



**CORRESPONDENCE COVER SHEET
WASTE PERMITS DIVISION
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

Date: October 29, 2024
Facility Name: CSC Disposal and Landfill
Permit or Registration No.: 1209B

Nature of Correspondence:
☒ Initial/New
☐ Response/Revision*

*If Response/Revision, please provide previous TCEQ Tracking No.:

(Previous TCEQ Tracking No. can be found in the Subject line of the TCEQ's response letter to your original submittal.)

This cover sheet should accompany all correspondences submitted to the Waste Permits Division and should be affixed to the front of your submittal as a cover page. Please check the appropriate box for the type of correspondence being submitted. For questions regarding this form, please contact the Waste Permits Division at (512) 239-2335.

Table 1 - Municipal Solid Waste

APPLICATIONS	REPORTS and RESPONSES
☐ New Notification	☐ Closure Report
☐ New Permit (including Subchapter T)	☐ Groundwater Alternate SRC Demonstration
☐ New Registration (including Subchapter T)	☐ Groundwater Corrective Action
☐ Major Amendment	☐ Groundwater Monitoring Report
☐ Minor Amendment	☐ Groundwater Statistical Evaluation
☐ Limited Scope Major Amendment	☐ Landfill Gas Corrective Action
☒ Notice Modification	☐ Landfill Gas Monitoring
☐ Non-Notice Modification	☐ Liner Evaluation Report
☐ Transfer/Name Change Modification	☐ Soil Boring Plan
☐ Temporary Authorization	☐ Special Waste Request
☐ Voluntary Revocation	☐ Other:
☐ Subchapter T Workplan	
☐ Other:	

Table 2 - Industrial & Hazardous Waste

APPLICATIONS	REPORTS and RESPONSES
☐ New	☐ Annual/Biennial Site Activity Report
☐ Renewal	☐ CfPT Plan/Result
☐ Post-Closure Order	☐ Closure Certification/Report
☐ Major Amendment	☐ Construction Certification/Report
☐ Minor Amendment	☐ CPT Plan/Result
☐ Class 3 Modification	☐ Extension Request
☐ Class 2 Modification	☐ Groundwater Monitoring Report
☐ Class 1 ED Modification	☐ Interim Status Change
☐ Class 1 Modification	☐ Interim Status Closure Plan
☐ Endorsement	☐ Soil Core Monitoring Report
☐ Temporary Authorization	☐ Treatability Study
☐ Voluntary Revocation	☐ Trial Burn Plan/Result
☐ 335.6 Notification	☐ Unsaturated Zone Monitoring Report
☐ Other:	☐ Waste Minimization Report
	☐ Other:

October 29, 2024

Ms. Megan Henson
MSW Permits Section Manager
Texas Commission on Environmental Quality
P.O. Box 13087- MC 124
Austin, Texas 78711-3087

Re: Municipal Solid Waste and Class 1 Waste – Ellis County
CSC Disposal and Landfill – MSW Permit No. 1209B
Permit Modification Request to Add Leachate Evaporation Pond
RN100218031; CN603851882
CEC Project No. 315-320

Dear Ms. Henson:

Civil & Environmental Consultants, Inc., (CEC), is pleased to submit this Permit Modification request on behalf of Republic Waste Services of Texas, Ltd. (Republic), for the CSC Disposal and Landfill (Landfill) located in Avalon, Texas.

The specific change requested in this modification is to allow Republic to add a lined evaporation pond within the landfill footprint for the disposal of landfill leachate, gas condensate, and contaminated water. The pond is proposed to have a 2 feet thick re-compacted clay liner and a double layer of 60 mil HDPE liner. Between the two HDPE liners, there will be a geocomposite drainage layer to act as a leak detection system.

This modification proposes to revise the following sections of the facility's permit application document:

Part III-Attachment 1 (Site Layout Plan)

1. Insert Figure 1-1A to depict the existing conditions at the Landfill and show the proposed location of the evaporation pond.

Part III-Attachment 8 (Cost Estimate for Closure and Post-Closure Care):

1. Revise Section 2.2 (page 8-3) to include cost estimates for decommissioning, removal, and cleanup of the pond.
2. Revise Table 8-1 to include cost estimates for decommissioning, removal, and cleanup of the pond.

Part III-Attachment 15 (Leachate and Contaminated Water Plan):

1. Revise Figure 15A to include the proposed location of the evaporation pond.
2. Insert Figures 15D and 15E to provide details related to the evaporation pond and construction.
3. Revise and add Sections 5.1, 5.4, 5.5, 5.6 and 5.7 (pages ATT15-12, ATT15-15 through ATT15-17) of the text to discuss evaporation pond construction, inspections, odor management, spill evaluation, cleanup measures, decommissioning, and removal procedures.
4. Insert the Leachate Evaporation Pond Inspection Form.

Part IV-Site Operating Plan:

1. Revise Section 4.3.1 (page IV SOP-20) to reference operational and removal procedures in Attachment 15.
2. Revise Section 15.2 (page IV SOP-57) to reference odor management provisions in Attachment 15.

This modification is requested as a notice modification in accordance with 30 TAC §305.70(k)(11) and an updated copy of the adjacent landowners map and list are included in Attachment C. A signed certification for this request is attached and the required modification fee has been paid and the receipt is included in this submittal.

Thank you for your assistance with the review of this request and please contact us if you require any additional information.

Very truly yours,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
Texas Registered Engineering Firm F-38



Adam T. Conti, P.E.
Project Manager



Adam Mehevec, P.E.
Vice President

cc: Mr. Scott Trebus, Area Environmental Manager
Mr. Adam Kesterholt, Environmental Manager

Ms. Megan Henson
CEC Project 315-320
Page 3
October 29, 2024

Attachments

- 1 - Permit Modification Application Form
- 2 - Redline Version of Documents
- 3 - Clean Version of Documents
- 4 - Core Data Form
- 5 - Fee Payment Receipt

ATTACHMENT 1
Permit Modification Application Forms



Texas Commission on Environmental Quality

Application Form for Municipal Solid Waste Permit or Registration Modification or Temporary Authorization

Application Tracking Information

Facility Name: CSC Disposal and Landfill

Permittee or Registrant Name: Republic Waste Services of Texas, Ltd.

MSW Authorization Number: 1209B

Initial Submission Date: 10/29/2024

Revision Date: _____

Instructions for completing this form are provided in [form TCEQ-20650-instr](#)¹. If you have questions, contact the Municipal Solid Waste Permits Section by email to [\[REDACTED\]](#) or by phone at 512-239-2335.

Application Data

1. Submission Type
☒ Initial Submission ☐ Notice of Deficiency (NOD) Response
2. Authorization Type
☒ Permit ☐ Registration
3. Application Type
☒ Modification with Public Notice ☐ Modification without Public Notice
☐ Temporary Authorization (TA) ☐ Modification for Name Change or Transfer
4. Application Fee
Amount The application fee for a modification or temporary authorization is \$150.
Payment Method ☐ Check ☒ Online through ePay portal www3.tceq.texas.gov/epay/
If paid online, enter ePay Trace Number: <u>[REDACTED]</u>

¹ www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20650-instr.pdf

5. Electronic Versions of Application

For modifications that require notice, TCEQ will publish electronic versions of the application online. Applicants must provide a clean copy of the administratively complete application and technically complete application. TCEQ will also publish electronic versions of NOD responses online.

6. Party Responsible for Mailing Notice

For modifications that require notice, indicate who will be responsible for mailing notice:

☐ Applicant ☐ Agent in Service ☒ Consultant

Contact Name: Corey P. Perkin

Title: Assistant Project Manager

Email Address: [REDACTED]

7. Confidential Documents

Does the application contain confidential documents?

☐ Yes ☒ No

If "Yes", reference the confidential documents in the application, but submit the confidential documents as an attachment in a separate binder marked "CONFIDENTIAL."

8. Facility General Information

Facility Name: CSC Disposal and Landfill

Contact Name: Adam Kesterholt Title: Environmental Manager

MSW Authorization Number (if existing): 1209B

Regulated Entity Reference Number: **RN** 100218031

Physical or Street Address: 101 Republic Way

City: Avalon County: Ellis State: TX Zip Code: 76623

Phone Number: (972) 627-3413

Latitude (Degrees, Minutes, Seconds): 32.22

Longitude (Degrees, Minutes, Seconds): -96.79

9. Facility Types

☒ Type I ☐ Type IV ☐ Type V
☐ Type IAE ☐ Type IVAE ☐ Type VI

10. Description of the Revisions to the Facility

Provide a brief description of revisions to permit or registration conditions and supporting documents referred to by the permit or registration, and a reference to the specific provisions under which the modification or temporary authorization application is being made. Also, provide an explanation of why the modification or temporary authorization is needed:

The purpose of this modification is to revise the estimated Closure Costs, Leachate and Contaminated Water Plan, and Site Operating Plan to add an on-site lined leachate evaporation pond.

11. Facility Contact Information

Site Operator (Permittee or Registrant)

Name: Republic Waste Services of Texas, Ltd.

Customer Reference Number: **CN** 600132534

Contact Name: Adam Kesterholt Title: Environmental Manager

Mailing Address: 1212 Harrison Ave.

City: Arlington County: Tarrant State: TX Zip Code: 76011

Phone Number: (682) 401-1196

Email Address: [REDACTED]

Texas Secretary of State (SOS) Filing Number: _____

Operator (if different from Site Operator)

Name: _____

Customer Reference Number: **CN** _____

Contact Name: _____ Title: _____

Mailing Address: _____

City: _____ County: _____ State: _____ Zip Code: _____

Phone Number: _____

Email Address: _____

Texas Secretary of State (SOS) Filing Number: _____

Consultant (if applicable)Firm Name: Civil & Environmental Consultants, Inc.

Consultant Name: _____

Texas Board of Professional Engineers Firm Registration Number: F-38Contact Name: Adam Mehevec Title: Vice PresidentMailing Address: 1221 South MoPac Expressway, Suite 350City: Austin County: Travis State: TX Zip Code: 78746Phone Number: (512) 439-0400Email Address: [REDACTED]**Agent in Service (required for out-of-state applicants)**

Name: _____

Mailing Address: _____

City: _____ County: _____ State: TX Zip Code: _____

Phone Number: _____

Email Address: _____

12. Ownership Status of the Facility

Is this a modification that changes the legal description, the property owner, or the Site Operator (Permittee or Registrant)?

☐ Yes ☒ No

If the answer is "No", skip this section.

Does the Site Operator (Permittee or Registrant) own all the facility units and all the facility property?

☐ Yes ☐ No

If "No", provide the following information for other owners.

Owner Name: _____

Mailing Address: _____

City: _____ County: _____ State: TX Zip Code: _____

Phone Number: _____

Email Address: _____

Signature Page

Site Operator or Authorized Signatory

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 who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Adam Kesterholt Title: Environmental Manager

Email Address: [REDACTED]

Signature: AK Date: 12/9/2024

Operator or Principal Executive Officer Designation of Authorized Signatory

To be completed by the operator if the application is signed by an authorized representative for the operator.

I hereby designate _____ as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Operator or Principal Executive Officer Name: _____

Email Address: _____

Signature: _____ Date: _____

Notary

SUBSCRIBED AND SWORN to before me by the said ADAM KESTERHOLT

On this 9 day of DECEMBER, 2024

My commission expires on the 19 day of MARCH, 2025

AK

Notary Public in and for

TARRANT County, Texas



Note: Application Must Bear Signature and Seal of Notary Public

Attachments for Permit or Registration Modification with Public Notice

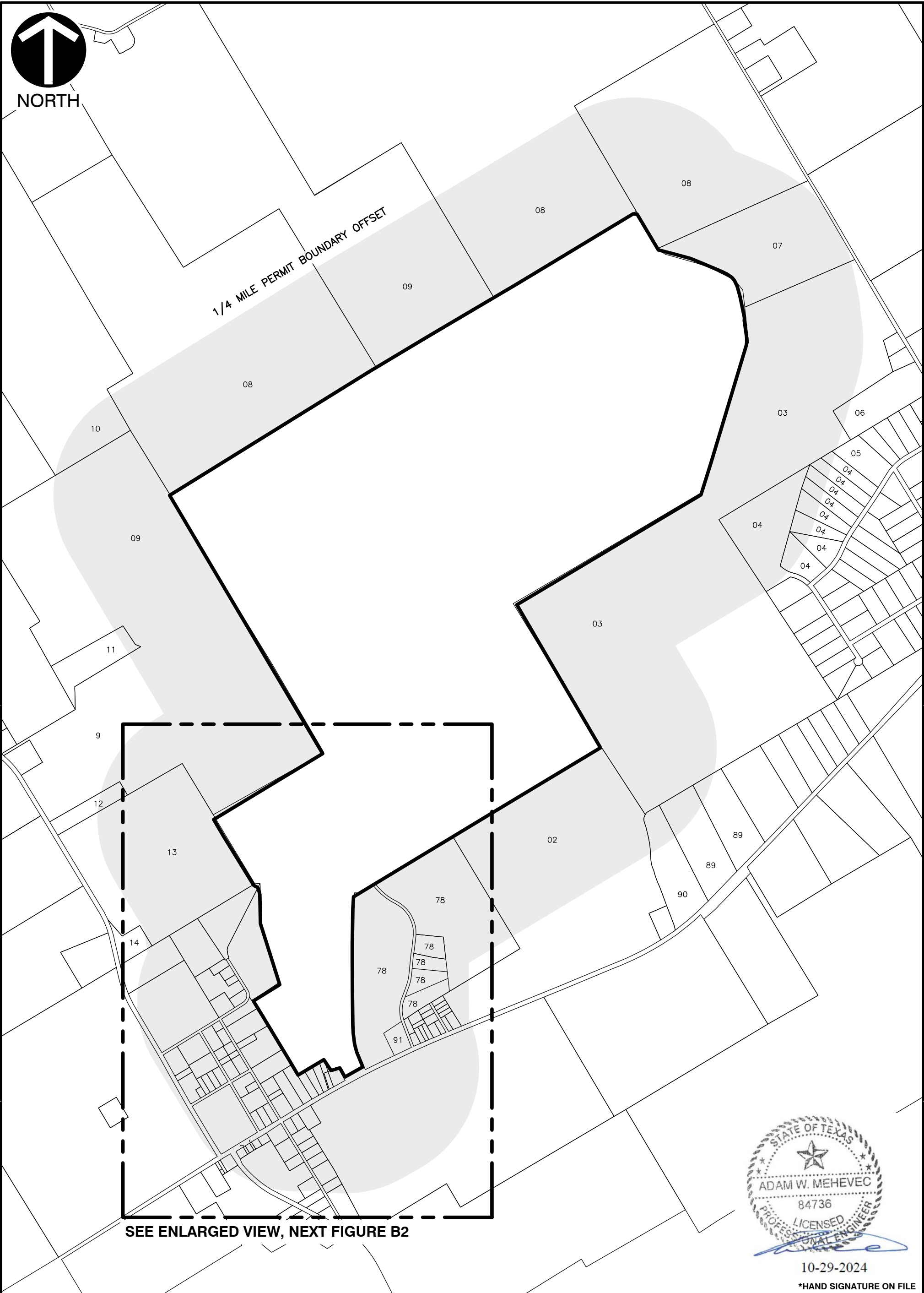
Refer to instruction document **200650-instr** for professional engineer seal requirements.

Attachments Table 1. Required attachments.

Required Attachments	Attachment Number
Land Ownership Map	1
Landowners List	1
Marked (Redline/Strikeout) Pages	2
Unmarked Revised Pages	3

Attachments Table 2. Additional attachments as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
☒ TCEQ Core Data Form(s)	4
☐ Signatory Authority Delegation	
☒ Fee Payment Receipt	5
☐ Confidential Documents	



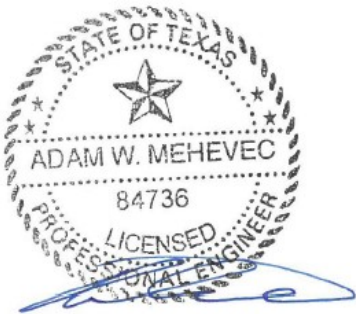
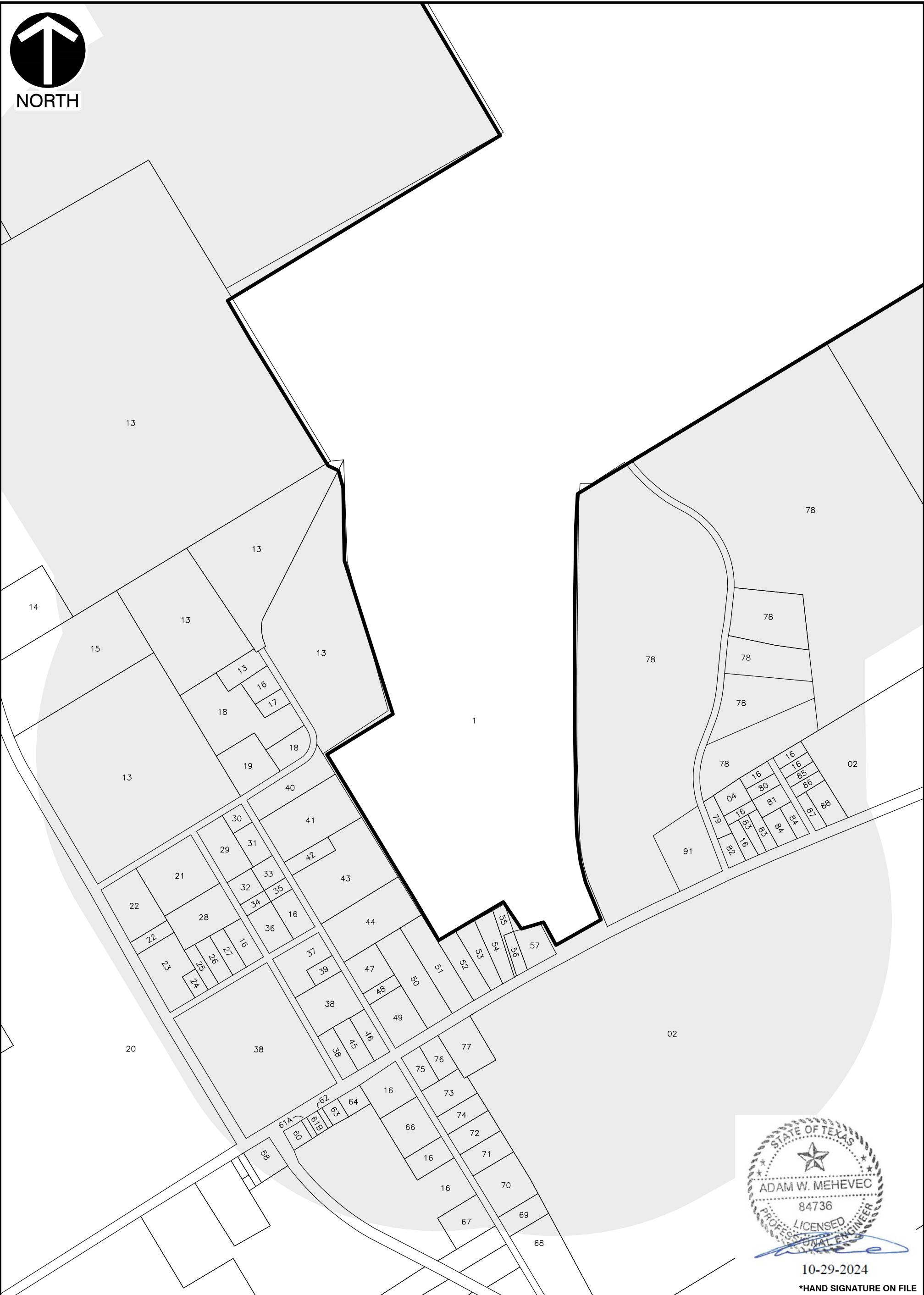
REFERENCE

PARCELS DATASET:
"stratmap21-landparcels_48139_ellis_202101" FROM
STRATEGIC MAPPING PROGRAM (STRATMAP) LAND
PARCELS, RETRIEVED FROM TEXAS NATURAL
RESOURCES INFORMATION SYSTEM ONLINE DATA
PORTAL ON FEBRUARY 11, 2021.

NOTES

1. SEE LAND OWNERS LIST FOR INFORMATION ON
INDIVIDUAL PARCELS.

 Civil & Environmental Consultants, Inc. 3711 South MoPac Expressway · Building 1, Suite 550 · Austin, TX 78746 Ph: 512.439.0400 · Fax: 512.329.0096 www.cecinc.com		REPUBLIC SERVICES, INC. LEACHATE EVAPORARTION POND CSC DISPOSAL & LANDFILL ELLIS COUNTY, TEXAS	
DRAWN BY: CEC		LAND OWNERSHIP	
CHECKED BY: DRAFT		APPROVED BY: DRAFT	
DATE: 04/18/2022		FIGURE NO.: B1	
DWG SCALE: 1" = 1,000'		PROJECT NO: 303732.AW00	



10-29-2024

*HAND SIGNATURE ON FILE

REFERENCE

PARCELS DATASET:
"stratmap21-landparcels_48139_ellis_202101" FROM
STRATEGIC MAPPING PROGRAM (STRATMAP) LAND
PARCELS, RETRIEVED FROM TEXAS NATURAL
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Ph: 512.439.0400 · Fax: 512.329.0096

www.cecinc.com

Texas Registered
Engineering Firm F-38

REPUBLIC SERVICES, INC.
LEACHATE EVAPORATION POND
CSC DISPOSAL & LANDFILL
ELLIS COUNTY, TEXAS

LAND OWNERSHIP

DRAWN BY:	CEC	CHECKED BY:	DRAFT	APPROVED BY:	DRAFT	FIGURE NO.:
DATE:	04/18/2022	DWG SCALE:	1" = 400'	PROJECT NO:	303732.AW00	

B2

LANDOWNERS LIST

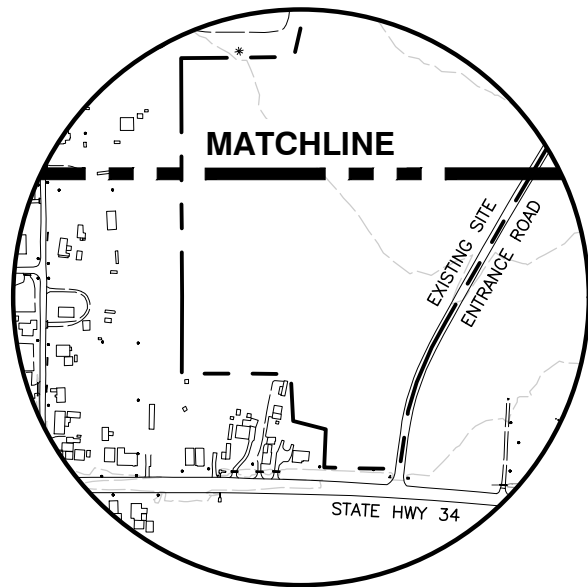
The following table lists the names and mailing addresses of the adjacent and potentially affected landowners around the facility boundary. The list is based on the Ellis County Appraisal District records (as of AUGUST 2024).

Number	Name	Address
1	CSC DISPOSAL & LANDFILL INC	PO BOX 29246 PHOENIX AZ 85038-9246
2	WILSON JERRY W & CHARLOTTE	PO BOX 531 AVALON TX 76623-0531
3	WANG WENBAO & KONG LINGHUA	3621 BINKLEY DR DALLAS TX 75205
4	VIEN LADD	1015 FERRIS AVE WAXAHACHIE TX 75165-2588
5	BAYLISS JOHN BRADFORD	20 MILLYARD STE 3 20 MILLYARD STE 3 AMESBURY MA 01913-2429
6	SHIRLEY-MORRISON YOLANDA ROCHELLE	345 FEASTER RD ENNIS TX 75119
7	PHILLIPS CALVIN L	515 FEASTER RD ENNIS TX 75119-1670
8	WAKELAND DEBRA J & JOE W	12216 LAKE FOREST AZLE TX 76020
9	CREEK LAND & CATTLE LLC	433 E LAS COLINAS BLVD STE 1290 IRVING TX 75039
10	THOMPSON BETHA A L/E	330 WAKELAND RD WAXAHACHIE TX 75165
11	ISBELL TAMMY	5245 FM 55 ITALY TX 76651
12	HERNANDEZ SINDY N G	5349 FM 55 ITALY TX 76651-3837
13	CHEMICAL RECLAMATION SVCS INC	PO BOX 59365 SCHAUMBURG IL 60159
14	MROZINSKI JOSHUA C	214 N FM 55 ITALY TX 76651-3797
15	GIL ROBERTO & IRMA MEDRANO	200 N FM 55 ITALY TX 76623-3797
16	ENVIRONMENTAL US RESOURCES LLC - SERIES 6	PO BOX 36 AVALON TX 76623
17	SAVALA NIEVES	PO BOX 23 AVALON TX 76623-0023
18	ABUNDIZ CAMERINO	201 DUNAWAY ITALY TX 75119
19	HERNANDEZ AURORA GARZA	301 POWELL ST AVALON TX 76623
20	WILSON JAMES KENNETH ET AL	PO BOX 86 AVALON TX 76623-0086
21	HERNANDEZ TONY R & PATTY D	PO BOX 461 AVALON TX 76623-0461
22	POSEY GAYLA	PO BOX 39 AVALON TX 76623-0039
23	MASON KEVIN & ADRIENNE	PO BOX 54 AVALON TX 76623-0054
24	LOW GARY E & CAROL L	PO BOX 51 AVALON TX 76623
25	SALAZAR SERGIO & OLIVIA SALAZAR	PO BOX 114 AVALON TX 76623
26	LEDESMA VICTOR H & JULIA	PO BOX 541 AVALON TX 76623-0541
27	ESTRADA EMILIO & MARIA	PO BOX 10 AVALON TX 76623-0010
28	PALACIOS JESUS & RANDEEN	PO BOX 501 AVALON TX 76623-0501
29	ZAPATA RUDOLFO	PO BOX 234 BARDWELL TX 75101
30	MOCTEZUMA UBALDO G	PO Box 118 Avalon TX 76623-0118
31	GARCIA-CHAVEZ MARIA	PO BOX 235 AVALON TX 76623
32	COOPER TERESA	PO BOX 31 AVALON TX 76623-0031

33	MORONES NICOLAS	PO BOX 22 AVALON TX 76623
34	LAGUNES LIZBETH	511 LEE ST RED OAK TX 75154-2335
35	HERNANDEZ MANUEL	PO BOX 46 AVALON TX 76623-0046
36	MORRISON TOMMY W & LINDA W	PO BOX 49 AVALON TX 76623-0049
37	FIRST BAPTIST CHURCH OF AVALON	PO BOX 206 AVALON TX 76623-0206
38	AVALON I S D	PO BOX 455 AVALON TX 76623-0455
39	ESQUIBEL RODRIGUEZ MANUEL & YESENIA FERMAN	PO BOX 234 AVALON TX 76623-0114
40	JOHNSON JUSTIN	212 HEMPHILL AVALON TX 76623
41	HOWARD CHARLIE D & SHERRY A	208 HEMPHILL AVALON TX 76623
42	ENRIQUEZ TOMAS JR	2866 S HIGHWAY 77 WAXAHACHOE TX 76165-7693
43	SCHMIDT DONNA L	PO BOX 68 AVALON TX 76623
44	HERNANDEZ MOISES & GUAKINA	PO BOX 43 AVALON TX 76623-0043
45	BROWN TED OLAN	PO BOX 33 AVALON TX 76623
46	JACKSON JONATHAN R & TANYA L	201 E MAIN ST AVALON TX 76623
47	STAGGS TERRY	PO BOX 202 AVALON TX 76623
48	GWIN CHRISTOPHER	110 HEMPHILL AVALON TX 76623
49	LANGLEY JEREMY & CRYSTAL LANGLEY	PO BOX 91
50	MUNGUIA JESSE	PO BOX 437 AVALON TX 76623-0437
51	CASHION TIMOTHY	103 OLD BLOOMING GROVE RD ITALY TX 76651
52	SPAINHOUR ROBERT	PO BOX 231 AVALON TX 76623-0231
53	LEDESMA EDUARDO	313 E HWY 34 AVALON TX 76623
54	LEDESMA VICTOR	PO BOX 541 AVALON TX 76623-0541
55	RODRIGUEZ GLORIA	316 FM 55 WAXAHACHIE TX 75165
56	RICO JOSE I	PO BOX 2 AVALON TX 76623-0002
57	ARRIAGA ANTONIO	PO BOX 500 AVALON TX 76623-0500
58	HERNANDEZ SIXTO & ARMANDO J O NAVA	3728 FM 879 Palmer TX 75152-8196
60	EMERGENCY SERVICES DISTRICT #8	PO BOX 7 AVALON TX 76623-0007
61A	NAVARRO LUCIANO	90 E MAIN ST ITALY TX 76651-4067
61B	NAVARRO LUCIANO	202 JOSEPH, WAXAHACHIE TX 75165
62	WAKELAND & AVALON VOLUNTEER FIRE DEPARTMENT	PO BOX 103, AVALON TX 76623
63	ELLIOTT CRAIG P REVOCABLE TRUST	249 TIMBER ROAD COURTLAND KS 66939-8021
64	VALOR TELECOMMUNICATIONS	4001 N RODNEY PARHAM RD LITTLE ROCK AR 72212-2442
66	HERNANDEZ OSCAR	106 OLD BLOOMING GROVE RD ITALY TX 76651-3948
67	CROUCH BILL	PO BOX 834 RED OAK TX 75154-0834
68	BUNDRICK JAMES W & JEANETTE D	PO BOX 543 AVALON TX 76623-0543
69	ARRIAGA MARIO R	PO BOX 452 AVALON TX 76623
70	WILES ROBERT L & WANDA F	PO BOX 523 AVALON TX 76623-0523

[illegible]

ATTACHMENT 2
Redline Version of Documents



MATCHLINE

EXISTING SITE
ENTRANCE ROAD

STATE HWY 34

PHASE II
DISPOSAL AREA

PHASE I
DISPOSAL AREA

PROPOSED LEACHATE
EVAPORATION POND

LEGEND

- EXISTING MONITOR WELL
- EXISTING GAS PROBE
- LANDFILL PERMIT BOUNDARY
- LANDFILL FOOTPRINT BOUNDARY
- CELL BOUNDARY
- FEMA FLOODPLAIN BOUNDARY

NOTES

1.

REFERENCE

TOPOGRAPHIC INFORMATION FROM AERIAL SURVEY BY
COOPER AERIAL SURVEYS COMPANY. DATE OF
PHOTOGRAPHY: NOVEMBER 15, 2020.



10-29-2024



Civil & Environmental Consultants, Inc.

16010 Barkers Point Lane · Suite 570 · Houston, TX 77079

Ph: 346.378.7800 · 800.365.2324

www.cecinc.com

Texas Registered
Engineering Firm F-38

REPUBLIC SERVICES
LEACHATE EVAPORATION POND
CSC DISPOSAL & LANDFILL
ELLIS COUNTY, TEXAS

SITE PLAN

DRAWN BY:	MFV	CHECKED BY:	ATC	APPROVED BY:	AWM	FIGURE NO.:
DATE:	OCTOBER 2024	DWG SCALE:	1" = 600'	PROJECT NO:	315-320	

1A

MATCHLINE, FOR CONTINUATION OF
PROPERTY SEE INSERT VIEW ABOVE

P:\310-000\315-320\--CADD\DWG\SW03--LeachatePondUpdate\315320-SW03-Site Plan.dwg{1} LS:(10/29/2024 - amehevec) - LP: 10/29/2024 8:20 AM

**CSC DISPOSAL AND LANDFILL, INC.
ELLIS COUNTY, TEXAS
TCEQ MSW PERMIT NO. 1209B**

**PART III – CLOSURE AND POST-CLOSURE COST ESTIMATES
ATTACHMENT 8**

Prepared For:
REPUBLIC WASTE SERVICES OF TEXAS, LTD
Prepared By:
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
AUSTIN, TEXAS

Prepared for
Republic Waste Services of Texas, Ltd.

April 1999
Revised November 1999
Revised January 2000
Approved Site Development Plan, April 19, 2000
Prepared by EMCON

Revised May 2010
Revised September 2010
Prepared by Shaw Environmental Inc.

Revised November 2019
Prepared by Weaver Consultants Group, LLC

Revised October 2024 by
Civil & Environmental Consultants, Inc.
Registration No. F-38

CEC Project 315-320
AUGUST 2014OCTOBER 2024



10-29-2024

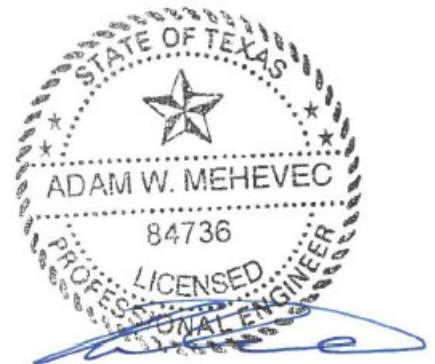
TABLE OF CONTENTS

1	INTRODUCTION	8-1
2	CLOSURE COST ESTIMATE	8-2
3	POST-CLOSURE COST ESTIMATE	8-4
4	COST ESTIMATE ADJUSTMENTS	8-6

APPENDICES

APPENDIX 8A: Closure Cost Estimate Calculations

APPENDIX 8B: Postclosure Care Cost Estimate Calculations



10-29-2024

2.0 CLOSURE COST ESTIMATE

This detailed cost estimate shows the cost of hiring a third party to close the largest area of landfill requiring closure at any time during the active life of the unit, in accordance with Part III, Attachment 12 – Final Closure Plan. This cost estimate, in ~~1999~~2024 dollars, generally follows the outline presented in the TNRCC “Cost Estimate Handbook for Closure and Postclosure Care, Version 1, dated August 1993. A summary of closure cost is summarized in Table 8.1 – Closure Cost. Calculations and supporting data for the cost estimates are included in Appendix 8A – Closure Cost Estimates. The cost will be adjusted annually as indicated in Section 4 of this attachment.

The largest area requiring final closure is expected to occur if the site were to close during filling within the Phase II Disposal Area. This area is illustrated in Appendix 8A, Figure 8A.1 – Largest Area Requiring Final Cover and encompasses approximately 42.4 acres. The Phase I disposal area consists of 57 acres and has received final cover. The entire 297-acre site will also need to be administratively closed; therefore, the attached cost estimate used 297 acres in Section 2.0 – Construction to construct a composite final cover system over the filled areas.

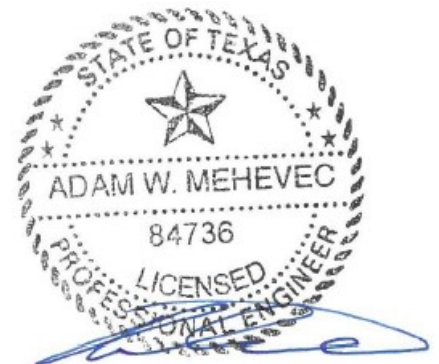
Costs for decommissioning, removal, and cleanup of the leachate evaporation pond have also been included in the estimate.

**TABLE 8.1
CSC DISPOSAL LANDFILL
CLOSURE COST**

Description	Quantity	Unit	1998 Unit Cost	1998 Total Cost	2012 ⁺ Unit Cost	2012 Total Cost	2024 ¹ Unit Cost	2024 Total Cost
1.0 ENGINEERING								
1.1 Topographic Survey	1	LS	\$ 5,900	\$ 5,900	\$ 7,852.68	\$ 7,852.68	\$ 10,431.93	\$ 10,431.93
1.2 Design and Construction Documents	1	LS	\$ 4,500	\$ 4,500	\$ 5,889.51	\$ 5,889.51	\$ 7,823.95	\$ 7,823.95
1.3 Site Evaluation	1	LS	\$ 10,400	\$ 10,400	\$ 13,742.19	\$ 13,742.19	\$ 18,255.88	\$ 18,255.88
1.4 Site Development Plans	1	LS	\$ 3,100	\$ 3,100	\$ 3,195.01	\$ 3,195.01	\$ 4,244.43	\$ 4,244.43
1.5 Construction Administration (Bidding & Award)	1	LS	\$ 1,200	\$ 1,200	\$ 1,533.97	\$ 1,533.97	\$ 2,037.81	\$ 2,037.81
1.6 Administrative Costs	1	LS	\$ 1,200	\$ 1,200	\$ 1,533.97	\$ 1,533.97	\$ 2,037.81	\$ 2,037.81
1.7 Closure Inspection and Testing	1	LS	\$ 64,800	\$ 64,800	\$ 67,263.36	\$ 67,263.36	\$ 89,356.34	\$ 89,356.34
1.8 Groundwater Consultant	NA	LS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.9 NPDES and other Permits	1	LS	\$ 10,000	\$ 10,000	\$ 13,220.00	\$ 13,220	\$ 17,562.17	\$ 17,562.17
ENGINEERING SUBTOTAL				\$ 101,100		\$ 114,230.69		\$ 151,750.32
2.0 CLOSURE CONSTRUCTION								
2.1 Final Cover System								
2.1.1 Final Cover System	102,608	CY	\$ 4.25	\$ 555,400	\$ 5.62	\$ 576,657	\$ 7.46	\$ 765,858
2.1.1b Erosion Layer	136,811	CY	\$ 3.00	\$ 522,700	\$ 3.97	\$ 543,140	\$ 5.27	\$ 720,810
2.1.1c Flexible Membrane Cover	1,846,944	ST	\$ 0.35	\$ 823,300	\$ 0.46	\$ 849,594	\$ 0.61	\$ 1,135,272
2.1.2 Drainage Geocomposite	1,846,944	SF	\$ 0.45	\$ 1,058,500	\$ 0.59	\$ 1,089,697	\$ 0.79	\$ 1,459,636
2.1.3 Dispose of Leachate in Evaporation Pond (Full of leachate with 2' freeboard)	3,214,033	GAL					\$ 0.04	\$ 141,417
2.1.4 Demolish Pond and Dispose Onsite in Landfill	2.0	AC					\$ 4,000	\$ 8,000
2.1.5 Flushing Leachate Forcemain Lines at Closure	1	LS					\$ 5,000	\$ 5,000
2.1.6 Dispose of Leachate in Forcemain Lines	631	GAL					\$ 0.04	\$ 28
2.2 Landfill Gas Management System	42.4	AC	\$ 10,000	\$ 424,000	\$ 13,220.00	\$ 560,528.00	\$ 17,562.17	\$ 744,636
2.3 Revegetation	42.4	AC	\$ 1,000	\$ 42,400	\$ 1,322.00	\$ 56,052.80	\$ 1,756.22	\$ 74,464
2.4 Site Grading and Drainage	42.4	AC	\$ 500.00	\$ 21,200	\$ 661.00	\$ 28,026.40	\$ 878.11	\$ 37,232
2.5 Site Fence and Security	NA	LS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.6 Leachate Collection System Completion	NA	LS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.7 Groundwater Characterization and Well Completion	NA	LS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CLOSURE CONSTRUCTION TOTAL				\$ 3,447,500		\$ 3,703,695.03		\$ 5,092,352.74
ENGINEERING & CONSTRUCTION SUBTOTAL				\$ 3,548,600		\$ 3,817,925.72		\$ 5,244,103.06
CONTINGENCY	10%			\$ 354,860		\$ 381,793		\$ 524,410.31
CONTRACT PERFORMANCE BOND	1.5%			\$ 55,200		\$ 57,268.89		\$ 78,661.55
LEGAL FEES	1	LS	\$ 100,000	\$ 100,000	\$ 132,200.00	\$ 132,200.00	\$ 175,621.74	\$ 175,621.74
TOTAL CLOSURE COST				\$ 4,058,660		\$ 4,389,187.18		\$ 6,022,796.65

⁺ The 2012 Unit Cost is calculated in Appendix 8A using an inflation factor of 1.322. The inflation factor is a product of the inflation factors for each year between 1998 and 2012 as published by TCEQ (1.1, 1.4, 2.2, 2.4, 1.7, 2.0, 2.6, 2.8, 2.9, 2.7, 2.2, 1.2, 0.9, 2.1 respectively for 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, and 2011).

¹ The 2024 Unit Cost is calculated in Appendix 8A using an inflation factor of 1.328. The inflation factor is a product of the inflation factors for each year between 2012 and 2023 as published by TCEQ (1.8, 1.5, 1.5, 1.0, 1.3, 1.8, 2.3, 1.7, 1.2, 4.2, 7.0, and 3.6 respectively for 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022 and 2023).



10-29-2024

CSC DISPOSAL AND LANDFILL, INC.

ELLIS COUNTY, TEXAS

TCEQ MSW PERMIT NO. 1209B

PART III

ATTACHMENT 15

LEACHATE AND CONTAMINATED WATER PLAN

Prepared for
Republic Waste Services of Texas, Ltd.

April 1999
Revised November 1999
Revised January 2000
Approved Site Development Plan, April 19, 2000
Prepared by EMCON

Revised May 2010
Revised September 2010
Prepared by Shaw Environmental Inc.

Revised November 2019
Prepared by Weaver Consultants Group, LLC

~~Prepared by
Weaver Boos Consultants, LLC
TBPE Registration No. F-3727
6420 Southwest Boulevard, Suite 206
Fort Worth, Texas 76109
(817) 735-9770
Project No. 0023-403-10-07-01~~

Revised December 2024 by
Civil & Environmental Consultants, Inc.
TBPE Registration No. F-38
1221 S. MoPac Expy, Suite 350
Austin, TX 78746



12-9-2024

TABLE OF CONTENTS

1	PURPOSE AND SCOPE	15-1
2	LEACHATE GENERATION, REMOVAL AND MONITORING	15-2
2.1	Leachate Generation	15-3
2.2	Leachate Removal	15-2
2.3	Leachate Level Measurements and Monitoring Procedures	15-3
3	LEACHATE COLLECTION SYSTEM DESIGN AND PERFORMANCE	15-4
3.1	Pipe Material and Strength	15-4
3.2	Pipe Network Spacing and Grading	15-4
3.3	Collection Sump Materials and Strength	15-5
3.4	Drainage Media Specifications and Performance	15-5
3.5	Clay Layer Separation	15-5
3.6	Drainage Stone (Coarse Aggregate)	15-6
4	LEACHATE AND CONTAMINATED WATER STORAGE	15-7
4.1	Leachate Storage	15-7
4.2	Contaminated Water Storage	15-9
5	LEACHATE AND CONTAMINATED WATER DISPOSAL	15-10
5.1	Evaporation Pond Management	15-11
5.2	Evaporation Pond Leak Detection System Monitoring	15-11
5.3	Odor Controls for the Evaporation Pond	15-12
5.4	Evaporation Pond Management	15-13

FIGURES

- 15A Leachate Force Main Routing
- 15B Leachate Force Main Details
- 15C Leachate Storage Tank Containment Area
- 15D Leachate Evaporation Layout
- 15E Leachate Evaporation Pond Details

APPENDIX 15A

Leachate Generation Model (HELP-3.07)

APPENDIX 15B

Leachate Collection System Design Calculations



12-9-2024

Revised ~~April 2022~~ December 2024

TABLE OF CONTENTS (Continued)

APPENDIX 15C

Containment Berm Calculations and Diversion Berm Calculations

APPENDIX 15D

Storage Tank Calculations

APPENDIX 15E

Phase I Disposal Area

Leachate Force Main

Permit Modification

APPENDIX 15F

Class 1 Permit Modification for Leachate Evaporation Pond Improvements



12-9-2024

Revised ~~April 2022~~ December 2024

4 LEACHATE AND CONTAMINATED WATER STORAGE

4.1 Leachate Storage

Primary leachate storage will be provided in the leachate collection sumps and the evaporation pond. Each sector will have a sump which will provide approximately 15,775 gallons of storage capacity. Additional storage will be provided in onsite aboveground storage tanks as discussed in Section 4.1.3. Table 4.1 summarized the storage capacity provided by the sumps for the average leachate production rate with a 1.5 factor of safety. Sump volume calculations are provided in Appendix 15B. Details of the leachate sumps are provided in Attachment 6C – Liner, Leachate Collection, and Final Cover System Details.

Table 4.1 – Sump Storage Capacity

Condition	No. of Day's Storage	
	Sector 5-6	All other Sectors
Active Sector	3	6.5
Inactive Sector	3.3	7.6
Close Sector	77	178.6

An 18-inch diameter extraction riser pipe will be provided within the sump. The sump will be emptied by a submersible pump located in the riser pipe as required to limit the maximum head to 12 inches on the liner system (48 inches in the sump). The pump will be operated either manually with a hand-operated electric switch, or automatically by pressure transducers/stepped electrical leads which sense sump liquid levels. Control levels for an automatic sump pump will be set to maintain sump liquid levels at or below the invert of the collection header at the design leachate generation and flow rates. The depth of leachate in the sump will also be measured with a pressure transducer. The pressure transducer will be calibrated to provide direct read-out of the leachate level in the sump on demand. Leachate levels in the sumps will be measured and recorded to evaluate leachate production and fluctuations. A form to record leachate measurements will be kept in the site operating record, and will be used to evaluate the effectiveness of leachate monitoring and control facilities.

4.1.1 Pump and Piping Systems

The pump and piping systems will be arranged to convey leachate directly to the evaporation pond, two 100,000-gallon leachate storage tanks, or pumped into tanker trucks and transported to a publicly owned treatment works (POTW) facility or a properly permitted privately-owned off-site facility~~to the Avalon Waste Water Treatment Facility~~, or recirculated in the landfill. Leachate will not be recirculated in areas where Class I industrial waste has been placed. Leachate will be recirculated in below grade areas where only municipal solid waste has been placed. Two leachate evaporation ponds were constructed as part of Phase I development. The evaporation ponds were decommissioned to make room for landfill sector development in Phase II. Two 100,000-gallon leachate storage tanks will be constructed to provide leachate storage. A force main with secondary containment will be used to convey leachate between the sectors and the evaporation ponds/storage tank and the Avalon Waste Water Treatment Facility. A copy of the approved permit modification for the Phase I leachate force main connection to the Avalon wastewater pipeline is included in Appendix 15E. The Phase I leachate force main will be extended to connect to the Phase II leachate collection system force main during development of Sector 3. Off site disposal to a private company will remain an option.

Location of the leachate force main and the proposed storage location are shown on Figure 15A. The force main will consist of a 1-inch to 3-inch-diameter pipe encased in a larger-diameter carrier pipe to provide leak or spillage containment. The force main will be extended to serve each sector as they are developed. Details of the connection between the 18-inch riser and force main are presented on Figure 15B.

4.1.2 Leachate Evaporation Pond

The previous existing leachate evaporation ponds were removed to allow for construction of Sectors 2 and 3. The proposed change will consist of a lined evaporation pond-footprint for the disposal of landfill leachate, gas condensate, and contaminated water. The pond is proposed to have a 2 feet thick re-compacted clay liner and a double layer of 60 mil HDPE liner. Between the two HDPE liners, there will be a geocomposite drainage layer to act as a leak detection system.

4.1.3 Leachate Storage Tanks

Leachate collected in the sump will be pumped into the onsite leachate storage area as identified on Figure 15A. A site layout of leachate storage area is included on Figure 15C. Leachate tank(s) will be equipped with liquid-level sensing devices and high-level alarm devices set to guard against spills and overfilling.

The leachate storage tanks will be double walled, and each tank will have a leak detection sump and a leak detection riser. Each tank will have a liquid storage capacity of approximately

100,000 gallons. Tanks have a steel outer shell with primary and secondary geomembrane liners to provide the secondary containment. If any leaks should occur in the geomembrane liner, the liquid will drain to the collection sump.

The storage tank area will be graded and leveled and any fill required will be placed and compacted in six-inch lifts with each lift compacted to at least 95 percent of the Standard Proctor maximum dry density. Storm water runoff will not be altered and surface drainage will be directed around the pad so that the pad will not result in ponding of storm water.

4.2 Contaminated Water Storage

Contaminated water will be contained at the working face as shown in Appendix 15C. Contaminated water that collects behind the containment berm will be pumped into tanker trucks and transported to a ~~publically~~publicly-owned treatment works (POTW) facility or a properly permitted privately-owned off-site facility. Contaminated water may also be transported to the leachate storage tanks. When contaminated water is stored in the leachate storage tanks, no leachate recirculation will occur, and a sign will be posted on the tank stating "No Recirculation." When the tank containing the contaminated water is emptied, the sign will be removed. Also a record will be placed in the Site Operating Record noting that contaminated water is being stored in the leachate storage tanks.

5 LEACHATE AND CONTAMINATED WATER DISPOSAL

Leachate will be directed to an onsite evaporation pond, pumped into tanker trucks and transported to a publicly owned treatment works (POTW) facility or a properly permitted privately-owned off-site facility, ~~offsite to the Avalon Wastewater Treatment Plant, onsite treatment facility~~ or will be recirculated to the working landfill face. Consistent with Subtitle D regulations, leachate will only be recirculated in areas underlain by a Subtitle D liner system and those cells where only municipal solid waste has been placed. Leachate will not be recirculated in cells where Class I industrial waste has been placed. Sampling and analysis is not required for leachate that is recirculated.

Leachate generated from the landfill expansion area will be recirculated to the working landfill face, and excess quantities of leachate will be directed to the leachate storage facilities, as required. Consistent with Subtitle D regulations, leachate will only be recirculated in areas underlain by a Subtitle D liner system. Because the leachate will be recirculated, sampling and analysis is not proposed. Leachate from the other areas of the landfill will be directed to the leachate storage facilities.

Leachate levels in the sumps will be measured and recorded to evaluate leachate production and fluctuations. A form to record leachate measurements will be kept in the site operating record, and will be used to evaluate the effectiveness of leachate monitoring and control facilities. The depth of leachate in the sump will be measured weekly, and leachate will be pumped as required to limit the maximum leachate head to 12 inches on the liner or 48 inches in the sump.

Since the leachate collected in the storage tanks will be transported to an approved facility, sampling and analysis will be limited to that facility's requirements. The results of leachate monitoring required by the disposal facility will be kept onsite in the site operating record.

Contaminated water will be contained at the working face as shown in Appendix 15C. Contaminated water that collects behind the containment berm will be pumped into tanker trucks and transported to a ~~publically~~publicly-owned treatment works (POTW) facility or a properly permitted privately-owned off-site facility. Contaminated water may also be transported to the leachate storage tanks. When contaminated water is stored in the leachate storage tanks, no leachate recirculation will occur, and a sign will be posted on the tank stating "No Recirculation." When the tank containing the contaminated water is emptied, the sign will be removed. Also a record will be placed in the Site Operating Record noting that contaminated water is being stored in the leachate storage tanks.

5.1 Evaporation Pond Management

Leachate, gas condensate, and contaminated stormwater may be hauled to the evaporation pond by water truck or pumped through a forcemain and discharged into the pond. The pond will be composite lined and have a leak detection layer. The pond liner will consist of two 60 mil HDPE geomembranes containing carbon black to help resist degradation from ultraviolet light and a two feet thick recompacted clay liner. The liner system for the pond will be constructed

and have quality assurance/quality control construction and testing requirements in accordance with Part III, Attachment 10, Soil and Liner Quality Control Plan (SLQCP). A Soil Liner Evaluation Report (SLER) and Geomembrane Liner Evaluation Report (GLER) will be prepared for the liner construction. This SLER and GLER will be signed and sealed by a licensed professional engineer in Texas with the appropriate supporting information as described in the SLQCP.

The pond will store leachate, contaminated stormwater, and gas condensate and allow it to evaporate naturally. According to the National Oceanographic and Atmospheric Administration's Atlas 14 database, the 25-year, 24-hour rainfall event in the Avalon, TX area is approximately 7.60 inches with a lower and upper bounds of 5.63 and 10.2 inches (90% confidence interval), respectively.

The leachate evaporation pond will be operated to maintain a minimum of two feet of freeboard. The limit of the maximum operation level (two feet vertically down from the top of the pond) will be clearly marked with paint, or a bead of HDPE, or some other appropriate marking so that the operating level may be easily checked. The leachate level will be maintained at or below the maximum operating level. The level in the pond will be checked weekly and after any rainfall events greater than four inches. If the pond level exceeds the maximum operating level because of an excessive rainfall event, then leachate, contaminated storm water and gas condensate may be loaded from the pond into tanker trucks for off-site disposal. After removal of excess liquid, the area around the discharge pipe and where the tanker truck parked will be visually evaluated for signs of spills or leaks.

Any observed soil that has been contaminated with liquid from the pond will be completely excavated and taken to the active face of the landfill for disposal. The Leachate Evaporation Pond Inspection Form below will be completed each week to document freeboard levels and corrective actions. Figure 15D shows the location of the leachate pond. Figure 15E shows details related to the size and construction materials for the pond.

5.2 Evaporation Pond Leak Detection System Monitoring

The leachate evaporation pond will have a leak detection system. This system will consist of a double sided geocomposite between the leachate evaporation pond geomembrane liners. The geocomposite will be drained at a minimum 1% slope to a leak detection sump. The leak detection sump will contain gravel wrapped in a geotextile with a perforated leak detection pipe connected to a solid wall leak detection riser pipe.

If liquid from the pond were to leak through the top layer of geomembrane, it will be collected in the leak detection geocomposite. The leak detection sumps will be monitored monthly for the presence of liquid. A water level indicator will be lowered to the bottom of the leachate riser. If no liquid is detected, no further action is necessary until the following monthly monitoring event. If liquid is detected, the depth of the liquid will be determined, and a

representative sample will be obtained and shipped to a laboratory for analysis. The depth of liquid will be monitored until the laboratory results are received.

The water sample will be analyzed to determine if the liquid in the sump is leachate from the pond or condensation. Metal concentrations will be compared from liquid pond samples to leak detection samples to determine if the liquid from the leak detection is similar to material in the pond. If the metals concentrations in the sample from the sump generally correlated (less than 10% deviation) to the metals concentrations of a sample of liquid in the pond, then the liquid will be assumed to be from the pond. If there is no correlation between the sump sample and the pond sample, then the liquid will be assumed to be condensation. This method of determining whether the liquid from the leak detection system is contaminated complies with §330.207(e).

If the liquid is determined to be condensation, the liquid will be returned to the evaporation pond after testing is completed. The pond bottom is above the seasonal high water table, so no underdrain is required. If groundwater is encountered during the construction of the pond, the engineer and CQA officer will be notified prior to beginning the liner construction to determine if a permit modification needs to be completed to add an underdrain system.

If the liquid is determined to be leachate and/or gas condensate from a pond, the forcemain discharge to the pond will be closed and the pond will be emptied. The liquid in the pond and the leak detection sump will be pumped into another pond or storage tank, or pumped into tanker trucks and transported to a publicly owned treatment works (POTW) facility or a properly permitted privately-owned off-site facility. Leachate and/or gas condensate from the leachate evaporation pond may contain stormwater and therefore this liquid will not be recirculated into the landfill. After removal of the liquid, the area around the discharge pipe and where the tanker truck parked will be visually evaluated for signs of spills or leaks. Any observed soil that has been contaminated with liquid from the pond will be completely excavated and taken to the active face of the landfill for disposal.

After the leachate evaporation pond is emptied of liquid, the pond will be searched for holes or other leaks. Any holes or other leaks will be repaired in accordance with the requirements of Part III, Attachment 10, SLQCP. A Soil and/or Geomembrane Liner Repair Report (Repair Report) will be prepared and submitted to the TCEQ. This Repair Report will be signed and sealed by a licensed professional engineer in Texas with the appropriate supporting information.

When the evaporation pond repair is complete, the forcemain to the pond may be opened and the pond may again accept leachate and/or gas condensate. Monitoring of the leak detection sump for signs of liquid will resume as described above on a monthly basis.

5.3 Odor Controls for the Evaporation Pond

The leachate evaporation pond is being placed outside the permitted footprint of the landfill at a location that is not near any adjacent residences. Odors around the pond will be monitored

weekly and if significant odors are detected, odor control measures such as aerators or portable drum-mounted odor control units will be brought in to mitigate the odors. The odor control unit will be operated 24 hours a day until the odors have subsided. The Leachate Evaporation Pond Inspection Form below will be completed each week to document odor levels and corrective actions.

5.4 Pond Decommissioning and Removal

The leachate evaporation is proposed to be constructed outside of the area permitted for landfill disposal. Since the pond will manage both MSW and Class 1 leachate, any leachate remaining in the evaporation pond will be removed from the pond at decommissioning as a Class 1 waste.

Then the geomembrane liners and the forcemain pipe and fittings will be removed and disposed of in a Class 1 cell at the landfill. The soil materials below the pond will be visually inspected to determine if any spills or leaks from the pond have contaminated it. Any soil that is determined to be contaminated with fluids from the pond will be disposed of in a Class 1 cell at the landfill. Any uncontaminated clay liner and structural fill will be removed and reused at the landfill liner construction or daily/intermediate cover.

CSC DISPOSAL AND LANDFILL MSW PERMIT 1209B LEACHATE EVAPORATION POND INSPECTION FORM		
Date:	Time:	Weather:
Inspector's Name:		
POND FREEBOARD		
Pond level below required freeboard mark? (circle one)	Yes	No
List any corrective actions taken to return pond level to within allowable limits:		
Date when pond level was returned to allowable limit:		
ODOR CONTROL		
Significant odors detected in vicinity of the pond? (circle one)	Yes	No
Date and time when odor control measures were deployed:		
Date and time when odor control measures were removed:		
GEOMEMBRANE CONDITIONS		
Are any tears, holes, or other defects visible in the geomembrane? (circle one)	Yes	No
Date and time when observed defects were repaired:		
RAINFALL CONDITIONS		
Has there been a storm event greater than 4" since last inspection?	Yes	No

CSC DISPOSAL AND LANDFILL MSW PERMIT 1209B
LEACHATE EVAPORATION POND INSPECTION FORM

Date: _____ Time: _____ Weather: _____

Inspector's Name: _____

POND FREEBOARD

Pond level below required freeboard mark? (circle one) Yes No

List any corrective actions taken to return pond level to within allowable limits:

Date when pond level was returned to allowable limit:

--	--	--	--

--	--

ODOR CONTROL

Significant odors detected in vicinity of the pond(s)? (circle one) Yes No

Date and time when odor control measures were deployed:

--	--	--	--

--	--

Date and time when odor control measures were removed:

--	--	--	--

--	--

GEOMEMBRANE CONDITIONS

Are any tears, holes, or other defects visible in the geomembrane? (circle one) Yes No

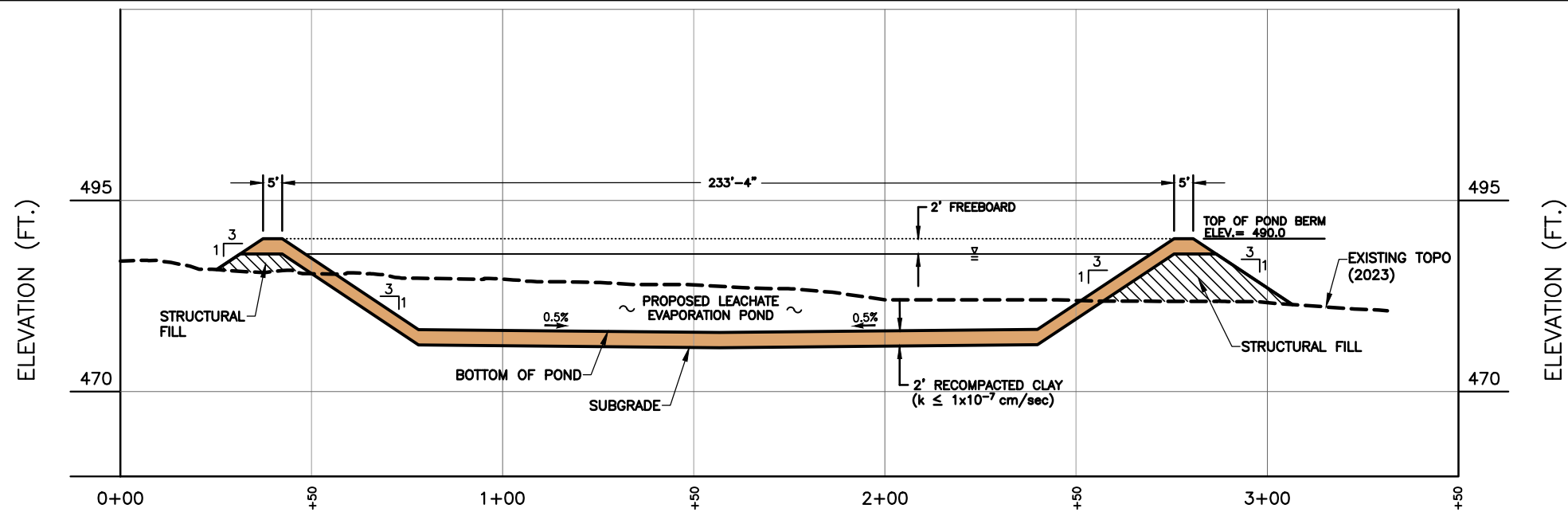
Date and time when observed defects were repaired:

--	--	--	--

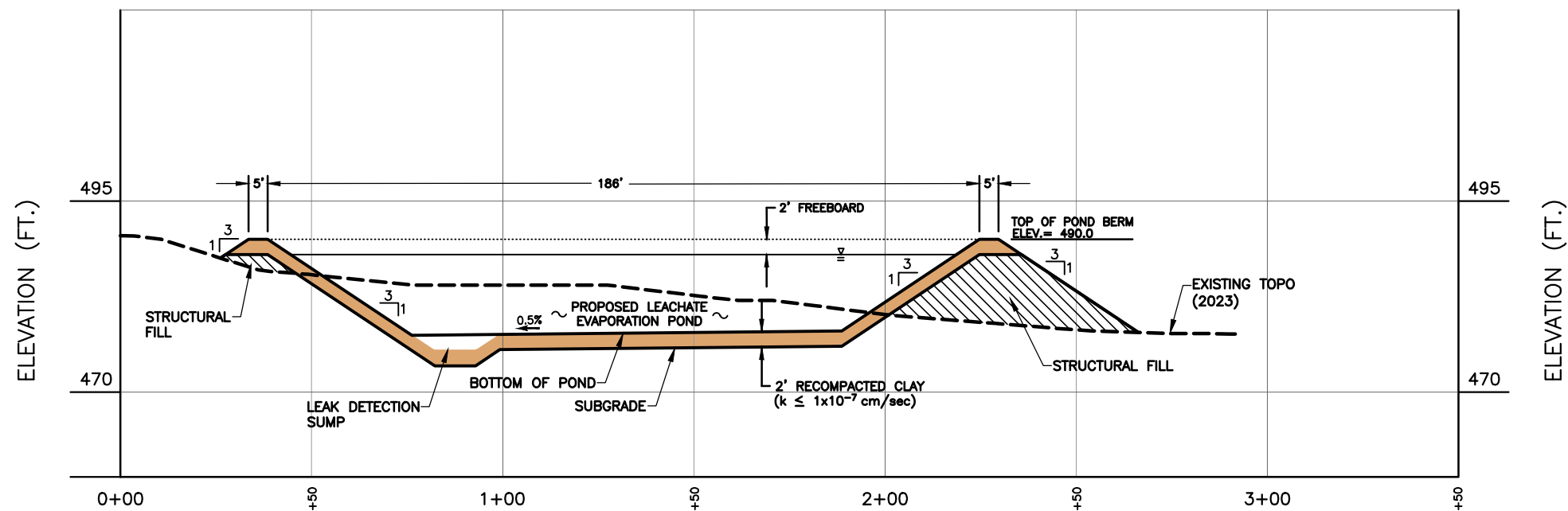
--	--

RAINFALL CONDITIONS

Has there been a storm event greater than 4" since last inspection? Yes No



LEACHATE POND SECTION A
SCALE H:1"=40'; V:1"=20'



LEACHATE POND SECTION B
SCALE H:1"=40'; V:1"=20'

NOTES:

- 1) SEE FIGURE 4 FOR SECTION LOCATIONS.
- 2) SECTIONS ARE SHOWN AT A 2:1 VERTICAL EXAGGERATION.



10-29-2024

NEW FIGURE

REFERENCE

TOPOGRAPHIC INFORMATION FROM AERIAL SURVEY BY FIRMATEK;
DATE OF PHOTOGRAPHY: NOVEMBER 14, 2023.



Civil & Environmental
Consultants, Inc.

1221 S. MoPac Expressway
Suite 350
Austin, TX 78746
Ph: 512.439.0400
www.cecinc.com

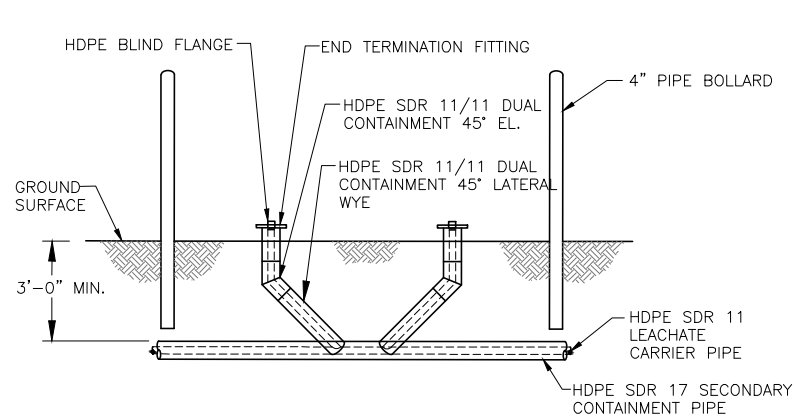
Texas Registered
Engineering Firm F-38

REPUBLIC SERVICES
LEACHATE EVAPORATION POND
CSC DISPOSAL & LANDFILL
ELLIS COUNTY, TEXAS

EVAPORATION POND CROSS SECTIONS

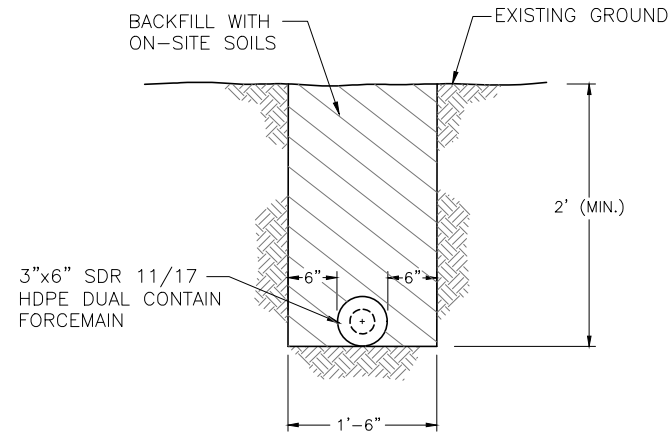
DRAWN BY:	BEO	CHECKED BY:	AWM	APPROVED BY:	*AWM	FIGURE NO.:
DATE:	SEPTEMBER 2024	DWG SCALE:	AS SHOWN	PROJECT NO:	315-320	15D

*HAND SIGNATURE ON FILE



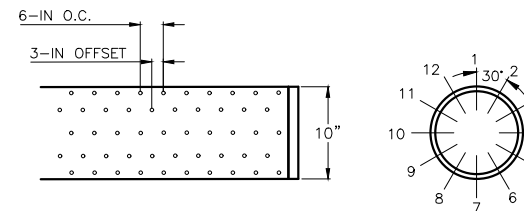
TYPICAL FORCEMAIN CLEAN-OUT

N.T.S.



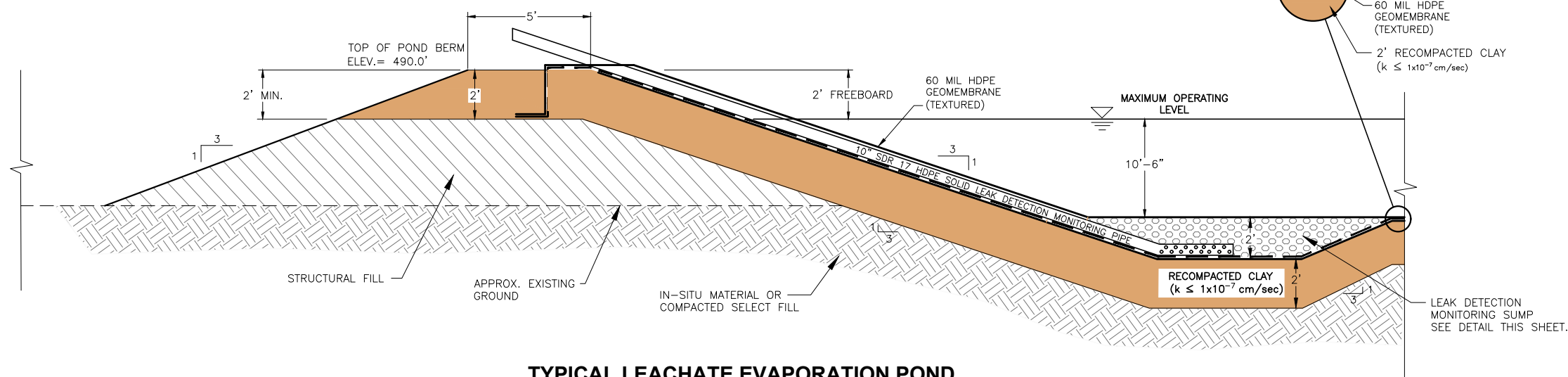
TYPICAL LEACHATE FORCEMAIN TRENCH

N.T.S.



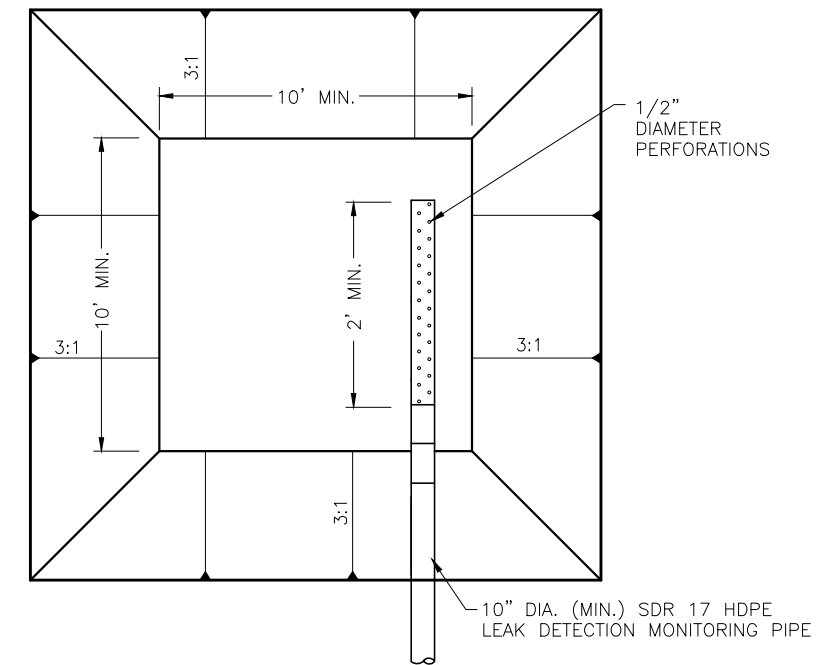
LEAK DETECTION MONITORING PIPE PERFORATION DETAIL

N.T.S.



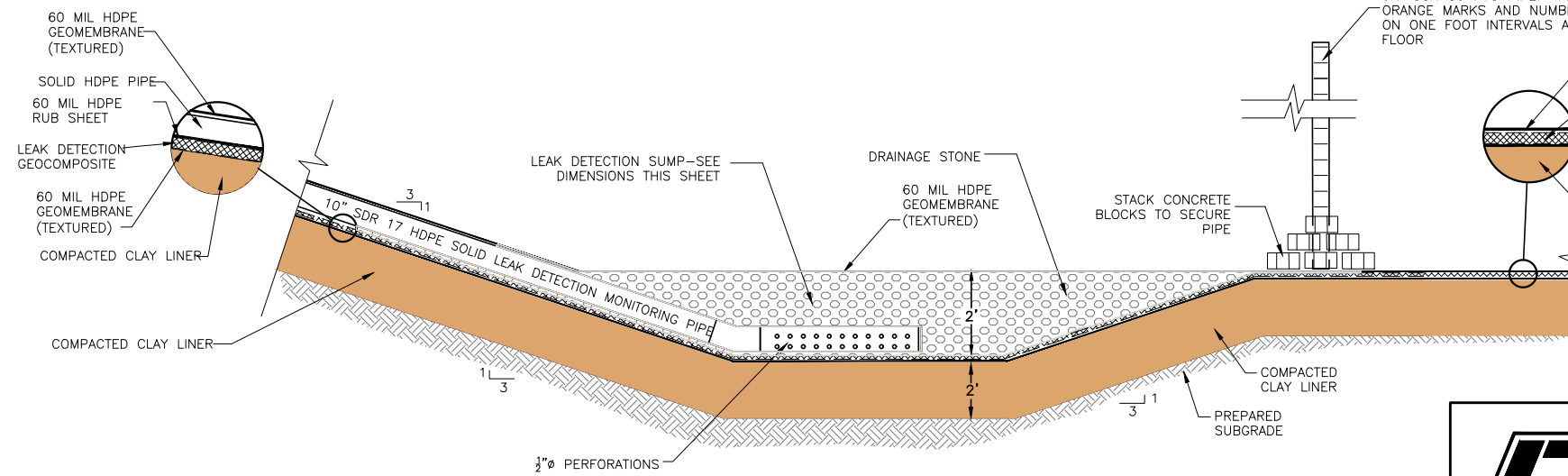
TYPICAL LEACHATE EVAPORATION POND PERIMETER BERM DETAIL AT SUMP

N.T.S.



LEAK DETECTION MONITORING SUMP PLAN VIEW

N.T.S.



TYPICAL LEACHATE EVAPORATION POND SUMP

N.T.S.



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Texas Registered
Engineering Firm F-38

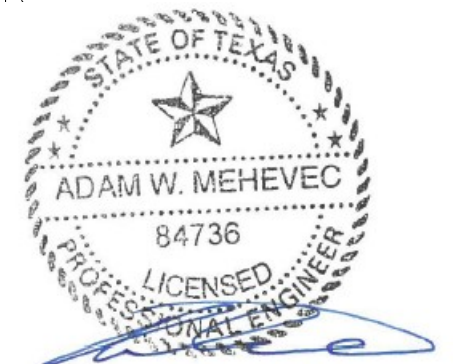
DRAWN BY: BEO
DATE: SEPTEMBER 2024

CHECKED BY: AWM
DWG SCALE: AS SHOWN

APPROVED BY: *AWM
PROJECT NO: 315-320

FIGURE NO.: 15E

NEW FIGURE



10-29-2024

REPUBLIC SERVICES
LEACHATE EVAPORATION POND
CSC DISPOSAL & LANDFILL
ELLIS COUNTY, TEXAS

EVAPORATION POND DETAILS

CSC DISPOSAL AND LANDFILL, INC.
ELLIS COUNTY, TEXAS
TCEQ MSW PERMIT NO. 1209B

PART IV
SITE OPERATING PLAN

Prepared for
Republic Waste Services of Texas, Ltd.

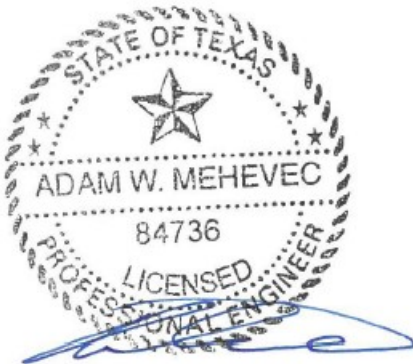
April 1999
Revised October 2005
Revised January 2006
Approved April 24, 2006
Revised June 2008

Revised November 2019

~~Prepared by~~
~~Weaver Boos Consultants, LLC~~
~~TBPE Registration No. F-3727~~
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~~Project No. 0023-403-10-07-01~~

Revised ~~March 2022~~ October August 2024- by

Civil & Environmental Consultants, Inc.
TBPE Registration No. F-38



10-29-2024

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Austin, TX 78746

TABLE OF CONTENTS

LIST OF TABLES AND FIGURES	IV-iv
LIST OF ACRONYMS	IV-v
1 INTRODUCTION	IV-1
2 PERSONNEL AND TRAINING	IV-2
2.1 Personnel	IV-2
2.2 Training	IV-3
3 EQUIPMENT	IV-6
4 OPERATIONAL PROCEDURES	IV-7
4.1 Access Control	IV-7
4.2 Unloading Wastes	IV-8
4.3 Hours of Operation	IV-9
4.4 Site Signs	IV-9
4.5 Control of Windblown Wastes and Litter	IV-9
4.6 Easements and Buffer Zones	IV-10
4.7 Landfill Markers and Buffer Zones	IV-10
4.8 Control of Waste Spill on Route to the Site	IV-11
4.9 Disposal of Large Items	IV-12
4.10 Air Quality Control	IV-12
4.11 Disease Vector Control	IV-13
4.12 Site Access Roads	IV-13
4.13 Salvaging and Scavenging	IV-14
4.14 Endangered Species	IV-14
4.15 Control of Landfill Gas	IV-14
4.16 Treatment of Abandoned Oil and Water Wells	IV-14
4.17 Compaction of Solid Waste	IV-15
4.18 Soil Management, Placement, Compaction of Daily, Intermediate, and Final Cover	IV-15
4.19 Prevention of Ponded Water	IV-18
4.20 Disposal of Special Wastes	IV-18
4.21 Disposal of Industrial Waste	IV-21
4.22 Prevention of Discharge of Contaminated Water	IV-22
4.23 Leachate and Contaminated Water Plan	IV-22
4.24 Site Inspection and Maintenance Schedule	IV-23

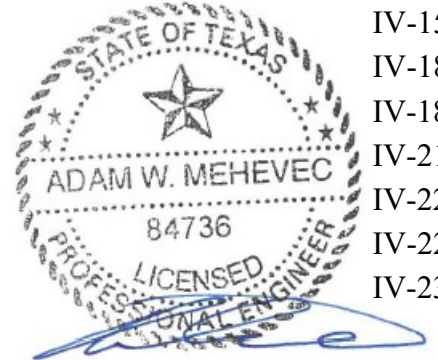


TABLE OF CONTENTS (Continued)

	4.25 Visual Screening of Deposited Waste From View	IV-23
5	LEACHATE AND CONTAMINATED WATER DISPOSAL	IV-25
	5.1 General	IV-25
	5.2 Load Inspection Procedures	IV-25
	5.3 Recordkeeping	IV-26
	5.4 Training	IV-26
	5.5 Managing Prohibited Wastes	IV-27
6	FIRE PROTECTION PLAN	IV-28
	4.1 Fire Prevention Procedures	IV-28
	4.2 Specific Fire-Fighting Procedures	IV-29
	4.3 General Rules for Fires	IV-29
7	RECORDKEEPING REQUIREMENTS	IV-32
8	CONTINGENCY PLAN	IV-35

APPENDIX IVA

Alternate Daily Cover Operating Plan

APPENDIX IVB

Special Waste and PCB Waste Acceptance Plan

APPENDIX IVC

Solidification Acceptance Plan

APPENDIX IVD

EPA Authorization for Disposal of PCB Wastes

APPENDIX IVE

Supporting Calculations



10-29-2024

TABLES AND FIGURES

Tables

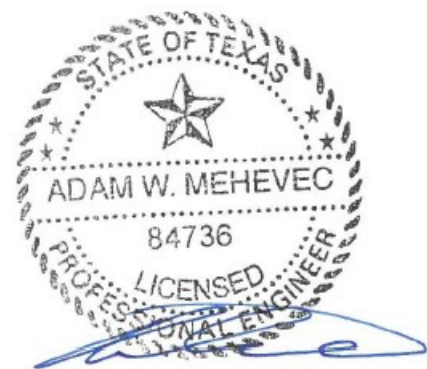
3.1	Typical Equipment List	IV-6
4.1	Site Inspection and Maintenance Schedule	IV-24

Figures

2.1	Organizational Chart	IV-5
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Drawings

IA	RACM Disposal Area	IV-19
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10-29-2024

emergency procedures, emergency equipment, and emergency systems, including, where applicable:

- procedures for using, inspecting, repairing, and replacing facility emergency and
- monitoring equipment;
- communications or alarm systems;
- response to fires or explosions;
- response to ground-water contamination incidents;
- shutdown of operations;
- litter control
- management of methane gas safety procedures
- litter control
- methane gas safety procedures
- operational and removal procedures related to the leachate evaporation pond, see Attachment 15

Facility personnel must successfully complete the training program within six months after the effective date of these regulations or six months after the date of their employment or assignment to a facility, or to a new position at a facility, whichever is later. Employees hired after the effective date of these regulations must not work in unsupervised positions until they have completed the specified training requirements.

Facility personnel must take part in an annual review of their initial training.

The Site Manager must maintain the following documents and records at the facility:

- the job title for each position at the facility related to waste management, and the name of the employee filing each job;
- a written job description for each position listed under paragraph (1) of chapter 335.586(a). This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but must include the requisite skill, education, or other qualifications, and duties of employees assigned to each position;
- records that document that the required training or job experience has been given to, and completed by, facility personnel.

Training records on current personnel must be kept until closure of the facility and training records on former employees must be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company.

4 OPERATIONAL PROCEDURES

4.1 Access Control

Access to the landfill is limited to the gated site entrance located approximately 0.6 mile north of the intersection of State Highway 34 and FM 55, north of Avalon, Texas. The gate attendant controls access and monitors all vehicles entering and exiting the site.

4.1.1 Site Security

Site security measures are designed to prevent unauthorized persons from entering the site, to protect the facility and its equipment from possible damage caused by trespassers, and to prevent disruption of facility operations caused by unauthorized site entry.

Unauthorized access to the site is minimized by controlling access with perimeter fencing (minimum 4-foot high, three strand barbed wire fence), and gated entrance.~~Unauthorized entry into the site is minimized by controlling access to the landfill site with the perimeter chain link fence and gate at the entrance.~~ The perimeter fence and gate are inspected twice monthly. Repairs and maintenance are performed as necessary. Refer to Section 4.24 of this SOP for site inspection and maintenance schedule. "No Trespassing" signs are posted at the site property line.

The site entrance is secured by a gate that is monitored by the gate attendant during site operating hours. Outside operating hours, the gate to the site is locked.

Entry to the active portion of the site is restricted to designated personnel, approved waste haulers, and properly identified persons whose entry is authorized by site management. Visitors are allowed on the active area only when accompanied by a site representative.

In case of a breach to the access control for the site, the TCEQ regional office will be notified within 24 hours, unless the breach can be permanently repaired within eight hours. The breach will be temporarily repaired within 24 hours of detection. Notification will include a schedule for completion of the permanent repair.

4.1.2 Traffic Control

Access to the landfill site is provided via State Highway 34, northeast of Avalon, Texas. Vehicular traffic to the landfill generally accesses the site using State Highway 34. The entrance has a gate that is attended during operating hours by the gate attendant. The gate attendant restricts site access to authorized vehicles and directs these vehicles appropriately.

necessary. The landfill general manager or his designee will consult with TxDOT officials as necessary concerning cleanup of state highways and rights-of-way consistent with §330.145.

4.9 Disposal of Large Items

A large item/white goods storage area will be established if incoming waste volumes of white goods and large items that cannot be incorporated into the regular spreading, compacting and cover operations are significant enough to require a separate storage area. These items are recycled as demand warrants. Recycled items will be removed from the site frequent enough to prevent nuisance conditions and discharge of any pollutants. Large items that are not recycled are disposed of at the working face. Care is taken during disposal of large items to ensure that: (1) large items are not placed directly on the protective cover, (2) large items are placed such that they do not interfere with continued waste filling, and (3) that other, smaller municipal solid waste is placed and compacted around them (see subsection 4.17 of this SOP). Refrigerators, freezers, air conditioners, and other items containing chlorinated fluorocarbon (CFC) will be handled in accordance with 40 CFR §82.156(f).

Refrigerators, Air Conditioners or other items containing CFC refrigerant will not be accepted unless CFC refrigerant has been captured from the unit and sent to an approved CFC disposal site or recycled. The generator must provide certification that the CFC has been evacuated from the unit prior to acceptance or disposal.

4.10 Air Quality Control

Measures to control air pollution include, but are not limited to, the following items:

- Open burning of waste is not permitted at this facility.
- Incoming waste is promptly landfilled.
- Freshly landfilled waste is promptly covered with daily cover.
- Ponded water at the site is controlled as detailed in Section 4.19 of this SOP.
- Accidental fires are controlled as outlined in Section 6 of this SOP.

In addition to these general items that will control odors the following additional measures will be taken to minimize odors from potential sources at the landfill:

Leachate that is generated at the site will be conveyed to the leachate collection sumps and pumped to the leachate storage tanks via a forcemain. Leachate will be recirculated or disposed of consistent with Section 5 of Attachment 15. This minimizes potential odors associated with leachate. See Attachment 15 for odor control procedures related to the leachate evaporation pond.

Liquid wastes including sludges and other potentially odiferous wastes will be processed upon receipt and buried as soon as solidification is completed.

Class 2 and Class 3 industrial solid wastes, as defined in §330.3, are accepted at the facility, provided disposal of these wastes does not interfere with proper operation of the facility.

This facility has received prior approval to dispose of Class I wastes in accordance with the facility Site Operating Plan. Additional written authorization to receive specific Class I waste will not be required due to this general TCEQ approval of Class I waste at the CSC landfill. The Class I waste approval does not restrict or limit the amount of Class I waste to 20 % of total amount (excluding Class I) of waste accepted during the current or previous year. The facility is expected to average receiving approximately between 20 - 50% of the annual waste volume as Class I waste.

The CSC Landfill will submit monthly reports documenting the Class I waste received during the previous month. Reports will be submitted to the Executive Director by the 25th day of the month following waste receipt. Reports must be on the forms provided by TCEQ and include all required information.

4.22 Prevention of Discharge of Contaminated Water

The landfill general manager takes all steps necessary to control and prevent the discharge of contaminated water from the facility. Should the discharge of contaminated water become necessary, the landfill general manager obtains specific written authorization from the TCEQ prior to discharge. All water coming in contact with waste, leachate, or contaminated soils is treated as leachate. Run-on and runoff controls for the 25-year, 24-hour storm event are controlled following the procedures set forth in Part III, Attachment 15 - Leachate and Contaminated Water Plan. The landfill is operated consistent with §330.15(h) regarding discharge of solid wastes or pollutants into waters of the United States and current discharge rules.

Contaminated water may also be transported to the leachate storage tanks. When contaminated water is stored in the leachate storage tanks, no leachate recirculation will occur, and a sign will be posted on the tank stating "No Recirculation." When the tank containing the contaminated water is emptied, the sign will be removed. Also, a record will be placed in the Site Operating Record noting that contaminated water is being stored in the leachate storage tanks.

4.23 Leachate and Contaminated Water Plan

Leachate and contaminated water are controlled as specified in Part III, Attachment 15 - Leachate and Contaminated Water Plan. As discussed in Section 5 of Attachment 15, leachate and contaminated water will either be hailed or pumped to the evaporation pond, recirculated, or disposed off-site. Leachate and gas condensate are recirculated only on areas underlain by a composite liner and LCS as allowed by §330.177. Leachate and gas condensate recirculation will be accomplished in the following manner:

Leachate and gas condensate will be pumped to or transported to the waste area in a tank pulled by a tractor, a water truck, or other suitable tank and distributed on the waste. Sprinklers will not be used to distribute leachate or gas condensate. Leachate and gas condensate will be recirculated throughout the year, and will only be applied over composite lined areas. Leachate may be applied to waste at the working face or daily cover areas. Leachate and gas condensate will not be applied to exterior slopes that may drain off site or on intermediate or final cover areas. Leachate will not

be recirculated when it is raining or when the average wind speed is greater than 35 miles per hour.

4.24 Site Inspection and Maintenance Schedule

A typical site inspection and maintenance schedule is shown in Table IV-1. This schedule includes the maintenance required for the perimeter fence and gate, windblown waste, waste spilled on route to the site, landfill markers, the site access road, daily cover, intermediate cover, final cover, ~~and~~ leachate, and evaporation pond. The schedule provides general guidance only and may be modified as necessary by the general manager.

4.25 Visual Screening of Deposited Waste From View

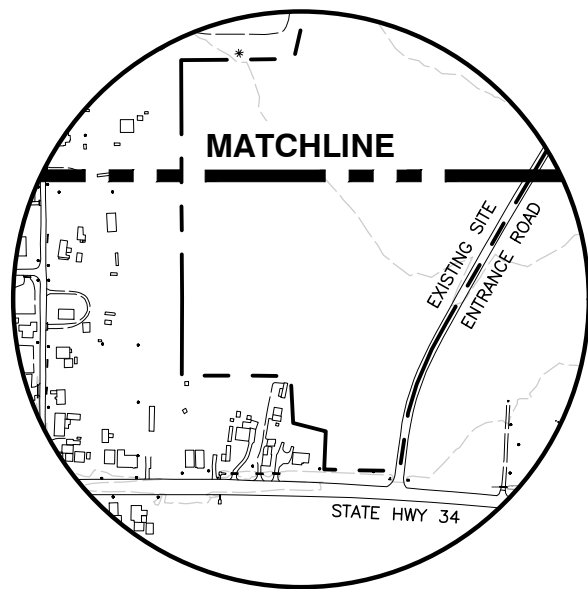
The active Phase II disposal area is more than 1000 ft from any residences or public roadways. This facility is located in a rural area of the county that is not densely populated or exhibiting any significant growth. The CSC landfill has been operating without any additional screening measures for many years. Based on these factors, no additional screening will be provided other than waste cover and vegetation.

Table IV-4.1
Site Inspection and Maintenance Schedule

ITEM	TASK	SCHEDULE
Fence/Gate	Inspect perimeter fence and gate for damage, gaps, intrusions and the like. Make repairs if necessary	Twice a month.
Windblown Waste	Police working fence area, wind fences, access roads, entrance area, and perimeter fence for loose trash. Clean up as necessary.	Daily during days waste is accepted
Waste Spilled on Route to the Site	Police entrance area at least 2 miles from the site entrance for loose trash. Clean up as necessary.	Daily during days waste is accepted
Landfill Markers	Inspect all landfill markers for damage, color coding, and general location. Correct or replace damaged markers within 15 days of discovery.	Monthly during months waste is accepted
Site Access Road	Inspect site access road for damage from vehicle traffic, erosion, or excessive mud accumulation. Maintain as needed with crushed rock or stone.	Daily (wet weather) during days waste is accepted Weekly (otherwise) during weeks waste is accepted
Daily Cover	Inspect for proper placement, thickness, and compaction. Correct problems as needed.	Daily during days waste is accepted
Intermediate Cover	Inspect for proper placement, thickness, erosion, compaction, and presence of waste or other contamination. Correct problems as needed.	Weekly during weeks waste is accepted*
Final Cover	Inspect for proper placement, thickness, compaction, slope, settlement and erosion. Maintenance will be ongoing throughout postclosure care period. Correct problems as needed.	Weekly during weeks waste is accepted*
Leachate	Measure depth of leachate in sump.	Twice a week during weeks waste accepted until production rate is determined, then as necessary*.
<u>Leachate Pond</u>	<u>Inspect pond as indicated in Attachment 15.</u>	<u>Weekly during weeks waste is accepted</u>

* Intermediate cover, final cover, and leachate inspections will be completed in accordance with the frequency specified in the inspection schedule during weeks waste is accepted; otherwise these inspections will be performed at a minimum of twice a month.

ATTACHMENT 3
Clean Version of Documents



MATCHLINE

EXISTING SITE
ENTRANCE ROAD

STATE HWY 34

PHASE II
DISPOSAL AREA

PHASE I
DISPOSAL AREA

PROPOSED LEACHATE
EVAPORATION POND



10-29-2024

LEGEND

- EXISTING MONITOR WELL
- EXISTING GAS PROBE
- LANDFILL PERMIT BOUNDARY
- LANDFILL FOOTPRINT BOUNDARY
- CELL BOUNDARY
- FEMA FLOODPLAIN BOUNDARY

NOTES

1.

REFERENCE

TOPOGRAPHIC INFORMATION FROM AERIAL SURVEY BY
COOPER AERIAL SURVEYS COMPANY. DATE OF
PHOTOGRAPHY: NOVEMBER 15, 2020.



Civil & Environmental Consultants, Inc.

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Texas Registered
Engineering Firm F-38

REPUBLIC SERVICES
LEACHATE EVAPORATION POND
CSC DISPOSAL & LANDFILL
ELLIS COUNTY, TEXAS

SITE PLAN

DRAWN BY:	MFV	CHECKED BY:	ATC	APPROVED BY:	AWM	FIGURE NO.:
DATE:	OCTOBER 2024	DWG SCALE:	1" = 600'	PROJECT NO:	315-320	1A

MATCHLINE, FOR CONTINUATION OF
PROPERTY SEE INSERT VIEW ABOVE

P:\310-000\315-320\--CADD\DWG\SW03-LeachatePondUpdate\315320-SW03-Site Plan.dwg{1} LS:(10/29/2024 - amehevec) -- LP: 10/29/2024 8:20 AM

**CSC DISPOSAL AND LANDFILL, INC.
ELLIS COUNTY, TEXAS
TCEQ MSW PERMIT NO. 1209B**

**PART III – CLOSURE AND POST-CLOSURE COST ESTIMATES
ATTACHMENT 8**

Prepared For:
REPUBLIC WASTE SERVICES OF TEXAS, LTD
Prepared By:
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
AUSTIN, TEXAS

Prepared for
Republic Waste Services of Texas, Ltd.

April 1999
Revised November 1999
Revised January 2000
Approved Site Development Plan, April 19, 2000
Prepared by EMCON

Revised May 2010
Revised September 2010
Prepared by Shaw Environmental Inc.

Revised November 2019
Prepared by Weaver Consultants Group, LLC

Revised October 2024 by
Civil & Environmental Consultants, Inc.
Registration No. F-38

CEC Project 315-320

OCTOBER 2024



10-29-2024

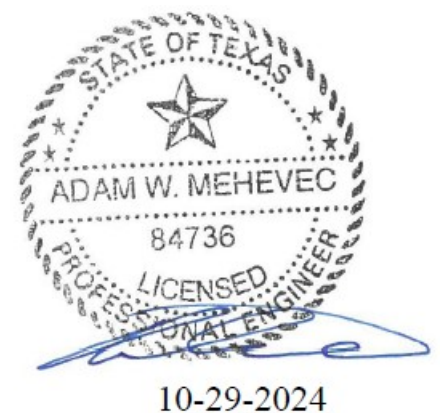
TABLE OF CONTENTS

1	INTRODUCTION	8-1
2	CLOSURE COST ESTIMATE	8-2
3	POST-CLOSURE COST ESTIMATE	8-4
4	COST ESTIMATE ADJUSTMENTS	8-6

APPENDICES

APPENDIX 8A: Closure Cost Estimate Calculations

APPENDIX 8B: Postclosure Care Cost Estimate Calculations



2.0 CLOSURE COST ESTIMATE

This detailed cost estimate shows the cost of hiring a third party to close the largest area of landfill requiring closure at any time during the active life of the unit, in accordance with Part III, Attachment 12 – Final Closure Plan. This cost estimate, in 2024 dollars, generally follows the outline presented in the TNRCC “Cost Estimate Handbook for Closure and Postclosure Care, Version 1, dated August 1993. A summary of closure cost is summarized in Table 8.1 – Closure Cost. Calculations and supporting data for the cost estimates are included in Appendix 8A – Closure Cost Estimates. The cost will be adjusted annually as indicated in Section 4 of this attachment.

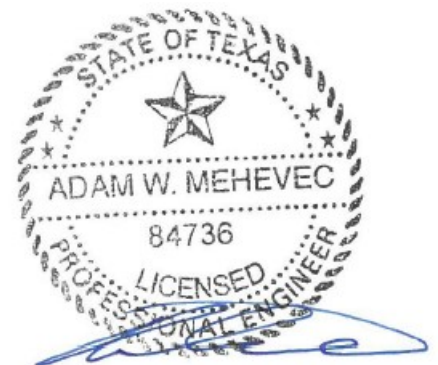
The largest area requiring final closure is expected to occur if the site were to close during filling within the Phase II Disposal Area. This area is illustrated in Appendix 8A, Figure 8A.1 – Largest Area Requiring Final Cover and encompasses approximately 42.4 acres. The Phase I disposal area consists of 57 acres and has received final cover. The entire 297-acre site will also need to be administratively closed; therefore, the attached cost estimate used 297 acres in Section 2.0 – Construction to construct a composite final cover system over the filled areas.

Costs for decommissioning, removal, and cleanup of the leachate evaporation pond have also been included in the estimate.

**TABLE 8.1
CSC DISPOSAL LANDFILL
CLOSURE COST**

Description	Quantity	Unit	2012 Unit Cost	2012 Total Cost	2024 ¹ Unit Cost	2024 Total Cost
1.0 ENGINEERING						
1.1 Topographic Survey	1	LS	\$ 7,852.68	\$ 7,852.68	\$ 10,431.93	\$ 10,431.93
1.2 Design and Construction Documents	1	LS	\$ 5,889.51	\$ 5,889.51	\$ 7,823.95	\$ 7,823.95
1.3 Site Evaluation	1	LS	\$ 13,742.19	\$ 13,742.19	\$ 18,255.88	\$ 18,255.88
1.4 Site Development Plans	1	LS	\$ 3,195.01	\$ 3,195.01	\$ 4,244.43	\$ 4,244.43
1.5 Construction Administration (Bidding & Award)	1	LS	\$ 1,533.97	\$ 1,533.97	\$ 2,037.81	\$ 2,037.81
1.6 Administrative Costs	1	LS	\$ 1,533.97	\$ 1,533.97	\$ 2,037.81	\$ 2,037.81
1.7 Closure Inspection and Testing	1	LS	\$ 67,263.36	\$ 67,263.36	\$ 89,356.34	\$ 89,356.34
1.8 Groundwater Consultant	NA	LS	\$ -	\$ -	\$ -	\$ -
1.9 NPDES and other Permits	1	LS	\$ 13,220.00	\$ 13,220	\$ 17,562.17	\$ 17,562.17
ENGINEERING SUBTOTAL				\$ 114,230.69		\$ 151,750.32
2.0 CLOSURE CONSTRUCTION						
2.1 Final Cover System						
2.1.1 Final Cover System	102,608	CY	\$ 5.62	\$ 576,657	\$ 7.46	\$ 765,858
2.1.1b Erosion Layer	136,811	CY	\$ 3.97	\$ 543,140	\$ 5.27	\$ 720,810
2.1.1c Flexible Membrane Cover	1,846,944	ST	\$ 0.46	\$ 849,594	\$ 0.61	\$ 1,135,272
2.1.2 Drainage Geocomposite	1,846,944	SF	\$ 0.59	\$ 1,089,697	\$ 0.79	\$ 1,459,636
2.1.3 Dispose of Leachate in Evaporation Pond (Full of leachate with 2' freeboard)	3,214,033	GAL	\$ -	\$ -	\$ 0.04	\$ 141,417
2.1.4 Demolish Pond and Dispose Onsite in Landfill	2.0	AC	\$ -	\$ -	\$ 4,000	\$ 8,000
2.1.5 Flushing Leachate Forcemain Lines at Closure	1	LS	\$ -	\$ -	\$ 5,000	\$ 5,000
2.1.6 Dispose of Leachate in Forcemain Lines	631	GAL	\$ -	\$ -	\$ 0.04	\$ 28
2.2 Landfill Gas Management System	42.4	AC	\$ 13,220.00	\$ 560,528.00	\$ 17,562.17	\$ 744,636
2.3 Revegetation	42.4	AC	\$ 1,322.00	\$ 56,052.80	\$ 1,756.22	\$ 74,464
2.4 Site Grading and Drainage	42.4	AC	\$ 661.00	\$ 28,026.40	\$ 878.11	\$ 37,232
2.5 Site Fence and Security	NA	LS	\$ -	\$ -	\$ -	\$ -
2.6 Leachate Collection System Completion	NA	LS	\$ -	\$ -	\$ -	\$ -
2.7 Groundwater Characterization and Well Completion	NA	LS	\$ -	\$ -	\$ -	\$ -
CLOSURE CONSTRUCTION TOTAL				\$ 3,703,695.03		\$ 5,092,352.74
ENGINEERING & CONSTRUCTION SUBTOTAL				\$ 3,817,925.72		\$ 5,244,103.06
CONTINGENCY	10%			\$ 381,793		\$ 524,410.31
CONTRACT PERFORMANCE BOND	1.5%			\$ 57,268.89		\$ 78,661.55
LEGAL FEES	1	LS	\$ 132,200.00	\$ 132,200.00	\$ 175,621.74	\$ 175,621.74
TOTAL CLOSURE COST				\$ 4,389,187.18		\$ 6,022,796.65

¹ The 2024 Unit Cost is calculated in Appendix 8A using an inflation factor of 1.328. The inflation factor is a product of the inflation factors for each year between 2012 and 2023 as published by TCEQ (1.8, 1.5, 1.5, 1.0, 1.3, 1.8, 2.3, 1.7, 1.2, 4.2, 7.0, and 3.6 respectively for 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022 and 2023).



10-29-2024

CSC DISPOSAL AND LANDFILL, INC.

ELLIS COUNTY, TEXAS

TCEQ MSW PERMIT NO. 1209B

PART III

ATTACHMENT 15

LEACHATE AND CONTAMINATED WATER PLAN

Prepared for
Republic Waste Services of Texas, Ltd.

April 1999
Revised November 1999
Revised January 2000
Approved Site Development Plan, April 19, 2000
Prepared by EMCON

Revised May 2010
Revised September 2010
Prepared by Shaw Environmental Inc.

Revised November 2019
Prepared by Weaver Consultants Group, LLC

Revised December 2024 by
Civil & Environmental Consultants, Inc.
TBPE Registration No. F-38
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Austin, TX 78746



12-9-2024

TABLE OF CONTENTS

1	PURPOSE AND SCOPE	15-1
2	LEACHATE GENERATION, REMOVAL AND MONITORING	15-2
2.1	Leachate Generation	15-3
2.2	Leachate Removal	15-2
2.3	Leachate Level Measurements and Monitoring Procedures	15-3
3	LEACHATE COLLECTION SYSTEM DESIGN AND PERFORMANCE	15-4
3.1	Pipe Material and Strength	15-4
3.2	Pipe Network Spacing and Grading	15-4
3.3	Collection Sump Materials and Strength	15-5
3.4	Drainage Media Specifications and Performance	15-5
3.5	Clay Layer Separation	15-5
3.6	Drainage Stone (Coarse Aggregate)	15-6
4	LEACHATE AND CONTAMINATED WATER STORAGE	15-7
4.1	Leachate Storage	15-7
4.2	Contaminated Water Storage	15-9
5	LEACHATE AND CONTAMINATED WATER DISPOSAL	15-10
5.1	Evaporation Pond Management	15-11
5.2	Evaporation Pond Leak Detection System Monitoring	15-11
5.3	Odor Controls for the Evaporation Pond	15-12
5.4	Evaporation Pond Management	15-13

FIGURES

- 15A Leachate Force Main Routing
- 15B Leachate Force Main Details
- 15C Leachate Storage Tank Containment Area
- 15D Leachate Evaporation Layout
- 15E Leachate Evaporation Pond Details

APPENDIX 15A

Leachate Generation Model (HELP-3.07)

APPENDIX 15B

Leachate Collection System Design Calculations



12-9-2024

Revised December 2024

TABLE OF CONTENTS (Continued)

APPENDIX 15C

Containment Berm Calculations and Diversion Berm Calculations

APPENDIX 15D

Storage Tank Calculations

APPENDIX 15E

Phase I Disposal Area

Leachate Force Main

Permit Modification

APPENDIX 15F

Class 1 Permit Modification for Leachate Evaporation Pond Improvements



12-9-2024

Revised December 2024

4 LEACHATE AND CONTAMINATED WATER STORAGE

4.1 Leachate Storage

Primary leachate storage will be provided in the leachate collection sumps and the evaporation pond. Each sector will have a sump which will provide approximately 15,775 gallons of storage capacity. Additional storage will be provided in onsite aboveground storage tanks as discussed in Section 4.1.3. Table 4.1 summarized the storage capacity provided by the sumps for the average leachate production rate with a 1.5 factor of safety. Sump volume calculations are provided in Appendix 15B. Details of the leachate sumps are provided in Attachment 6C – Liner, Leachate Collection, and Final Cover System Details.

Table 4.1 – Sump Storage Capacity

Condition	No. of Day's Storage	
	Sector 5-6	All other Sectors
Active Sector	3	6.5
Inactive Sector	3.3	7.6
Close Sector	77	178.6

An 18-inch diameter extraction riser pipe will be provided within the sump. The sump will be emptied by a submersible pump located in the riser pipe as required to limit the maximum head to 12 inches on the liner system (48 inches in the sump). The pump will be operated either manually with a hand-operated electric switch, or automatically by pressure transducers/stepped electrical leads which sense sump liquid levels. Control levels for an automatic sump pump will be set to maintain sump liquid levels at or below the invert of the collection header at the design leachate generation and flow rates. The depth of leachate in the sump will also be measured with a pressure transducer. The pressure transducer will be calibrated to provide direct read-out of the leachate level in the sump on demand. Leachate levels in the sumps will be measured and recorded to evaluate leachate production and fluctuations. A form to record leachate measurements will be kept in the site operating record, and will be used to evaluate the effectiveness of leachate monitoring and control facilities.

4.1.1 Pump and Piping Systems

The pump and piping systems will be arranged to convey leachate directly to the evaporation pond, two 100,000-gallon leachate storage tanks, or pumped into tanker trucks and transported to a publicly owned treatment works (POTW) facility or a properly permitted privately-owned off-site facility, or recirculated in the landfill. Leachate will not be recirculated in areas where Class I industrial waste has been placed. Leachate will be recirculated in below grade areas where only municipal solid waste has been placed. Two leachate evaporation ponds were constructed as part of Phase I development. The evaporation ponds were decommissioned to make room for landfill sector development in Phase II. Two 100,000-gallon leachate storage tanks will be constructed to provide leachate storage. A force main with secondary containment will be used to convey leachate between the sectors and the evaporation pond/storage tank and the Avalon Waste Water Treatment Facility. A copy of the approved permit modification for the Phase I leachate force main connection to the Avalon wastewater pipeline is included in Appendix 15E. The Phase I leachate force main will be extended to connect to the Phase II leachate collection system force main during development of Sector 3. Off site disposal to a private company will remain an option.

Location of the leachate force main and the proposed storage location are shown on Figure 15A. The force main will consist of a 1-inch to 3-inch-diameter pipe encased in a larger-diameter carrier pipe to provide leak or spillage containment. The force main will be extended to serve each sector as they are developed. Details of the connection between the 18-inch riser and force main are presented on Figure 15B.

4.1.2 Leachate Evaporation Pond

The previous existing leachate evaporation ponds were removed to allow for construction of Sectors 2 and 3. The proposed change will consist of a lined evaporation pond-footprint for the disposal of landfill leachate, gas condensate, and contaminated water. The pond is proposed to have a 2 feet thick re-compacted clay liner and a double layer of 60 mil HDPE liner. Between the two HDPE liners, there will be a geocomposite drainage layer to act as a leak detection system.

4.1.3 Leachate Storage Tanks

Leachate collected in the sump will be pumped into the onsite leachate storage area as identified on Figure 15A. A site layout of leachate storage area is included on Figure 15C. Leachate tank(s) will be equipped with liquid-level sensing devices and high-level alarm devices set to guard against spills and overfilling.

The leachate storage tanks will be double walled, and each tank will have a leak detection sump and a leak detection riser. Each tank will have a liquid storage capacity of approximately

100,000 gallons. Tanks have a steel outer shell with primary and secondary geomembrane liners to provide the secondary containment. If any leaks should occur in the geomembrane liner, the liquid will drain to the collection sump.

The storage tank area will be graded and leveled and any fill required will be placed and compacted in six-inch lifts with each lift compacted to at least 95 percent of the Standard Proctor maximum dry density. Storm water runoff will not be altered and surface drainage will be directed around the pad so that the pad will not result in ponding of storm water.

4.2 Contaminated Water Storage

Contaminated water will be contained at the working face as shown in Appendix 15C. Contaminated water that collects behind the containment berm will be pumped into tanker trucks and transported to a publicly-owned treatment works (POTW) facility or a properly permitted privately-owned off-site facility. Contaminated water may also be transported to the leachate storage tanks. When contaminated water is stored in the leachate storage tanks, no leachate recirculation will occur, and a sign will be posted on the tank stating "No Recirculation." When the tank containing the contaminated water is emptied, the sign will be removed. Also a record will be placed in the Site Operating Record noting that contaminated water is being stored in the leachate storage tanks.

5 LEACHATE AND CONTAMINATED WATER DISPOSAL

Leachate will be directed to an onsite evaporation pond, pumped into tanker trucks and transported to a publicly owned treatment works (POTW) facility or a properly permitted privately-owned off-site facility, or will be recirculated to the working landfill face. Consistent with Subtitle D regulations, leachate will only be recirculated in areas underlain by a Subtitle D liner system and those cells where only municipal solid waste has been placed. Leachate will not be recirculated in cells where Class I industrial waste has been placed. Sampling and analysis is not required for leachate that is recirculated.

Leachate generated from the landfill expansion area will be recirculated to the working landfill face, and excess quantities of leachate will be directed to the leachate storage facilities, as required. Consistent with Subtitle D regulations, leachate will only be recirculated in areas underlain by a Subtitle D liner system. Because the leachate will be recirculated, sampling and analysis is not proposed. Leachate from the other areas of the landfill will be directed to the leachate storage facilities.

Leachate levels in the sumps will be measured and recorded to evaluate leachate production and fluctuations. A form to record leachate measurements will be kept in the site operating record, and will be used to evaluate the effectiveness of leachate monitoring and control facilities. The depth of leachate in the sump will be measured weekly, and leachate will be pumped as required to limit the maximum leachate head to 12 inches on the liner or 48 inches in the sump.

Since the leachate collected in the storage tanks will be transported to an approved facility, sampling and analysis will be limited to that facility's requirements. The results of leachate monitoring required by the disposal facility will be kept onsite in the site operating record.

Contaminated water will be contained at the working face as shown in Appendix 15C. Contaminated water that collects behind the containment berm will be pumped into tanker trucks and transported to a publicly-owned treatment works (POTW) facility or a properly permitted privately-owned off-site facility. Contaminated water may also be transported to the leachate storage tanks. When contaminated water is stored in the leachate storage tanks, no leachate recirculation will occur, and a sign will be posted on the tank stating "No Recirculation." When the tank containing the contaminated water is emptied, the sign will be removed. Also a record will be placed in the Site Operating Record noting that contaminated water is being stored in the leachate storage tanks.

5.1 Evaporation Pond Management

Leachate, gas condensate, and contaminated stormwater may be hauled to the evaporation pond by water truck or pumped through a forcemain and discharged into the pond. The pond will be composite lined and have a leak detection layer. The pond liner will consist of two 60 mil HDPE geomembranes containing carbon black to help resist degradation from ultraviolet light and a two feet thick recompacted clay liner. The liner system for the pond will be constructed and have quality assurance/quality control construction and testing requirements in accordance

with Part III, Attachment 10, Soil and Liner Quality Control Plan (SLQCP). A Soil Liner Evaluation Report (SLER) and Geomembrane Liner Evaluation Report (GLER) will be prepared for the liner construction. This SLER and GLER will be signed and sealed by a licensed professional engineer in Texas with the appropriate supporting information as described in the SLQCP.

The pond will store leachate, contaminated stormwater, and gas condensate and allow it to evaporate naturally. According to the National Oceanographic and Atmospheric Administration's Atlas 14 database, the 25-year, 24-hour rainfall event in the Avalon, TX area is approximately 7.60 inches with a lower and upper bounds of 5.63 and 10.2 inches (90% confidence interval), respectively.

The leachate evaporation pond will be operated to maintain a minimum of two feet of freeboard. The limit of the maximum operation level (two feet vertically down from the top of the pond) will be clearly marked with paint, or a bead of HDPE, or some other appropriate marking so that the operating level may be easily checked. The leachate level will be maintained at or below the maximum operating level. The level in the pond will be checked weekly and after any rainfall events greater than four inches. If the pond level exceeds the maximum operating level because of an excessive rainfall event, then leachate, contaminated storm water and gas condensate may be loaded from the pond into tanker trucks for off-site disposal. After removal of excess liquid, the area around the discharge pipe and where the tanker truck parked will be visually evaluated for signs of spills or leaks.

Any observed soil that has been contaminated with liquid from the pond will be completely excavated and taken to the active face of the landfill for disposal. The Leachate Evaporation Pond Inspection Form below will be completed each week to document freeboard levels and corrective actions. Figure 15D shows the location of the leachate pond. Figure 15E shows details related to the size and construction materials for the pond.

5.2 Evaporation Pond Leak Detection System Monitoring

The leachate evaporation pond will have a leak detection system. This system will consist of a double sided geocomposite between the leachate evaporation pond geomembrane liners. The geocomposite will be drained at a minimum 1% slope to a leak detection sump. The leak detection sump will contain gravel wrapped in a geotextile with a perforated leak detection pipe connected to a solid wall leak detection riser pipe.

If liquid from the pond were to leak through the top layer of geomembrane, it will be collected in the leak detection geocomposite. The leak detection sumps will be monitored monthly for the presence of liquid. A water level indicator will be lowered to the bottom of the leachate riser. If no liquid is detected, no further action is necessary until the following monthly monitoring event. If liquid is detected, the depth of the liquid will be determined, and a

representative sample will be obtained and shipped to a laboratory for analysis. The depth of liquid will be monitored until the laboratory results are received.

The water sample will be analyzed to determine if the liquid in the sump is leachate from the pond or condensation. Metal concentrations will be compared from liquid pond samples to leak detection samples to determine if the liquid from the leak detection is similar to material in the pond. If the metals concentrations in the sample from the sump generally correlated (less than 10% deviation) to the metals concentrations of a sample of liquid in the pond, then the liquid will be assumed to be from the pond. If there is no correlation between the sump sample and the pond sample, then the liquid will be assumed to be condensation. This method of determining whether the liquid from the leak detection system is contaminated complies with §330.207(e). If the liquid is determined to be condensation, the liquid will be returned to the evaporation pond after testing is completed. The pond bottom is above the seasonal high water table, so no underdrain is required. If groundwater is encountered during the construction of the pond, the engineer and CQA officer will be notified prior to beginning the liner construction to determine if a permit modification needs to be completed to add an underdrain system.

If the liquid is determined to be leachate and/or gas condensate from a pond, the forcemain discharge to the pond will be closed and the pond will be emptied. The liquid in the pond and the leak detection sump will be pumped into another pond or storage tank, or pumped into tanker trucks and transported to a publicly owned treatment works (POTW) facility or a properly permitted privately-owned off-site facility. Leachate and/or gas condensate from the leachate evaporation pond may contain stormwater and therefore this liquid will not be recirculated into the landfill. After removal of the liquid, the area around the discharge pipe and where the tanker truck parked will be visually evaluated for signs of spills or leaks. Any observed soil that has been contaminated with liquid from the pond will be completely excavated and taken to the active face of the landfill for disposal.

After the leachate evaporation pond is emptied of liquid, the pond will be searched for holes or other leaks. Any holes or other leaks will be repaired in accordance with the requirements of Part III, Attachment 10, SLQCP. A Soil and/or Geomembrane Liner Repair Report (Repair Report) will be prepared and submitted to the TCEQ. This Repair Report will be signed and sealed by a licensed professional engineer in Texas with the appropriate supporting information.

When the evaporation pond repair is complete, the forcemain to the pond may be opened and the pond may again accept leachate and/or gas condensate. Monitoring of the leak detection sump for signs of liquid will resume as described above on a monthly basis.

5.3 Odor Controls for the Evaporation Pond

The leachate evaporation pond is being placed outside the permitted footprint of the landfill at a location that is not near any adjacent residences. Odors around the pond will be monitored weekly and if significant odors are detected, odor control measures such as aerators or portable

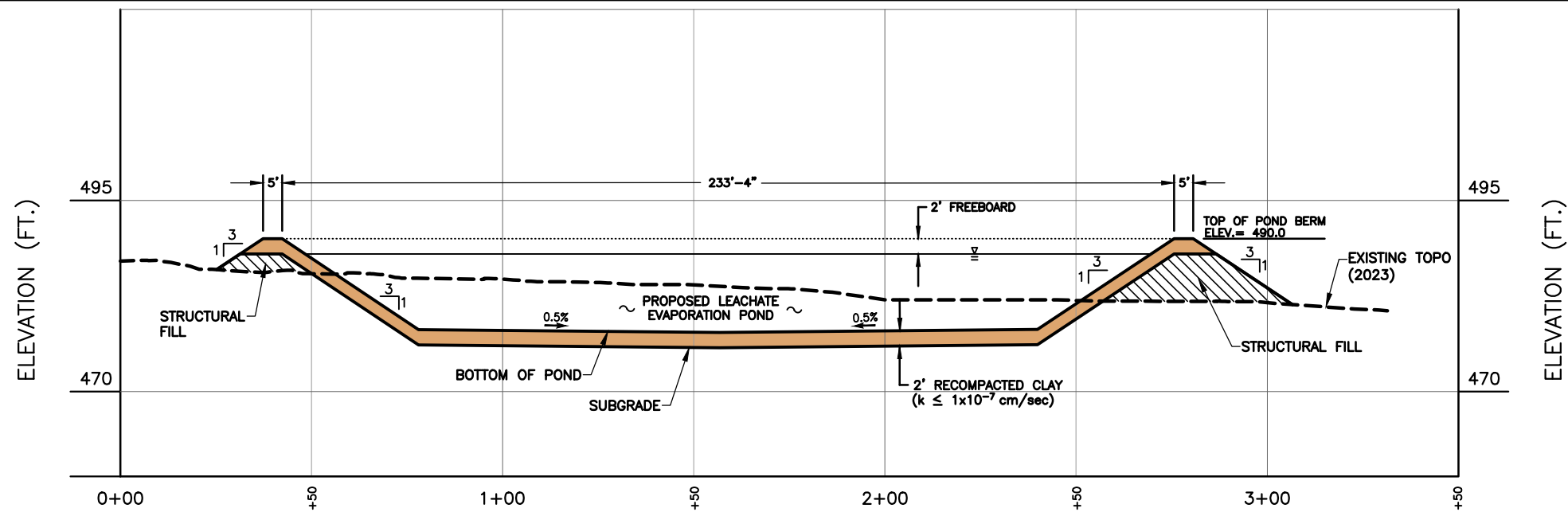
drum-mounted odor control units will be brought in to mitigate the odors. The odor control unit will be operated 24 hours a day until the odors have subsided. The Leachate Evaporation Pond Inspection Form below will be completed each week to document odor levels and corrective actions.

5.4 Pond Decommissioning and Removal

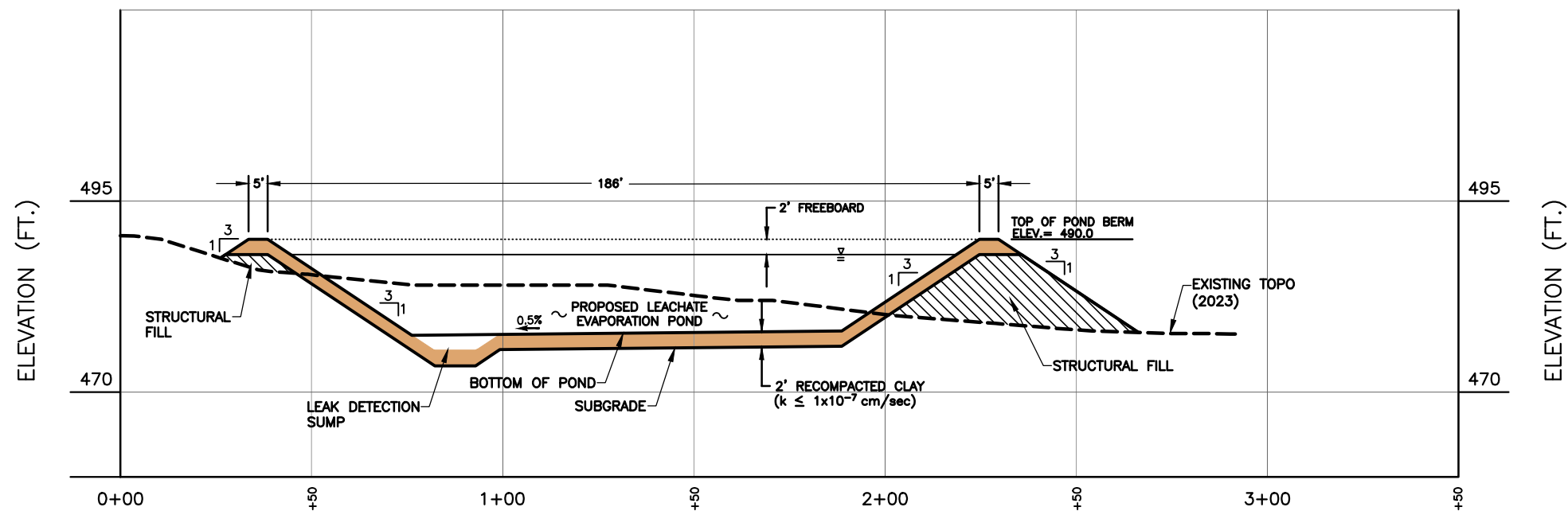
The leachate evaporation is proposed to be constructed outside of the area permitted for landfill disposal. Since the pond will manage both MSW and Class 1 leachate, any leachate remaining in the evaporation pond will be removed from the pond at decommissioning as a Class 1 waste. Then the geomembrane liners and the forcemain pipe and fittings will be removed and disposed of in a Class 1 cell at the landfill. The soil materials below the pond will be visually inspected to determine if any spills or leaks from the pond have contaminated it. Any soil that is determined to be contaminated with fluids from the pond will be disposed of in a Class 1 cell at the landfill. Any uncontaminated clay liner and structural fill will be removed and reused at the landfill liner construction or daily/intermediate cover.

CSC DISPOSAL AND LANDFILL MSW PERMIT 1209B LEACHATE EVAPORATION POND INSPECTION FORM		
Date:	Time:	Weather:
Inspector's Name:		
POND FREEBOARD		
Pond level below required freeboard mark? (circle one)	Yes	No
List any corrective actions taken to return pond level to within allowable limits:		
Date when pond level was returned to allowable limit:		
ODOR CONTROL		
Significant odors detected in vicinity of the pond? (circle one)	Yes	No
Date and time when odor control measures were deployed:		
Date and time when odor control measures were removed:		
GEOMEMBRANE CONDITIONS		
Are any tears, holes, or other defects visible in the geomembrane? (circle one)	Yes	No
Date and time when observed defects were repaired:		
RAINFALL CONDITIONS		
Has there been a storm event greater than 4" since last inspection?	Yes	No

CSC DISPOSAL AND LANDFILL MSW PERMIT 1209B LEACHATE EVAPORATION POND INSPECTION FORM					
Date:				Time:	Weather:
Inspector's Name:					
POND FREEBOARD					
Pond level below required freeboard mark? (circle one)				Yes	No
List any corrective actions taken to return pond level to within allowable limits:					
Date when pond level was returned to allowable limit:					
ODOR CONTROL					
Significant odors detected in vicinity of the pond(s)? (circle one)				Yes	No
Date and time when odor control measures were deployed:					
Date and time when odor control measures were removed:					
GEOMEMBRANE CONDITIONS					
Are any tears, holes, or other defects visible in the geomembrane? (circle one)				Yes	No
Date and time when observed defects were repaired:					
RAINFALL CONDITIONS					
Has there been a storm event greater than 4" since last inspection?				Yes	No



LEACHATE POND SECTION A
SCALE H:1"=40'; V:1"=20'



LEACHATE POND SECTION B
SCALE H:1"=40'; V:1"=20'

NOTES:

- 1) SEE FIGURE 4 FOR SECTION LOCATIONS.
- 2) SECTIONS ARE SHOWN AT A 2:1 VERTICAL EXAGGERATION.



10-29-2024

REFERENCE

TOPOGRAPHIC INFORMATION FROM AERIAL SURVEY BY FIRMATEK;
DATE OF PHOTOGRAPHY: NOVEMBER 14, 2023.

CEC
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Engineering Firm F-38

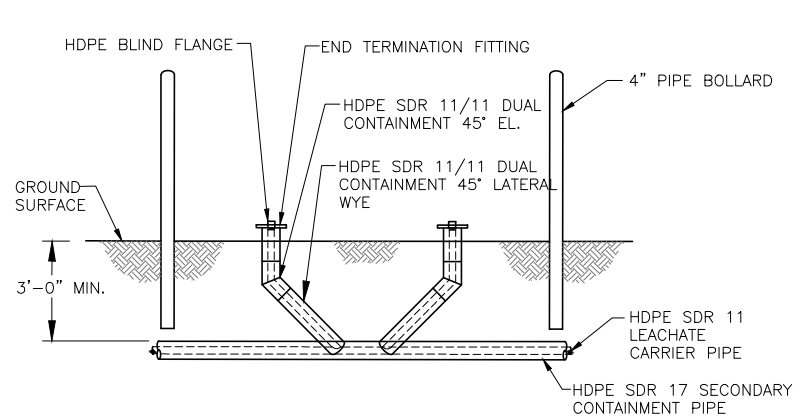
REPUBLIC SERVICES
LEACHATE EVAPORATION POND
CSC DISPOSAL & LANDFILL
ELLIS COUNTY, TEXAS

EVAPORATION POND CROSS SECTIONS

DRAWN BY:	BEO	CHECKED BY:	AWM	APPROVED BY:	*AWM	FIGURE NO.:
DATE:	SEPTEMBER 2024	DWG SCALE:	AS SHOWN	PROJECT NO:	315-320	

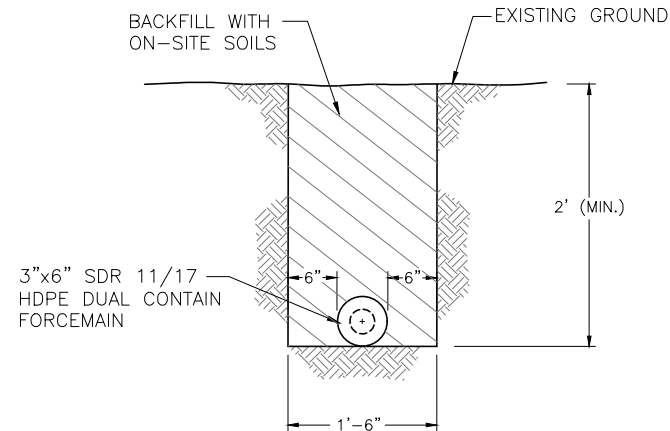
*HAND SIGNATURE ON FILE

15D



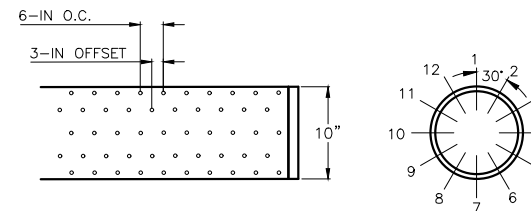
TYPICAL FORCEMAIN CLEAN-OUT

N.T.S.



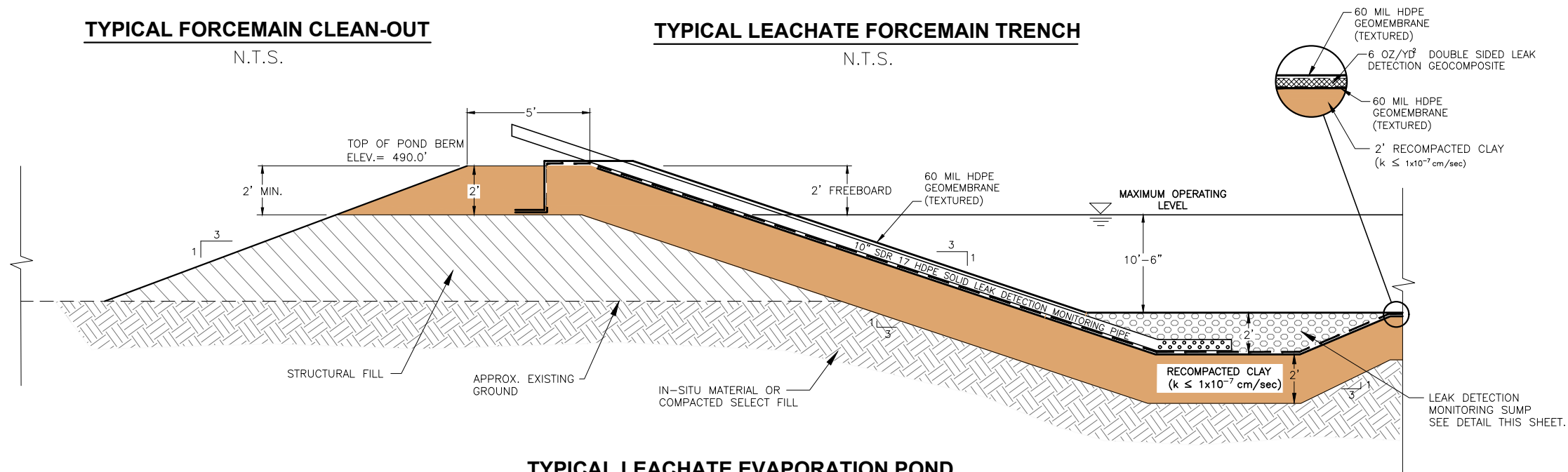
TYPICAL LEACHATE FORCEMAIN TRENCH

N.T.S.



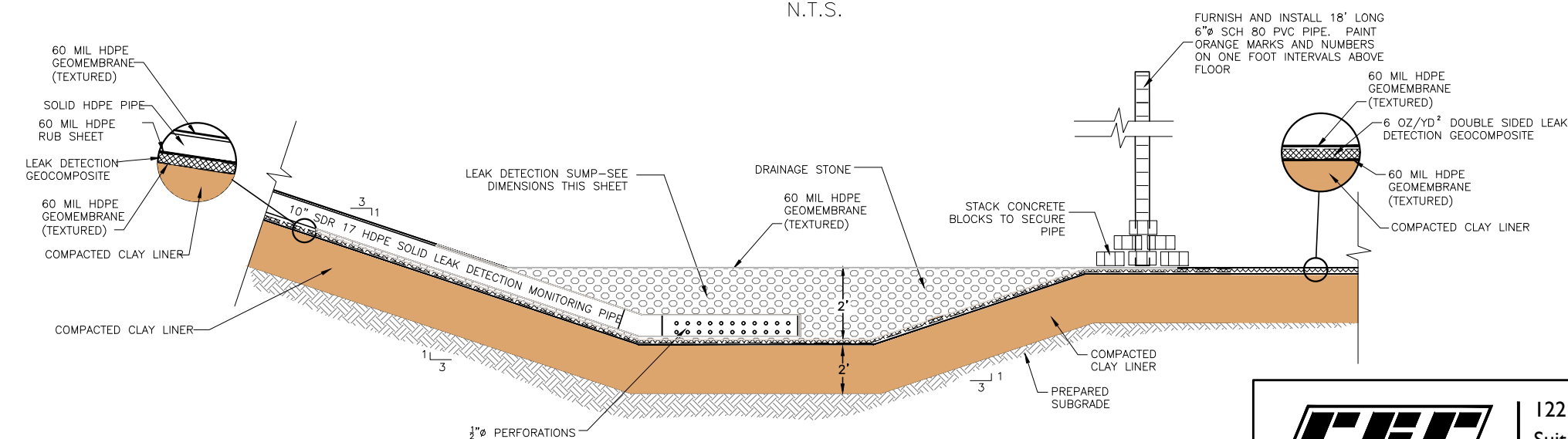
LEAK DETECTION MONITORING PIPE PERFORATION DETAIL

N.T.S.



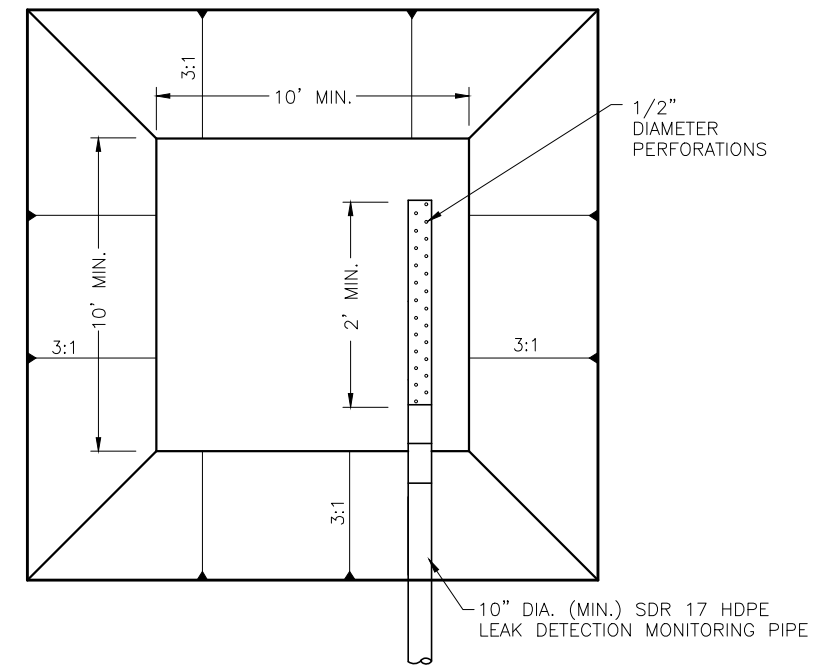
TYPICAL LEACHATE EVAPORATION POND PERIMETER BERM DETAIL AT SUMP

N.T.S.



TYPICAL LEACHATE EVAPORATION POND SUMP

N.T.S.



LEAK DETECTION MONITORING SUMP PLAN VIEW

N.T.S.



10-29-2024



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REPUBLIC SERVICES
LEACHATE EVAPORATION POND
CSC DISPOSAL & LANDFILL
ELLIS COUNTY, TEXAS

EVAPORATION POND DETAILS

DRAWN BY:	BEO	CHECKED BY:	AWM	APPROVED BY:	*AWM	FIGURE NO.:
DATE:	SEPTEMBER 2024	DWG SCALE:	AS SHOWN	PROJECT NO:	315-320	15E

CSC DISPOSAL AND LANDFILL, INC.

ELLIS COUNTY, TEXAS

TCEQ MSW PERMIT NO. 1209B

PART IV

SITE OPERATING PLAN

Prepared for
Republic Waste Services of Texas, Ltd.

April 1999
Revised October 2005
Revised January 2006
Approved April 24, 2006
Revised June 2008

Revised November 2019

Revised October 2024 by

Civil & Environmental Consultants, Inc. TBPE Registration No. F-38
1221 S. MoPac Expy. , Suite 350
Austin, TX 78746



10-29-2024

TABLE OF CONTENTS

LIST OF TABLES AND FIGURES	IV-iv
LIST OF ACRONYMS	IV-v
1 INTRODUCTION	IV-1
2 PERSONNEL AND TRAINING	IV-2
2.1 Personnel	IV-2
2.2 Training	IV-3
3 EQUIPMENT	IV-6
4 OPERATIONAL PROCEDURES	IV-7
4.1 Access Control	IV-7
4.2 Unloading Wastes	IV-8
4.3 Hours of Operation	IV-9
4.4 Site Signs	IV-9
4.5 Control of Windblown Wastes and Litter	IV-9
4.6 Easements and Buffer Zones	IV-10
4.7 Landfill Markers and Buffer Zones	IV-10
4.8 Control of Waste Spill on Route to the Site	IV-11
4.9 Disposal of Large Items	IV-12
4.10 Air Quality Control	IV-12
4.11 Disease Vector Control	IV-13
4.12 Site Access Roads	IV-13
4.13 Salvaging and Scavenging	IV-14
4.14 Endangered Species	IV-14
4.15 Control of Landfill Gas	IV-14
4.16 Treatment of Abandoned Oil and Water Wells	IV-14
4.17 Compaction of Solid Waste	IV-15
4.18 Soil Management, Placement, Compaction of Daily, Intermediate, and Final Cover	IV-15
4.19 Prevention of Ponded Water	IV-18
4.20 Disposal of Special Wastes	IV-18
4.21 Disposal of Industrial Waste	IV-21
4.22 Prevention of Discharge of Contaminated Water	IV-22
4.23 Leachate and Contaminated Water Plan	IV-22
4.24 Site Inspection and Maintenance Schedule	IV-23

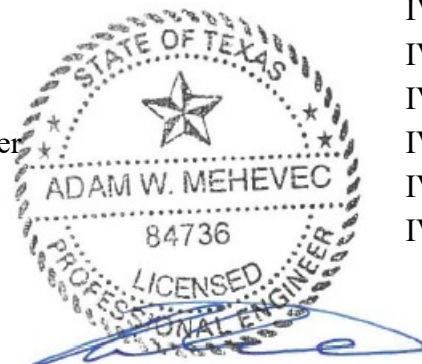


TABLE OF CONTENTS (Continued)

	4.25 Visual Screening of Deposited Waste From View	IV-23
5	LEACHATE AND CONTAMINATED WATER DISPOSAL	IV-25
	5.1 General	IV-25
	5.2 Load Inspection Procedures	IV-25
	5.3 Recordkeeping	IV-26
	5.4 Training	IV-26
	5.5 Managing Prohibited Wastes	IV-27
6	FIRE PROTECTION PLAN	IV-28
	4.1 Fire Prevention Procedures	IV-28
	4.2 Specific Fire-Fighting Procedures	IV-29
	4.3 General Rules for Fires	IV-29
7	RECORDKEEPING REQUIREMENTS	IV-32
8	CONTINGENCY PLAN	IV-35

APPENDIX IVA

Alternate Daily Cover Operating Plan

APPENDIX IVB

Special Waste and PCB Waste Acceptance Plan

APPENDIX IVC

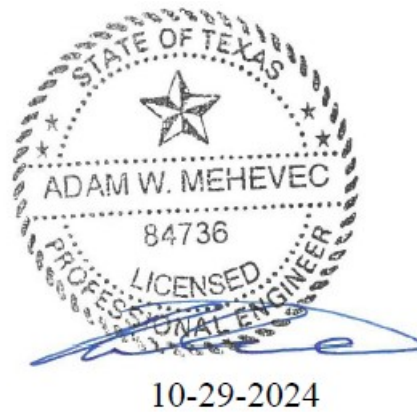
Solidification Acceptance Plan

APPENDIX IVD

EPA Authorization for Disposal of PCB Wastes

APPENDIX IVE

Supporting Calculations



TABLES AND FIGURES

Tables

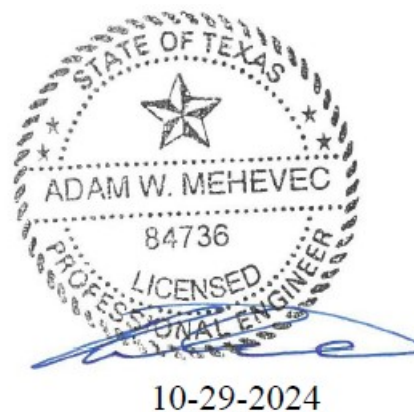
3.1	Typical Equipment List	IV-6
4.1	Site Inspection and Maintenance Schedule	IV-24

Figures

2.1	Organizational Chart	IV-5
-----	----------------------	------

Drawings

IA	RACM Disposal Area	IV-19
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emergency procedures, emergency equipment, and emergency systems, including, where applicable:

- procedures for using, inspecting, repairing, and replacing facility emergency and
- monitoring equipment;
- communications or alarm systems;
- response to fires or explosions;
- response to ground-water contamination incidents;
- shutdown of operations;
- litter control
- management of methane gas safety procedures
- litter control
- methane gas safety procedures
- operational and removal procedures related to the leachate evaporation pond, see Attachment 15

Facility personnel must successfully complete the training program within six months after the effective date of these regulations or six months after the date of their employment or assignment to a facility, or to a new position at a facility, whichever is later. Employees hired after the effective date of these regulations must not work in unsupervised positions until they have completed the specified training requirements.

Facility personnel must take part in an annual review of their initial training.

The Site Manager must maintain the following documents and records at the facility:

- the job title for each position at the facility related to waste management, and the name of the employee filing each job;
- a written job description for each position listed under paragraph (1) of chapter 335.586(a). This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but must include the requisite skill, education, or other qualifications, and duties of employees assigned to each position;
- records that document that the required training or job experience has been given to, and completed by, facility personnel.

Training records on current personnel must be kept until closure of the facility and training records on former employees must be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company.

4 OPERATIONAL PROCEDURES

4.1 Access Control

Access to the landfill is limited to the gated site entrance located approximately 0.6 mile north of the intersection of State Highway 34 and FM 55, north of Avalon, Texas. The gate attendant controls access and monitors all vehicles entering and exiting the site.

4.1.1 Site Security

Site security measures are designed to prevent unauthorized persons from entering the site, to protect the facility and its equipment from possible damage caused by trespassers, and to prevent disruption of facility operations caused by unauthorized site entry.

Unauthorized access to the site is minimized by controlling access with perimeter fencing (minimum 4-foot high, three strand barbed wire fence), and gated entrance. The perimeter fence and gate are inspected twice monthly. Repairs and maintenance are performed as necessary. Refer to Section 4.24 of this SOP for site inspection and maintenance schedule. "No Trespassing" signs are posted at the site property line.

The site entrance is secured by a gate that is monitored by the gate attendant during site operating hours. Outside operating hours, the gate to the site is locked.

Entry to the active portion of the site is restricted to designated personnel, approved waste haulers, and properly identified persons whose entry is authorized by site management. Visitors are allowed on the active area only when accompanied by a site representative.

In case of a breach to the access control for the site, the TCEQ regional office will be notified within 24 hours, unless the breach can be permanently repaired within eight hours. The breach will be temporarily repaired within 24 hours of detection. Notification will include a schedule for completion of the permanent repair.

4.1.2 Traffic Control

Access to the landfill site is provided via State Highway 34, northeast of Avalon, Texas. Vehicular traffic to the landfill generally accesses the site using State Highway 34. The entrance has a gate that is attended during operating hours by the gate attendant. The gate attendant restricts site access to authorized vehicles and directs these vehicles appropriately.

necessary. The landfill general manager or his designee will consult with TxDOT officials as necessary concerning cleanup of state highways and rights-of-way consistent with §330.145.

4.9 Disposal of Large Items

A large item/white goods storage area will be established if incoming waste volumes of white goods and large items that cannot be incorporated into the regular spreading, compacting and cover operations are significant enough to require a separate storage area. These items are recycled as demand warrants. Recycled items will be removed from the site frequent enough to prevent nuisance conditions and discharge of any pollutants. Large items that are not recycled are disposed of at the working face. Care is taken during disposal of large items to ensure that: (1) large items are not placed directly on the protective cover, (2) large items are placed such that they do not interfere with continued waste filling, and (3) that other, smaller municipal solid waste is placed and compacted around them (see subsection 4.17 of this SOP). Refrigerators, freezers, air conditioners, and other items containing chlorinated fluorocarbon (CFC) will be handled in accordance with 40 CFR §82.156(f).

Refrigerators, Air Conditioners or other items containing CFC refrigerant will not be accepted unless CFC refrigerant has been captured from the unit and sent to an approved CFC disposal site or recycled. The generator must provide certification that the CFC has been evacuated from the unit prior to acceptance or disposal.

4.10 Air Quality Control

Measures to control air pollution include, but are not limited to, the following items:

- Open burning of waste is not permitted at this facility.
- Incoming waste is promptly landfilled.
- Freshly landfilled waste is promptly covered with daily cover.
- Ponded water at the site is controlled as detailed in Section 4.19 of this SOP.
- Accidental fires are controlled as outlined in Section 6 of this SOP.

In addition to these general items that will control odors the following additional measures will be taken to minimize odors from potential sources at the landfill:

Leachate that is generated at the site will be conveyed to the leachate collection sumps and pumped to the leachate storage tanks via a forcemain. Leachate will be recirculated or disposed of consistent with Section 5 of Attachment 15. This minimizes potential odors associated with leachate. See Attachment 15 for odor control procedures related to the leachate evaporation pond.

Liquid wastes including sludges and other potentially odiferous wastes will be processed upon receipt and buried as soon as solidification is completed.

Class 2 and Class 3 industrial solid wastes, as defined in §330.3, are accepted at the facility, provided disposal of these wastes does not interfere with proper operation of the facility.

This facility has received prior approval to dispose of Class I wastes in accordance with the facility Site Operating Plan. Additional written authorization to receive specific Class I waste will not be required due to this general TCEQ approval of Class I waste at the CSC landfill. The Class I waste approval does not restrict or limit the amount of Class I waste to 20 % of total amount (excluding Class I) of waste accepted during the current or previous year. The facility is expected to average receiving approximately between 20 - 50% of the annual waste volume as Class I waste.

The CSC Landfill will submit monthly reports documenting the Class I waste received during the previous month. Reports will be submitted to the Executive Director by the 25th day of the month following waste receipt. Reports must be on the forms provided by TCEQ and include all required information.

4.22 Prevention of Discharge of Contaminated Water

The landfill general manager takes all steps necessary to control and prevent the discharge of contaminated water from the facility. Should the discharge of contaminated water become necessary, the landfill general manager obtains specific written authorization from the TCEQ prior to discharge. All water coming in contact with waste, leachate, or contaminated soils is treated as leachate. Run-on and runoff controls for the 25-year, 24-hour storm event are controlled following the procedures set forth in Part III, Attachment 15 - Leachate and Contaminated Water Plan. The landfill is operated consistent with §330.15(h) regarding discharge of solid wastes or pollutants into waters of the United States and current discharge rules.

Contaminated water may also be transported to the leachate storage tanks. When contaminated water is stored in the leachate storage tanks, no leachate recirculation will occur, and a sign will be posted on the tank stating "No Recirculation." When the tank containing the contaminated water is emptied, the sign will be removed. Also, a record will be placed in the Site Operating Record noting that contaminated water is being stored in the leachate storage tanks.

4.23 Leachate and Contaminated Water Plan

Leachate and contaminated water are controlled as specified in Part III, Attachment 15 - Leachate and Contaminated Water Plan. As discussed in Section 5 of Attachment 15, leachate and contaminated water will either be hauled or pumped to the evaporation pond, recirculated, or disposed off-site. Leachate and gas condensate are recirculated only on areas underlain by a composite liner and LCS as allowed by §330.177. Leachate and gas condensate recirculation will be accomplished in the following manner:

Leachate and gas condensate will be pumped to or transported to the waste area in a tank pulled by a tractor, a water truck, or other suitable tank and distributed on the waste. Sprinklers will not be used to distribute leachate or gas condensate. Leachate and gas condensate will be recirculated throughout the year, and will only be applied over composite lined areas. Leachate may be applied to waste at the working face or daily cover areas. Leachate and gas condensate will not be applied to exterior slopes that may drain off site or on intermediate or final cover areas. Leachate will not

be recirculated when it is raining or when the average wind speed is greater than 35 miles per hour.

4.24 Site Inspection and Maintenance Schedule

A typical site inspection and maintenance schedule is shown in Table IV-1. This schedule includes the maintenance required for the perimeter fence and gate, windblown waste, waste spilled on route to the site, landfill markers, the site access road, daily cover, intermediate cover, final cover, ~~and~~ leachate, and evaporation pond. The schedule provides general guidance only and may be modified as necessary by the general manager.

4.25 Visual Screening of Deposited Waste From View

The active Phase II disposal area is more than 1000 ft from any residences or public roadways. This facility is located in a rural area of the county that is not densely populated or exhibiting any significant growth. The CSC landfill has been operating without any additional screening measures for many years. Based on these factors, no additional screening will be provided other than waste cover and vegetation.

Table IV-4.1
Site Inspection and Maintenance Schedule

ITEM	TASK	SCHEDULE
Fence/Gate	Inspect perimeter fence and gate for damage, gaps, intrusions and the like. Make repairs if necessary	Twice a month.
Windblown Waste	Police working fence area, wind fences, access roads, entrance area, and perimeter fence for loose trash. Clean up as necessary.	Daily during days waste is accepted
Waste Spilled on Route to the Site	Police entrance area at least 2 miles from the site entrance for loose trash. Clean up as necessary.	Daily during days waste is accepted
Landfill Markers	Inspect all landfill markers for damage, color coding, and general location. Correct or replace damaged markers within 15 days of discovery.	Monthly during months waste is accepted
Site Access Road	Inspect site access road for damage from vehicle traffic, erosion, or excessive mud accumulation. Maintain as needed with crushed rock or stone.	Daily (wet weather) during days waste is accepted Weekly (otherwise) during weeks waste is accepted
Daily Cover	Inspect for proper placement, thickness, and compaction. Correct problems as needed.	Daily during days waste is accepted
Intermediate Cover	Inspect for proper placement, thickness, erosion, compaction, and presence of waste or other contamination. Correct problems as needed.	Weekly during weeks waste is accepted*
Final Cover	Inspect for proper placement, thickness, compaction, slope, settlement and erosion. Maintenance will be ongoing throughout postclosure care period. Correct problems as needed.	Weekly during weeks waste is accepted*
Leachate	Measure depth of leachate in sump.	Twice a week during weeks waste accepted until production rate is determined, then as necessary*.
Leachate Pond	Inspect pond as indicated in Attachment 15.	Weekly during weeks waste is accepted

* Intermediate cover, final cover, and leachate inspections will be completed in accordance with the frequency specified in the inspection schedule during weeks waste is accepted; otherwise these inspections will be performed at a minimum of twice a month.

ATTACHMENT 4
Core Data Form



TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
☐ New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
☐ Renewal (Core Data Form should be submitted with the renewal form)	☒ Other Addition of Evaporation Pond	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600132534		RN 102000551

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)			
☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership ☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Republic Waste Services of Texas LTD					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
11. Type of Customer:		☒ Corporation		☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☒ Sole Proprietorship		☐ Other:	
12. Number of Employees				13. Independently Owned and Operated?	
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher				☐ Yes ☐ No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
☐ Owner ☐ Operator ☐ Owner & Operator ☐ Other: ☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant					
15. Mailing Address:					
City		State		ZIP	
				ZIP + 4	
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
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SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
23. Street Address of the Regulated Entity: (No PO Boxes)								
	City		State		ZIP		ZIP + 4	
24. County								

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:	This Type I Municipal Solid Waste Management Facility is located on a 297 acre site located approximately 0.6 miles north of the intersection of State Highway 34 and FM 55 in Avalon, Ellis County, Texas. The Physical address is 101 Republic Way, Avalon, Texas 76623.							
26. Nearest City					State	Nearest ZIP Code		
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>								
27. Latitude (N) In Decimal:					28. Longitude (W) In Decimal:			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
34. Mailing Address:								
	City		State		ZIP		ZIP + 4	
35. E-Mail Address:								
36. Telephone Number	37. Extension or Code				38. Fax Number (if applicable)			
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39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☒ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
1209B				
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Adam W. Mehevec, P.E.		41. Title:	Vice President
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(512) 255-8103		() -		

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Republic Waste Services Ltd.	Job Title:	Environmental Manager
Name (In Print):	Adam Kesterholt	Phone:	(972) 627- 3413
Signature:		Date:	12/9/2024

ATTACHMENT 5
Fee Payment Receipt



Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

Transaction Information

Trace Number: [REDACTED]

Date: 10/10/2024 11:18 AM

Payment Method: CC - Authorization [REDACTED]

ePay Actor: ADAM WADE MEHEVEC

Actor Email: [REDACTED]

IP: [REDACTED]

TCEQ Amount: \$150.00

Texas.gov Price: \$153.63*

* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

Payment Contact Information

Name: ADAM WADE MEHEVEC

Company: CIVIL & ENVIRONMENTAL CONSULTANTS

Address: 1221 S MOPAC EXPY, AUSTIN, TX 78746

Phone: 512-587-4475

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
725039	MSW PERMIT/REGISTRATION/AMEND/MOD/TEMP AUTHORIZATIONS APPLICATION FEE		\$100.00
725040	30 TAC 305.53B MWP NOTIFICATION FEE		\$50.00
TCEQ Amount:			\$150.00

[ePay Again](#)

[Exit ePay](#)

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.