maximum) (ft ³ /s)
PO-1	Pond		1			
Velocity (Maximum) (ft/s)	Hydraulic Grade (Maximum) (ft)					
4.45	. 1,290.97					
6.47	1,285.78					
1.99	1,285.52					
	1,295.77		•			
	1,286.41					
	1,286.11					
	1,283.69					•
•	Node	Calcu	lation Sun	ımary		
Label	Element Type	٠	Branch	Time to Max Inflow (hours)		ow (Total In Maximum) (ft³/s)
OF-2	Outfall		0		(N/A)	(N/A)
PO-1	Pond		1	:	12.100	136.75
Time To Maximum Inlet Flow (hours)	Flow (Surface Maximum) (ft³/s)	Cap	To Maximum stured Flow (hours)	Flow (Capto Maximun (ft ³ /s)		e to Maximum Overflow (hours)
						(N/A) 0.000
Flow (Overflow Maximum) (ft³/s) (N/A)]					
0.00]					
	Gutt	ter Ca	lculation S	Summary		
Label	Open Cross Section	on	Flow (Maxim (ft³/s)	-	to Maximum Flow (hours)	Velocity (Maximum) (ft/s)



Project Inventory: Eco Vista Expansion Area 100 YR.csd

Title Eco Vista Expansion Area Stormwater Design

Heath Lockley Engineer

Company Terracon Consultants, Inc.

Date 11/15/2012

Notes

Scenario Summary ID 1

Base

Label Notes

Base Active Topology **Active Topology**

Physical Base Physical Headloss Base Headloss

Base Boundary Condition Boundary Condition Initial Settings Base Initial Settings Hydrology Base Hydrology Base Output Output Inflow Base Inflow Rainfall Runoff Base Rainfall Runoff

Water Quality **Base Water Quality** Operational **Base Operational**

Base User Data Extensions User Data Extensions **Dynamic Solver Calculation Options Base Calculation Options**

Network Inventory			
Conduits	0	Pond Outlet Structures	0
Channels	3	Outfalls	1
Gutter Links	0 `	Wet Wells	0
Catch Basins	0	Pumps	0
Manholes	0	Catchments	6
Cross Sections	3	Ponds	1

Calculation Executive Summary

Scenario			•
Label	Base		
Storm Event			
Label	Base Rainfall Runoff	Return Event	(N/A) years
Global Storm Event	<none></none>		
Calculation Executive Summa	ary		
Total Inflow Volume	5,281,983.5 gal	Total System Volume Change	5,298,323.8 gal
Total System Outflow Volume	0.0 gal	Continuity Error	0.3 %
Total System Overflow Volume	402.3 gal	Total N-R Iterations	1735
Total Gutter Volume Change	(N/A) gal		

Calculation Detailed Summary

<general></general>			
Label	Base Calculation Options		
Inlets			
Neglect Side Flow?	False	Active Components for Combination Inlets In Sag	Grate and Curb
Neglect Gutter Cross Slope For Side Flow?	False	Active Components for Combination Inlets on Grade	Grate and Curb
Options		· · · · · · · · · · · · · · · · · · ·	1
Calculation Time Step	0.025 hours	Hydrologic Time Step	0.025 hours
Output Increment	0.050 hours	Total Simulation Time	24.000 hours
Options (Advanced)	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
Virtual Flow Depth	0.040 ft	NR Weighting Coefficient	0.700
Y Iteration Tolerance	0.03 ft	Relaxation Weighting Coefficient	0.600
LPI Coefficient	1.000	Computation Distance	50.00 ft

Catchment Calculation Summary

Label	Runoff Method	Loss Meth	od	Total Rainfall Depth (in)	Ārea (User Defined) (acres)
CM-1	Unit Hydrograph	SCS CN		7.2	3.307
CM-2	Unit Hydrograph	SCS CN		7.2	3.473
CM-3	Unit Hydrograph	SCS CN		7.2	6.876
CM-4	Unit Hydrograph	SCS CN		7.2	· 6.650
CM-5	Unit Hydrograph	SCS:CN		7.2	7.895
CM-6	Unit Hydrograph	SCS CN		7.2	9.192
Volume (Total	Flow (Peak)	Time To Peak 1			
Runoff)	(ft³/s)	(hours)			
(gal)					
506,760.3	19.11	12.100			
532,770.1	20.09	12.100			
1,053,459.1	39.72	12.100	-	•	
1,061,627.8	40.03	12.100			
716,499.1	27.01	12.100			
1,408,088.1	52.01	12.100			

General Calculation Summary

Lal	bel	Element Type	Branch	Time to Maximum Flow (hours)	Flow (Maximum) (ft³/s)
CH-1		Channel	2	12.100	69.47
CH-2		Channel	2	12.100	148.86
CH-3		Channel	1	12.100	37.09
CS-3	· ·	Cross Section	2 .		
CS-4		Cross Section	. 2		
CS-5	Y	Cross Section	. 1		

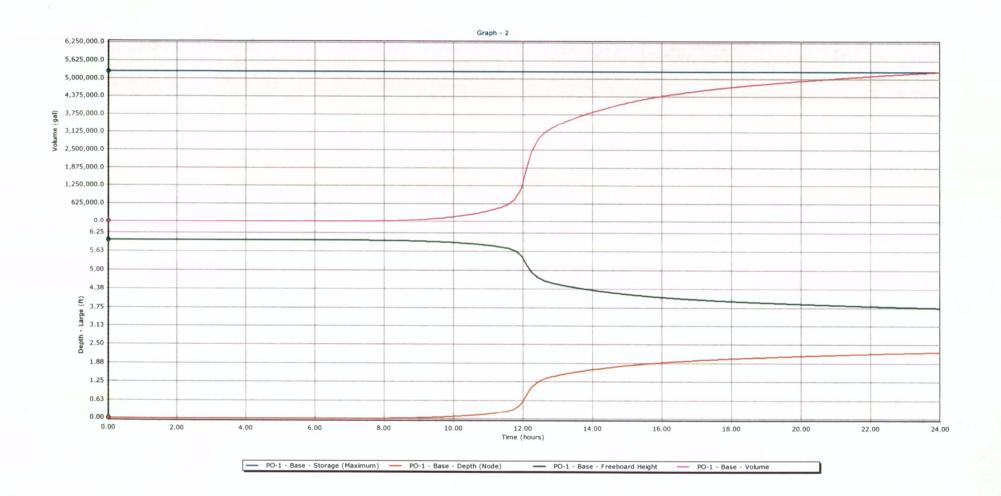
Bentley Systems, Inc. Haestad Methods Solution Center 27 Siemon Company Drive Suite 200 W Watertown, CT 06795 USA +1-203-755-1666

Bentley CivilStorm V8i (SELECTseries 2) [08.11.02.75] Page 1 of 2

Eco Vista Expansion Area 100 YR.csd 1/4/2013

General Calculation Summary

Label	Element Type	Branch	Time to Maxi Flow (hours)		Flow (Maximi (ft ³ /s)	um)
PO-1	Pond	1	1			
Velocity (Maximum) (ft/s)	Hydraulic Grade (Maximum) (ft)			-		
4.79	1,291.23					
7.04	1,286.09					
2.17	1,285.79					
	1,296.04					
	1,286.74					
	1,286.40					
	1,284.25		1			
•	Node	Calculation Sum	nmary			
Label	Element Type	Branch	Time to Maximum Inflow (hours)	Max	Total In imum)	
OF-2	Outfall	0	(N/A)		(N/A)	
PO-1	Pond	1	12.100		183.76	
Time To Maximum Inlet Flow (hours)	Flow (Surface Maximum) (ft³/s)	Time To Maximum Captured Flow (hours)	Flow (Captured Maximum) (ft ³ /s)	Ove	Maximum erflow ours)	
					(N/A) 0.000	
Flow (Overflow Maximum) (ft³/s) (N/A)	, 1					
0.00						
'n	Gut	ter Calculation S	Summary			
Label	Open Cross Secti	on Flow (Maxim (ft³/s)	ium) Time to Maxi Flow (hours)	mum Ve	elocity (Maxir (ft/s)	num)



	Worksheet for	Mid-Slope B	erm	
Project Description				
Friction Method	Manning Formula	•		
Solve For	Discharge			
Input Data				
Roughness Coefficient		0.030		
Channel Slope		0.03000	ft/ft	
Normal Depth		18.00	in .	
Left Side Slope		2.00	ft/ft (H:V)	
Right Side Slope		4.00	ft/ft (H:V)	
Results				
Discharge		45.98	ft³/s	
Flow Area		6.75	ft²	
Wetted Perimeter		9.54	ft	
Hydraulic Radius		8.49	in	
Top Width	•	9.00	ft	
Critical Depth		1.71	ft	
Critical Slope	:	0.01493	ft/ft	
Velocity		6.81	ft/s	
Velocity Head		0.72	ft	
Specific Energy		2.22	ft	
Froude Number		1.39		
Flow Type	Supercritical			
GVF Input Data				
Downstream Depth		0.00	in .	
Lenath		0.00	ft	

Terracon Consultants, Inc

Worksheet for Mid-Slope Berm

GVF(Input)Data

Number Of Steps

0

GVF Output Data

Upstream Depth	0.00	in
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	18.00	in
Critical Depth	1.71	ft
Channel Slope	0.03000	ft/ft
Critical Slope	0.01493	ft/ft

Cross Section for Mid-Slope Berm

Project Description

Friction Method Manning Formula

Solve For Discharge

Input Data

Roughness Coefficient	0.030	
Channel Slope	0.03000	ft/ft
Normal Depth	18.00	in
Left Side Slope	2.00	ft/ft (H:V)
Right Side Slope	4.00	ft/ft (H:V)
Discharge	45.98	ft³/s

Cross Section Image



V: 1 \(\bar{\text{H: 1}}\)

	Workshe	et for Letdown	<u> </u>		
Project Description					
Friction Method	Manning Formula				
Solve For	Discharge			•	•
nput Data					
Roughness Coefficient		0.069			
Channel Slope		0.25000	ft/ft		- i
Normal Depth	•	12.00	in		
Left Side Slope		3.00	ft/ft (H:V)		*
Right Side Slope	•	3.00	ft/ft (H:V)		•
Bottom Width		5.00	ft		
Results					
Discharge		68.33	ft³/s		
Flow Area		8.00	ft²		
Wetted Perimeter	•	11.32	ft		
Hydraulic Radius		8.48	in		
Γορ Width		11.00	ft		
Critical Depth		, 1.37	ft		
Critical Slope		0.07398	ft/ft		
Velocity		8.54	ft/s		
Velocity Head	•	, 1.13	ft		
Specific Energy		2.13	ft		
Froude Number		1.77			
Flow Type	Supercritical			•	
GVF Input Data					
Downstream Depth		0.00	in	•	
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Worksheet for Letdown

GVF	Input	Data

Length 0.00 ft
Number Of Steps 0

GVFOutput Data

Upstream Depth	0.00	in
Profile Description	•	
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	12.00	in
Critical Depth	1.37	ft
Channel Slope	0.25000	ft/ft
Critical Slope	0.07398	ft/ft

Cross Section for Letdown

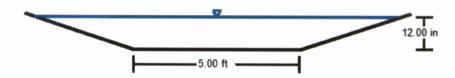
Project Description

Friction Method Manning Formula
Solve For Discharge

Input Data

Roughness Coefficient	0.069	
Channel Slope	0.25000	ft/ft
Normal Depth	12.00	in
Left Side Slope	3.00	ft/ft (H:V)
Right Side Slope	3.00	ft/ft (H:V)
Bottom Width	5.00	ft
Discharge	68.33	ft³/s

Cross Section Image



V: 1 📐

Worksheet for Perimeter Ditch				
Project Description				
Friction Method	Manning Formula			
Solve For	Discharge			
Input Data				
Roughness Coefficient		0.020		
Channel Slope		0.00600	ft/ft	
Normal Depth		36.00	in	
Left Side Slope		2.00	ft/ft (H:V)	
Right Side Slope		2.00	ft/ft (H:V)	
Bottom Width		3.00	ft .	
Results				
Discharge ,		216.50	ft³/s	
Flow Area		27.00	ft²	
Wetted Perimeter		16.42	ft	
Hydraulic Radius		19.74	in	
Гор Width		15.00	ft .	
Critical Depth .		3.08	ft	
Critical Slope		0.00537	ft/ft	
Velocity	•	8.02	ft/s	
Velocity Head		1.00	ft	
Specific Energy		4.00	ft	
Froude Number		1.05		
Flow Type	Supercritical			
GVF Input Data				
Downstream Depth		0.00	in	

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Page 1 of 2

Worksheet for Perimeter Ditch

<u> </u>	orksneet for Perimeter Ditch	
GVF(Input) Data		
Length	0.00 ft	
Number Of Steps	0	
GVFOutput(Data		
Upstream Depth	0.00 in	
Profile Description		
Profile Headloss	0.00 ft	
Downstream Velocity	Infinity ft/s	
Upstream Velocity	Infinity ft/s	
Normal Depth	36.00 in	
Critical Depth	3.08 ft	
Channel Slope	0.00600 ft/ft	
Critical Slope	0.00537 ft/ft	

Cross Section for Perimeter Ditch

Project Description

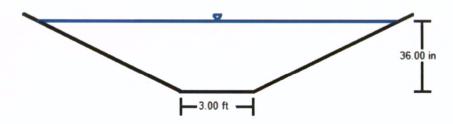
Friction Method Manning Formula

Solve For Discharge

Input Data

Roughness Coefficient	0.020	
Channel Slope	0.00600	ft/ft
Normal Depth	36.00	in
Left Side Slope	2.00	ft/ft (H:V)
Right Side Slope	2.00	ft/ft (H:V)
Bottom Width	3.00	ft
Discharge	216.50	ft³/s

Cross Section Image



V: 1 \(\bar{\chi}{\chi} \)

Worksheet for Pond Inlet					
Project Description					
Friction Method	Manning Formula				
Solve For	Full Flow Capacity				
Input Data					
Roughness Coefficient	,	0.010			
Channel Slope		0.02500	ft/ft		
Normal Depth	•	42.00	in		
Diameter		. 42.00	in		
Discharge		206.79	ft³/s		
Results					
Discharge		206.79	ft³/s		,
Normal Depth		42.00	in		
Flow Area		9.62	ft² →		
Wetted Perimeter		11.00	ft		
Hydraulic Radius		10.50	in		
Top Width	-	0.00	ft		
Critical Depth	•	3.47	ft	-	
Percent Full		100.0	%		
Critical Slope		0.02310	ft/ft	•	
Velocity		21.49	ft/s		
Velocity Head		7.18	ft		,
Specific Energy		10.68	ft		
Froude Number		0.00			
Maximum Discharge	V	222.45	ft³/s		
Discharge Full		206.79	ft³/s		
Slope Full	•	0.02500	ft/ft		

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Bentley FlowMaster V8i (SELECTseries 1) [08.11.01.03]

Worksheet for Pond Inlet

Zeanis	The Sale of	

Flow Type SubCritical

GVF(Input/Data

Downstream Depth 0.00 in Length 0.00 ft Number Of Steps 0.00 t

GVF Output Data

Upstream Depth	0.00	in
Profile Description		
Profile Headloss -	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	100.00	%
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	42.00	in
Critical Depth	3.47	ft
Channel Slope	0.02500	ft/ft
Critical Slope	0.02310	ft/ft

Cross Section for Pond Inlet

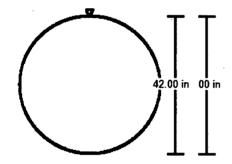
Project	Descri	ption
---------	--------	-------

Friction Method Manning Formula Solve For **Full Flow Capacity**

Input Data

Roughness Coefficient	0.010	•
Channel Slope	0.02500	ft/ft
Normal Depth	42.00	in
Diameter	42.00	in
Discharge	206.79	ft³/s

Cross Section Image



Worksheet for Pond Discharge			
Project Description			
Friction Method	Manning Formula		
Solve For	Full Flow Capacity		
Input Data			
Roughness Coefficient		0.010	•
Channel Slope		0.00500	ft/ft
Normal Depth		12.00	in ,
Diameter		12.00	in
Discharge		3.27	ft³/s
Results			
Discharge	-	3.27	ft³/s
Normal Depth		12.00	in
Flow Area		0.79	ft²
Wetted Perimeter		3.14	ft
Hydraulic Radius		3.00	in
Top Width		0.00	ft
Critical Depth		0.77	ft
Percent Full		100.0	%
Critical Slope		0.00559	ft/ft
Velocity		4.17	ft/s
Velocity Head	•	0.27	ft
Specific Energy		1.27	ft
Froude Number		0.00	
Maximum Discharge		3.52	ft³/s
Discharge Full		3.27	ft³/s
Slope Full		0.00500	ft/ft
Flow Type	SubCritical		
GVF Input Data			
Downstream Depth		0.00	in
Length		0.00	ft
Number Of Steps		0	
GVF Output Data			
Upstream Depth		0.00	in
Profile Description			
Profile Headloss		0.00	ft
Average End Depth Over Rise		0.00	%
56		***************************************	

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Worksheet for Pond Discharge

GVFOutput[Data]		
Normal Depth Over Rise	100.00	%
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	12.00	in
Critical Depth	0.77	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00559	ft/ft

Cross Section for Pond Discharge

Project Description

Friction Method

Manning Formula

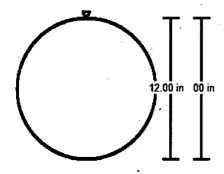
Solve For

Full Flow Capacity

Input Data

Roughness Coefficient	0.010	
Channel Slope	0.00500	ft/ft
Normal Depth	12.00	in
Diameter	12.00	in
Discharge	3.27	ft³/s

Cross Section Image





Hand Delivered Mail Receipt

Date	11/25/13
Division	NPDES
Sender	
Received By	Carrio Dallson

Wilson, Tabatha

From: Taylor, Jodi <jtaylo28@wm.com>

Sent: Wednesday, December 18, 2013 12:34 PM

To: Peltier, Hannah

Cc: Wilson, Tabatha; Borgeson, J.D.; Fuller, Kim; Harmon, Jennifer K

(jkharmon@terracon.com); Conrad, David

Subject: RE: Incomplete Letter for Construction Application - ARG160045C

Attachments: DOC.PDF

Attached please find Section I: Signatory Requirements. Please let me know if you need the original hardcopy as well, and I can hand deliver. Jennifer Harmon sent Forms 10Q and 10K to cover our disclosure information. I believe that should complete the application, but if not please let me know. Thank you very much!!!

Jodi

Jodi Taylor
Environmental Protection Manager - Arkansas
jtaylo28@wm.com

Waste Management of Arkansas, Inc. Arkansas Tennessee Alabama Kentucky Market Area 100 Two Pine Drive North Little Rock, AR 72117 Tel 501.982.7336 Cell 501.993.8966 Fax 501.982.2606

Waste is a resource. Waste Management captures value from waste streams by recycling and generating clean, renewable energy. Surprised? Learn how at www.wm.com.

From: Peltier, Hannah [mailto:peltier@adeq.state.ar.us]

Sent: Wednesday, December 11, 2013 3:52 PM

To: Taylor, Jodi

Cc: Wilson, Tabatha; Borgeson, J.D.; Fuller, Kim

Subject: Incomplete Letter for Construction Application - ARG160045C

Good Afternoon,

Here is a copy of the letter and forms that were sent November 27. If you have any questions please let me know. Thank you!

Hannah Peltier Water Division 501-682-0613

Recycling	is a good	thing. Ple	ase recycl	e any print	ed emails.	

SECTION I: SIGNATORY REQUIREMENTS

Cognizant Official (Duly Authorized Representative)

40 CFR 122.22(b) states that all reports required by the permit, or other information requested by the Director, shall be signed by the applicant (or person authorized by the applicant) or by a duly authorized representative of that person. A person is duly authorized representative only if:

- (1) the authorization is made in writing by the applicant (or person authorized by the applicant);
- the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity responsibility, or an individual or position having overall responsibility for environmental matters for the company.

The applicant hereby designates the following person as a Cognizant Official, or duly authorized representative, for signing reports, etc., including Discharge Monitoring Reports (DMR) required by the permit, and other information requested by the Director:

Signature of Cognizant Official:	STE	Date: 12.17.13
Printed name of Cognizant Official:	Jode Taylo	n .
Official title of Cognizant Official:	Env Protection Mgr	Telephone Number: 501.987. 7336
Responsible Official	ý	
The information contained in this for applications" (40 CFR 122.22).	m must be certified by a <i>responsible offici</i>	ial as defined in the "signatory requirements for permit
Responsible official is defined as followed	ows:	ا دا د س
Corporation, a principal officer of at Partnership, a general partner Sole proprietorship: the proprietor	least the level of vice president	Initials
	ublic facility: principal executive officer, of	or ranking elected official.
the applicant to be the responsible of the performance (Initial) "I certify that, if this	OTE: If no duly authorized representative in official for the facility and only reports, e	ied to act as a duly authorized representative under the is designated in this section, the Department considers etc., signed by the applicant will be accepted by the eith the Secretary of State in Arkansas. Please provide
with a system designed to assure that inquiry of the person or persons who information submitted is, to the best of penalties for submitting false information under penalty of law that all analyses	at qualified personnel properly gather and o manage the system, or those persons di of my knowledge and belief, true, accurate tion including the possibility of fine and in	pared under my direction or supervision in accordance d evaluate the information submitted. Based on my lirectly responsible for gathering the information, the e, and complete. I am aware that there are significant imprisonment for knowing violations. I further certify plication or attachments thereto were performed using the tested."
Printed name of Responsible Official:	Charles (-11)	16:11:13
remed name of Kesponsible Official:	Charles de la constante de la	
Official title of Responsible Official:	I decetor of Disposal Operal	has CTelephone Number: 1015-7104-4745