



**Texas Commission on Environmental Quality**  
**Correspondence Cover Sheet**  
**Waste Permits Division**

Date: 03/05/2026  
 Facility Name: LES Dallas Facility  
 Permit, Registration, or  
 Authorization No.: 2096A

**Nature of Submittal:**  
 Initial  
 Deficiency Response to TCEQ Tracking No.: \_\_\_\_\_  
 (from subject line of TCEQ Notice of Deficiency)

Affix a completed Correspondence Cover Sheet to the front of each submission to the Waste Permits Division. Check **one box** to indicate type of correspondence. Call (512) 239-2335 if you have questions.

**Table 1 - Municipal Solid Waste Correspondence**

Applications	Reports and Communications
Permit (New): <input type="checkbox"/> Landfill <input type="checkbox"/> Processor <input type="checkbox"/> Compost	<input type="checkbox"/> Alternative Daily Cover Status Report
<input type="checkbox"/> Registration Application (New)	<input type="checkbox"/> Closure Report
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Compost Report
<input type="checkbox"/> Limited Scope Major Amendment	<input type="checkbox"/> Groundwater Alternate Source Demonstration
<input checked="" type="checkbox"/> Modification with Public Notice	<input type="checkbox"/> Groundwater Corrective Action Report
<input type="checkbox"/> Modification without Public Notice	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> Ownership Transfer/Name Change Modification	<input type="checkbox"/> Groundwater Background Evaluation Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Landfill Gas Corrective Action Report
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Landfill Gas Monitoring Report
Subchapter T: <input type="checkbox"/> Permit <input type="checkbox"/> Registration	<input type="checkbox"/> Liner Evaluation Report
<input type="checkbox"/> Subchapter T Disturbance Non-Enclosed Structure	<input type="checkbox"/> Soil Boring Plan
Notice of Intent: <input type="checkbox"/> New <input type="checkbox"/> Revision <input type="checkbox"/> Closure	<input type="checkbox"/> Special Waste Request
<input type="checkbox"/> Other Application:	<input type="checkbox"/> Other Report or Communication:

**Table 2 - Industrial & Hazardous Waste Correspondence**

Applications	Reports and Notifications	
<input type="checkbox"/> CCR Registration (New)	<input type="checkbox"/> Extension Request	<input type="checkbox"/> Interim Status Change
<input type="checkbox"/> Permit Application (New)	<input type="checkbox"/> CfPT Plan/Result	<input type="checkbox"/> Interim Status Closure Plan
<input type="checkbox"/> Permit Renewal	<input type="checkbox"/> CPT Plan/Result	<input type="checkbox"/> Closure Certification/Report
<input type="checkbox"/> Post-Closure Order (New)	<input type="checkbox"/> Construction Certification/Report	<b>CCR Notifications:</b>
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Corrective Action Effectiveness Report	<input type="checkbox"/> CCR Closure Care Plan
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> Groundwater Alternative Source Demonstration Report	<input type="checkbox"/> CCR Design Criteria
Class of Permit Modification: <input type="checkbox"/> 1 <input type="checkbox"/> 1ED <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> Groundwater Background Evaluation Report	<input type="checkbox"/> CCR Groundwater Monitoring and Corrective Action Report
<input type="checkbox"/> Endorsement	<input type="checkbox"/> Groundwater Monitoring Report	<input type="checkbox"/> CCR Location Restriction
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Soil Core Monitoring Report	<input type="checkbox"/> CCR Operating Criteria
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Treatability Study	<input type="checkbox"/> CCR Post-closure Care Plan
<input type="checkbox"/> 335.6 Notification	<input type="checkbox"/> Trial Burn Plan/Result	<input type="checkbox"/> Other Report or Notification
<input type="checkbox"/> Other:	<input type="checkbox"/> Unsaturated Zone Monitoring Report	(specify):



C-K ASSOCIATES, LLC  
8591 UNITED PLAZA BLVD  
SUITE 300  
BATON ROUGE, LA 70809  
PHONE (225) 755-1000  
FAX (225) 751-2010  
www.c-ka.com

THE WOODLANDS, TX  
PHONE (281) 397-9016

LAKE CHARLES, LA  
PHONE (337) 625-6577

SHREVEPORT, LA  
PHONE (318) 797-8636

March 5, 2026

TCEQ Permits Section MC-124  
Municipal Solid Waste Permits Section  
Waste Permits Division  
Texas Commission on Environmental Quality  
Building A, Room 122, 12100 Park 35 Circle  
Austin, Texas 78753-1808

Via e-mail: [REDACTED]

RE: Request for Permit Modification  
Alternative Buffer Zone and Other Updates  
Liquid Environmental Solutions of Texas, LLC  
LES - Dallas Facility  
TCEQ MSW Permit No. 2096A  
CN603229436 | RN103002713

Dear MSWPER:

On behalf of Liquid Environmental Solutions of Texas, LLC (LES), and in accordance with 30 TAC 330.70(I), CK Associates, LLC (CK) is submitting this request for a Permit Modification with Public Notice to Texas Commission on Environmental Quality (TCEQ) MSW Permit 2069A. The purpose of the modification is to: allow an alternative buffer zone at the LES – Dallas Facility; update the permit to make modifications previously authorized under a Temporary Authorization; and make minor equipment changes.

The LES Dallas Facility is located at 11115 Goodnight Lane in Dallas, Dallas County, Texas. The facility processes grease trap/food-related and grit trap waste streams. The facility is designed and permitted to separate and process the waste streams received into recyclable components, water suitable for discharge into the sanitary sewer system and solid materials for appropriate disposal.

#### Alternative Buffer Zone

Per 30 TAC 330.543(b)(1), a minimum separating distance of 50 feet between solid waste storage/process units within and adjacent to the facility boundary on property owned or controlled by the owner/operator is required. The buffer zone shall not be narrower than necessary to provide for safe passage for fire fighting equipment and other emergency

vehicles. LES has historically met this 50-foot buffer requirement along the south and west boundaries of the site by leasing land adjacent to its property boundary. The lease expires on June 30, 2026. LES believes that the lessor of the land may not renew the lease.

In email correspondence, TCEQ stated that the buffer zone could be reduced through a modification with public notice under 30 TAC 305.70(l).<sup>1</sup>

Therefore, one objective of this modification is to authorize an alternative to the buffer zone requirement in 30 TAC 330.543(b)(1). To support the modification, LES met with the Dallas Fire Department (DFD) on August 20, 2025, to review the facility layout and allow DFD personnel to assess whether more than sufficient access for fire fighting or other emergency response would be available without the required 50-foot buffer. The layout reviewed by the DFD differs from the layout currently reflected in the permit; however, the version provided to the DFD was prepared for the specific purpose of evaluating emergency access and does not alter any operational or functional aspects relevant to the modification request. Following their review, the DFD determined that more than sufficient access is available without the buffer as long as pathways are maintained, regardless of the tank or equipment configuration, as documented in the Existing Fire Department Access Plan stamped by the DFD on September 10, 2025. A copy of this plan is provided in **Attachments C and D**.

#### Modifications to Incorporate Temporary Authorization Changes

This modification request updates the permit with changes that TCEQ allowed under a Temporary Authorization that was initially approved by the TCEQ on March 26, 2018 (see Tracking No. 22566826). These changes included the addition of a filter press and a lime storage tank which better equipped the facility to meet the limits of the City of Dallas Pre-Treatment Permit.

#### Other Modifications

This request updates the equipment list at the facility and proposes upgrades to the secondary containment system.

This submittal includes:

- TCEQ correspondence cover sheet (TCEQ-20714)
- Cover letter explaining the purpose of this modification.
- Application Form for Municipal Solid Waste Permit or Registration Modification or Temporary Authorization (TCEQ -20650) including the following attachments:
  - A. Land Ownership Map

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<sup>1</sup> See email from Megan Henson of TCEQ to Brooks Ray of CK dated 12/22/2025.

- B. Landowners List
- C. Marked (Redline/Strikeout) Pages
  - 1. Part II
  - 2. Part II Attachment II-1 Waste Analysis and Acceptance Plan
  - 3. Attachment SDP-2 Final Closure Plan
  - 4. Part III Figures
    - 1. Figure SDP-1 Grease Process Flow Diagram
  - 5. Part IV Site Operating Plan
- D. Unmarked Revised Pages
  - 1. Part II
  - 2. Part II Attachment II-1 Waste Analysis and Acceptance Plan
  - 3. Attachment SDP-2 Final Closure Plan
  - 4. Part III Figures
    - 1. Figure SDP-1 Grease Process Flow Diagram
  - 5. Part IV Site Operating Plan
- E. Core Data Form
- F. Fee Payment Receipt

The changes reflected in the General Facility Layout Map provided in Part II (see Attachments C-1 and D-1) are updates confirmed by an engineer during an in-person site visit. Equipment Item Numbers 22, 24, and 27 are no longer on site. Items 23, 25, and 19 were misplaced on the map previously and have now been correctly placed.

The redline has a tank marked as 25 stroked through because that should have been number 22 in the 2018 Permit Modification. Item nos. 19, 23, and 25 were marked in the wrong order on the 2018 Permit Modification. On the 2018 version, they are marked as 22, 19, and 23 from left to right. Item no. 22 is no longer there, and 19 and 23 were in the wrong positions.

### Closing

One original and one copy of this submittal are provided for your use and distribution. An additional copy is being submitted to the Dallas/Fort Worth Regional Office.

Please note that the changes addressed herein will not result in an increase in permitted capacity.

If you have any questions or require any additional information, please do not hesitate to contact Brooks Ray at 225-923-6482 or [REDACTED] or Paul Maier of LES at 817-713-2205 or [REDACTED]

Sincerely,  
CK Associates



Brooks Ray  
Sr. Scientist



David Hawley, P.E.  
Senior Engineer

CC: TCEQ Region 4 Office  
Liquid Environmental Solutions of Texas, LLC

Attachments: As stated

**Application Form**

TCEQ-20650



# Texas Commission on Environmental Quality

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

### Application Tracking Information

Facility Name: LES Dallas Facility  
Permittee or Registrant Name: Liquid Environmental Solutions of Texas, LLC  
MSW Authorization Number: 2069A  
Initial Submission Date: 03/05/2026  
Revision Date: \_\_\_\_\_

Instructions for completing this form are provided in [form TCEQ-20650-instr](#)<sup>1</sup>. If you have questions, contact the Municipal Solid Waste Permits Section by email to [mswper@tceq.texas.gov](mailto:mswper@tceq.texas.gov), or by phone at 512-239-2335.

### Application Data

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

<sup>1</sup> [www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20650-instr.pdf](http://www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20650-instr.pdf)

## 5. Electronic Versions of Application

For modifications that require public notice, TCEQ will publish electronic versions of the applications online. Applicants must provide complete electronic copies of their initial applications, responses to notices of deficiencies, and the final technically complete versions. (Refer to instructions for this form for how to submit electronically.)

## 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: Brooks Ray

Title: Sr. Environmental Scientist

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: Liquid Environmental Solutions of Texas, LLC

Contact Name: Paul Maier Title: Director of Operations

MSW Authorization Number (if existing): 2069A

Regulated Entity Reference Number: **RN** 103002713

Physical or Street Address: 11115 Goodnight Lane

City: Dallas County: Dallas State: TX Zip Code: 75229

Phone Number: 817-713-2205

Latitude (Decimal Degrees): N 32.885084

Longitude (Decimal Degrees): W -96.902147

## 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 purposes of this modification request are to: request an alternative buffer zone; add a filter press and lime tank which were previously temporarily authorized; and to update the list of equipment at the facility.

## 11. Facility Contact Information

### Site Operator (Permittee or Registrant)

Name: Liquid Environmental Solutions of Texas, LLC

Customer Reference Number: **CN** 603229436

Contact Name: Paul Maier Title: Director of Operations

Mailing Address: 11115 Goodnight Lane

City: Dallas County: Dallas State: TX Zip Code: 75229

Phone Number: 817-713-2205

Email Address: [REDACTED]

Texas Secretary of State (SOS) Filing Number: 80082995

### 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: C-K Associates, LLC

Consultant Name: Brooks Ray

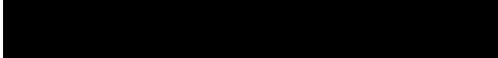
Texas Board of Professional Engineers Firm Registration Number: F-9628

Contact Name: Brooks Ray Title: Sr. Environmental Scientist

Mailing Address: 8591 United Plaza Blvd

City: Baton Rouge County: USA State: LA Zip Code: 70809

Phone Number: \_\_\_\_\_

Email Address:  \_\_\_\_\_

**Agent in Service (required for out-of-state applicants)**

Name: Not Applicable

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 the next question and proceed to signature page.

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: Alan Akin Title: Vice President Treatment & Recovery

Email Address: [REDACTED]

Signature: [Handwritten Signature] Date: 3/3/2026

**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**

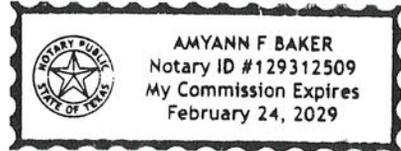
SUBSCRIBED AND SWORN to before me by the said Alan Akin

On this 3rd day of March, 2026

My commission expires on the 24th day of February, 2029

[Handwritten Signature]

Notary Public in and for Dallas 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.**

<b>Required Attachments</b>	<b>Attachment Number</b>
Land Ownership Map	A
Landowners List	B
Marked (Redline/Strikeout) Pages	C
Unmarked Revised Pages	D

### **Attachments Table 2. Additional attachments as applicable.**

<b>Additional Attachments as Applicable (select all that apply and add others as needed)</b>	<b>Attachment Number</b>
<input checked="" type="checkbox"/> TCEQ Core Data Form(s)	E
<input type="checkbox"/> Signatory Authority Delegation	
<input checked="" type="checkbox"/> Fee Payment Receipt	F
<input type="checkbox"/> Confidential Documents	

## Attachments for Permit or Registration Modification without Public Notice, or Temporary Authorization

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

### ***Attachments Table 3. Required attachments for modifications.***

<b>Required Attachments for Modification</b>	<b>Attachment Number</b>
Marked (Redline/Strikeout) Pages	
Unmarked Revised Pages	

### ***Attachments Table 4. Additional attachments for modifications and temporary authorizations, as applicable.***

<b>Additional Attachments as Applicable (select all that apply and add others as needed)</b>	<b>Attachment Number</b>
<input type="checkbox"/> TCEQ Core Data Form(s)	
<input type="checkbox"/> Signatory Authority Delegation	
<input type="checkbox"/> Fee Payment Receipt	
<input type="checkbox"/> Confidential Documents	

## Attachments for Permit or Registration Name Change or Transfer Modification

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

### **Attachments Table 5. Required attachments.**

<b>Required Attachments</b>	<b>Attachment Number</b>
TCEQ Core Data Form(s)	
Property Legal Description	
Property Metes and Bounds Description	
Metes and Bounds Drawings	
On-Site Easements Drawing	
Land Ownership Map	
Land Ownership List	
Property Owner Affidavit	
Verification of Legal Status	
Evidence of Competency	

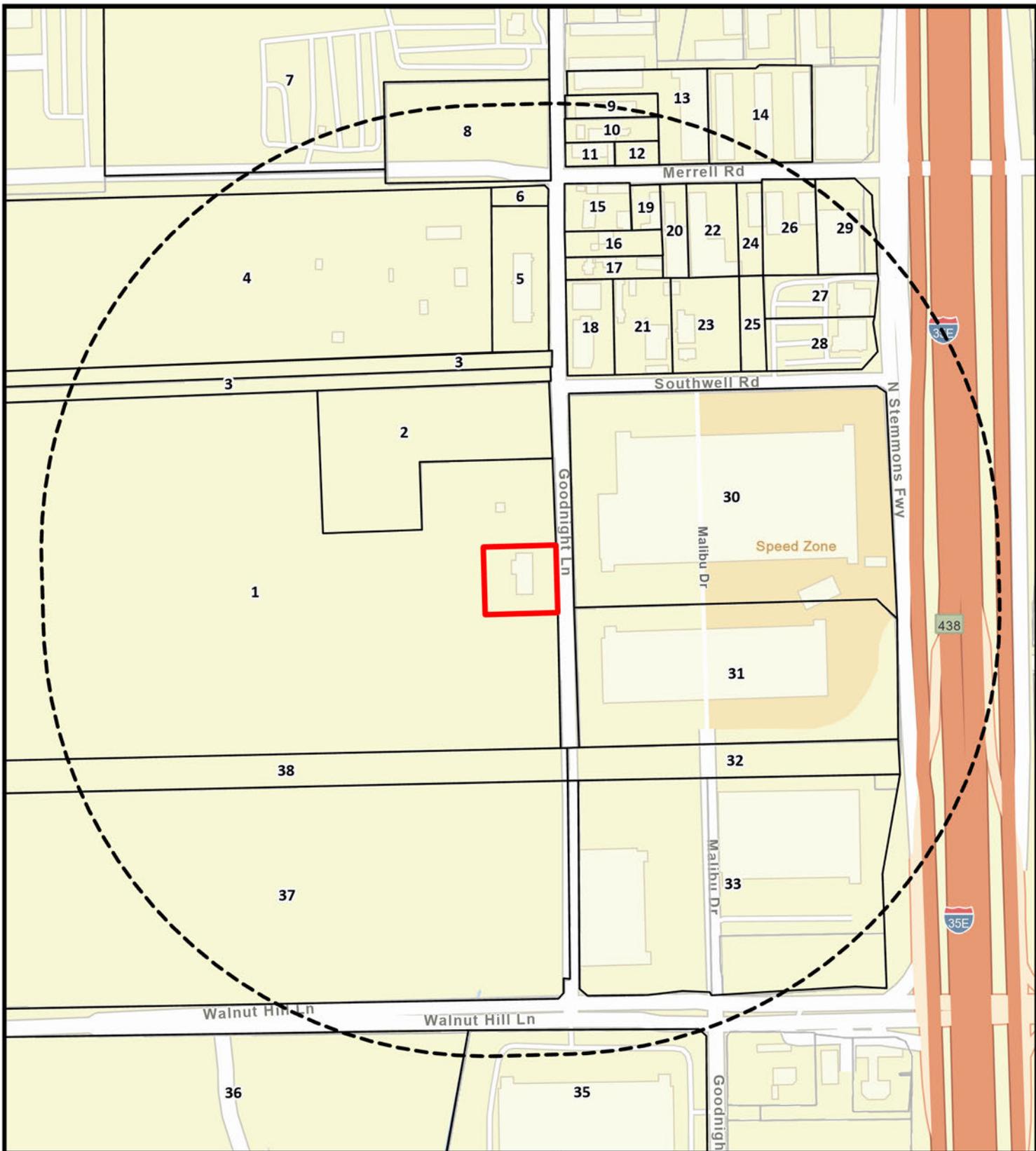
### **Attachments Table 6. Additional attachments as applicable.**

<b>Additional Attachments as Applicable (select all that apply and add others as needed)</b>	<b>Attachment Number</b>
<input type="checkbox"/> Signatory Authority Delegation	
<input type="checkbox"/> Fee Payment Receipt	
<input type="checkbox"/> Confidential Documents	
<input type="checkbox"/> Final Plat Record of Property	
<input type="checkbox"/> Assumed Name Certificate	

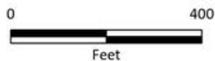
## **Attachments**

**Attachment A**

Land Ownership Map



-  Site Boundary
-  Land Owner Parcels
-  Quarter Mile Buffer



USGS Topo Map, ESRI



**Liquid Environmental Solutions**

Dallas, Texas

11115 Goodnight Lane

**Land Ownership Map**

Dallas County, TX

Drawn: CAL

Checked: JSD

Date: 12/1/2025

Approved: BHR

Dwg. No.: PR002031

**Figure I-2**

**Attachment B**

Landowners List

**Attachment I-2  
List of Property Owners Within Quarter Mile Radius**

<b>Property Number</b>	<b>Property Owner and Mailing Address</b>
1	JACKSON MYERS STEWART LLC 901 MAIN ST DALLAS, TX 75202
2	JACKSON MYERS STEWART LLC 901 MAIN ST DALLAS, TX 75202
3	BROWN SOUTHWELL PROPERTIES PO BOX 59831 DALLAS, TX 75529
4	AUSTIN INTERNATIONAL VENTURES INC PO BOX 1590 DALLAS, TX 75221-1590
5	BROWN LEWISVILLE RR PO BOX 29615 DALLAS, TX 75229
6	AUSTIN INTERNATIONAL VENTURES INC PO BOX 1590 DALLAS, TX 75221-1590
7	TEXS TOWING HOLDINGS LLC 11211 GOODNIGHT LN DALLAS, TX 75229-3320
8	1120 GOODNIGHT LLC 4511 HARRYS LN DALLAS, TX 75229-5405
9	TNT SEAL IT LLC PO BOX 788 DALLAS, TX 76099-0788
10	SONG SUK 2410 VALWOOD PKWY FARMERS BRANCH, TX 75234-3412
11	MOSTOWTI PARVANEH 15805 EL ESADO DR DALLAS, TX 75248-4435
12	DIRT MONKEY LLC 2317 MERREL RD DALLAS, TX 75229-4406
13	TNTNS BUILDING MATERIALS LLC 11210 GOODNIGHT LN DALLAS, TX 75229-3319
14	BCK PROPERTIES JOINT VENTURE 11518 REEDER RD DALLAS, TX 75229-2114

**Attachment I-2**  
**List of Property Owners Within Quarter Mile Radius**

Property Number	Property Owner and Mailing Address
15	RHOADS, CHARLES ANDREW 11160 GOODNIGHT LN DALLAS, TX 75229-4401
16	VASQUEZ, MANUEL TRUSTEE & DORA VASQUEZ TRUSTEE 4316 MANNING LN DALLAS, TX 75220-3831
17	VASQUEZ, MANUEL DANIEL TRUSTEE 4316 MANNING LN DALLAS, TX 75220-3831
18	SCORPIONS WELDING ATTN MANUEL GARCIA 1109 COOMBS CREEK DR DALLAS, TX 75211-5920
19	JAG MAC JAGUAR INC 2320 MERREL RD DALLAS, TX 75229-4205
20	DIRT MONKEY LLC 2330 MERREL RD DALLAS, TX 75229-4405
21	BRIGHTVIEW LANDSCAPE SERVICES INC ATTN CARISSA ZELDIN TAX DEPT 980 JOLLY RD BLUEBELL, PA 19422-1957
22	DIRT MONKEY LLC 2330 MERREL RD DALLAS, TX 75229-4405
23	2345 SOUTHWELL LLC 4 STAR PT STE 204 STAMFORD, CT 06902-8928
24	RICHARD R. RAWLINGS 2330 MERREL RD DALLAS, TX 75229-4405
25	2345 SOUTHWELL LLC 4 STAR PT STE 204 STAMFORD, CT 06902-8928
26	AGM TOOLS NORTH AMERICA ATTN PROPERTY TAX 2350 MERELL RD DALLAS, TX 75229-4405
27	TEXO 11101 N. STEMMONS FWY DALLAS, TX 75229-4530

**Attachment I-2  
List of Property Owners Within Quarter Mile Radius**

<b>Property Number</b>	<b>Property Owner and Mailing Address</b>
28	TEXO ABC AGC INC 11101 N. STEMMONS FWY DALLAS, TX 75229-4530
29	REGAL PLASTIC SUPPLY COINC STE 120 9200 N ROYAL LN IRING, TX 75063-2557
30	CICF III TX1B02 LLC 5005 LYNDON B JOHNSON FWY STE 860 DALLAS, TX 75244-6100
31	ARBOR CONTRACT CARPET INC PO BOX 140095 IRING, TX 75014-0095
32	ONCOR ELECTRIC DELIVERY COMPANY PO BOX 139100 DALLAS, TX 75313-9100
33	WALCON INDUSTRIAL LLC 3819 MAPLE AVE DALLAS, TX 75219-3913
34	KOSH K LLC 826 HILLS CREEK DR MCKINNEY, TX 75070-5230
35	TARGET CORPORATION PO BOX 9456 MINNEAPOLIS, MN 55440-9456
36	CITY OF DALLAS 1500 MARILLA ST DALLAS, TX 75201-6318

**Attachment C**

Marked (Redline/Strikeout Pages)

**Attachment C-1**

Part II

**APPLICATION PART II**

**TYPE V MUNICIPAL SOLID WASTE FACILITY  
TCEQ MSW PERMIT 2069A**

For

**LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS, LLC**

**Dallas Facility  
11115 Goodnight Lane  
Dallas, TX 75229  
CN603229436  
RN103002713**

Prepared By

**C-K Associates, LLC**

~~**616 FM 1960**~~

~~**Suite 575**~~

~~**Houston, TX 77090**~~

**TBPE Reg. #F-9628**

~~November 2017~~ March 2026

<b>1.0</b>	<b>INTRODUCTION</b> .....	<b>1</b>
<b>2.0</b>	<b>SOURCES AND CHARACTERISTICS OF WASTES (330.61 (B), 330.203(A))</b> .....	<b><u>323</u></b>
1.1	GREASE TRAP AND FOOD-RELATED WASTES.....	3
1.2	GRIT TRAP WASTE.....	<u>434</u>
<b>3.0</b>	<b>WASTE STORAGE AND PROCESSING INFORMATION (330.203 (B))</b> .....	<b>4</b>
<b>4.0</b>	<b>SAMPLING OF WASTES RECEIVED AND FACILITY EFFLUENT (330.203(C)).</b> ....	<b>5</b>

#### List of Figures

II-2	Facility Layout Map
II-3	Topographic Map
II-4	Land Use Map
II-5	Aerial Map
II-6	Flood Rate Insurance Map
<u>F1.00</u>	<u>Existing Fire Department Access Plan</u>

#### List of Attachments

II-1	Waste Acceptance and Analysis Plan
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## 1.0 Introduction

Liquid Environmental Solutions of Texas, LLC (LES) is in the business of processing certain non-hazardous liquid wastes. The Dallas LES Facility processes grease trap/food-related and grit trap waste streams. The facility is designed to separate and process the waste streams received into recyclable components, water suitable for discharge into the sanitary sewer system and solid materials for appropriate disposal. The acceptance and processing of these waste requires a Type V Municipal Solid Waste (MSW) Permit and the LES Dallas facility holds MSW Permit 2069A. The purpose of this permit modification request is to: allow an alternative buffer zone at the LES – Dallas Facility; update the permit to make modifications previously authorized under a Temporary Authorization; make minor equipment changes.

### Buffer Zone

~~-Per 30 TAC 330.543(b)(1), a minimum separating distance of 50 feet between solid waste storage/process units within and adjacent to the facility boundary on property owned or controlled by the owner/operator is required. The buffer zone shall not be narrower than necessary to provide for safe passage for fire fighting equipment and other emergency vehicles. LES has historically met this 50-foot buffer requirement along the south and west boundaries of the site by leasing land adjacent to its property boundary. The lease expires on June 30, 2026. LES believes that the lessor of the land may not renew the lease. bring the permit up to date with changes made previously under Temporary Authorization Approvals as noted below and propose changes to the current permit for improvements necessary to improve operations.~~

~~Add equipment authorized under Temporary Authorization dated November 7, 2008 to the Facility MSW Permit. This equipment is for processing of Brown Grease.~~

~~Centrifuge and decanter.~~

~~Heating Tank.~~

~~Ancillary Process Piping.~~

~~Addition of a 20 Cubic Yard Roll off Container authorized under Temporary Authorization dated April 12, 2013.~~

~~Replacement of an existing 10,000 gallon storage tank (Tank 42) with an 18,000 gallon tank authorized under Temporary Authorization dated July 2, 2014.~~

~~Addition of 2 entrapped air flotation tanks to the facility process flow in order to better remove entrained oil and grease from the wastewater.~~

Therefore, one objective of this modification is to authorize an alternative to the buffer zone requirement in 30 TAC 330.543(b)(1). To support the amendment, LES met with the Dallas Fire Department (DFD) on August 20, 2025, to review the facility layout and allow DFD personnel to assess whether more than sufficient access for fire fighting or other emergency response would

be available without the required 50-foot buffer. The layout reviewed by the DFD differs from the layout currently reflected in the permit; however, the version provided to the DFD was prepared for the specific purpose of evaluating emergency access and does not alter any operational or functional aspects relevant to the modification request. Following their review, the DFD determined that more than sufficient access is available without the buffer as long as pathways are maintained, regardless of the tank or equipment configuration, as documented in the Existing Fire Department Access Plan stamped by the DFD on September 10, 2025. A copy of this plan is provided as F1.00.

Temporary Authorization Changes

This modification brings the permit up to date with changes made previously under a Temporary Authorization that was initially approved by the TCEQ on March 26, 2018 (see Tracking No. 22566826). These changes included the addition of a filter press and a lime storage tank which better equipped the facility to meet the limits of the City of Dallas Pre-Treatment Permit.

Equipment Changes

This modification updates the equipment list and addresses upgrades to the secondary containment system.

This permit application submittal retains the previous permit documents and only those additions that are changed within this ~~November 2017~~ February 2026 revision are being submitted as Permit Revision ~~1617~~.

**Table W-1 the Revision History for MSW Permit No. 2069.**

Date	Site Development Plan (SDP)	Site Operating Plan (SOP)	Waste Acceptance and Analysis Plan (WAAP)	Permit Edition
6/1/1987	Original		-	Original
3/30/1988	Revision 1		-	Revision 1
3/19/1989	Revision 2		-	Revision 2
5/1991	-	Original (Old)	-	Revision 3
9/1991	-	Revision 1	-	Revision 4
5/18/1999	Revision 3	-	Original	Revision 5
8/24/2003	Revision 4	Revision 3	Revision 1	Revision 6
2/2/2004	Revision 5	Revision 4	Revision 2	Revision 7
6/25/2004	Revision 6	Revision 5	-	Revision 8
2/1/2005	Revision 7	Revision 6	-	Revision 9
4/5/2005	Revision 8	Revision 7	-	Revision 10
8/5/2005	Revision 9	Revision 8	-	Revision 11
11/27/2006	-	Original (New)	-	Revision 12

6/8/2007	-	Revision 1	-	Revision 13
5/30/2008	Revision 10	Revision 2	Revision 3	Revision 14
11/2012	Revision 11	Revision 3	Revision 4	Revision 15
11/2017	Revision 12	Revision 4	Revision 5	Revision 16
<u>02/2026</u>	<u>Revision 13</u>	<u>Revision 5</u>	<u>Revision 6</u>	<u>Revision 17</u>

This permit application submittal (Revision 16) ~~represents~~represented a major reorganization of the previous permit documents and only those additions that are changed within this ~~November 2017~~February 2026 revision are being submitted as Permit Revision ~~16~~17. The documents have been reorganized to align with the corresponding regulatory requirements. Where applicable, regulatory citations are noted.

## 2.0 Sources and Characteristics of Wastes (330.61 (b), 330.203(a))

The Waste Acceptance and Analysis Plan (WAAP) previously submitted 11/2012 as Revision 4, addresses regulatory requirements presented in Title 30, Texas Administrative Code (TAC), Chapter 330, Sections 61 and 203 and remains unchanged in this submittal. Included as part of this plan are LES policies governing Waste Acceptance and Analysis Procedures (Attachment II-1). No changes to Waste Acceptance Procedures or Analytical Procedures are being made in this permit modification. The Plan and the corresponding attachment provide a comprehensive discussion of the facility management and testing procedures for the wastes that will be processed at the facility. The facility will only accept wastes which are compatible with the production of liquid effluent that can safely be disposed into the City of Dallas sanitary sewer and solids that can be hauled offsite for beneficial reuse or disposal in a municipal solid waste landfill. Discharges to the sanitary sewer shall be in compliance with the facility’s pre-treatment permit and applicable federal, state, and local regulations.

The LES Dallas Facility accepts three categories of non-hazardous wastes, grease trap wastes, Class 2 Industrial Solids (food-related) wastes and grit trap (and related) wastes. All other types of wastes are prohibited for processing or disposal at the facility. Detailed waste acceptance procedures are described in Attachment I. Management controls described in Attachment I have been developed to prevent acceptance of unauthorized wastes for processing.

### 2.1 Grease Trap and Food-Related Wastes

LES will accept and process non-hazardous grease trap and Class 2 Industrial food-related wastes from restaurants, food preparation facilities, other food-related industries and other sources serviced by its own and independent third-party vacuum trucks. Since the municipal and commercial businesses that transport grease waste to LES do not normally generate waste streams that contain any hazardous constituents it is very unlikely that any hazardous waste will be contained in these wastes. All waste will be documented using an appropriate trip ticket/manifest.

Grease trap waste is composed of food, grease, trash, food particles and/or water. Pollutant concentrations are extremely variable, depending upon, among other factors, the generator, the size of the trap and the frequency with which the trap is pumped. In most cases, the wastes food particles, and wastewater containing large amounts of dissolved and suspended food matter. The wastes are typically characterized by high levels of BOD and TSS and are acidic, with pH levels generally in the 4.0 to 5.0 range. Class 2 Industrial food-related waste is typically composed of food solids, fats, oils and grease.

## **2.2 Grit Trap Waste.**

LES will accept and process non-hazardous grit tap/lint trap wastes from car washes, garages, laundries, services stations, repair and maintenance shops, transport firms, car dealerships, and similar generators serviced by its own and independent third-party vacuum trucks. A grit trap is an interceptor in a sewer line designed to trap sand, grit, muck and heavy soils from car washes and other facilities that wash dirt and grime from equipment. All waste will be documented using an appropriate trip ticket/manifest as previously described above for grease trap/food related wastes. If large quantities of floating petroleum or synthetic petroleum oils are encountered, the oil will be separated and disposed or recycled through a waste oil or used oil recycler or processor. Chemical analysis will be performed to ensure that all new customer waste streams will be acceptable for processing, as described in Attachment I.

Grit trap waste pollutant concentrations are extremely variable. In most cases, the wastes contain floating matter made up primarily of petroleum and synthetic petroleum grease and oil, settled dirt and sand with wash down products such as matches, cigarettes, spark plugs, grass and sticks and wastewater containing suspended dirt, detergents and oil. The wastes are typically characterized by high levels of BOD and TSS and tend to be neutral to caustic.

## **3.0 Waste Storage and Processing Information (330.203 (B))**

LES processes grease trap waste by removing the oil and grease and pre-treating the remaining liquids before discharge to the sanitary sewer system. The complete process is described in detail in the Site Development Plan (SDP). This submittal will not increase capacity or throughput as previously described in the SDP submittal of 11/2012 and no changes are being made to that submittal for this permit revision.

The grit trap waste treatment process is described in the Site Development Plan. LES processes a maximum of 600,000 gallons per month of grit trap waste. Waste acceptance procedures are described in Attachment 1. Receipt, storage, and processing data for each of these waste types are provided in the following Table W-2. Daily waste receipts assume an average over 30 days per month operation. Received grease trap/food-related wastes and grit trap wastes remain on-

site on average for two hours prior to processing, but at a maximum are processed within 72 hours of receipt. Generally, wastes are processed immediately after receipt. The maximum amount of combined storage for pre-processed waste at any point in time is 302,408 gallons. This capacity includes the solidification pits, which have a combined capacity of 20,000 gallons and can be used to store grit trap wastes.

**Table W-2 Receipt, Storage, and Processing Data for Wastes at LES**

Waste Type		Grease Trap/Food Related	Grit Trap
<b>Received Daily (gallons, 30 day average)</b>		160,000	20,000
<b>Max Storage (gallons)</b>		251,150	72,500
<b>Waste On Site (Days)</b>	<b>Max.</b>	3	3
	<b>Avg.</b>	0.3	0.3
<b>Waste Processing Time (Days)</b>	<b>Max.</b>	3	3
	<b>Avg.</b>	0.3	0.3

Treatment of waste onsite yields treated effluent, heavy solids, sludge and recovered oil and grease. These facility generated wastes are disposed of as described in Section 7 of the Site Operating Plan (SOP).

#### **4.0 Sampling of Wastes Received and Facility Effluent (330.203(c)).**

Analytical testing of wastes received depends upon waste type and is fully described in the Waste Acceptance and Analysis Procedures, included as Attachment I. Sampling of facility effluent is described in Section 7 of the SOP.

Minimal analytical requirements are specified at 30 TAC 330.203 (c) pertaining to wastes received, sludges disposed at landfills, and facility effluent. Recordkeeping and methods requirements are also stated. These requirements, listed below, are also incorporated into the referenced sections of the facility permit documents:

1. Wastes received will be analyzed annually for benzene, lead, and total petroleum hydrocarbons (TPH) – refer to Attachment I, Section C-2.
2. Grit trap wastes will be analyzed annually for biochemical oxygen demand, total suspended solids, benzene, TPH, and lead – refer to Attachment I, Section C-2.
3. Sludges that may be disposed of at a municipal solid waste landfill will be analyzed annually for benzene, lead, and TPH – refer to Attachment 1, Section 7

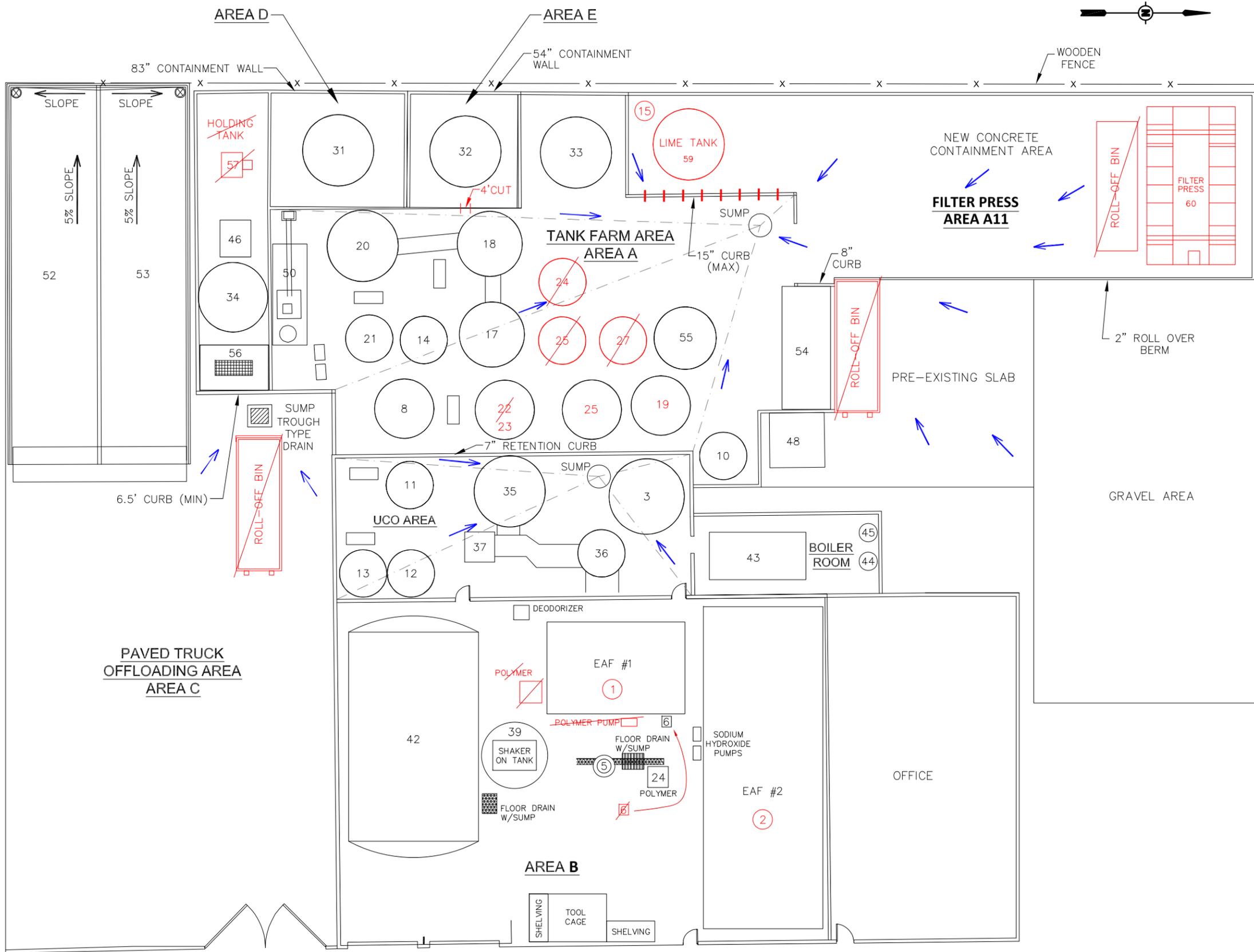
4. At a minimum, effluent from the facility will be analyzed annually for TPH, fats, oil and grease, and pH refer to SOP, Section 7.
5. Records of each analysis will be maintained at the facility for a minimum of three years – refer to SOP, Section 14.
6. All sampling and analysis will be done according to EPA approved methods – refer to Attachment II-1, Section E.

## **5.0 Buffer Zone (330.543(b)(1))**

Per 30 TAC 330.543(b)(1), a minimum separating distance of 50 feet between solid waste storage/process units within and adjacent to the facility boundary on property owned or controlled by the owner/operator is required. The buffer zone shall not be narrower than necessary to provide for safe passage for fire fighting equipment and other emergency vehicles. LES has historically met this 50-foot buffer requirement along the south and west boundaries of the site by leasing land adjacent to its property boundary. The lease expires on June 30, 2026.

To ensure that there remains safe passage for fire fighting equipment and other emergency vehicles after the lease expires, LES met with the Dallas Fire Department (DFD) on August 20, 2025, to review the facility layout and allow DFD personnel to assess whether more than sufficient access for fire fighting or other emergency response would be available without the required 50-foot buffer. Following their review, the DFD determined that more than sufficient access is available without the buffer as long as pathways are maintained, regardless of the tank or equipment configuration, as documented in the Existing Fire Department Access Plan stamped by the DFD on September 10, 2025. A copy of this plan is provided as **Figure F1.00**.

## **FIGURES**



Tank and Equipment Schedule						
Item #	Containment Area	Equipment Placement	Size	Units	Equipment Type	Function
EAF #1	B	On Ground	11,500	gallons	Entrapped Air Flotation Tank	Grease Trap Treatment
EAF #2	B	On Ground	6,000	gallons	Entrapped Air Flotation Tank	Grease Trap Treatment
3	A	On Ground	15,000	gallons	Processing Tank	Grease Trap Treatment
5	B	On Ground	2,500	gallons	Sodium Hydroxide Tank	Chemical Storage
6	B	On Ground	550	gallons	Poly Tank	Transfer Tank
8	A	On Ground	10,000	gallons	Storage Tank	Wastewater Sludge Holding
10	A	On Ground	10,000	gallons	Storage Tank	Wastewater Sludge Holding
11	A	On Ground	10,000	gallons	Storage Tank	Yellow Grease Finished Product Storage
12	A	Elevated	6,000	gallons	Processing Tank	Yellow Grease Processing
13	A	Elevated	6,000	gallons	Storage Tank	Yellow Grease Offload
14	A	On Ground	10,000	gallons	Storage Tank	Brown Grease Storage
15	A	On Ground	360	gallons	Polymer Tote	Chemical Storage
17	A	Elevated	24,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
18	A	Elevated	18,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
19	A	Elevated	8,000	gallons	Storage Tank	Wastewater or Sludge Holding
20	A	Elevated	18,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
21	A	On Ground	10,000	gallons	Storage Tank	Brown Grease storage
22	A	On Ground	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
23	A	On Ground	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
24	B	On Ground	275	gallons	Polymer Tote	Treatment
24	A	On Ground	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
25	A	On Ground	12,500	gallons	Storage Tank	Wastewater or Sludge Holding
27	A	Elevated	16,500	gallons	Storage Tank	Wastewater or Sludge Holding
31	D	On Ground	20,300	gallons	Grit Processing AGT	Grit Trap Treatment
32	E	Elevated	18,000	gallons	Grit Processing AGT	Grit Trap Treatment
33	A	On Ground	12,000	gallons	Storage Tank	Wastewater or Sludge Holding
34	A	On Ground	24,000	gallons	Grit Processing AGT	Offloading/Grit Trap Treatment
35	A	On Ground	8,000	gallons	Odor Control Scrubber	Air Scrubber Vent Tank (Air Only)
36	A	On Ground	2,000	gallons	Odor Control Scrubber	Scrubber Intake Tank
37	A	On Ground	30	HP	Odor Control Scrubber	Scrubber Fan
39	B	Elevated	5	HP	Vibratory Screen	Grease Trap Treatment
42	B	Elevated	10,000	gallons	Storage Tank	Bar screen Offload Tank
43		On Ground	350	HP	Steam Boiler	In Tank Material Heating
44		On Ground	500	gallons	Boiler Feed Water Tank	Boiler Feed Water System
45		On Ground	14	gpm	Water Softener System	Boiler Feed Water System
46	A	On Ground	700	gallons	Dissolved Air Flotation	Grit Trap Treatment
48		Elevated	50	HP	Air Compressor	Facility Main Air Supply
50	A	Elevated	3,000	gallons	Vacuum Tank	Various
52	C	In Ground	10,000	gallons	Settling Pit	Solidification
53	C	In Ground	10,000	gallons	Settling Pit	Solidification
54	A	Elevated	175	gpm	Centrifuge	Brown Grease Recovery
55	A	Elevated	10,000	gallons	Centrifuge Feed Tank	Centrifuge Feed System
56	A	Elevated	400	gpm	Mechanical Processing	Mechanical Debris Screen
57	A	On Ground	3,500	gallons	Holding Tank	Offload-Tank Processing
59	A	On Ground	6,150	gallons	Storage Tank	Lime Tank
60	A	Elevated	750	gallons	Filter Press	Filter Press

**LEGEND**

- Stormwater Flow Direction
- Permit Modification
- 1" Drain Hole

**Notes:**

1. EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE NOT SHOWN TO SCALE.
2. EQUIPMENT SCHEDULE AND CONTAINMENT HEIGHTS ARE BASED ON INFORMATION PROVIDED TO CK ASSOCIATES BY LIQUID ENVIRONMENTAL SOLUTIONS, LLC.
3. CONTAINMENT HEIGHTS SHOWN ARE EXISTING. REFER TO SECONDARY CONTAINMENT CALCULATION SUMMARY TABLE FOR ADDITIONAL CONTAINMENT INFORMATION AND ATTACHMENT D.
4. APPROXIMATE LOCATIONS OF ELEVATED INCIDENTAL EQUIPMENT, SUCH AS PUMPS, ARE SHOWN FOR REFERENCE ONLY AND MAY NOT BE IDENTIFIED ON THE TANK AND EQUIPMENT SCHEDULE.

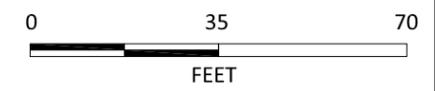
**Liquid Environmental Solutions**  
Dallas, Texas

Municipal Solid Waste (MSW) Permit 2069A

**General Facility Layout Map**

Dallas County

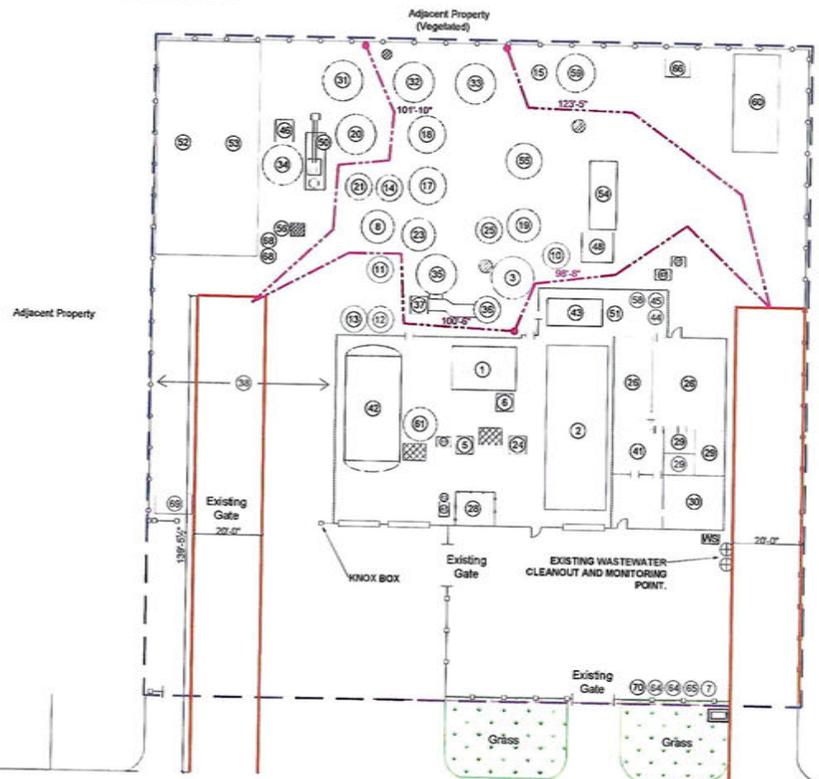
Drawn: APS	Checked: BHR
Date: 2/5/2026	Approved: DWH
Dwg. No.: 00002100-01	<b>Figure II-2</b>



REVIEWED  
 DALLAS FIRE DEPT.  
 SUBJECT TO CORRECTIONS NOTED  
 DATE 9-10-25 BY M. JAMESON  
 REVIEW OF PLANS OR  
 SPECIFICATIONS SHALL NOT BE  
 CONSTRUED TO SANCTION ANY  
 VIOLATIONS OF CODE



EXISTING FIRE HYDRANT LOCATIONS



Goodnight Lane

EXISTING FIRE DEPARTMENT ACCESS PLAN

SCALE: 1/16" = 1'-0"

KEY

- ① EAF #1 (11,500-Gallon)
- ② DAF #2 (6,000-Gallon)
- ③ 15,000-Gallon Grease Trap Processing Tank
- ④ N/A
- ⑤ 2,500-Gallon Sodium Hydroxide Tank
- ⑥ 550-Gallon Transfer Tank
- ⑦ Flammable Cabinet
- ⑧ 10,000-Gallon Tank (Not Used)
- ⑨ N/A
- ⑩ 10,000-Gallon Sludge Holding Tank
- ⑪ 10,000-Gallon Yellow Grease Finished Product Tank
- ⑫ 6,000-Gallon Yellow Grease Processing Tank
- ⑬ 6,000-Gallon Yellow Grease Offload Tank
- ⑭ 10,000-Gallon Sludge Holding Tank
- ⑮ 350-Gallon Polymer Tote
- ⑯ N/A
- ⑰ 24,000-Gallon Offloading/Wastewater/Grease Trap
- ⑱ 24,000-Gallon Offloading/Wastewater/Sludge Storage Tank
- ⑲ 8,000-Gallon Wastewater or Sludge Storage Tank
- ⑳ 20,000-Gallon Sludge Holding Tank
- ㉑ 10,000-Gallon Tank (Not In Use)
- ㉒ N/A
- ㉓ 10,000-Gallon Tank Finish UCO
- ㉔ 275-Gallon Polymer Tote
- ㉕ 10,000-Gallon Wastewater or Sludge Storage Tank
- ㉖ Break Room (Changing Room)
- ㉗ Salt Storage Pile
- ㉘ Tool Cage
- ㉙ Restroom
- ㉚ MAR Office
- ㉛ 24,000-Gallon Frish BG
- ㉜ 18,000-Gallon Grit Trap Processing AST
- ㉝ 12,000-Gallon Centrate Processing
- ㉞ 24,000-Gallon Offloading/Grit Trap AST
- ㉟ 8,000-Gallon Air Scrubber Vent Tank (Air Only)
- ⓪ 2,000-Gallon Scrubber Intake Tank
- ⓫ Odor Control Scrubber (30 hp)
- ⓬ Paved Truck Loading/Unloading
- ⓭ Vibratory Screen (5 hp)
- ⓮ N/A
- ⓯ Lab
- ⓰ 18,000-Gallon Tank (Not In Use)
- ⓱ Steam Boiler (350 Hp)
- ⓲ 500-Gallon Boiler Feed Water Tank
- ⓳ Water Softener System (14 gpm)
- ⓴ 700-Gallon Dissolved Air Flotation
- ⓵ N/A
- ⓶ Air Compressor (50 Hp)
- ⓷ Spill Pallet
- ⓸ Vacuum Pump
- ⓹ Boiler Room
- ⓺ Solidification Bunker
- ⓻ Solidification Pits
- ⓼ Centrifuge (175 gpm)
- ⓽ 10,000-Gallon Centrifuge Feed Tank
- ⓾ Mechanical Debris Screen (400 gpm)
- ⓿ N/A
- ⓿ Water Softener System
- ⓿ 6,000-Gallon Lime Tank
- ⓿ Filter Press
- ⓿ Shaker
- ⓿ N/A
- ⓿ Soda Ash Pile
- ⓿ Propane Cage
- ⓿ Diesel Cage
- ⓿ Grit Processing System
- ⓿ Tote Storage
- ⓿ Rock Box
- ⓿ Saw Dust Bunker
- ⓿ Propane Storage
- ⓿ Electrical Shutoff
- ⓿ Water Shutoff
- ⓿ Wastewater Cleanouts/Monitoring Point #1
- ⓿ Sump
- ⓿ Drain with Sump
- ⓿ Floor Drain
- ⓿ City Wastewater Monitoring Point
- ⓿ Chain-link Fence
- ⓿ Wood Fence

FIRE DEPARTMENT ACCESS LEGEND

- Property Line
- Existing Fire Department Access Lane
- Existing Fire Department Travel Distance per DFC Section 503.1.1



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 Little Rock | Los Angeles | Miami | Minneapolis | New York | Orlando  
 Philadelphia | Phoenix | Pittsburgh | Portland | Raleigh | San Antonio  
 San Diego | San Francisco | Seattle | South Bend, IN | Washington, DC

Consultants

Project

Liquid Environmental Solutions  
 Fire Department Access  
 Plan

Client

Liquid Environmental Solutions  
 11115 Goodnight Ln  
 Dallas, TX 75229

Mark	Date	Description

Project No: 2024.4263.0  
 Date: August 20, 2025  
 Drawn: PR  
 Checked:  
 Scale: As Noted



EXISTING FIRE DEPARTMENT ACCESS

Sheet No: **F1.00**

**Attachment C-2**

Part II Attachment II-1

Waste Analysis and Acceptance Plan

**TYPE V MUNICIPAL SOLID WASTE FACILITY TCEQ MSW PERMIT  
2069A**

**WASTE ACCEPTANCE and ANALYSIS PLAN**

For

**LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS, LLC  
Dallas Facility  
11115 Goodnight Lane  
Dallas Texas 75229  
CN601540404  
RN103002713**

Prepared By

**C-K Associates, LLC  
~~616 FM 1960~~  
~~Suite 575~~  
~~Houston, TX 77090~~  
TBPE Reg. #F-9628**

~~November 2017~~February 2026

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## A. INTRODUCTION

Liquid Environmental Solutions of Texas, LLC (LES) is in the business of processing certain non-hazardous liquid wastes. The Dallas LES Facility processes grease trap/food-related and grit trap waste streams. The facility is designed to separate and process the waste streams received into recyclable components, water suitable for discharge into the sanitary sewer system and solid materials for appropriate disposal. The acceptance and processing of these waste requires a Type V Municipal Solid Waste (MSW) Permit and the LES Dallas facility holds MSW Permit 2069A. The purpose of this permit modification request is to bring the permit up to date with changes made previously under Temporary Authorization Approvals as noted below and propose changes to the current permit for improvements necessary to improve operations.

- ~~● Add equipment authorized under Temporary Authorization dated November 7, 2008 to the Facility MSW Permit. This equipment is for processing of Brown Grease.~~
  - ~~○ Centrifuge and decanter.~~
  - ~~○ Heating Tank.~~
  - ~~○ Ancillary Process Piping.~~
- ~~● Addition of a 20 Cubic Yard Roll off Container authorized under Temporary Authorization dated April 12, 2013.~~
- ~~● Replacement of an existing 10,000 gallon storage tank (Tank 42) with an 18,000 gallon tank authorized under Temporary Authorization dated July 2, 2014.~~
- ~~● Addition of 2 entrapped air flotation tanks to the facility process flow in order to better remove entrained oil and grease from the wastewater.~~

This permit application submittal retains the previous permit documents and only those additions that are changed within this ~~November 2017~~February 2026 revision are being submitted as Permit Revision ~~1617~~.

## B. SOURCES AND CHARACTERISTICS OF WASTES (330.61 (b), 330.203 (a))

The LES Dallas Facility accepts three categories of non-hazardous wastes: grease trap wastes, Class 2 Industrial solids (food-related) wastes, and grit trap (and related) wastes. All other types of wastes are prohibited for processing or disposal at the facility. Detailed waste acceptance procedures and management controls have been developed to prevent acceptance of unauthorized wastes for processing.

### 1. Grease Trap and Food-Related Wastes:

LES will accept and process non-hazardous grease trap and Class 2 Industrial food-related wastes from: restaurants, food preparation facilities, other food-related industries and other

sources, serviced by its own and independent third-party vacuum trucks. Since the municipal and commercial businesses that transport grease trap waste to LES do not normally generate waste streams that contain any hazardous constituents, it is highly unlikely that any regulated hazardous waste will be contained in these wastes. All waste will be documented using an appropriate trip ticket/manifest.

Grease trap waste is composed of food grease, trash, food particles and/or water. Pollutant concentrations are extremely variable, depending upon, among other factors, the generator, the size of the trap and the frequency with which the trap is pumped. In most cases, the wastes contain floating matter are made up primarily of animal and vegetable grease and oil, settled food particles, and wastewater containing large amounts of dissolved and suspended food matter. The wastes are typically characterized by high levels of BOD and TSS and are acidic, with pH levels generally in the 4.0 to 5.0 range. Class 2 Industrial food-related waste is typically composed of food solids, fats, oils and grease.

## **2. Grit Trap Wastes:**

LES will accept and process non-hazardous grit trap/lint trap waste from car washes, garages, laundries, service stations, repair and maintenance shops, transport firms, car dealerships, and similar generators serviced by its own and independent third-party vacuum trucks. A grit trap is an interceptor in a sewer line designed to trap sand, grit, mud and heavy soils from car washes and other facilities that wash dirt and grime from equipment. All waste will be documented using the trip ticket system as described above for grease traps/food related wastes. If large quantities of floating petroleum or synthetic petroleum oils are encountered, the oil will be separated and disposed or recycled through a waste oil or used oil recycler or processor. Chemical Analysis will be performed to ensure that all new customer waste streams will be acceptable for processing.

Grit trap waste pollutant concentrations are extremely variable. In most cases, the wastes contain floating matter made up primarily of petroleum and synthetic petroleum grease and oil; settled dirt and sand with wash down products such as matches, cigarettes, spark plugs, grass and sticks;

Treatment of wastes on site yields treated effluent, heavy solids, sludge, and recovered oil and grease. These facility-generated wastes are disposed of as described in Section 7 of the SOP.

## **3. Rejected Wastes**

Rejected wastes will not be accepted, and therefore not offloaded at the facility (TAC 330.203, TAC 330.225).

### **C. SAMPLING OF WASTES RECEIVED AND FACILITY EFFLUENT (330.203 (c))**

Analytical testing of wastes received depends upon waste type. Minimal analytical requirements are specified at 30 TAC 330.203 (c) pertaining to wastes received, sludges disposed at landfills, and facility effluent. Recordkeeping and methods requirements are also stated. These requirements, listed below, are also incorporated into the referenced sections of the facility permit documents:

1. Wastes received will be analyzed annually for benzene, lead, and total petroleum hydrocarbons (TPH).
2. Grit trap wastes will be analyzed annually for biochemical oxygen demand, total suspended solids, benzene, TPH, and lead.
3. Sludges that may be disposed of at a municipal solid waste landfill will be analyzed annually for benzene, lead, and TPH.
4. At a minimum, effluent from the facility will be analyzed annually for TPH, fats, oil and grease, and pH.
5. Records of each analysis will be maintained at the facility for a minimum of three years.
6. All sampling and analysis will be done according to EPA approved methods.
7. If trip ticket/manifest information does not significantly vary from the information on the waste profile, a waste sample will be taken from the truck and analyzed.
8. If a waste exhibits a pH of less than 2.0 or greater than 12.5 units (<2.0 or >12.5), it will not be accepted. If a load is rejected for any other reason, the generator will be contacted and, with generator approval, paperwork for further analysis will be prepared. If the load is subsequently accepted, the customer will be notified of any additional processing charges before it is unloaded. If a load is rejected, the driver will be instructed to leave the facility and transport the waste to a location determined by the generator.
9. If a load is accepted, the driver will be forwarded to an off-load operator who will direct the driver to the appropriate receiving location.

10. Results on in-bound shipment analysis will be recorded on the Daily Receiving Report, which is kept in the Facility office for a minimum of three years.

**D. Waste Analysis Procedures**

Grit trap wastes will be subjected to various waste analysis procedure consisting of waste profile pre-approval analysis (i.e., analysis conducted before the waste is delivered to the Facility) and screening analysis at the Facility.

Waste Profile Pre-Approval Analysis and Generally Acceptable Limits

Table 1 identifies the waste profile pre-approval analysis and the generally acceptable limits:

<b>Table 1: Waste Profile Pre-Approval Analysis – Generally Acceptable Limits</b>	
Analysis	Limit
Administrative	Waste Profile is complete, recent (<1 year old), independent Laboratory Analysis is complete.
pH	Between (and not including) 2.0 and 12.5 pH units
COD	<15,000 mg/L
Flame Test	Positive or Negative, if positive note color
Flash Point	Greater than or equal to 140°F ( <u>&gt; 140°F</u> )
Total Halogen	Less than 1,000 ppm
Toxicity	Below (TCLP Regulatory Limits indicated in 30 TAC 335.521 (a)(1) and 40 CFR 261.24(b) Table 1.
Physical Appearance	Consistent with waste type

Under no circumstance will a waste that fails the stated criteria in Table 1 for pH, flashpoint and/or toxicity be accepted for processing by the Facility.

For the waste that are outside the acceptable ranges, the generator will determine if the waste is to be returned to their facility or transported to an alternative processing facility.

In accordance with 30 TAC 330.203 (c), wastes received by the facility must be analyzed at least annually for benzene, lead, and total petroleum hydrocarbons (TPH). Grit trap wastes must also be analyzed at least annually for biochemical oxygen demand (BOD) and total suspended solids (TSS).

**E. Sample Collection Procedures**

LES will collect samples of the waste presented for processing for testing prior to acceptance.

## **F. Waste Analytical Methods**

All waste analyses must be conducted in accordance with EPA-approved methods in order to be accepted by the facility. Such analyses include all testing of wastes reported on the waste profile as well as waste acceptance analyses.

## **G. LES Quality Assurance and Quality Control (QA/QC) Program Overview**

### **1. Purpose**

The purpose of the QA/QC program is to ensure that all data is scientifically valid and of known precision and accuracy.

### **2. Analytical Performance Evaluation**

On an annual basis, samples will be collected from two truckloads of grit trap waste. These samples will be analyzed by both an independent laboratory and by facility staff for any constituents other than pH measured by facility staff. Results of the split sampling will be compared. If substantial deviations in analytical results are observed, additional sampling will be conducted and/or corrective measures will be implemented as appropriate. To ensure quality pH measurements, all pH instruments will be calibrated in accordance with manufacturer's instructions at least daily prior to use.

### **3. Reagent/Standard Preparation**

All reagents and standards will be obtained commercially prepared. Only reagents and standards that are with expiration dates will be used by the laboratory. Reagents and standards that have expired will be removed from the laboratory and properly disposed.

### **4. Decontamination**

All equipment that is reused will be decontaminated. Decontamination consists of washing equipment with soap and rinsing with distilled water. When possible, single use, disposable equipment will be used. Clean equipment will be protected from potential contamination.

### **5. Audits and Corrective Action**

Audits of analytical procedures performed by facility personnel will be conducted at least annually. At least semiannually, sample collection practices will be evaluated for each applicable employee to ensure they are collecting and handling samples in accordance with standard laboratory practices. All review and audit findings and corrective actions will be documented and maintained in the office at the Facility.

#### **H. Record Retention**

LES will retain all waste analysis results and records as part of the operating record. Operating Records will be retained at the Facility for not less than three (3) years.

#### **I. Emergency Preparedness and Spill Contingency Summary.**

A separate Employee/Fire Action Plan has been prepared for the facility which complies with the requirements listed in 30 TAC §330.221(c), as it establishes the source of fire protection to include the local fire department and use of fire extinguishers. All employees are trained on the fire protection plan which complies with local fire codes. Training records for this plan are kept with employee files at the Corporate office for the life of the site, along with other employee training records for topics such as spill prevention and site safety.

**Attachment C-3**

Attachment SDP-2 Final Closure Plan

**Type V Municipal Solid Waste Facility  
TCEQ MSW Permit 2069A**

**Attachment SDP-2  
Final Closure Plan**

For

**LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS, LLC  
Dallas Facility  
11115 Goodnight Lane  
Dallas, TX 72229  
CN603229436  
RN103002713**

Prepared by:

**C-K Associates, LLC  
~~616 FM 1960 West, Suite 575~~  
~~Houston, TX 77090~~  
TBPE Reg.# F-9628**

~~November 2017~~March 2026

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### Appendices

- A. Closure Cost Estimate for the LES Dallas Facility**

## 1. Implementation of the Final Closure Plan

In accordance with 30 TAC 330.461(a), Liquid Environmental Solutions of Texas, LLC (LES) shall submit, no later than 90 days prior to the initiation of closure activities, written notification to the Executive Director of the Texas Commission on Environmental Quality (TCEQ) of the intent to close the Facility and place this notice of intent in the operating record. LES shall also, no later than 90 days prior to the initiation of a final facility closure. This notice shall provide the name, address, and physical location of the facility, the permit number and the last date of intended receipt of waste. LES shall also make available an adequate number of copies of the approved final closure plan for public access and review.

In accordance with 30 TAC 330.461(b), upon notification to the Executive Director, LES shall post a minimum of one sign at the main entrance and all other frequently used points of access for the facility for the facility notifying all persons who may utilize the facility or site of the date of closing for the Facility and the prohibition against further receipt of waste materials after the stated date. Further, suitable barriers shall be installed at all gates to adequately prevent the unauthorized dumping of solid waste at the facility.

In accordance with 30 TAC 330.461(c), within ten days after completion of all final closure activities for the Facility, LES shall submit to the Executive Director for review and approval a certification, signed by an independent registered professional engineer, verifying that final closure has been completed in accordance with the approved final closure plan. The submission to the Executive Director shall include all applicable documentation necessary for certification of final closure.

In accordance with 30 TAC 330.459 (d), LES shall complete final closure activities for the Facility in accordance with the approved plan within 180 days following the most recent acceptance of wastes unless otherwise approved in writing by the Executive Director. If required, a request, to the Executive Director for an extension for the completion of final closure activities should include all applicable documentation necessary to demonstrate that final closure will, of necessity, take longer than 180 days and all steps have been taken and will continue to be taken to prevent threats to human health and the environment from the site.

## 2. Procedure for Closure of Facility by Operator

The Closure of the Facility would be conducted by the Operator in the following sequence:

- a. Process as much of the grease trap and grit trap waste through the existing corresponding wastewater processing system as practical.
- b. Remove sludge from tank bottoms and place in appropriate transport containers. Dispose of sludge at an authorized disposal or re-use facility.
- c. Empty grease and grit trap oil tanks. Transport the material to a TCEQ approved disposal or recycling facility.

- d. Using a high pressure, low volume power wash unit, decontaminate empty tanks, hard plumbed piping, other wetted equipment (excluding the wastewater treatment process units), and process areas exhibiting exposure to wastes (e.g. stained concrete) with soap and water or equivalent. Decontaminate piping and equipment by circulating the cleaning solution through the piping and ancillary equipment. Rinse the tanks, loading and offloading areas, concrete pads, pumps and associated equipment, secondary containment systems, etc., as necessary with water using the power wash unit until all soap and residuals are removed. Transfer wash down waters to the appropriate wastewater treatment system.
- e. Decontaminate and rinse the wastewater treatment process units using the same procedures specified in step (d) above. Collect wash down waters and any remaining grease trap and/or grit trap wastes and transport the material to an authorized disposal or re-use facility.
- f. Terminate operations in the wastewater treatment systems.
- g. Collect a rinsate sample for all equipment and piping that is known or believed to have contacted wastes (e.g. tanks, pumps, processing equipment and interconnecting piping). Analyze the rinsate sample or samples for, at a minimum, pH, RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), and Total Petroleum Hydrocarbons (TPH) by Method TX 1005 and TX 1006.
- h. Characterize and dispose or recycle remaining chemicals at the Facility.
- i. Observe the site for signs of possible releases. Assuming no releases are evident, collect a minimum of four surface soil samples from native materials. Surface samples are assumed to be a minimum of 1 foot below current ground surface provided there are no visual impacts below this depth. At a minimum, samples shall be analyzed for pH, RCRA metals, and Total Petroleum Hydrocarbons by Method TX 1005. Additionally, the sample with the highest result by the TX 1005 Method shall be analyzed by TX 1006. Additional samples may need to be collected depending on the nature of chemicals stored in the vicinity of the release. Subsurface samples may need to be collected depending on the presence of visual impacts and groundwater may need to be sampled if encountered. These decisions shall be made by a qualified professional engineer.
- j. Prepare Closure Report (Remedial Action Completion Report) for submission to the TCEQ. The Closure Report must be prepared or reviewed and sealed by a qualified professional engineer.

### **3. Procedure for Closure of the Facility by an Independent Third Party**

The Closure of the Facility would be conducted by an independent third party in the following sequence:

- a. Characterize the liquid in the tanks and processing equipment.
- b. Remove and transport liquids to an appropriate disposal or recycling facility.
- c. Characterize sludge from tank bottoms and equipment. Containerize sludge and transport to an authorized off-site waste disposal facility.

- d. Using a high pressure low volume power wash unit, decontaminate empty tanks, hard plumbed pipes, other wetted equipment, and process areas exhibiting exposure to wastes (e.g. stained concrete) with soap and water or equivalent. Decontaminate piping and equipment by circulating the cleaning solution through the piping and ancillary equipment. Rinse the tanks, treatment equipment, loading and unloading area, concrete pads, pumps and associated equipment, secondary containment system, etc. as necessary using the power wash unit until all soap and residuals are removed. Characterize wash down waters and transfer to an appropriate transport container for disposal or recycling at an off-site facility.
- e. Collect a rinsate sample for all equipment and piping that is known or believed to have contacted wastes (e.g. tanks, pumps, processing equipment, and interconnecting piping). Analyze the rinsate samples for, at a minimum, pH, RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), and Total Petroleum Hydrocarbons (TPH) by method TX1005 and TX1006.
- f. Characterize and dispose or recycle remaining chemicals and equipment at the Facility.
- g. Observe the site for signs of possible releases. Assuming no releases are evident, collect a minimum of four surface samples from native material. Surface samples are assumed to be a minimum of 1 foot in below current ground surface provided there are no visual impacts below this depth. At a minimum, samples shall be analyzed for pH, RCRA metals, and Total Petroleum Hydrocarbons by Method TX 1005. Additionally, the sample with the highest result by the TX 1005 Method shall be analyzed by TX 1006. Additional samples may need to be collected depending on the nature of chemicals stored in the vicinity of the release. Subsurface samples may need to be collected depending on the presence of visual impacts and groundwater may need to be sampled if encountered. These decisions shall be made by a qualified professional engineer.
- h. Prepare Closure Report (Remedial Action Completion Report) for submission to the TCEQ. The Closure Report must be prepared or reviewed and sealed by a qualified professional engineer.

#### 4. **Basis for Closure Cost Estimate**

To estimate closure costs for the facility, it was assumed that all tanks at the facility contain the full tank storage capacity of its designated waste at the time of closure and that closure is performed by an independent third party contractor in accordance with the procedures described in Section 3. The closure cost estimate covers labor associated with hauling and disposing of full volumes of on-site wastes and cleaning the site as described in this closure plan. Costs for sampling and analysis have also been included. Costs for project management under the supervision of an independent licensed professional engineer were estimated at 15% of the project cost. A 15% contingency cost was added to complete the total closure cost estimate.

LES is required to demonstrate adequate financial assurance for closure of the facility in accordance with 30 TAC 37 Subchapter R and by reference, Subchapters A, B, C, and D.

## **Appendix A**

### **Closure Cost Estimate for the LES Dallas Facility**

Item No.	Tank ID	Capacity (gal.)	Contents	Total Gallons (Disposal)	Cost Per Gallon <sup>1,3</sup>	Tank Placement	Disposal Cost
EAF1	EAF Unit	11,500	Grease Trap Treatment	11,500	<del>\$0.33</del> \$0.62	<del>On Ground</del> On Ground	<del>\$7,130</del> \$3,795
EAF2	EAF Unit	6,000	Grease Trap Treatment	6,000	<del>\$0.33</del> \$0.62	<del>On Ground</del> On Ground	<del>\$3,720</del> \$1,980
3	Processing Tank	15,000	Grease Trap Treatment	15,000	<del>\$0.33</del> \$0.62	<del>On Ground</del> On Ground	<del>\$9,300</del> \$4,950
5	Storage Tank	2,500	Chemical Storage	2,500	<del>\$1.78</del> \$5.43	<del>On Ground</del> On Ground	<del>\$13,581</del> \$4,450
6	Poly Tank	550	Transfer Tank	550	<del>\$0.33</del> \$0.62	<del>On Ground</del> On Ground	<del>\$341</del> \$182
8	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	<del>\$0.33</del> \$0.62	<del>On Ground</del> On Ground	<del>\$6,200</del> \$3,300
10	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	<del>\$0.33</del> \$0.62	<del>On Ground</del> On Ground	<del>\$6,200</del> \$3,300
11	Storage Tank	10,000	Yellow Grease Finished Product	10,000	<del>\$0.18</del> \$0.62	<del>On Ground</del> On Ground	<del>\$6,200</del> \$1,800
12	Processing Tank	6,000	Yellow Grease Processing & Offload	6,000	<del>\$0.18</del> \$0.62	Elevated	<del>\$3,720</del> \$1,080
13	Storage Tank	6,000	Yellow Grease Offload	6,000	<del>\$0.18</del> \$0.62	Elevated	<del>\$3,720</del> \$1,080
14	Storage Tank	10,000	Brown Grease Storage	10,000	<del>\$0.18</del> \$0.62	On Ground	<del>\$6,200</del> \$1,800
<u>15</u>	<u>Polymer Tote</u>	<u>360</u>	<u>Chemical Storage</u>	<u>360</u>	<u>\$1.73</u>	<u>On Ground</u>	<u>\$622</u>
17	Storage Tank	<del>18,000</del> <u>24,000</u>	Offloading/Wastewater/Sludge Holding	<del>18,000</del> <u>24,000</u>	<del>\$0.18</del> \$0.62	Elevated	<del>\$14,880</del> \$3,240

18	Storage Tank	18,000	Offloading/ Wastewater/Sludge Holding	18,000	<del>\$0.18</del> <u>\$0.62</u>	<del>E</del> elevated	<del>\$11,160</del> <u>\$3,240</u>
<u>Item No.</u>	<u>Tank ID</u>	<u>Capacity (gal)</u>	<u>Contents</u>	<u>Total Gallons (Disposal)</u>	<u>Cost Per Gallon<sup>1,3</sup></u>	<u>Tank Placement</u>	<u>Disposal Cost</u>
<u>19</u>	<u>Storage Tank</u>	<u>8,000</u>	<u>Wastewater or Sludge Holding</u>	<u>8,000</u>	<u>\$0.62</u>	<u>Elevated</u>	<u>\$4,960</u>
19	Storage Tank	8,000	Wastewater or Sludge Holding	8,000	\$0.18	elevated	\$1,440
<u>Item No.</u>	<u>Tank ID</u>	<u>Capacity (gal.'s)</u>	<u>Contents</u>	<u>Total Gallons (Disposal)</u>	<u>Cost Per Gallon<sup>†</sup></u>	<u>Tank Placement</u>	<u>Disposal Cost</u>
20	Storage Tank	<del>20,000</del> <u>18,000</u>	Offloading/ Wastewater/Sludge Holding	<del>20,000</del> <u>18,000</u>	<del>\$0.62</del> <del>\$0.18</del>	<del>E</del> elevated	<del>\$10,260</del> <u>\$3,600</u>
21	Storage Tank	10,000	Brown Grease Storage	10,000	<del>\$0.62</del> <del>\$0.18</del>	<del>O</del> en <del>g</del> Ground	<del>\$5,700</del> <u>\$1,800</u>
22	Storage Tank	<del>10,000</del>	<del>Wastewater or Sludge Holding</del>	<del>10,000</del>	<del>\$0.62</del> <del>\$0.33</del>	<del>o</del> n-ground	<del>\$5,700</del> <u>\$3,300</u>
23	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	<del>\$0.62</del> <del>\$0.33</del>	<del>O</del> en <del>G</del> ground	<del>\$6,200</del> <u>\$3,300</u>
24	Storage Tank	<del>10,000</del>	<del>Wastewater or Sludge Holding</del>	<del>10,000</del>	<del>\$0.62</del> <del>\$0.33</del>	<del>o</del> n-ground	<del>\$171</del> <u>\$3,300</u>
<u>24</u>	<u>Polyme r Tote</u>	<u>275</u>	<u>Storage</u>	<u>275</u>	<u>\$0.62</u>	<u>On Ground</u>	<u>\$6,200</u>
25	Storage Tank	<del>10,000</del> <u>12,500</u>	Wastewater or Sludge Holding	<del>10,000</del> <u>12,500</u>	<del>\$0.62</del> <del>\$0.33</del>	<del>O</del> en <del>G</del> ground	<del>\$7,750</del> <u>\$3,300</u>
27	Storage Tank	16,500	Wastewater or Sludge Holding	16,500	<del>\$0.62</del> <del>\$0.33</del>	<del>o</del> n-ground	<del>\$6,840</del> <u>\$5,445</u>
31	Grit Processing AST	20,300	Grit Trap Treatment	20,300	<del>\$0.62</del> <del>\$0.33</del>	<del>O</del> en <del>G</del> ground	<del>\$12,586</del> <u>\$6,699</u>
32	Grit Processing AST	<del>8,200</del> <u>18,000</u>	Grit Trap Treatment	<del>8,200</del> <u>18,000</u>	<del>\$0.62</del> <del>\$0.33</del>	<del>E</del> elevated	<del>\$11,160</del> <u>\$2,706</u>

33	Storage Tank	12,000	Wastewater or Sludge Holding	12,000	<del>\$0.62</del> <del>\$0.18</del>	<del>O</del> en <del>G</del> ground	<del>\$7,440</del> <del>\$2,160</del>
34	Grit Processing AST	24,000	Grit Trap Treatment	24,000	<del>\$0.62</del> <del>\$0.33</del>	<del>O</del> en <del>G</del> ground	<del>\$14,880</del> <del>\$7,920</del>
35	Odor Control Scrubber	8,000	Air Scrubber Vent Tank	8,000	<del>\$0.62</del> <del>\$0.33</del>	<del>O</del> en <del>G</del> ground	<del>\$4,960</del> <del>\$2,640</del>
36	Odor Control Scrubber	2,000	Scrubber Intake Tank	2,000	<del>\$0.62</del> <del>\$0.33</del>	<del>O</del> en <del>G</del> ground	<del>\$1,240</del> <del>\$660</del>
42	Storage Tank	<del>18,000</del> <u>10,000</u>	Bar Screen Offload Tank	<del>18,000</del> <u>10,000</u>	<del>\$0.62</del> <del>\$0.33</del>	<del>O</del> en <del>G</del> ground	<del>\$6,200</del> <del>\$5,940</del>

Item No.	Tank ID	Capacity (gal <del>s</del> )	Contents	Total Gallons (Disposal)	Cost Per Gallon <sup>1,3</sup>	Tank Placement	Disposal Cost
50	Vacuum Tank	3,000	Various	3,000	<del>\$0.62</del> <u>33</u>	<del>On</del> <u>Ground</u>	<del>\$1,860</del> <u>\$990</u>
52	Settling Pit	10,000	Solidification	10,000	<del>\$0.62</del> <u>33</u>	<del>On</del> <u>Ground</u>	<del>\$6,200</del> <u>\$3,300</u>
53	Settling Pit	10,000	Solidification	10,000	<del>\$0.62</del> <u>33</u>	<del>On</del> <u>Ground</u>	<del>\$6,200</del> <u>\$3,300</u>
55	Centrifuge Feed Tank	10,000	Sludge Holding	10,000	<del>\$0.62</del> <u>33</u>	<del>On</del> <u>Ground</u>	<del>\$6,200</del> <u>\$3,300</u>
<del>57</del>	<del>Storage Tank</del>	<del>3,500</del>	<del>Bar Screen Offload Tank</del>	<del>3,500</del>	<del>\$0.33</del>	<del>on-ground</del>	<del>\$1,155</del>
<u>59</u>	<u>Storage Tank</u>	<u>6,150</u>	<u>Lime Tank</u>	<u>6,150</u>	<u>\$6.61</u>	<u>On Ground</u>	<u>\$40,657</u>
<u>60</u>	<u>Filter Press</u>	<u>750</u>	<u>Filter Press</u>	<u>750</u>	<u>\$0.17</u>	<u>Elevated</u>	<u>\$131</u>
			Total Disposal (gal <del>s</del> )	<u>347,050</u> <u>32,885</u>		T&D Cost	<u>\$100,452</u> <u>249,129</u>

Tank Cleaning Project Management and Contingency							
<u>Tank Cleaning Services</u>	<u>Tank Cleaning Services<sup>3</sup></u>	<u>330,050</u> <u>300,600</u>	Gallons @ a rate pf \$ <u>0.33</u> <del>138</del> /gal <sup>2</sup>	T&D Cost	<u>\$45,547</u> <u>99,198</u>		<u>\$45,547</u> <u>9,198</u>
Sampling <sup>4</sup>							\$4,000
Analytical <sup>5</sup>							<u>\$2,000</u> <u>1,230</u>
Project Management, HSP, Work Plan <sup>6</sup>						15%	<u>\$15,068</u> <u>3,396</u>
Contingency						15%	<u>\$15,068</u> <u>3,396</u>
Total Closure Cost							<u>\$428,295</u> <u>182,135</u>

Notes:

Revised August 2017~~March 2026~~ based on current disposal rates (see invoice copies)

<sup>1</sup> These unit transportation and disposal (T&D) costs are representative of the cost to contract an outside disposal company to remove the tank contents and transport them for disposal/recycling to a facility licensed for disposal wastes.

<sup>2</sup> ~~An Environmental Filed Services Contractor quoted \$4500/day for tank cleaning based on existing tanks at the site. They estimated that it would take approximately 2.5 day's per tank, based on the average tank size of 13,000 gallons per tank, it is calculated that the average cost per tank gallon for cleaning is \$0.138/gallon. Costs provided by HydroTex Excavation for tank cleaning based on invoices received form client.~~

<sup>3</sup> Costs provided by [ALAMO 1 Republic Waste Services](#) for waste removal and site cleaning. Any tank that contains sludge or grit inside the tank, the cost is approximately \$~~0.6236~~/gallon. ~~This is based on information received from Alamo 1 and Hidalgo cost estimates.~~

<sup>4</sup> ~~Estimate for sampling and will be included in the Closure Plan. Sampling costs are estimated for four surface samples as per closure plan.~~

<sup>5</sup> Analytical costs for samples provided by ~~TestAmerica Laboratories Inc. Eurofins.~~

<sup>6</sup> Estimate for engineering associated with closure, including certification of closure report, health and safety plan and work plan.

<sup>7</sup> Base cost estimate from "Opinion of Probable Closure Costs - LES Dallas facility" revised February 22, 2010 by Brown and Caldwell, known as Opinion of Probable Closure Costs - LES Dallas Facility in the Application Part III - Site Development Plan, signed and sealed by Horacio Juarez, P.E. on April 14, 2010.

This is consistent with November 2012 submittal

*Original Application – June 1, 1987*  
*Major Document Reorganization – August 24, 2009*  
*Revision – October 6, 2009*  
*Revision – February 22, 2010*  
*Revision – April 12, 2010*  
*Revision – November 2017*  
*Revision – March 2026*

## **FINANCIAL ASSURANCE MECHANISM**

To Be Provided

Original Application – June 1, 1987  
Major Document Reorganization – August 24, 2009  
Revision – October 6, 2009  
Revision – February 22, 2010  
Revision – April 12, 2010  
Revision – November 2017  
Revision – March 2026

**CLOSURE COST BACKUP INFORMATION**  
**(~~2017-2026~~ COST ESTIMATES)**

BLUE RIDGE LANDFILL TEXAS LP - 5112  
 PO BOX 677839  
 DALLAS, TX 75267-7839  
 (713) 675-6101



**REPUBLIC**  
 SERVICES

**INVOICE**

Invoice Date: 02/08/2026  
 Invoice No: 5112-000439043  
 Customer No: 4-5112-0100694

Page No: Page 1 of 4  
 Due Date: UPON RECEIPT

LIQUID ENVIRONMENTAL SOLUTIONS  
 OF TEXAS LP  
 250 GELLHORN  
 HOUSTON, TX 77013

Current Charges: \$48,051.37  
 Total Amount Due: \$349,828.14

Please pay total amount due  
 Billing Questions? Call (713) 675-6101

**Thank you for your business! Please be sure to remit payments to our lockbox address shown on the bottom of the invoice.**

Date	Code	Description	Reference	Rate	Quantity	Amount
2/02	VY	SW-SPECIAL WASTE-LIQUID	Y9-1615892	0.57	5,000.00 GA	\$2,850.00
2/02	VY	Reference: 027929294JJK				
2/02	VY	Vehicle: LIQ375701				
2/02	VY	Contract: 5112227380				
2/02	{1	ENVIRONMENTAL FEE 1	SC760270	19.71	1.00	\$19.71
2/02	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/02	}1	FUEL RECOVERY FEE	SC760271	8.13	1.00	\$232.27
2/02	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/02	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760267	7.00	1.00	\$7.00
2/02	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616006	0.57	5,000.00 GA	\$2,850.00
2/02	VY	Reference: 027929293JJK				
2/02	VY	Vehicle: LIQ375701				
2/02	VY	Contract: 5112227380				
2/02	{1	ENVIRONMENTAL FEE 1	SC760349	19.71	1.00	\$19.71
2/02	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/02	}1	FUEL RECOVERY FEE	SC760350	8.13	1.00	\$232.27
2/02	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/02	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760331	7.00	1.00	\$7.00
2/02	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616032	0.57	5,000.00 GA	\$2,850.00
2/02	VY	Reference: 027929292JJK				
2/02	VY	Vehicle: LIQ1348				
2/02	VY	Contract: 5112227380				
2/02	{1	ENVIRONMENTAL FEE 1	SC760421	19.71	1.00	\$19.71
2/02	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/02	}1	FUEL RECOVERY FEE	SC760422	8.13	1.00	\$232.27
2/02	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/02	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760367	7.00	1.00	\$7.00
2/03	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616127	0.57	5,000.00 GA	\$2,850.00
2/03	VY	Reference: 027929291JJK				
2/03	VY	Vehicle: LIQ375701				
2/03	VY	Contract: 5112227380				
2/03	{1	ENVIRONMENTAL FEE 1	SC760467	19.71	1.00	\$19.71
2/03	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/03	}1	FUEL RECOVERY FEE	SC760468	8.13	1.00	\$232.27
2/03	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/03	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760450	7.00	1.00	\$7.00
2/03	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616180	0.57	3,300.00 GA	\$2,280.00
2/03	VY	Reference: 027929290JJK				
2/03	VY	Vehicle: LIQ0842				
2/03	VY	Contract: 5112227380				
2/03	{1	ENVIRONMENTAL FEE 1	SC760527	19.71	1.00	\$19.71
2/03	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/03	}1	FUEL RECOVERY FEE	SC760528	8.13	1.00	\$185.93
2/03	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/03	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760503	7.00	1.00	\$7.00

Date	Code	Description	Reference	Rate	Quantity	Amount
2/03	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616191	0.57	5,000.00 GA	\$2,850.00
2/03	VY	Reference: 027929289JJK				
2/03	VY	Vehicle: LIQ375701				
2/03	VY	Contract: 5112227380				
2/03	{1	ENVIRONMENTAL FEE 1	SC760534	19.71	1.00	\$19.71
2/03	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/03	}1	FUEL RECOVERY FEE	SC760535	8.13	1.00	\$232.27
2/03	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/03	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760522	7.00	1.00	\$7.00
2/03	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616274	0.57	5,000.00 GA	\$2,850.00
2/03	VY	Reference: 027929288JJK				
2/03	VY	Vehicle: LIQ1167				
2/03	VY	Contract: 5112227380				
2/03	{1	ENVIRONMENTAL FEE 1	SC760607	19.71	1.00	\$19.71
2/03	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/03	}1	FUEL RECOVERY FEE	SC760608	8.13	1.00	\$232.27
2/03	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/03	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760586	7.00	1.00	\$7.00
2/04	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616342	0.57	5,000.00 GA	\$2,850.00
2/04	VY	Reference: 027929287JJK				
2/04	VY	Vehicle: LIQ375701				
2/04	VY	Contract: 5112227380				
2/04	{1	ENVIRONMENTAL FEE 1	SC760626	19.71	1.00	\$19.71
2/04	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/04	}1	FUEL RECOVERY FEE	SC760627	8.13	1.00	\$232.27
2/04	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/04	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760618	7.00	1.00	\$7.00
2/04	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616477	0.57	5,000.00 GA	\$2,850.00
2/04	VY	Reference: 027929286JJK				
2/04	VY	Vehicle: LIQ1167				
2/04	VY	Contract: 5112227380				
2/04	{1	ENVIRONMENTAL FEE 1	SC760852	19.71	1.00	\$19.71
2/04	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/04	}1	FUEL RECOVERY FEE	SC760853	8.13	1.00	\$232.27
2/04	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/04	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760806	7.00	1.00	\$7.00
2/05	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616547	0.57	5,000.00 GA	\$2,850.00
2/05	VY	Reference: 027929285JJK				
2/05	VY	Vehicle: LIQ375701				
2/05	VY	Contract: 5112227380				
2/05	{1	ENVIRONMENTAL FEE 1	SC760899	19.71	1.00	\$19.71
2/05	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/05	}1	FUEL RECOVERY FEE	SC760900	8.13	1.00	\$232.27
2/05	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/05	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760891	7.00	1.00	\$7.00
2/05	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616607	0.57	5,000.00 GA	\$2,850.00
2/05	VY	Reference: 027929284JJK				
2/05	VY	Vehicle: LIQ1348				
2/05	VY	Contract: 5112227380				
2/05	{1	ENVIRONMENTAL FEE 1	SC760959	19.71	1.00	\$19.71
2/05	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/05	}1	FUEL RECOVERY FEE	SC760960	8.13	1.00	\$232.27

Date	Code	Description	Reference	Rate	Quantity	Amount
2/05	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/05	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760954	7.00	1.00	\$7.00
2/05	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616666	0.57	5,000.00 GA	\$2,850.00
2/05	VY	Reference: 027929283JJK				
2/05	VY	Vehicle: LIQ375701				
2/05	VY	Contract: 5112227380				
2/05	{1	ENVIRONMENTAL FEE 1	SC760992	19.71	1.00	\$19.71
2/05	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/05	}1	FUEL RECOVERY FEE	SC760993	8.13	1.00	\$232.27
2/05	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/05	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760976	7.00	1.00	\$7.00
2/06	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616801	0.57	5,000.00 GA	\$2,850.00
2/06	VY	Reference: 027929282JJK				
2/06	VY	Vehicle: LIQ375701				
2/06	VY	Contract: 5112227380				
2/06	{1	ENVIRONMENTAL FEE 1	SC761090	19.71	1.00	\$19.71
2/06	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/06	}1	FUEL RECOVERY FEE	SC761091	8.13	1.00	\$232.27
2/06	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/06	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	761062	7.00	1.00	\$7.00
2/06	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616914	0.57	5,000.00 GA	\$2,850.00
2/06	VY	Reference: 027929280JJK				
2/06	VY	Vehicle: LIQ375701				
2/06	VY	Contract: 5112227380				
2/06	{1	ENVIRONMENTAL FEE 1	SC761261	19.71	1.00	\$19.71
2/06	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/06	}1	FUEL RECOVERY FEE	SC761262	8.13	1.00	\$232.27
2/06	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/06	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	761253	7.00	1.00	\$7.00
2/06	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616967	0.57	5,000.00 GA	\$2,850.00
2/06	VY	Reference: 027929281JJK				
2/06	VY	Vehicle: LIQ1348				
2/06	VY	Contract: 5112227380				
2/06	{1	ENVIRONMENTAL FEE 1	SC761334	19.71	1.00	\$19.71
2/06	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/06	}1	FUEL RECOVERY FEE	SC761335	8.13	1.00	\$232.27
2/06	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/06	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	761302	7.00	1.00	\$7.00
2/08	F5	TCEQ -CLASS1(IN TEX) at \$6.72/TN on 30		0.00		\$2,033.01

Material / Fee Summary

{1	ENVIRONMENTAL FEE 1	15.00	\$295.65
}1	FUEL RECOVERY FEE	15.00	\$3,437.71
E5	EPA MANIFEST FEE-DATA & IMAGE UPLOAD \$10	15.00	\$105.00
F5	TCEQ -CLASS1(IN TEX) at \$6.72/TN	302.53	\$2,033.01
VY	SW-SPECIAL WASTE-LIQUID	73,300.00 GA	\$42,180.00

Date	Code	Description	Reference	Rate	Quantity	Amount
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Current	31-60 Days	61-90 Days	Over 90 Days	Total Amount Due
\$191,176.43	\$118,271.54	\$40,380.17	\$0.00	\$349,828.14

**please return this portion below with your payment. Do not attach check stub.**



BLUE RIDGE LANDFILL TEXAS LP - 5112  
 PO BOX 677839  
 DALLAS, TX 75267-7839  
 (713) 675-6101

**Invoice Date** 02/08/2026  
**Invoice No** 5112-000439043  
**Customer No** 4-5112-0100694

**Please write your account number on your check and make payable to:**

Current Charges \$48,051.37  
**Total Amount Due** \$349,828.14

**Please Return Payment to:** BLUE RIDGE LANDFILL TEXAS LP - 5112  
 PO BOX 677839  
 DALLAS, TX 75267-7839

Amount Paid: \_\_\_\_\_

LIQUID ENVIRONMENTAL SOLUTIONS  
 OF TEXAS LP  
 250 GELLHORN  
 HOUSTON, TX 77013

CAMELOT LANDFILL - 4525  
 PO BOX 677839  
 DALLAS, TX 75267-7839  
 (972) 434-3618



**INVOICE**

**Invoice Date** 12/31/2025  
**Invoice No** 4525-000024840  
**Customer No** 4-4525-0333461

**Page No** Page 1 of 3  
**Due Date** UPON RECEIPT

LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS  
 11115 GOODNIGHT LANE  
 DALLAS, TX 75229

**Current Charges** **Total Amount Due**  
\$8,105.73 \$48,075.22

**Please pay total amount due**

Billing Questions? Call (972) 434-3618

**Thank you for your business! Please be sure to remit payments to our lockbox address shown on the bottom of the invoice.**

Date	Code	Description	Reference	Rate	Quantity	Amount
12/16	WV	SW-FILTER CAKE	25-1892293	29.89	21.70 TN	\$648.61
12/16	WV	Reference:	3953097/richard			
12/16	WV	Vehicle:	LE375695			
12/16	WV	Contract:	45251810194-1			
12/16	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/16	WV	SW-FILTER CAKE	25-1892403	29.89	16.88 TN	\$504.54
12/16	WV	Reference:	3953098/rich			
12/16	WV	Vehicle:	LE375695			
12/16	WV	Contract:	45251810194-1			
12/16	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/17	WV	SW-FILTER CAKE	25-1892492	29.89	2.73 TN	\$81.60
12/17	WV	Reference:	3953096/richard			
12/17	WV	Vehicle:	LE375695			
12/17	WV	Contract:	45251810194-1			
12/17	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/17	WV	SW-FILTER CAKE	25-1892567	29.89	16.26 TN	\$486.01
12/17	WV	Reference:	3953092/richard			
12/17	WV	Vehicle:	LE375695			
12/17	WV	Contract:	45251810194-1			
12/17	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/18	WV	SW-FILTER CAKE	25-1892743	29.89	11.97 TN	\$357.78
12/18	WV	Reference:	3953093/richard			
12/18	WV	Vehicle:	LE375695			
12/18	WV	Contract:	45251810194-1			
12/18	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/18	WV	SW-FILTER CAKE	25-1892790	29.89	20.76 TN	\$620.52
12/18	WV	Reference:	3953094/richard			
12/18	WV	Vehicle:	LE375695			
12/18	WV	Contract:	45251810194-1			
12/18	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/19	WV	SW-FILTER CAKE	25-1892979	29.89	8.70 TN	\$260.04
12/19	WV	Reference:	3953115/richard			
12/19	WV	Vehicle:	LE375695			
12/19	WV	Contract:	45251810194-1			
12/19	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/19	WV	SW-FILTER CAKE	25-1893091	29.89	12.69 TN	\$379.30
12/19	WV	Reference:	3953095/ richard			
12/19	WV	Vehicle:	LE375695			
12/19	WV	Contract:	45251810194-1			
12/19	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/22	WV	SW-FILTER CAKE	25-1893324	29.89	19.05 TN	\$569.40
12/22	WV	Reference:	3953099/ed			
12/22	WV	Vehicle:	LE375695			
12/22	WV	Contract:	45251810194-1			
12/22	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			

Date	Code	Description	Reference	Rate	Quantity	Amount
12/23	WV	SW-FILTER CAKE	25-1893597	29.89	17.50 TN	\$523.08
12/23	WV	Reference: 3953100/Ed				
12/23	WV	Vehicle: LE375695				
12/23	WV	Contract: 45251810194-1				
12/23	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/24	WV	SW-FILTER CAKE	25-1893833	29.89	12.41 TN	\$370.93
12/24	WV	Reference: 3953101/ed				
12/24	WV	Vehicle: LE375695				
12/24	WV	Contract: 45251810194-1				
12/24	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/26	WV	SW-FILTER CAKE	25-1894005	29.89	14.70 TN	\$439.38
12/26	WV	Reference: 3953102/Ed				
12/26	WV	Vehicle: LE375695				
12/26	WV	Contract: 45251810194-1				
12/26	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/26	WV	SW-FILTER CAKE	25-1894175	29.89	17.07 TN	\$510.22
12/26	WV	Reference: 3953103/Ozzy				
12/26	WV	Vehicle: LE375695				
12/26	WV	Contract: 45251810194-1				
12/26	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/27	WV	SW-FILTER CAKE	25-1894225	29.89	19.63 TN	\$586.74
12/27	WV	Reference: 3953104/ ozzy				
12/27	WV	Vehicle: LE375695				
12/27	WV	Contract: 45251810194-1				
12/27	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/29	WV	SW-FILTER CAKE	25-1894386	29.89	15.46 TN	\$462.10
12/29	WV	Reference: 3953105/Ed				
12/29	WV	Vehicle: LE375695				
12/29	WV	Contract: 45251810194-1				
12/29	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/29	WV	SW-FILTER CAKE	25-1894550	29.89	12.62 TN	\$377.21
12/29	WV	Reference: 3953106/ozzy				
12/29	WV	Vehicle: LE375695				
12/29	WV	Contract: 45251810194-1				
12/29	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/30	WV	SW-FILTER CAKE	25-1894622	29.89	8.69 TN	\$259.74
12/30	WV	Reference: 3953114/Ed				
12/30	WV	Vehicle: LE375695				
12/30	WV	Contract: 45251810194-1				
12/30	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/31	WV	SW-FILTER CAKE	25-1894893	29.89	17.35 TN	\$518.59
12/31	WV	Reference: 3953113/Ed				
12/31	WV	Vehicle: LE375695				
12/31	WV	Contract: 45251810194-1				
12/31	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/31	Z9	LATE FEE	IN001857	149.94	1.00	\$149.94

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Material / Fee Summary

WV	SW-FILTER CAKE	266.17 TN	\$7,955.79
Z9	LATE FEE	1.00	\$149.94

Date	Code	Description	Reference	Rate	Quantity	Amount
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Current	31-60 Days	61-90 Days	Over 90 Days	Total Amount Due
\$19,405.78	\$18,673.16	\$9,996.28	\$0.00	\$48,075.22

**please return this portion below with your payment. Do not attach check stub.**



CAMELOT LANDFILL - 4525  
 PO BOX 677839  
 DALLAS, TX 75267-7839  
 (972) 434-3618

**Invoice Date** 12/31/2025  
**Invoice No** 4525-000024840  
**Customer No** 4-4525-0333461

**Please write your account number on your check and make payable to:**

Current Charges \$8,105.73  
**Total Amount Due** \$48,075.22

**Please Return Payment to:** CAMELOT LANDFILL - 4525  
 PO BOX 677839  
 DALLAS, TX 75267-7839

Amount Paid: \_\_\_\_\_

LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS  
 11115 GOODNIGHT LANE  
 DALLAS, TX 75229

To make a payment, please visit our website at [www.republicservices.com/pay-bill](http://www.republicservices.com/pay-bill)

For billing inquiries, email us at [REDACTED]



02/03/2026

Jacqueline Sheehan-Dean  
Brooks.Ray

Re: Liquid Environmental – waste quote

Dear Jacqueline and Brooks,

Here's the quote for the bulk caustic soda:

- **Transportation:**
  - \$4,466/trip
  - Washout (if applicable): Cost plus 10%
  - Demurrage (after 2 hours onsite): \$100/hour
- **Disposal:**
  - \$5.42/gal
- **Documentation**
  - Profile fee: included
  - Manifest/LDR fee: included
  - \*TCEQ One Time Shipment documentation fee: included

\*The address of the waste pickup does not have an active TCEQ registration; subsequently a TCEQ One Time Shipment request and follow-up report is required.

Polmer quote

**The hyperfloc is non-haz, Class 1. The price for the tote will be \$662/tote (includes documentation, transportation, and disposal)**

Please let me know if you have any questions; I look forward to working with you!

Cordially,

Debra Parker

## Jacqueline Sheehan-Dean

---

**From:** Debra Parker [REDACTED]  
**Sent:** Thursday, February 12, 2026 11:43 AM  
**To:** Jacqueline Sheehan-Dean  
**Cc:** Brooks Ray  
**Subject:** RE: Updating Quote for Client in Dallas, TX

**External Sender - From:** (Debra Parker [REDACTED])

This message came from outside your organization.

Here you go:

Please be sure and read the notes at the bottom

The cost per gallon and per trip will be the same as the caustic soda; note that 2 shipments will be needed to move 6,150 gallons.

- **Transportation:**
  - \$4,466/trip
  - Washout (if applicable): Cost plus 10%
  - Demurrage (after 2 hours onsite): \$100/hour
- **Disposal:**
  - \$5.42/gal
- **Documentation**
  - Profile fee: included
  - Manifest/LDR fee: included
  - \*TCEQ One Time Shipment documentation fee: included

\*The address of the waste pickup does not have an active TCEQ registration; subsequently a TCEQ One Time Shipment request and follow-up report is required.

Note that the SDS indicates the pH is 12.44; we will ship this waste as D002 (hazardous). If the customer has the pH tested (we can do, if needed) and the pH of the liquid in the tank is around 10 (or less), we can manage this as non-haz at a lower price.

### Debra Parker

Inside Sales Account Manager I

Univar Solutions

**P:** 214-503-5739

**M:** 214-202-9624

Follow us on:





Environment Testing

Eurofins Dallas  
9701 Harry Hines Blvd  
Dallas, TX 75220

Tel: (214) 902-0300

www.EurofinsUS.com

January 28, 2026

Jacqueline Sheehan-Dean  
CK Associates  
8591 United Plaza Boulevard, Suite 300  
Baton Rouge, LA 70809  
[REDACTED] | Tel: 1-(225) 923-9487  
Fax: 1-(225) 933-1092

Subject: Analytical Services Proposal - Soil Sampling  
Eurofins Environment Testing South Central Quotation Number 87002786

Dear Jacqueline Sheehan-Dean:

We appreciate the opportunity to provide your company with a quotation for your Soil Sampling project. Eurofins Environment Testing South Central has a unique combination of full service capabilities, technical expertise, local service options, and online resources necessary to ensure successful project outcomes.

At Eurofins Environment Testing South Central, quality is the hallmark of our business. To ensure your project's data quality objectives are met, we offer experienced personnel who are trained and committed to completing your analytical project on time, a fully documented QA/QC program, and state-of-the-art laboratory equipment and facilities. In addition to being a full service laboratory, we are part of the nation's largest environmental laboratory network. This provides access to an unparalleled spectrum of capabilities and turnaround time options, all through a single point of contact. Sylvia Garza has been assigned as your Project Manager for this work and can be reached by phone at 832 544-2004 or via email at [REDACTED]

- **MyEOL®:** a web portal offering you customizable, real time access to data. With 24 hour access you can perform data trending, compare data to industry or project limits, track CoCs, invoices, reports and much more.
- **Level IV Deliverables/Customizable EDDs:** high resolution, text searchable reports, available in virtually any format.
- **Extensive Experience:** Project Managers with in-depth knowledge of regulatory protocols and procedures.
- **Nationwide Logistical Support:** bringing you an extensive courier network, service centers and shipping options throughout the U.S. and abroad.
- **PFAS, Dioxins/Furans, Air, Radiochemistry, IH** and other specialty analyses are offered alongside routine soil and water methods with seamless reports and consolidated EDDs.

The following quotation includes a detailed price breakdown, as well as any notes and clarifications pertaining to your project, and is subject to Eurofins Environment Testing South Central's Standard Terms and Conditions, unless otherwise agreed upon in writing.

We thank you for choosing Eurofins Environment Testing South Central, and we look forward to working with you on this project.

Sincerely,

Sonia West  
Client Service Manager  
[REDACTED]

cc: Henry Pelitire; Sylvia Garza

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9701 Harry Hines Blvd  
Dallas, TX 75220

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CK Associates  
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Tel: 1-(225) 923-9487  
Fax: 1-(225) 933-1092

Prepared by: West, Sonia  
Date: 1/28/2026 Expiration Date: 4/28/2026

**Project: Soil Sampling**

**Quote Number: 87002786 - 0**

**Soil Samples TAT: 5\_Days (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Solid	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	4	\$ 60.00	\$ 240.00
Solid	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	4	\$ 0.00	\$ 0.00

**Soil Samples TAT: 24\_Hours (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Solid	Moisture	Percent Moisture	4	\$ 10.00	\$ 40.00

**Soil Samples TAT: 5\_Days (Business Days) (to be analyzed by Eurofins Houston)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Solid	6010D	Metals (ICP)	4	\$ 70.00	\$ 280.00
Solid	7471B	Mercury (CVAA)	4	\$ 25.00	\$ 100.00
Solid	TX 1006	Texas - Total Petroleum Hydrocarbon Fractions (GC)	1	\$ 195.00	\$ 195.00

**Total Soil Samples \$ 855.00**

**Water Samples TAT: 5\_Days (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Water	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	1	\$ 60.00	\$ 60.00
Water	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	1	\$ 0.00	\$ 0.00

**Water Samples TAT: 5\_Days (Business Days) (to be analyzed by Eurofins Houston)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Water	6020B	Metals (ICP/MS)	1	\$ 70.00	\$ 70.00
Water	7470A	Mercury (CVAA)	1	\$ 25.00	\$ 25.00
Water	TX 1006	Texas - Total Petroleum Hydrocarbon Fractions (GC)	1	\$ 195.00	\$ 195.00

**Total Water Samples \$ 350.00**

**Quote Other Charges**

Description	Quantity	Unit Price	Extended Price
Safe and Environmentally Responsible Waste Management (per sample)	5	\$ 5.00	\$ 25.00

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**Project: Soil Sampling**

**Quote Number: 87002786 - 0**

**Quote Other Charges (Continued)**

Description	Quantity	Unit Price	Extended Price
M01 - Level 2 Data Package	1	\$ 0.00	\$ 0.00
<b>Total Other Charge</b>			<b>\$25.00</b>
<b>Total Other Charges</b>			<b>\$ 25.00</b>
<b>Total Analysis Charges</b>			<b>\$ 1,205.00</b>
<b>Grand Total for Quote 87002786</b>			<b>\$ 1,230.00</b>

*\*\*Quoted charges do not include sales tax. Applicable sales tax will be added to invoices where required by law.*

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## PROJECT DETAILS

### Eurofins South Central Business Ts&Cs

#### **Eurofins Environment Testing South Central Business T&C**

##### **Confidentiality -**

This quote has been prepared by Eurofins Environment Testing South Central (EETSC - DBA Eurofins Xenco), solely for the use of the customer to whom it is addressed in evaluating Eurofins Environment Testing South Central's qualifications and capabilities in connection with a particular project. The user of this document agrees by its acceptance to return it to Eurofins Environment Testing South Central upon request and not to reproduce, copy, lend, or otherwise disclose its contents, directly or indirectly, and not to use it for any purpose other than that for which it was specifically provided. The user also agrees that where consultants or other outside parties are involved in the evaluation process, access to this document shall not be given to said parties unless those parties also specifically agree to these conditions. In the absence of signed acceptance, the submittal of samples will indicate acceptance of this quotation.

##### **Terms and Conditions -**

This quotation is based solely upon Eurofins Environment Testing South Central's standard product (routine QA/QC, detection limits, deliverables, and standard turnaround times) and noted exceptions herein. The discounts incorporated into the pricing are based upon the sample quantity, test method, and schedule quoted. Any deviations may impact pricing and/or the acceptance of work. Final acceptance of this work is contingent upon a mutually agreed Sample Delivery Schedule. All sales are subject to Eurofins Environment Testing South Central's Terms and Conditions **unless alternative terms have been agreed to in writing**. Submittal of samples will indicate acceptance of this quotation.

Relinquishment of samples constitutes a valid purchase order from the client company to Eurofins Environment Testing South Central, its affiliates, and subcontractors. It assigns standard terms and conditions of service. Eurofins Environment Testing South Central standard payment terms are net 30 days upon credit approval if not approved payment upfront will be required. Eurofins Environment Testing South Central will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Environment Testing South Central.

##### **Quote Expiration -**

Pricing listed in the proposal will expire **90 days** from the quote date unless the project is awarded/confirmed within that time period. Unless otherwise set forth in this quotation, Eurofins Environment Testing South Central reserves the right to re-evaluate pricing for extended-length projects on an annual basis.

##### **SERWM -**

A fee, notated as Safe and Environmentally Responsible Waste Management (SERWM), will be applied to all invoices for each sample processed by the laboratory.

##### **PROJECT SETUP**

###### **Field Sampling Products -**

Eurofins Environment Testing South Central can provide field sampling products upon request and these products are billable to the client at the time of shipment.

Field sampling products may include, but are not limited to:

- VOA sampling devices, preservation kits, ISM supplies, tubing and filters
- Industrial Hygiene media, surface sampling wipes, source sampling traps

The cost of the soil sampling devices is not included in the quoted rates for volatile analysis.

###### **Core Samplers**

- 5 gram Core N' One and EnCore samplers are available at \$10 each (three required per sample).
- Disposable Core N' One T-Handles are available at \$15 each.
- Eurofins Environment Testing South Central does not supply EnCore T-Handles.

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**Field Preservation**

- TerraCore Kits (varied) - quoted based on client required configurations
- Disposable Lock N' Load Handles are available at \$12 each.

If any sampling supplies for soil VOCs are requested, they will be included in the quote under Other Charges.

**Coolers and Sampling Supplies -**

- **Sampling Supplies:** Eurofins Environment Testing South Central will provide sample containers and coolers to support the sampling of water and soil samples. Extra bottles may be provided (up to 10%) in case of breakage. Eurofins Environment Testing South Central expects that samples and supplies will be returned to the lab, including empty coolers and a reasonable percentage of the projected sample load - 70% or higher of the expected/quoted sample number. Coolers not received back by the projected deadline or as agreed with the PM may be charged at \$30 per cooler. Similarly, if the sample containers received as samples are less than 90% of the containers provided, the sample containers not received as samples will be charged at a flat rate of \$1 per container.
- **Sample Container Shipping:** The containers and preservatives required by the project shall be delivered via ground transportation. A minimum of **5 business days** advance notice is required in order to achieve shipment by ground transportation. Supply shipments requiring priority delivery due to insufficient lead time for ground transportation shall be charged to the client at Eurofins Environment Testing South Central's cost. Alternatively, Eurofins Environment Testing South Central can ship the supplies via carrier of choice by the client using the client's shipping account.

**Courier Services and Sample Pick-Up -**

Courier Services are offered by some Eurofins Environment Testing South Central facilities. Where offered, the cost of the services will vary based on the distance traveled, the scope of the project being supported, and whether sufficient notice (typically 48 hours) is provided to facilitate efficient scheduling. If no details are described in this quotation and you are interested in learning more about courier options, please contact your Project Manager to inquire about availability and cost.

**Minimum Log-In Charges -**

Eurofins Environment Testing South Central's minimum charge is **\$125** for a group of samples received together for analysis. Our minimum invoice value is \$125. These terms will be enforced unless previously negotiated in a contract.

**QC Limit Disclaimer -**

The laboratory's reporting limits, detection limits, and control limits are subject to change as these values are updated periodically to reflect analytical sensitivity and capability.

**Turnaround Time -**

- **Expedited Turnaround Time:** Expedited turnaround times may be available and must be pre-approved by the laboratory. Expedited turnaround delivery is contingent upon meeting the agreed upon delivery date/time and number of samples. Samples received after 4:00PM will be considered received the next business day. Results will be provided via e-mail or TotalAccess by close of business in the lab's time zone unless another time has been agreed to in advance.

Expedited turnaround time surcharges for standard analyses are:

- 5 Business Days TAT = 10%
- 4 Business Days TAT = 25%
- 3 Business Days TAT = 50%
- 2 Business Days TAT = 75%
- 1 Business Day TAT = 100%
- Same Day TAT = 200%

Different surcharges may apply for specialty analyses. These will be provided in your quotation. Weekend TAT can be arranged on a project-specific basis at an additional cost. Please contact your Project Manager to inquire about availability and cost.

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**PROJECT DELIVERABLES**

Eurofins Environment Testing South Central will provide two analytical report formats, a final report in PDF format and a standard Eurofins Environment Testing South Central EDD. Both electronic report formats will be delivered via email or web portal. If additional formats or retroactive deliverables are requested, costs of report generation will be billable. Charges will be based on labor and materials, cost of report generation, and data retrieval. Please contact your Project Manager to inquire about availability and the price of additional deliverables.

- **Report Format:** Unless a level III or IV deliverable is specifically listed on the pricing page, this quotation includes delivery of a Level I or II report. Level III or IV reports are available at an additional charge.
- **Electronic Data Deliverable Format:** Eurofins Environment Testing South Central has many EDD formats available to our clients including the most widely used commercial formats. Eurofins Environment Testing South Central offers data using a standard EDD. Other EDD formats are available for a minimal cost of \$25 per format (if not included as part of the report options listed in the quotation). The development of EDD formats that are not already available, including modification to existing formats to fit client specific needs, can be provided for a fee starting at \$100. Additional fees will be estimated by the lab and approved by the client. Additional programming fees are billed at \$75/hour.

**PROJECT SPECIFICATIONS****Cancellation Fee -**

A fee will be charged for cancellation of samples/analyses after a project is received in the laboratory. The fee will be based on the status of analysis at the time of cancellation in accordance with the following categories:

- Received - 35%
- Prepped - 50%
- Analyzed - 95%

**Changes in Scope and Work Revisions -**

Project requirements must be agreed upon prior to sample receipt. Samples will be logged according to the chain of custody received with the samples. Changes after initiation of the project will be subject to additional charges, including labor time required to reset project, communicate changes to laboratory staff, and rework data. Turnaround time will be reset, or rush surcharges will be assessed where applicable. Analyses added with less than 1/2 of the analytical hold time remaining will incur rush turnaround charges. Your Project Manager will evaluate project-specific charges at the time a change order is received.

**Held Samples -**

- **Held samples not analyzed:** Samples submitted on hold will be billed at \$20 per sample, plus any applicable TerraCore/Encore/Specialty kit fees, which will be billed separately, including but not limited to canisters, flow regulators, low-level analysis, etc. If samples are later analyzed, the handling fee will be waived and only the analysis price will be charged. Samples taken off hold with less than 1/2 of the analytical hold time remaining may incur rush turnaround charges. Samples will be disposed of 30 days after the report for analyzed samples in the same job is issued, unless alternate archival arrangements are made in advance.
- **Extracted/Prepped and Held samples:** Samples submitted for prep and hold will be billed at 60% of the analysis fee for each prepped sample (minimum \$30/sample). Samples taken off hold with less than 1/2 of the analytical hold time remaining may incur rush turnaround charges. Samples will be disposed of 30 days after the report for analyzed samples in the same job is issued, unless alternate archival arrangements are made in advance.
- **Extended archival of samples:** Extended archival of samples (including held samples) may be available for a fee starting at \$2 per container per month (minimum \$10/sample). This fee will be billed in advance on a quarterly basis for every quarter after the standard sample retention time of 30 days after the report is issued. Fees for larger volumes, non-standard matrices or cold storage will be negotiated on a case-by-case basis. Please contact your Project Manager to inquire about availability and pricing for samples that are

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**Project: Soil Sampling**

**Quote Number: 87002786 - 0**

sent to the lab and archived.

These terms will be enforced unless previously negotiated in a contract.

**Matrix Spike/Spike Duplication (MS/MSD) Samples -**

When MS/MSDs are not specifically requested, Eurofins Environment Testing South Central will strive to perform the required QC using whatever sample is available but will not report the QC results unless the client requests it. The reporting of client-requested MS/MSD results will be charged at applicable unit rates. If MS/MSDs are specifically required or requested, the client must provide additional sample volume.

**Multiple Dilutions Analyzed -**

Eurofins Environment Testing South Central strives to analyze samples without dilution or with the minimum dilution required. Samples are diluted to bring the primary analyte within the calibration range of the instrument, to compensate for matrix co-extractives, or to prevent instrument contamination. Eurofins Environment Testing South Central will report the analytical run containing the highest concentration component/analyte in the sample within the calibrated (quantifiable) range of the method. Analytical screening runs are not reported. If project-specific data quality objectives require additional runs, analyses will be billable unless otherwise noted in this quote. Please contact your Project Manager to inquire about the availability of this service for your project.

**Sample Disposal -**

Eurofins Environment Testing South Central will dispose of non-hazardous samples, sample extracts, and digestates 30 days after the final report is issued. Charges for disposal of non-routine or uniquely hazardous samples will be billed to the client. Alternatively, samples can be returned to the client for disposal. Cost of return shipping will be billable to the client.

**Special Sample Handling Fees -**

Unit prices assume that samples are a single-phase matrix and that analyses can be performed in accordance with the laboratory's standard analytical procedures. If additional handling is required, additional fees may apply. Examples of special handling include (but are not limited to):

- Matrices requiring additional dilutions or special clean up steps
- Multiphasic samples requiring separate preparations and/or analyses
- Particle size reduction or special sub-sampling procedures
- Extra disposal costs for unique waste streams
- Foreign Soil Fees

**Trip Blanks -**

Eurofins Environment Testing South Central typically provides trip blanks with our sample kits containing volatile analysis. When samples are received at the laboratory with trip blanks, the lab will analyze, report, and charge the unit rate for the analysis. Please add this sample to your chain of custody (COC). If you do not want the trip blank analyzed, please note this on the COC.

**ADDITIONAL BUSINESS TERMS AND CONDITIONS****Environmental Management Fee**

If this fee is included in the Other Charges section of the pricing page, a fee equal to the listed percentage of the total invoice amount will be applied to all work done under this quotation. The Fee will appear as a separate line item on each invoice. In the absence of any other firm pricing agreements, your sending work to us under this quotation will signify your acceptance of responsibility for payment of the Fee.

**Field Parameters -**

pH, Temperature, and Dissolved Oxygen analyses, along with Residual Chlorine screening, are properly performed and treated in the field at the time of sample collection. Laboratory analysis may result in a holding time exceedance qualifier.

**Network or Subcontract Labs -**

- Networking: Eurofins Environment Testing South Central reserves the right to perform the services at any laboratory in the Eurofins Environment Testing South Central network unless the Client has required a particular location for the work.

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- **Subcontracting:** Eurofins Environment Testing South Central reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in Eurofins Environment Testing South Central's sole judgment, it is reasonably necessary, appropriate or advisable to do so. Eurofins Environment Testing South Central will make every effort to notify the client prior to delivering samples to an out-of-network laboratory. Eurofins Environment Testing South Central will in no way be liable for any subcontracted services (outside the Eurofins Environment Testing South Central network) except for work performed at laboratories which have been audited and approved by Eurofins Environment Testing South Central.

**Price Surcharge Due to Sample Volume -**

Unless dictated by contract, this quotation is based on the scope of work defined in the quote request.

**Professional and Administrative Services -**

A variety of professional and administrative services are available. Prices for services not specifically detailed in this quotation will be billed in accordance with Eurofins Environment Testing South Central's Professional Rate Schedule.

**Taxes -**

Where reports are issued in or delivered to a state which assesses sales tax on Eurofins Environment Testing South Central's services, applicable sales taxes will be added to the invoice as required by law, unless an appropriate sales tax exemption form is on file with Eurofins Environment Testing South Central.

**MyEOL®**

Use of Eurofins' on-line data management tool and interactive portal, MyEOL®, provides clients with 24/7 access to all project information, including: sample results, data reports, EDDs, and invoices. This tool enables clients to manage their analytical data electronically and eliminates shipping costs and paper consumption, thereby reducing impacts on the environment. **Eurofins is pleased to provide access to MyEOL® at no additional charge.** Please contact your Project Manager to create a MyEOL® account and to discuss how this tool may help you efficiently manage your analytical data.

MyEOL® features include:

- Real time access to your sample status and result data in our LIMS.
- 24/7 availability to download your EDD files.
- Convenient organization of all your program information in one place, categorized the way you want it.
- Instant archiving of all documents for secure storage and fast retrieval.
- Dynamic interactive capabilities, enabling you to query and trend data.
- Access to analytical capabilities and methodologies to help you select the best procedures for performing your work.
- Access to lists of Certification Programs detailing which Eurofins laboratories perform work under these programs.
- Online access to your invoices and quotes.
- Ability to compare data results to the regulatory limits.

**Rush Bottle Order Requests**

In order to ensure that you receive a correct bottle order in a timely manner, please allow the laboratory a minimum of 2-business days to assemble and ship or deliver your bottle order. Bottle order requests received within 48-hours of their due date will incur a \$50.00 RUSH Assembly Fee, and/or a \$50.00 (per cooler) RUSH Shipping / Delivery Fee.

**Target Compounds/Reporting Limits**

Eurofins Xenco will report data per our standard list of target compounds, reporting limits, and QC limits. Attached for your review, please find compound lists for the methods cited. Please review these compounds and limits and let us know if they do not meet your requirements.

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**Soil Samples**

Matrix	Method	Test Description	Analyte	NONE	NONE	Units
Solid	Moisture	Percent Moisture	Percent Moisture CAS#: STL00177 Percent Solids CAS#: STL00234			
Solid	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	C6-C12 Range Hydrocarbons CAS#: STL00061 >C12-C28 Range Hydrocarbons CAS#: STL00035 >C28-C35 Range Hydrocarbons CAS#: STL00147	RL 50.0	MDL 25.0	Units mg/Kg
		<b>Surrogate Cpnd</b>	1-Chlorooctane CAS#: 111-85-3 o-Terphenyl (Surr) CAS#: 84-15-1			
Solid	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	Total Petroleum Hydrocarbons (C6-C35) CAS#: STL00006	RL 50.0	MDL 25.0	Units mg/Kg
Solid	6010D	Metals (ICP)	Arsenic CAS#: 7440-38-2 Barium CAS#: 7440-39-3 Cadmium CAS#: 7440-43-9 Chromium CAS#: 7440-47-3 Lead CAS#: 7439-92-1 Selenium CAS#: 7782-49-2 Silver CAS#: 7440-22-4	RL 1.50 1.00 1.00 1.00 1.00 3.00 2.00	MDL 1.06 0.118 0.239 0.493 0.301 1.30 0.593	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg

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**Soil Samples**

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Solid	7471B	Mercury (CVAA)	Mercury CAS#: 7439-97-6	0.0200	0.00895	mg/Kg
Solid	TX 1006	Texas - Total Petroleum Hydrocarbon Fractions (GC)	Over C6-C8 aliphatics CAS#: STL00005	50.0	25.0	mg/Kg
			Over C8-C10 aliphatics CAS#: STL00135	50.0	25.0	mg/Kg
			Over C10-C12 aliphatics CAS#: STL00116	50.0	25.0	mg/Kg
			Over C12-C16 aliphatics CAS#: STL00139	50.0	25.0	mg/Kg
			Over C16-C21 aliphatics CAS#: STL00235	50.0	25.0	mg/Kg
			Over C21-C35 aliphatics CAS#: STL00312	50.0	25.0	mg/Kg
			Over C7-C8 aromatics CAS#: STL00305	50.0	25.0	mg/Kg
			Over C8-C10 aromatics CAS#: STL00107	50.0	25.0	mg/Kg
			Over C10-C12 aromatics CAS#: STL00023	50.0	25.0	mg/Kg
			Over C12-C16 aromatics CAS#: STL00308	50.0	25.0	mg/Kg
			Over C16-C21 aromatics CAS#: STL00145	50.0	25.0	mg/Kg
			Over C21-C35 aromatics CAS#: STL00032	50.0	25.0	mg/Kg
			Hexane CAS#: 110-54-3	50.0	25.0	mg/Kg

**Water Samples**

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Water	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	C6-C12 Range Hydrocarbons CAS#: STL00061	5.00	0.750	mg/L
			>C12-C28 Range Hydrocarbons CAS#: STL00035	5.00	0.750	mg/L

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**Water Samples**

Matrix	Method	Test Description	Analyte	RL	MDL	Units
<b>Continued</b>						
			>C28-C35 Range Hydrocarbons CAS#: STL00147	5.00	0.750	mg/L
			<b>Surrogate Cpnd</b>			
			1-Chlorooctane CAS#: 111-85-3 o-Terphenyl (Surr) CAS#: 84-15-1			
Water	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	Total Petroleum Hydrocarbons (C6-C35) CAS#: STL00006	5.00	0.750	mg/L
Water	6020B	Metals (ICP/MS)	Arsenic CAS#: 7440-38-2 Barium CAS#: 7440-39-3 Cadmium CAS#: 7440-43-9 Chromium CAS#: 7440-47-3 Lead CAS#: 7439-92-1 Selenium CAS#: 7782-49-2 Silver CAS#: 7440-22-4	0.00400	0.000690	mg/L
Water	7470A	Mercury (CVAA)	Mercury CAS#: 7439-97-6	0.000200	0.0000706	mg/L
Water	TX 1006	Texas - Total Petroleum Hydrocarbon Fractions (GC)	Over C6-C8 aliphatics CAS#: STL00005 Over C8-C10 aliphatics CAS#: STL00135 Over C10-C12 aliphatics	5.00	0.885	mg/L

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 8591 United Plaza Boulevard, Suite 300  
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Prepared by: West, Sonia  
 Date: 1/28/2026 Expiration Date: 4/28/2026

**Project: Soil Sampling**

**Quote Number: 87002786 - 0**

**Water Samples**

Matrix	Method	Test Description	Analyte	RL	MDL	Units
<b>Continued</b>						
			CAS#: STL00116			
			Over C12-C16 aliphatics	5.00	0.863	mg/L
			CAS#: STL00139			
			Over C16-C21 aliphatics	5.00	0.863	mg/L
			CAS#: STL00235			
			Over C21-C35 aliphatics	5.00	0.863	mg/L
			CAS#: STL00312			
			Over C7-C8 aromatics	5.00	0.885	mg/L
			CAS#: STL00305			
			Over C8-C10 aromatics	5.00	0.885	mg/L
			CAS#: STL00107			
			Over C10-C12 aromatics	5.00	0.885	mg/L
			CAS#: STL00023			
			Over C12-C16 aromatics	5.00	0.863	mg/L
			CAS#: STL00308			
			Over C16-C21 aromatics	5.00	0.863	mg/L
			CAS#: STL00145			
			Over C21-C35 aromatics	5.00	0.863	mg/L
			CAS#: STL00032			
			Hexane	5.00	0.885	mg/L
			CAS#: 110-54-3			

Eurofins Dallas  
 9701 Harry Hines Blvd  
 Dallas, TX 75220

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**Analytical Sample Information**

Analysis Method	Matrix	Preservative	Client Sub List Desc Container	Volume Required	Holding Time
Mercury (CVAA) 7471B	Solid	None	Mercury (CVAA) Soil jar 4oz - clear glass	10 g	28 Days
Metals (ICP) 6010D	Solid	None	Metals (ICP) Soil jar 4oz - clear glass	10 g	180 Days
Percent Moisture Moisture	Solid	None	Percent Moisture Soil jar 4oz - clear glass	5 g	7 Days
Texas - Total Petroleum Hydrocarbon (GC) TX_1005	Solid	None	Texas - Total Petroleum Hydrocarbon (GC) TX1005 Kit	1 NONE	14 Days
Texas - Total Petroleum Hydrocarbon Fractions (GC) TX_1006	Solid	None	Texas - Total Petroleum Hydrocarbon Fractions (GC) No Container	0 No Unit	14 Days
Mercury (CVAA) 7470A	Water	Nitric Acid	Mercury (CVAA) Plastic 250ml - with Nitric Acid	50 mL	28 Days
Metals (ICP/MS) 6020B	Water	Nitric Acid	Metals (ICP/MS) Plastic 250ml - with Nitric Acid	50 mL	180 Days
Texas - Total Petroleum Hydrocarbon (GC) TX_1005	Water	Hydrochloric Acid	Texas - Total Petroleum Hydrocarbon (GC) Voa Vial 40ml - Hydrochloric Acid	80 mL	14 Days
Texas - Total Petroleum Hydrocarbon Fractions (GC) TX_1006	Water	None	Texas - Total Petroleum Hydrocarbon Fractions (GC) No Container	0 No Unit	14 Days

*Hold Times listed above represent the minimum allotted time between sampling and lab extraction, prep or analysis.*

*Multiple analyses may be consolidated into fewer containers. Please contact your Project Manager for clarification when requesting sample containers.*

*Except for some special tests, all samples should be kept cold at 6 degrees C.*

**EUROFINS ENVIRONMENT TESTING SOUTH CENTRAL, LLC  
TERMS AND CONDITIONS OF SALE (Short Form)**

When a purchaser ("Client") places an order for laboratory, consulting or sampling services from Eurofins Environment Testing South Central, LLC ("EETSC"), a Delaware limited liability company EETSC shall provide the ordered services pursuant to these Terms and Conditions and the related Quotation or Price Schedule, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, a client order constitutes an acceptance by the Client of EETSC's offer to do *business* under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. Receipt of a Client's samples at an EETSC laboratory constitutes acceptance of these Terms and Conditions (in the absence of any other negotiated contract). No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by EETSC in writing.

**1. ORDERS AND RECEIPT OF SAMPLES**

1.1 A Client may place an order (i.e., specify a Scope of Work) either by submitting a purchase order to EETSC in writing or by telephone subsequently confirmed in writing, or by negotiated contract. Whichever option the Client selects for placing an order, the order shall not be valid unless it contains sufficient specification to enable EETSC to carry out the Client's requirements. In particular, samples must be accompanied by: a) adequate instruction on type of analysis requested, and b) complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. If a Client fails to provide these required disclosures accompanying the submission of samples, and such failure results in an interruption in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean-up and recovery.

1.2 The Client shall provide one week's advance notice of the sample delivery schedule, or any changes to the schedule, whenever possible. Upon timely delivery of samples, EETSC will use its best efforts to meet mutually agreed turnaround times. All turnaround times will be calculated from the point in time when EETSC has determined that it can proceed with defined work following receipt, inspection of samples, and resolution of any discrepancies in Chain-of-Custody forms and project guidance regarding work to be done (Sample Delivery Acceptance). Rush turnaround times not requested in advance of the delivery of samples and specifically agreed to by the lab are not guaranteed. If the Client changes the sample delivery schedule prior to Sample Delivery Acceptance, EETSC reserves its rights to modify its turnaround time commitment, change the date upon which EETSC will accept samples, or refuse Sample Delivery Acceptance for the affected samples.

1.3 EETSC reserves the right, exercisable at any time, to refuse or revoke Sample Delivery Acceptance for any sample which in the sole judgment of EETSC: a) is of unsuitable volume; b) may pose a risk or become unsuitable for handling, transport, or processing for any health, safety, environmental or other reason, whether or not due to the presence of any hazardous substance in the sample and whether or not such presence has been disclosed to EETSC by the Client; or c) holding times cannot be met, due to passage of more than 48 hours from the time of sampling or 1/2 the holding time for the requested test, whichever is less.

1.4 Prior to Sample Delivery Acceptance, the entire risk of loss or damage to samples remains with the Client, except where EETSC provides courier services. In no event will EETSC have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from EETSC's premises. Client is responsible for assuring that any sample that contains or may contain any hazardous substance to be delivered to EETSC's premises is properly packaged, labeled, transported and delivered, all in accordance with applicable laws.

1.5 EETSC reserves the right to begin processing samples upon receipt, unless the Client specifically notifies EETSC in writing prior to sample receipt that the samples are to be held without preparation or other processing or pending receipt of a purchase order. EETSC shall under no circumstances be responsible for missed holding times or turnaround times or for re-sampling costs if samples are released from hold with less than 48 hours or 1/2 the holding time for the requested test remaining, whichever is less.

**2. PAYMENT TERMS**

2.1 Services performed by EETSC will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Quoted prices do not include sales tax. Applicable sales tax will be added to invoices where required by law.

2.2 Invoices may be submitted to Client upon completion of any sample delivery group. Billing corrections must be requested within 30 days of invoice date. Payment in advance is required for all clients except those whose credit has been established with EETSC. For clients with approved credit, payment terms are net 30 days from the date of invoice by EETSC, unless alternative terms have been agreed in a separate written agreement. Payment shall be made without retainage and shall not be contingent upon the receipt of funds from third parties. All overdue payments are subject to an additional interest and service charge of one- and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is less) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party, acknowledging, and accepting payment responsibility in accordance with these payment terms.

2.3 If Client fails to make timely payment of its invoices, EETSC reserves the right to pursue all appropriate remedies, including withdrawing certifications, suspending work, and withholding delivery of data under this order without recourse. Client shall be responsible for all reasonable fees, expenses, and costs of collection including but not limited to arbitrator's and attorney's fees. EETSC reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

**3. CHANGE ORDERS, TERMINATION**

3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by EETSC after Sample Delivery Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. EETSC will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.

3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification, or acceleration in the performance of the work may be initiated by the Client after Sample Delivery Acceptance. Such change must be documented in writing and may result in a change in cost and turnaround time commitment. EETSC's acceptance of such changes is contingent upon technical feasibility and operational capacity.

3.3 Suspension or termination of all or any part of the work may be initiated by the Client upon thirty (30) day written notice to EETSC. EETSC will be compensated consistent with Section 2 of these Terms and Conditions. EETSC will complete all work in progress and be paid in full for all work completed, including all costs incurred and reasonable profit margin, even if EETSC does not issue a final or partial report.

**4. WARRANTIES AND LIABILITY**

4.1 Where applicable, EETSC will use appropriate and approved analytical test methods. EETSC has referenced these methods in its Laboratory Quality Manuals and has documented them in Standard Operating Procedures. EETSC reserves the right based on its reasonable judgment to deviate from these methodologies as necessary or appropriate to the extent required by the nature or composition of the sample, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or EETSC's Laboratory Quality Manuals. Client may request that EETSC perform according to a mutually agreed Quality Assurance Project Plan (QAPP). If samples arrive prior to agreement on a QAPP, EETSC will proceed with analyses under its standard Quality Manuals then in effect. EETSC will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 EETSC shall start preparation and/or analysis within holding times provided that Sample Delivery Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less,

unless the Client has specifically requested that EETSC hold the samples without preparation or other processing or pending receipt of a purchase order. Where resolution of inconsistencies leading to Sample Delivery Acceptance does not occur within this period, EETSC will use its best efforts to meet holding times and will proceed with the work provided that, in EETSC's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with EETSC's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.

4.3 EETSC warrants that it possesses and maintains all licenses and certifications that are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to EETSC prior to Sample Delivery Acceptance. EETSC will notify the Client in writing of any decertification or revocation of any license, or notice of either, that affects work in progress.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by EETSC in connection with any services performed by EETSC or any results generated from such services, and EETSC gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of EETSC is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Client's sole and exclusive remedy for breach of warranty in connection with any services performed by EETSC will be limited to repeating any services performed, contingent on the Client's providing, at the request of EETSC and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating results consistent with the original results will be at the Client's expense. If resampling is necessary, EETSC's liability for resampling costs will be limited to actual cost or one hundred and fifty dollars (\$150) per sample, whichever is less.

4.6 EETSC's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after EETSC's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall EETSC be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall EETSC have any responsibility or liability to the Client for any failure or delay in performance by EETSC that results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of EETSC. Such causes and circumstances include, but are not limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond EETSC's reasonable control.

## 5. RESULTS, WORK PRODUCT

5.1 Data or information provided to EETSC or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by EETSC of payment for the entire order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by EETSC for performance of work will be retained by EETSC. Client shall not disclose such information to any third party without EETSC's express prior consent.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by EETSC shall be held in confidence

(unless such information is generally available to the public or is in the public domain or Client has failed to pay EETSC for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.

5.3 Should the results delivered by EETSC be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold EETSC's right to independently defend its data.

5.4 EETSC reserves the right to perform the services at any laboratory in the EETSC network. If a Client has requested a particular location for the work, EETSC will inform the Client when operational constraints require the work to be performed at another EETSC location. In addition, EETSC reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in EETSC's sole judgment, it is reasonably necessary, appropriate or advisable to do so. EETSC will in no way be liable for any subcontracted services (outside the EETSC network) except for work performed at laboratories which have been audited and approved by EETSC.

5.5 EETSC will dispose of non-hazardous samples, sample extracts and digestates 30 days after the final analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable federal, state or local requirements. Charges for disposal will be billed to the client. Alternatively, samples can be returned to the client for disposal. Cost of return shipping will be billable to the client. Air samples in Summa canisters and tedlar bags are used and the containers cleaned immediately after testing, such that those samples are not retained. Longer storage periods may be requested and may be accommodated if space allows, and for an additional charge. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at its own expense. EETSC reserves the right to return to the Client any sample or unused portion of a sample that is not within EETSC's permitted capability or the capabilities of EETSC's designated waste disposal vendor(s). ALL DIOXIN, MIXED WASTE, AND RADIOACTIVE SAMPLES WILL BE RETURNED TO THE CLIENT, unless prior arrangements for disposal are made.

5.6 Unless a different time period is agreed to in an order under these Terms and Conditions, EETSC agrees to retain all records for five (5) years.

5.7 If EETSC is required to respond to legal process related to services for Client, Client agrees to reimburse EETSC for hourly charges for personnel involved in the response and attorney's fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation. Additional consulting beyond that normally associated with lab reports will be billed at EETSC's current published rates.

## 6. INSURANCE

6.1 During the performance of services under these Terms and Conditions, EETSC shall maintain in force Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over EETSC's employees who are engaged in the performance of the work. EETSC shall also maintain during such period Comprehensive General and Contractual Liability (limit of \$1,000,000 per occurrence; \$2,000,000 aggregate), Comprehensive Automobile Liability, owned and hired (\$1,000,000 combined single limit), Professional Liability Insurance (limit of \$5,000,000 per claim/aggregate), and Pollution Liability Insurance (limit of \$1,000,000 per claim/aggregate).

## 7. MISCELLANEOUS PROVISIONS

7.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by EETSC, embody the whole agreement of the parties and provide the only remedies available. There are no promises, terms, conditions, understandings, obligations or

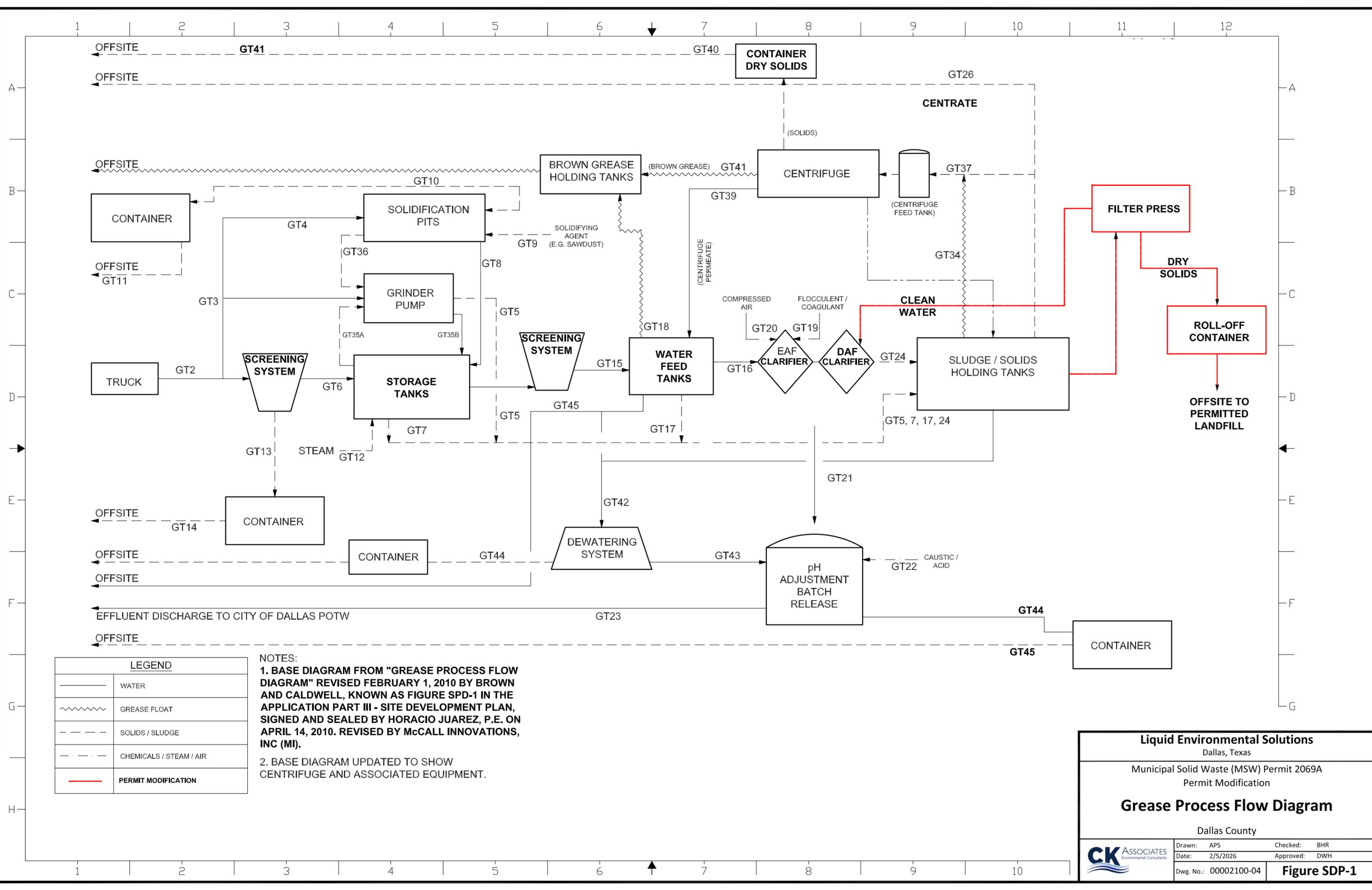
agreements other than those contained herein, and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Client and EETSC. These Terms and Conditions, and any transactions or agreements to which they apply, shall be governed both as to interpretation and performance by the laws of the state where EETSC's services are performed.

7.2 The invalidity or unenforceability, in whole or in part, of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of these Terms and Conditions, the intent of the parties being that the provisions be severable. The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way these Terms and Conditions or their interpretations. No waiver by either party of any provision, term or condition hereof or of any obligation of the other party hereunder shall constitute a waiver of any subsequent breach or other obligation.

7.3 The obligations, liabilities, and remedies of the parties, as provided herein, are exclusive and in lieu of any others available at law or in equity. Indemnifications, releases from liability and limitations of liability shall apply, notwithstanding the fault, negligence or strict liability of the party to be indemnified, released, or whose liability is limited, except to the extent of sole negligence or willful misconduct.

**Attachment C-4**

Part III Figures



LEGEND	
	WATER
	GREASE FLOAT
	SOLIDS / SLUDGE
	CHEMICALS / STEAM / AIR
	PERMIT MODIFICATION

NOTES:  
 1. BASE DIAGRAM FROM "GREASE PROCESS FLOW DIAGRAM" REVISED FEBRUARY 1, 2010 BY BROWN AND CALDWELL, KNOWN AS FIGURE SPD-1 IN THE APPLICATION PART III - SITE DEVELOPMENT PLAN, SIGNED AND SEALED BY HORACIO JUAREZ, P.E. ON APRIL 14, 2010. REVISED BY McCALL INNOVATIONS, INC (MI).  
 2. BASE DIAGRAM UPDATED TO SHOW CENTRIFUGE AND ASSOCIATED EQUIPMENT.

<b>Liquid Environmental Solutions</b> Dallas, Texas	
Municipal Solid Waste (MSW) Permit 2069A Permit Modification	
<b>Grease Process Flow Diagram</b>	
Dallas County	
Drawn: APS	Checked: BHR
Date: 2/5/2026	Approved: DWH
Dwg. No.: 00002100-04	<b>Figure SDP-1</b>

**Attachment C-5**

Part IV Site Operating Plan

**TYPE V MUNICIPAL SOLID WASTE FACILITY TCEQ MSW PERMIT 2069A  
PART IV  
SITE OPERATING PLAN**

For

**LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS, LLC  
Dallas Facility 11115 Goodnight Lane  
Dallas, Texas, 75229**

**CN No. 603229436  
RN No. 103002713**

Prepared by:

**Liquid Environmental Solutions of Texas, LLC 1801 Royal Lane, Suite 500  
Dallas, Texas 75229**

and

**Brown and Caldwell 1100 NE Loop 410, Suite 300  
San Antonio, TX 78209**

**TBPE Reg. #F-2139**

Revised ~~November-March 2017-2026~~ by CK Associates, LLC

~~FM 1960 West, Suite 575, Houston, TX 77090~~

**TBPE #F-9268**

## 1. Introduction

Liquid Environmental Solutions of Texas, LLC (LES) is in the business of processing certain non-hazardous liquid wastes. The Dallas LES Facility processes grease trap/food-related and grit trap waste streams. The facility is designed to separate and process the waste streams received into recyclable components, water suitable for discharge into the sanitary sewer system and solid materials for appropriate disposal. The acceptance and processing of these waste requires a Type V Municipal Solid Waste (MSW) Permit and the LES Dallas facility holds MSW Permit 2069A. The purpose of this permit modification request is to: allow an alternative buffer zone at the LES – Dallas Facility; update the permit to make modifications previously authorized under a Temporary Authorization; make minor equipment changes.

### Buffer Zone

Per 30 TAC 330.543(b)(1), a minimum separating distance of 50 feet between solid waste storage/process units within and adjacent to the facility boundary on property owned or controlled by the owner/operator is required. The buffer zone shall not be narrower than necessary to provide for safe passage for fire fighting equipment and other emergency vehicles. LES has historically met this 50-foot buffer requirement along the south and west boundaries of the site by leasing land adjacent to its property boundary. The lease expires on June 30, 2026. LES believes that the lessor of the land may not renew the lease.

Therefore, one objective of this modification is to authorize an alternative to the buffer zone requirement in 30 TAC 330.543(b)(1). To support the amendment, LES met with the Dallas Fire Department (DFD) on August 20, 2025, to review the facility layout and allow DFD personnel to assess whether more than sufficient access for fire fighting or other emergency response would be available without the required 50-foot buffer. The layout reviewed by the DFD differs from the layout currently reflected in the permit; however, the version provided to the DFD was prepared for the specific purpose of evaluating emergency access and does not alter any operational or functional aspects relevant to the modification request. Following their review, the DFD determined that more than sufficient access is available without the buffer as long as pathways are maintained, regardless of the tank or equipment configuration, as documented in the Existing Fire Department Access Plan stamped by the DFD on September 10, 2025. A copy of this plan is provided as **Attachment A**.

### Temporary Authorization Changes

This modification brings the permit up to date with changes made previously under a Temporary Authorization that was initially approved by the TCEQ on March 26, 2018 (see Tracking No. 22566826). These changes included the addition of a filter press and a lime storage tank which better equipped the facility to meet the limits of the City of Dallas Pre-Treatment Permit.

## Equipment Changes

This modification updates the equipment list and addresses upgrades to the secondary containment system.

~~bring the permit up to date with changes made previously under Temporary Authorization Approvals as noted below and propose changes to the current permit for improvements necessary to improve operations.~~

~~Add equipment authorized under Temporary Authorization dated November 7, 2008 to the Facility MSW Permit. This equipment is for processing of Brown Grease.~~

~~Centrifuge and decanter.~~

~~Heating Tank.~~

~~Ancillary Process Piping.~~

~~Addition of a 20 Cubic Yard Rolloff Container authorized under Temporary Authorization dated April 12, 2013.~~

~~Replacement of an existing 10,000-gallon storage tank with an 18,000-gallon tank authorized under Temporary Authorization dated July 2, 2014.~~

~~Addition of 2 entrapped air flotation tanks to the facility process flow in order to better removed entrained oil and grease from the wastewater.~~

This permit application submittal retains the previous permit documents and only those additions that are changed within this ~~November 2017~~March 2026 revision are being submitted as Permit Revision ~~1617~~.

This SOP contains information about how LES will conduct operations at its Dallas, Texas facility. The SOP represents the general instruction for facility management and personnel to operate the facility in a manner consistent with the approved design and the regulatory requirements to protect human health and the environment and prevent nuisances. The SOP is Part IV of the MSW permit/registration application and consists of the information required by Title 30, Texas Administrative Code (TAC), Chapter 330, Subchapter E: Operational Standards for Municipal Solid Waste Storage and Processing Units, 30 TAC §330.201–§330.249. At a minimum, the SOP must include provisions for facility management and operating personnel to meet the general and site-specific requirements.

**Table SOP-1: Revision history for MSW Permit No. 2069**

Date	Site Operating Plan	Site Development Plan	Waste Acceptance and Analysis Plan (WAAP)	Permit Edition
6/1/1987	Original	-	-	Original
3/30/1988	Revision 1	-	-	Revision 1
3/19/1989	Revision 2	-	-	Revision 2
5/1991	-	Original (Old)	-	Revision 3
9/1991	-	Revision 1	-	Revision 4
5/18/1999	Revision 3	-	-	Revision 5
8/24/2003	Revision 4	Revision 2	Original	Revision 6
2/2/2004	Revision 5	Revision 3	Revision 1	Revision 7
6/25/2004	Revision 6	Revision 4	Revision 2	Revision 8
2/1/2005	Revision 7	Revision 5	-	Revision 9
4/5/2005	Revision 8	Revision 6	-	Revision 10
8/5/2005	Revision 9	Revision 7	-	Revision 11
11/27/2006	-	Original (New)	-	Revision 12
6/8/2007	-	Revision 1	-	Revision 13
5/30/2008	Revision 10	Revision 2	Revision 3	Revision 14
11/2012	Revision 11	Revision 3	Revision 4	Revision 15
11/2017	Revision 12	Revision 4	Revision 5	Revision 16
<u>02/2026</u>	<u>Revision 12</u>	<u>Revision 5</u>		<u>Revision 17</u>

Equipment List  
 Revised ~~November 2017~~ March 2026

Equipment Type	Number (Minimum)	Location on Facility Map	Typical Size <sup>1</sup>	Function	MOC <sup>2</sup>	Vents	Covers	Enclosure Area <sup>3</sup>	Protective Coatings
Processing Tanks	1	3	15,000 gallons	Grease Trap Treatment	minimum 3/16 carbon steel	fixed roof vented	No, Indoors	A	Painted
Dissolved Air Floatation	1	46	6'x 4'x 4' deep	Grit Trap Treatment	stainless steel	NA	No	A	No
Entrapped Air Flotation <sup>6</sup>	2	EAF 1, EAF 2	25x6.5x6.5 20x5x5	Grease Trap Treatment	Stainless steel	NA	Indoors	B	No
Storage Tank	1	42	108,000 gallons	Bar Screen Offload Tank	Stainless Steel	NA	Indoors	B	No
Vibrating Screens	1	39	up to 5 hp	Grease Trap Treatment	stainless steel	NA	Indoors	B	No
Settling Pits	2	52, 53	10,000 gallons	Grit Trap Treatment	Concrete	NA	No	C	No
Grit Processing AST	1	31	20,300 gallons	Grit Trap Treatment	minimum 3/16 carbon steel	fixed roof vented	No	D	Painted
Grit Processing AST	1	34	24,000 gallons	Grit Trap Treatment	Fiber- reinforced plastic (FRP)	fixed roof vented	No	A	Painted
Grit Processing AST	1	32	<del>8,200</del> 18,000 gallons	Grit Trap Treatment	minimum 3/16 carbon steel	fixed roof vented	No	E	Painted
Yellow Grease Processing	1	12	6,000 gallons	Yellow Grease Processing	minimum 3/16 carbon steel	fixed roof vented	No	A	Painted
Debris Screening Unit	1	56	up to 400 gpm	Preliminary Waste Processing	Stainless steel	NA	No	A	No
Grinder Pump	1		up to 350 gpm	Preliminary Waste Processing	minimum carbon steel	NA	No	A	No
Centrifuge <sup>5</sup>	1	54	up to 175 gpm	Brown Grease Recovery	Stainless steel	NA	Enclosure	A	No
Centrifuge Feed Tank <sup>5</sup>	1	55	10,000 gal	Centrifuge Feed System	minimum 3/16 carbon steel	fixed roof vented	No	A	Insulated

Notes:

1. Size indicated is for each unit.
2. Primary material of construction.

3. See Facility Map for Enclosure Area Locations
4. Base Table from "Generalized Construction Details – Process Units"

5. Base Table updated to show Centrifuge and Centrifuge Tank Information
6. Base Table updated to show EAF 1, EAF 2, and Tank 42 Information.

Equipment List  
 Revised ~~November 2017~~ March 2026

Equipment Type	Number (Minimum)	Location on Facility Map	Typical Size <sup>1</sup>	Function	MOC <sup>2</sup>	Covers
Diaphragm Pumps	3		0.5", 1 gph	Odor Control	Aluminum and Steel	No
Atomizing Nozzle	1		0.5"	Odor Control	NA	No
Misting Fan	2		1/3 hp		NA	No
Odor Control Scrubber	1	35	8,000 gallons	Air Scrubber Vent Tank	Steel	No
Odor Control Scrubber	1	36	2,000 gallons	Scrubber Intake Tank	Steel/ SS	No
Vacuum Tank	1	50	3,000 gallons	Various	Minimum 3/16 Carbon Steel	No
Poly Tanks	1	6	550 gallons	Transfer	Polycarbonate	Indoors
Squirrel Cage Fan	1	37	5' dia., 30 hp	Odor Control Scrubber	SS	Indoors
Chemical Diaphragm Pump	6		0.5"	Scrubber, Process Chemical and Boiler Chemical Feed	Thermoplastic and SS	Indoors
Centrifugal Pump	2		2.5 hp	Scrubber Recirculation Pump	Minimum Gray Iron	No
Front Loader Tractor	1		2 cu yd bucket	Material Handling	NA	No
Forklift	1		3,700 lbs	Material Lifting	NA	Indoors
Air Compressor	1	48	50 hp min.	Facility Main Air Supply	NA	
Steam Boiler	1	43	350 hp, 150 psi	In-Tank Material Heating	NA	Indoors
Boiler Tank	1	44	500 gallons	Boiler Feed Water System	Steel/ SS	Indoors
Water Softener System	1	45	14 gpm	Boiler Feed Water System	NA	Indoors
Diaphragm Pump	3		3"	Press Sludge Feed/ Precoat/ Sludge Conditioning and Transferring	Aluminum and Steel	Indoors and Outdoors
Diaphragm Pump	3		2"	Water Effluent/ Sumps	Aluminum and Steel	Indoors and Outdoors
Mixer with Blade Prop	1		3/4 hp	Sludge Conditioning	NA	No
Centrifugal Pump	2		10 hp	Material Transfer Pump	Minimum Gray Iron	Indoors and Outdoors

Notes:

1. Size indicated is for each unit.      3. See Facility Map for Enclosure Area Locations      5. Base Table updated to show Centrifuge and Centrifuge Tank Information  
 2. Primary material of construction.      4. Base Table from "Generalized Construction Details – Process Units"      6. Base Table updated to show EAF 1, EAF 2, and Tank 42 Information.

Equipment List

Centrifugal Pump	1		25 hp	Material Transfer Pump	Minimum Gray Iron	Indoors and Outdoors
Vacuum Equipment	1		30 hp	Offload/ Material Transfer Vacuum Pump	NA	No
Screw Auger	1		15 hp	Solids Conveyance, Screens/Centrifuges to roll off box	SS	Indoors

~~Revised November 2017~~ March 2026

~~Equipment List~~

~~Revised November 2017~~

Equipment Type	Number (Minimum)	Location on Facility Map	Typical Size <sup>1</sup>	Function	MOC <sup>2</sup>	Covers
<u>Centrifugal Pump</u>	<u>1</u>		<u>25 hp</u>	<u>Material Transfer Pump</u>	<u>Minimum Gray Iron</u>	<u>Indoors and Outdoors</u>
<u>Vacuum Equipment</u>	<u>1</u>		<u>30 hp</u>	<u>Offload/ Material Transfer Vacuum Pump</u>	<u>NA</u>	<u>No</u>
<u>Screw Auger</u>	<u>1</u>		<u>15 hp</u>	<u>Solids Conveyance, Screens/Centrifuges to roll off box</u>	<u>SS</u>	<u>Indoors</u>
Diaphragm Pump	3		1' - 1.5"	Lime Feed to pH Mix Tank	NA	No
Mixer	1		0.25 hp	Lime Tank Mixer for pH Mix Tank	NA	No
Polyblend Unit	2		60 gph	Polymer Feed for pH Mix Tank	Thermoplastic and SS	Indoors
Centrifugal Pump	3		3 - 5 hp	Material Transfer Pump	Minimum Gray Iron	Indoors and Outdoors
Sump Pump	3		125 gpm	Pit Drain Pump	NA	Indoors and Outdoors
Flow Meter - Grit Trap Process Discharge	1		Transit Time	Discharge Flow Measurement	NA	No
Flow Meter - Grease Trap Process Discharge	1		Doppler	Discharge Flow Measurement	NA	No
Pressure Washer	1		Portable	Cold Water Wash-Down Unit	NA	
<u>Polymer Tote</u>	<u>1</u>	<u>15</u>	<u>360 gal</u>	<u>Chemical Storage</u>	<u>NA</u>	<u>No</u>
<u>Polymer Tote</u>	<u>1</u>	<u>24</u>	<u>275 gal</u>	<u>Treatment</u>	<u>HDPE</u>	<u>Indoors</u>
<u>Storage Tank</u>	<u>1</u>	<u>59</u>	<u>6,150</u>	<u>Lime Tank</u>	<u>NA</u>	<u>No</u>
<u>Filter Press</u>	<u>1</u>	<u>60</u>	<u>750 gal</u>	<u>Filter Press</u>	<u>NA</u>	<u>No</u>
<u>Sodium Hydroxide Tank</u>	<u>1</u>	<u>5</u>	<u>2,500 gal</u>	<u>Chemical Storage</u>	<u>NA</u>	<u>Indoors</u>
<u>Storage Tank</u>	<u>1</u>	<u>8</u>	<u>10,000 gal</u>	<u>Wastewater Sludge Holding</u>	<u>Steel</u>	<u>No</u>
<u>Storage Tank</u>	<u>1</u>	<u>10</u>	<u>10,000 gal</u>	<u>Wastewater Sludge Holding</u>	<u>Steel</u>	<u>No</u>

<a href="#">Storage Tank</a>	<a href="#">1</a>	<a href="#">11</a>	<a href="#">10,000 gal</a>	<a href="#">Yellow Grease Finished Product Storage</a>	<a href="#">Steel</a>	<a href="#">No</a>
<a href="#">Storage Tank</a>	<a href="#">1</a>	<a href="#">13</a>	<a href="#">6,000 gal</a>	<a href="#">Yellow Grease Offload</a>	<a href="#">Steel</a>	<a href="#">No</a>
<a href="#">Storage Tank</a>	<a href="#">1</a>	<a href="#">14</a>	<a href="#">10,000 gal</a>	<a href="#">Brown Grease Storage</a>	<a href="#">Steel</a>	<a href="#">No</a>
<a href="#">Storage Tank</a>	<a href="#">1</a>	<a href="#">17</a>	<a href="#">24,000 gal</a>	<a href="#">Offloading/Wastewater/Sludge Holding</a>	<a href="#">Steel</a>	<a href="#">No</a>
<a href="#">Storage Tank</a>	<a href="#">1</a>	<a href="#">18</a>	<a href="#">18,000 gal</a>	<a href="#">Offloading/Wastewater/Sludge Holding</a>	<a href="#">Steel</a>	<a href="#">No</a>

**Notes:**

- |  |   |  |
|--|---|--|
| <a href="#">1. Size indicated is for each unit.</a>  | <a href="#">3. See Facility Map for Enclosure Area Locations</a>                      | <a href="#">5. Base Table updated to show Centrifuge and Centrifuge Tank Information</a> |
| <a href="#">2. Primary material of construction.</a> | <a href="#">4. Base Table from “Generalized Construction Details – Process Units”</a> | <a href="#">6. Base Table updated to show EAF 1, EAF 2, and Tank 42 Information.</a>     |



Closure Cost Estimate

LES Dallas Facility ~~November 2017~~ February 2026

Revised February 22, 2010 (Brown and Caldwell) Revised October 22, 2012 (DBS&A)<sup>7</sup> Revised November 2012 (DBS&A) Revised November 2017 (CK-LLC)

Item Number	Tank ID	Capacity (gal)	Contents	Total Gallons – disposal	Cost per Gallon (\$/gal) <sup>1, 3</sup>	Tank Contents	Estimated Disposal Cost
EAF1	EAF Unit	11,500	Grease Trap Treatment	11,500	<del>\$0.62</del> \$0.33	on ground	<del>\$7,130</del> \$3,795
EAF2	EAF Unit	6,000	Grease Trap Treatment	6,000	<del>\$0.62</del> \$0.33	on ground	<del>\$3,720</del> \$1,980
3	Processing Tank	15,000	Grease Trap Treatment	15,000	<del>\$0.62</del> \$0.33	on ground	<del>\$9,300</del> \$4,950
5	Storage Tank	2,500	Chemical Storage	2,500	<del>\$5.43</del> \$1.78	on ground	<del>\$13,581</del> \$4,450
6	Poly Tank	550	Transfer Tank	550	<del>\$0.62</del> \$0.33	on ground	<del>\$341</del> \$182
8	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	<del>\$0.62</del> \$0.33	on ground	<del>\$6,200</del> \$3,300
10	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	<del>\$0.62</del> \$0.33	on ground	<del>\$6,200</del> \$3,300
11	Storage Tank	10,000	Yellow Grease Finished Product	10,000	<del>\$0.62</del> \$0.18	on ground	<del>\$6,200</del> \$1,800
12	Processing Tank	6,000	Yellow Grease Processing & Offload	6,000	<del>\$0.62</del> \$0.18	elevated	<del>\$3,720</del> \$1,080
13	Storage Tank	6,000	Yellow Grease Offload	6,000	<del>\$0.62</del> \$0.18	elevated	<del>\$3,720</del> \$1,080
14	Storage Tank	10,000	Brown Grease Storage	10,000	<del>\$0.62</del> \$0.18	on ground	<del>\$6,200</del> \$1,800
15	Polymer Tote	360	Chemical Storage	360	\$1.73	on ground	\$622
17	Storage Tank	<del>18,000</del> 24,000	Offloading/Wastewater/Sludge Holding	<del>18,000</del> 24,000	<del>\$0.62</del> \$0.18	elevated	<del>\$14,880</del> \$3,240
18	Storage Tank	18,000	Offloading/Wastewater/Sludge Holding	18,000	<del>\$0.62</del> \$0.18	elevated	<del>\$11,160</del> \$3,240
19	Storage Tank	8,000	Wastewater or Sludge Holding	8,000	<del>\$0.62</del> \$0.18	elevated	<del>\$4,960</del> \$1,440
20	Storage Tank	<del>20,000</del> 18,000	Offloading/Wastewater/Sludge Holding	<del>20,000</del> 18,000	<del>\$0.62</del> \$0.18	elevated	<del>\$11,160</del> \$3,600
21	Storage Tank	10,000	Brown Grease Storage	10,000	<del>\$0.62</del> \$0.18	on ground	<del>\$6,200</del> \$1,800
22	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	<del>\$0.33</del>	on ground	<del>\$6,200</del> \$3,300
23	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	<del>\$0.62</del> \$0.33	on ground	<del>\$171</del> \$3,300
24	Polymer Tote Storage Tank	<del>275</del> 10,000	Storage Wastewater or Sludge Holding	<del>275</del> 10,000	<del>\$0.62</del> \$0.33	On Ground on ground	<del>\$7,750</del> \$3,300

25	Storage Tank	<del>10,000</del> <u>12,500</u>	Wastewater or Sludge Holding	<del>10,000</del> <u>12,500</u>	<del>\$0.62</del> <del>\$0.33</del>	on ground	<del>\$12,586</del> <del>\$3,300</del>
<del>27</del>	<del>Storage Tank</del>	<del>16,500</del>	<del>Wastewater or Sludge Holding</del>	<del>16,500</del>	<del>\$0.62</del> <del>\$0.33</del>	<del>on ground</del>	<del>\$7,130</del> <del>\$5,445</del>
31	Grit Processing AST	20,300	Grit Trap Treatment	20,300	<del>\$0.62</del> <del>\$0.33</del>	on ground	<del>\$3,720</del> <del>\$6,699</del>
32	Grit Processing AST	<del>8,200</del> <u>18,000</u>	Grit Trap Treatment	<del>8,200</del> <u>18,000</u>	<del>\$0.62</del> <del>\$0.33</del>	elevated	<del>\$11,160</del> <del>\$2,706</del>
33	Storage Tank	12,000	Wastewater or Sludge Holding	12,000	<del>\$0.62</del> <del>\$0.18</del>	on ground	<del>\$7,440</del> <del>\$2,160</del>
34	Grit Processing AST	24,000	Grit Trap Treatment	24,000	<del>\$0.62</del> <del>\$0.33</del>	on ground	<del>\$14,880</del> <del>\$7,920</del>
35	Odor Control Scrubber	8,000	Air Scrubber Vent Tank	8,000	<del>\$0.62</del> <del>\$0.33</del>	on ground	<del>\$4,960</del> <del>\$2,640</del>
36	Odor Control Scrubber	2,000	Scrubber Intake Tank	2,000	<del>\$0.62</del> <del>\$0.33</del>	on ground	<del>\$1,240</del> <del>\$660</del>
42	Storage Tank	<del>180,000</del>	Bar Screen Offload Tank	<del>180,000</del>	<del>\$0.62</del> <del>\$0.33</del>	on ground	<del>\$6,200</del> <del>\$5,940</del>
50	Vacuum Tank	3,000	Various	3,000	<del>\$0.62</del> <del>\$0.33</del>	on ground	<del>\$1,860</del> <del>\$990</del>
52	Settling Pit	10,000	Solidification	10,000	<del>\$0.62</del> <del>\$0.33</del>	on ground	<del>\$6,200</del> <del>\$3,300</del>
53	Settling Pit	10,000	Solidification	10,000	<del>\$0.62</del> <del>\$0.33</del>	on ground	<del>\$6,200</del> <del>\$3,300</del>
55	Centrifuge Feed Tank	10,000	Sludge Holding	10,000	<del>\$0.62</del> <del>\$0.33</del>	on ground	<del>\$6,200</del> <del>\$3,300</del>
<del>59</del>	<del>Storage Tank</del>	<del>6,150</del>	<del>Lime Tank</del>	<del>6,150</del>	<del>\$6.61</del>	<del>On Ground</del>	<del>\$40,657</del>
<del>60</del>	<del>Filter Press</del>	<del>750</del>	<del>Filter Press</del>	<del>750</del>	<del>\$0.17</del>	<del>Elevated</del>	<del>\$131</del>
<del>57</del>	<del>Storage Tank</del>	<del>3,500</del>	<del>Bar Screen Offload Tank</del>	<del>3,500</del>	<del>\$0.33</del>	<del>on ground</del>	<del>\$1,155</del>
Summary				<del>322,885</del> <u>47,050</u>		T&D Cost	<del>\$100,452</del> <u>24,919</u>
<b>Tank Cleaning Project Management and Contingency</b>							
	Tank Cleaning Services <sup>3</sup>	<del>330,000</del> <u>600,600</u>	gallons @ a rate of 0. <del>33138</del> /gallon avg. <sup>2</sup>				<del>\$45,547</del> <u>99,198</u>
	Sampling <sup>4</sup>						\$4,000
	Analytical <sup>5</sup>						<del>\$1,230</del> <u>2,000</u>
Project Management, HSP, Work Plan <sup>6</sup>						15%	<del>\$15,068</del> <u>37,369</u>
Contingency						15%	<del>\$15,068</del> <u>37,369</u>
Total Estimated Closure Cost							<del>\$428,295</del> <u>182,135</u>

## Notes:

Revised ~~August 2017~~ February 2026 based on current disposal rates (see invoice copies)

<sup>1</sup> These unit transportation and disposal (T&D) costs are representative of the cost to contract an outside disposal company to remove the tank contents and transport them for disposal/recycling to a facility licensed for disposal wastes.

<sup>2</sup> An ~~Costs provided by HydroTex Excavation for tank cleaning based on invoices received from client. Environmental Filed Services Contractor quoted \$4500/day for tank cleaning based on existing tanks at the site. They estimated that it would take approximately 2.5 day's per tank, based on the average tank size of 13,000 gallons per tank, it is calculated that the average cost per tank gallon for cleaning is \$0.138/gallon.~~

<sup>3</sup> Costs provided by ~~ALAMO 1~~ [Republic Waste Services](#) for waste removal and site cleaning. Any tank that contains sludge or grit inside the tank, the cost is approximately \$0.5736/gallon. ~~This is based on information received from Alamo 1 and Hidalgo cost estimates.~~

<sup>4</sup> ~~Sampling costs are estimated for four surface samples as per closure plan. Estimate for sampling and will be included in the Closure Plan.~~

<sup>5</sup> Analytical costs for samples provided by ~~Eurofins. TestAmerica Laboratories Inc.~~

<sup>6</sup> Estimate for engineering associated with closure, including certification of closure report, health and safety plan and work plan.

Base cost estimate from "Opinion of Probable Closure Costs - LES Dallas facility" revised February 22, 2010 by Brown and Caldwell, known as Opinion of Probable Closure Costs - LES Dallas Facility in the Application Part III - Site Development Plan, signed and sealed by Horacio Juarez, P.E. on April 14, 2010.

This is consistent with November 2012 submittal



## Attachment SDP-4: Secondary Containment Calculations

### Methodology

Secondary containment calculations were prepared for the five containment areas shown on Figure 1 (Area A through Area E). The Tank Farm Area was subdivided into Areas A1 through ~~A10~~ ~~A11~~ to better represent existing grade at the site and corresponding differences in surrounding containment curbs. The calculations provided are based on the rule found in 30 Texas Administrative Code (TAC) Chapter 330 Part §330.63(D). This section of the rule requires that “secondary containment be designed to control and contain a worst-case spill or release”. These secondary containment calculations take into account the volume of the largest tank or, where 10 percent of the total storage tank capacity within a containment area exceeds the total capacity of the largest tank, this volume is used for the design tank containment volume,  $V_{\text{tank}}$ . These calculations also take into account precipitation from a 25-year, 24-hour rainfall event (design storm),  $V_{\text{precip}}$ . Precipitation for each containment area is calculated using equation 1:

$$V_{\text{precip}} = A_{\text{cont}} * i \quad (\text{Eqn. 1})$$

where  $V_{\text{precip}}$  = volume of precipitation

$A_{\text{cont}}$  = total containment area

$i$  = depth of precipitation for the design storm

The total required secondary containment,  $V_{\text{SC-req}}$ , is the sum of precipitation from the design storm and the capacity of the largest tank, as shown in equation 2:

$$V_{\text{SC-req}} = V_{\text{precip}} + V_{\text{tank}} \quad (\text{Eqn. 2})$$

Available secondary containment is based on the open containment area,  $A_{\text{open}}$ , found by subtracting the footprint of any equipment located on the ground,  $A_{\text{equip}}$ , from the total containment area,  $A_{\text{cont}}$ , as shown in equation 3:

$$A_{\text{open}} = A_{\text{cont}} - A_{\text{equip}} \quad (\text{Eqn. 3})$$

Attachment  
SDP-4-1



The secondary containment volume,  $V_{SC-exist}$ , is determined by multiplying the open containment area,  $A_{open}$ , by the average height of the containment curb or wall,  $h_{cont}$ , and adding in additional containment storage,  $V_{add}$ , such as sump volume or hydraulic pass-through into other containment areas, as shown in equation 4:

$$V_{SC-exist} = A_{open} * h_{cont} + V_{add} \quad (\text{Eqn. 4})$$

Available containment can then be compared to the required secondary containment to determine whether a deficiency exists, and engineered solutions can be proposed to eliminate the deficiency. When a containment surplus is found, the available freeboard,  $h_{FB}$ , or the height from the top of the design containment water surface to the top of the containment wall, can be calculated based on the available open containment area, as shown in equation 5:

$$h_{FB} = ( V_{SC-exist} - V_{SC-req} ) / A_{open} \quad (\text{Eqn. 5})$$

### Sample Calculation

A sample calculation for Grit Trap Treatment Area D is provided below, with calculations for all containment areas summarized in attached tables.

According to data from *Atlas of Depth-Duration Frequency of Precipitation Annual Maxima for Texas*, a collaboration between the United States Geological Survey and the Texas Department of Transportation (June 2004), a 25-year, 24-hour storm event at the site produces approximately 7.25 inches of rainfall. Containment Area D has dimensions of approximately 20 feet by 23 feet for a total containment area,  $A_{cont}$ , of approximately 460 square feet ( $ft^2$ ). The volume of precipitation is calculated using equation 1:

$$V_{precip} = A_{cont} * i = 460 \text{ ft}^2 * 7.25 \text{ in} * (\text{ft}/12 \text{ in}) * (7.48 \text{ gallons} / \text{ft}^3) \quad (\text{Eqn. 1})$$

$$V_{precip} = 2,079 \text{ gallons}$$



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*Daniel B. Stephens & Associates, Inc.*

Attachment SDP-4-2



There is a single storage tank found on the ground within the containment area with a tank capacity,  $V_{\text{tank}}$ , of 20,300 gallons. The total required secondary containment is calculated using equation 2:

$$V_{\text{SC-req}} = V_{\text{precip}} + V_{\text{tank}} = 2,079 \text{ gallons} + 20,300 \text{ gallons} \quad (\text{Eqn. 2})$$

$$V_{\text{SC-req}} = 22,379 \text{ gallons}$$

As shown on the attached equipment schedule, the single storage tank diameter is elevated 13 feet, resulting in a footprint area,  $A_{\text{equip}}$ , of 0133 ft<sup>2</sup>. The open containment area can be calculated using equation 3:

$$A_{\text{open}} = A_{\text{cont}} - A_{\text{equip}} = 460 \text{ ft}^2 - \text{0133} \text{ ft}^2 \quad (\text{Eqn. 3})$$

$$A_{\text{open}} = \text{460327} \text{ ft}^2$$

The containment wall height in this containment area,  $h_{\text{cont}}$ , is 83 inches (6.9 feet). Area D also utilizes a weir-type flow-through located near the top of the north wall that allows Area E to be used as additional containment capacity in the event of a release in Area D. This additional capacity,  $V_{\text{add}}$ , is 42,19613,464 gallons. The total existing available containment capacity is then calculated using equation 4:

$$V_{\text{SC-exist}} = A_{\text{open}} * h_{\text{cont}} + V_{\text{add}} \quad (\text{Eqn. 4})$$

$$V_{\text{SC-exist}} = ( \text{460327} \text{ ft}^2 * 83 \text{ inches} * [\text{ft}/12 \text{ in}] ) * (7.48 \text{ gallons} / \text{ft}^3) + \text{42,19613,464}$$

gallons

$$V_{\text{SC-exist}} = \text{29,12937,263} \text{ gallons}$$

Comparing the required to the available secondary containment shows that a surplus exists in Area D of approximately 6,75014,884 gallons. Based on this calculated surplus, determine the approximate freeboard. Due to additional containment used in Area E, freeboard will be based on the open area in Area E,  $A_{\text{open}} = \text{287400}$  ft<sup>2</sup>. Using equation 5:



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*Daniel B. Stephens & Associates, Inc.*

Attachment SDP-4-3



Daniel B. Stephens & Associates, Inc.

$$h_{FB} = ( 29,129 \text{ gallons} - 22,379 \text{ gallons} ) / ( 7.48 \text{ gallons} / \text{ft}^3 ) / \underline{287,400} \text{ ft}^2 * ( 12 \text{ in/ft} ) \text{ (Eqn. 5)}$$

$$h_{FB} = 38 \text{ inches}$$

Secondary containment calculations are summarized in the table below:

**Secondary Containment Calculation Summary**

Area	Containment Area Description	Additional Containment Height (inches)	Containment Capacity (gallons)			Modified Freeboard (inches)
			Existing	Required	Modified	
A & E	Tank Farm & Storage Tank 32	30	43,6076 5,063	53,58962 ,240	53,608	0.0037
B	Process Building	0	15,2651 5,382	10,00011 ,500	15,265	1.80.009 1
C	Paved Truck Offloading	0	52,6904	37,61841 ,616	52,694	3.50.017 6
D	Storage Tank 31	0	29,1293 5,995	22,37922 ,379	29,129	380.329 8
E	<del>Storage Tank 32</del>	0	12,1966 5,063	10,00862 ,240	12,196	12

## Secondary Containment Information

The permit modification request is submitted to add a filter press and lime storage tank at the facility. The units will be located upon a new concrete pad which is depicted in SDP-4, Figure 1 of this Application. SDP-4, Figure 1 also depicts the sub-areas within Secondary Containment Area A used to calculate overall secondary containment.

The concrete has been constructed so that all storm water from the new pad (Area A11) will flow toward the existing Area A, specifically Area A1, via a concrete cut-out and eight 1-inch drain holes. Area A1 is 12 inches below grade of the new area A11.

Area E is now connected to Area A1 via a four ft wide cut in the wall on the eastern side of Area E's containment. This ensures that any excess gallons in Area E's containment will be able to flow into Area A for additional containment. A pump is available to pump out Area E after a rainfall and/or release event.

Cutting out the concrete wall and adding eight 1-inch drain holes to Area A1 reduces the existing containment wall height to 12 inches, which is six inches lower than the modified wall height as shown in the Summary of Secondary Containment Calculations of this Attachment. The modification reduces the storage capacity below the requirements to maintain containment for the largest tank plus the 24-hour, 25-year storm for the following areas: A1, A2, A3, A5, A7, A8, A9, and E. Additionally, the 2-inch roll over berm in the new area (A11) is insufficient to contain release from filter press and the 24-hour, 25-year storm. Therefore, additional containment capacity is provided via an automated sump pump, located in A1, additional tank storage capacity on site (wastewater processing system), and the Dissolved Air Flotation (DAF) processing unit.

The sump pump is double diaphragm pneumatic pump operated based on water level in the sump and is capable of pumping 150 gallons per minute (gpm). Water is pumped from the sump to a series of tanks, which is then routed to the DAF processing unit that can treat up to 350 gpm. The DAF processing unit is an automated system based on level control within the series of tanks.

In order to determine if adequate storage capacity is provided, the containment area was modeled using rainfall intensity obtained from the Soil Conservation Service (SCS) Type III Unit Hydrograph, assuming a 24-hour, 25-year design storm of 7.25 inches. As shown in the Summary of Secondary Containment Calculations, assuming an instantaneous release from the largest tank in area A (24,000 gallons) during the maximum rainfall intensity (4.67 inch per hour), the 150 gpm pneumatic sump pump located in Area A1 can to maintain sufficient pumping capacity to prevent a release from overtopping the 12-inch containment wall located in Area A. The maximum volume required for containment during the storm is 62,240 gallons, which is below the total containment capacity (65,485 gallons) of Areas A and E as modified as part of this permit modification.

**Summary of Secondary Containment Calculations**

Liquid Environmental Solutions, Dallas Facility

Area:	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	E	Total A&E	B	C	D
Containment area (ft <sup>2</sup> )	1,888	342	198	84	260	1,508	40	630	800	714	2500	400	9,364	5,100	6,996	460
Open containment area (ft <sup>2</sup> )	1,838	342	148	84	260	1,172	40	529	750	477	2421	400	8,462	4,775	6,996	460
Existing containment height (in)	12	19	15	15	15	9	15	10.5	12	10.5	6	54	(varies)	5	12	83
-																
Maximum tank volume (gal)	24,000	12,000	10,000	-	-	15,000	-	12,500	18,000	24,000	6,150	18,000	24,000	11,500	10,000	20,300
Total tank volume (gal)	62,000	12,000	10,000	-	-	47,000	-	40,500	28,000	24,700	7,260	231,460	13,325	20,000	20,300	18,000
-																
Design tank containment volume (gal)	24,000	12,000	10,000	-	-	15,000	-	12,500	18,000	24,000	6,150	18,000	24,000	11,500	10,000	20,300
Design precipitation (gal)	8,305	1,546	669	380	-	5,296	181	2,393	3,389	2,156	10,943	1,808	38,240	-	31,616	2,079
Total containment required (gal)	-	-	-	-	-	-	-	-	-	-	-	19,808	62,240	11,500	41,616	22,379
-																
Existing containment available (gal)	13,746	4,050	1,384	785	2,431	6,575	374	3,465	5,610	3,122	9,056	13,464	64,063	14,882	52,330	23,799
Additional containment (gal)	711	-	-	-	-	711	-	-	-	-	-	43	1,422	500	360	13,464
Total containment capacity (gal)	14,457	4,050	1,384	785	2,431	7,286	374	3,465	5,610	3,122	9,056	13,464	65,485	15,382	52,690	37,263
Existing containment deficiency (gal)	-											0	0	0	0	

Notes / Assumptions:

- Area A5 is covered. Precipitation will drain off-site, outside containment Area A.
- Tank 35 in Area A6 contains vapor (not fluid), which does not require secondary containment.

Conversions

7.25 inches, 25-year 24-hour design storm  
7.48 gallons per cubic foot

Area:	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	Total-A	B	C	D	E	
Containment area (ft <sup>2</sup> )	1,888	342	198	84	260	1,508	40	630	800	714	6,464	5,100	6,996	460	400	
Open containment area (ft <sup>2</sup> )	1,737	229	148	84	260	1,172	40	451	750	477	5,348	4,737	6,996	327	287	
Existing containment height (in)	15	19	15	15	15	9	15	10.5	12	10.5	(varies)	5	12	83	54	
-																
Maximum tank volume (gal)	20,000	12,000	10,000	-	-	15,000	-	10,000	20,000	24,000	24,000	10,000	6,000	20,300	8,200	
Total tank volume (gal)	96,000	12,000	10,000	-	-	39,000	-	38,000	33,000	27,500	255,500	24,150	6,000	20,300	8,200	
-																
Design tank containment volume (gal)	20,000	12,000	10,000	0	0	15,000	0	10,000	20,000	24,000	25,550	10,000	6,000	20,300	8,200	
Design precipitation (gal)	8,533	1,546	895	380	-	6,815	181	2,847	3,616	3,227	28,039	-	31,618	2,079	1,808	
Total containment required (gal)	-											53,589	10,000	37,618	22,379	10,008

Existing containment available (gal)	16,244	2,711	1,381	785	2,431	6,577	374	2,952	5,608	3,122	42,186	14,765	52,334	16,933	12,196
Additional containment (gal)	711	-	-	-	-	711	-	-	-	-	1,422	500	360	12,196	-
Total containment capacity (gal)	16,955	2,711	1,381	785	2,431	7,288	374	2,952	5,608	3,122	43,607	15,265	52,694	29,129	12,196
Existing containment deficiency (gal)											9,981	0	0	0	0
New containment height (in)	18	22	18	18	18	12	18	13.5	15.0	13.5	(varies)	5	12	83	54
New containment available (gal)	19,493	3,139	1,658	943	2,917	8,769	449	3,795	7,011	4,013	52,186	14,765	52,334	16,933	12,196
New total containment capacity (gal)	20,204	3,139	1,658	943	2,917	9,480	449	3,795	7,011	4,013	53,608	15,265	52,694	29,129	12,196
Containment deficiency (gal)											0	0	0	0	0
Freeboard based on new containment (in)											0.0	1.8	3.5	38	12

Notes / Assumptions:

Conversions

1. Area A5 is covered. Precipitation will drain off site, outside containment Area A. 7.25 inches, 25-year 24-hour design storm
2. Tank 35 in Area A6 contains vapor (not fluid), which does not require secondary containment. 7.48 gallons per cubic foot
3. Secondary containment calculations assume Tank 27 in contaminant area A1 will be replaced as an elevated tank and Tank 28 will be removed. 12 inches per foot
4. Weir type flow through near the top of containment Area D north wall allows the use of Area E as additional containment.

**Summary of Secondary Containment Areas and Volumes**

*Liquid Environmental Solutions, Dallas Facility*

*Liquid Environmental Solutions, Dallas Facility*

Area:	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	B	C	D	E
Length (ft)	59	18	11	7	13	58	5	63	25	14	53,40	85	95,51	23	20
Width (ft)	32	19	18	12	20	26	8	10	32	51	34,17	60	57,31	20	20
Area (ft <sup>2</sup> )	1,888	342	198	84	260	1,508	40	630	800	714	2500	5,100	6,996	460	400
Height (in)	12	19	15	15	15	9	15	10.5	12	10.5	6	5	12	83	54
Volume (ft <sup>3</sup> )	1,888	542	248	105	325	1,131	50	551	800	625	1,250	2,125	6,996	3,182	1,800
Volume (gal)	14,122	4,051	1,851	785	2,431	8,460	374	4,124	5,984	4,673	9,350	15,896	52,334	23,801	13,465
-															
<b>Existing Conditions</b>															
Open area (ft <sup>2</sup> )	1,888	229	148	84	260	1,172	40	451	750	477	2421	4,737	6,996	327	287
Partial elevated tank height (in)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36
Open volume (ft <sup>3</sup> )	1,888	362	185	105	325	879	50	395	750	417	1211	1,974	6,996	2,264	1,630
Open volume (gal)	14,122	2,711	1,381	785	2,431	6,577	374	2,952	5,608	3,122	9,056	14,765	52,334	16,933	12,196
-															
<b>Changed Conditions</b>															
Additional containment height (in)	3	3	3	3	3	3	3	3	3	3	-	0	0	0	0
New height (in)	18	22	18	18	18	12	18	14	15	14	-	5	12	83	54
Open volume (ft <sup>3</sup> )	2,606	420	222	126	390	1,172	60	507	937	537	-	1,974	6,996	2,264	1,630
Open volume (gal)	19,493	3,139	1,658	943	2,917	8,769	449	3,795	7,011	4,013	-	14,765	52,334	16,933	12,196

Area:	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B	C	D	E	
Length (ft)	59	18	11	7	13	58	5	63	25	14	85	95,51	23	20	
Width (ft)	32	19	18	12	20	26	8	10	32	51	60	57,31	20	20	
Area (ft <sup>2</sup> )	1,888	342	198	84	260	1,508	40	630	800	714	5,100	6,996	460	400	
Height (in)	15	19	15	15	15	9	15	10.5	12	10.5	5	12	83	54	
Volume (ft <sup>3</sup> )	2,360	542	248	105	325	1,131	50	551	800	625	2,125	6,996	3,182	1,800	
Volume (gal)	17,654	4,051	1,851	785	2,431	8,460	374	4,124	5,984	4,673	15,896	52,334	23,801	13,465	
<b>Existing Conditions</b>															
Open area (ft <sup>2</sup> )	1,737	229	148	84	260	1,172	40	451	750	477	4,737	6,996	327	287	

Partial elevated tank height (in)														36
Open volume (ft <sup>3</sup> )	2,172	362	185	105	325	879	50	395	750	417	1,974	6,996	2,264	1,630
Open volume (gal)	16,244	2,711	1,381	785	2,431	6,577	374	2,952	5,608	3,122	14,765	52,334	16,933	12,196
<b>Changed Conditions</b>														
Additional containment height (in)	3	3	3	3	3	3	3	3	3	3	0	0	0	0
New height (in)	18	22	18	18	18	12	18	14	15	14	5	12	83	54
Open volume (ft <sup>3</sup> )	2,606	420	222	126	390	1,172	60	507	937	537	1,974	6,996	2,264	1,630
Open volume (gal)	19,493	3,139	1,658	943	2,917	8,769	449	3,795	7,011	4,013	14,765	52,334	16,933	12,196

Assumptions / Conversions

7.48 gallons per cubic foot 12 inches per foot

Tank and Equipment Schedule - LES Dallas Facility

Item	Containment Area	Containment Sub-Area	Equipment Placement	Diameter (ft)	Length (ft)	Width (Ft)	Surface Area (Sq. ft.)	Size	Units	Equipment Type	Function
14	A	A1	On Ground	8	-	-	50	10,000	gallons	Storage Tank	Brown Grease Storage
17	A	A1	Elevated	10	-	-	-	24,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
18	A	A1	Elevated	10	-	-	-	18,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
24	A	A1	On Ground	8	-	-	50	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
25	A	A1	Elevated	8	-	-	-	12,500	gallons	Storage Tank	Wastewater or Sludge Holding
27	A	A1	Elevated (Planned)	10	-	-	-	20,000	gallons	Storage Tank	Wastewater or Sludge Holding
55	A	A1	Elevated	10	-	-	-	10,000	gallons	Centrifuge Feed Tank	Centrifuge Feed System
							Total:	50	74,500	gallons	
33	A	A2	Elevated	12	-	-	-	12,000	gallons	Storage Tank	Wastewater or Sludge Holding
							Total:	113	12,000	gallons	
10	A	A3	On Ground	8	-	-	50	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
							Total:	50	10,000	gallons	
54	A	A5	Elevated	-	-	-	-	175	gpm	Centrifuge	Brown Grease Recovery
							Total:	0	0	gallons	
3	A6	A6	On Ground	12	-	-	113	15,000	gallons	Processing Tank	Grease Trap Treatment
11	A6	A6	On Ground	8	-	-	50	10,000	gallons	Storage Tank	Yellow Grease Finished Product Storage
12	A6	A6	Elevated	8	-	-	-	6,000	gallons	Processing Tank	Yellow Grease Processing
13	A6	A6	Elevated	8	-	-	-	6,000	gallons	Storage Tank	Yellow Grease Offload
35	A6	A6	On Ground	8	-	-	50	-	gallons	Odor Control Scrubber	Air Scrubber Vent Tank (8,000 gallon AIR ONLY)
36	A6	A6	On Ground	12	-	-	113	2,000	gallons	Odor Control Scrubber	Scrubber Intake Tank
37	A6	A6	On Ground	-	3	3	9	30	HP	Odor Control Scrubber	Scrubber Fan
							Total:	336	39,000	gallons	
8	A	A8	On Ground	8	-	-	50	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
19	A	A8	Elevated	10	-	-	-	8,000	gallons	Storage Tank	Wastewater or Sludge Holding
22	A	A8	On Ground	8	-	-	50	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
23	A	A8	On Ground	10	-	-	-	79	gallons	Storage Tank	Wastewater or Sludge Holding
							Total:	101	28,000	gallons	
20	A	A9	Elevated	10	-	-	-	20,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
21	A	A9	On Ground	8	-	-	50	10,000	gallons	Storage Tank	Brown Grease Storage
50	A	A9	Elevated	-	-	-	-	3,000	gallons	Vacuum Tank	Various
							Total:	50	33,000	gallons	
34	A	A10	Elevated	12	-	-	-	24,000	gallons	Grit Processing AST	Offloading/Grit Trap Treatment
46	A	A10	On Ground	-	6	4	24	6x4x4	feet	Dissolved Air Flotation	Grit Trap Treatment
56	A	A10	Elevated	-	-	-	-	400	gpm	Mechanical Processing	Mechanical Debris Screen
57	A	A10	On Ground	-	10	10	100	3,500	gallons	Holding Tank	Offloading Tank Platform
							Total:	237	27,500	gallons	
15	A	A11	On Ground	-	-	-	-	360	gallons	Polymer Tote	Chemical Storage
58	A	A11	On Ground	10	-	-	79	6,150	gallons	Storage Tank	Lime Tank
59	A	A11	Elevated	-	-	-	-	750	gallons	Filter Press	Filter Press
							Total:	79	7,260	gallons	
FAF1	B	-	On ground	-	25	6.5	163	7,900	gallons	Entrapped Air Flotation	Grease Trap Treatment
FAF2	B	-	On ground	-	20	5	100	3,740	gallons	Entrapped Air Flotation	Grease Trap Treatment
5	B	-	On Ground	8	-	-	50	2,500	gallons	Sodium Hydroxide Tank	Chemical Storage
6	B	-	On Ground	4	-	-	13	550	gallons	Poly Tank	Transfer Tank
42	B	-	Elevated	-	-	-	-	10,000	gallons	Storage Tank	Bar Screen Offload Tank
							Total:	325	24,690	gallons	
52	C	-	In Ground	-	70	15	-	10,000	gallons	Settling Pit	Solidification
53	C	-	In Ground	-	70	15	-	10,000	gallons	Settling Pit	Solidification
-	C	-	On Ground	-	-	-	-	6,000	gallons	Truck	Offloading

Total:	0	6,000	gallons
--------	---	-------	---------

31	D	-	Elevated	13	-	-	-	20,300	gallons	Grit Processing AST	Grit Trap Treatment	
							Total:	0	20,300	gallons		
32	E	-	Elevated	12	-	-	-	113	gallons	Grit Processing AST	Grit Trap Treatment	
							Total:	113	18,000	gallons		
43	-	-	On Ground	-	-	-	-	0	350	HP	Steam Boiler	In Tank Material Heating
44	-	-	On Ground	4	-	-	-	13	500	gallons	Boiler Feed Water Tank	Boiler Feed Water System
45	-	-	On Ground	-	-	-	-	-	14	gpm	Water Softener System	Boiler Feed Water System
48	-	-	Elevated	-	-	-	-	-	50	HP	Air Compressor	Facility Main Air Supply

Legend

Not applicable for this equipment

Assumptions/Conversions

7.48 gallons per cubic foot

Item	Containment Area	Containment Sub-Area	Equipment Placement	Diameter (feet)	Length (feet)	Width (feet)	Surface Area (square feet)	Size	Units	Equipment-Type	Function
14	A	A1	On-Ground	8			50.3	10,000	gallons	Storage Tank	Brown-Grease Storage
17	A	A1	Elevated	10				18,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
18	A	A1	Elevated	10				18,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
24	A	A1	On-Ground	8			50.3	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
25	A	A1	On-Ground	8			50.3	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
27	A	A1	Elevated (Planned)	10				20,000	gallons	Storage Tank	Wastewater or Sludge Holding
55	A	A1	Elevated	10				10,000	gallons	Centrifuge-Feed Tank	Centrifuge-Feed System
							Total:	151	96,000	gallons	
33	A	A2	On-Ground	12			443.1	12,000	gallons	Storage Tank	Wastewater or Sludge Holding
							Total:	443	12,000	gallons	
10	A	A3	On-Ground	8			50.3	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
							Total:	50	40,000	gallons	
54	A	A5	Elevated					175	gpm	Centrifuge	Brown-Grease Recovery
							Total:	0	0	gallons	
3	A6	A6	On-Ground	12			113	15,000	gallons	Processing Tank	Grease-Trap Treatment
11	A6	A6	On-Ground	8			50	10,000	gallons	Storage Tank	Yellow Grease Finished Product Storage
12	A6	A6	Elevated	8				6,000	gallons	Processing Tank	Yellow-Grease Processing
13	A6	A6	Elevated	8				6,000	gallons	Processing Tank	Yellow-Grease Offload
35	A6	A6	On-Ground	8			50		gallons	Odor-Control Scrubber	Air Scrubber Vent Tank (8,000-gallon AIR ONLY)
36	A6	A6	On-Ground	12			113	2,000	gallons	Odor-Control Scrubber	Scrubber-Intake Tank
37	A6	A6	On-Ground		3	3	9	30	HP	Odor-Control Scrubber	Scrubber-Fan
							Total:	336	39,000	gallons	
8	A	A8	On-Ground	8			50.3	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
19	A	A8	Elevated	10				8,000	gallons	Storage Tank	Wastewater or Sludge Holding
22	A	A8	On-Ground	8			50.3	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
23	A	A8	On-Ground	10			78.5	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
							Total:	479	38,000	gallons	
20	A	A9	Elevated	10				20,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
24	A	A9	On-Ground	8			50.3	10,000	gallons	Storage Tank	Brown-Grease Storage
50	A	A9	Elevated					3,000	gallons	Vacuum Tank	Various
							Total:	50	33,000	gallons	
34	A	A10	On-Ground	12			113.1	24,000	gallons	Grit Processing AST	Offloading/Grit-Trap Treatment
46	A	A10	On-Ground		6	4	24	6x4x4	feet	Dissolved-Air-Flotation	Grit-Trap Treatment
56	A	A10	Elevated					400	gpm	Mechanical Processing	Mechanical Debris Screen
57	A	A10	On-Ground		10	10	100	3,500	gallons	Holding Tank	Offloading Tank Platform
							Total:	237	27,500	gallons	
5AF1	B		On-ground		25	6.5	162.5	7,900	gallons	Entrapped-Air-Flotation	Grease-Trap Treatment
5AF2	B		On-ground		20	5	100.0	3,740	gallons	Entrapped-Air-Flotation	Grease-Trap Treatment
5	B		On-Ground	8			50.3	2,500	gallons	Sodium-Hydroxide Tank	Chemical Storage
6	B		On-Ground	4			12.6	550	gallons	Poly Tank	Transfer Tank
42	B		Elevated					10,000	gallons	Storage Tank	Bar Screen-Offload Tank
							Total:	325	24,690	gallons	
52	C		In-Ground		70	15		10,000	gallons	Settling Pit	Solidification
53	C		In-Ground		70	15		10,000	gallons	Settling Pit	Solidification
	C		On-Ground					6,000	gallons	Truck	Offloading

						Total	0	6,000	gallons		
34	D		On-Ground	13		Total	132.7	20,300	gallons	Grit Processing AST	Grit Trap Treatment
						Total	133	20,300	gallons		
32	E		Elevated	12		Total	113.4	8,200	gallons	Grit Processing AST	Grit Trap Treatment
						Total	113	8,200	gallons		
43			On-Ground				0	350	HP	Steam Boiler	In-Tank Material Heating
44			On-Ground	4			12.6	500	gallons	Boiler Feed Water Tank	Boiler Feed Water System
45			On-Ground					14	gpm	Water Softener System	Boiler Feed Water System
48			Elevated					50	HP	Air Compressor	Facility Main Air Supply

Legend ————— Assumptions / Conversions  
 = Not applicable for this equipment ————— 7.48 gallons per cubic foot

In cooperation with the Texas Department of Transportation

# Atlas of Depth-Duration Frequency of Precipitation Annual Maxima for Texas



Scientific Investigations Report 2004–5041  
(TxDOT Implementation Report 5–1301–01–1)

U.S. Department of the Interior

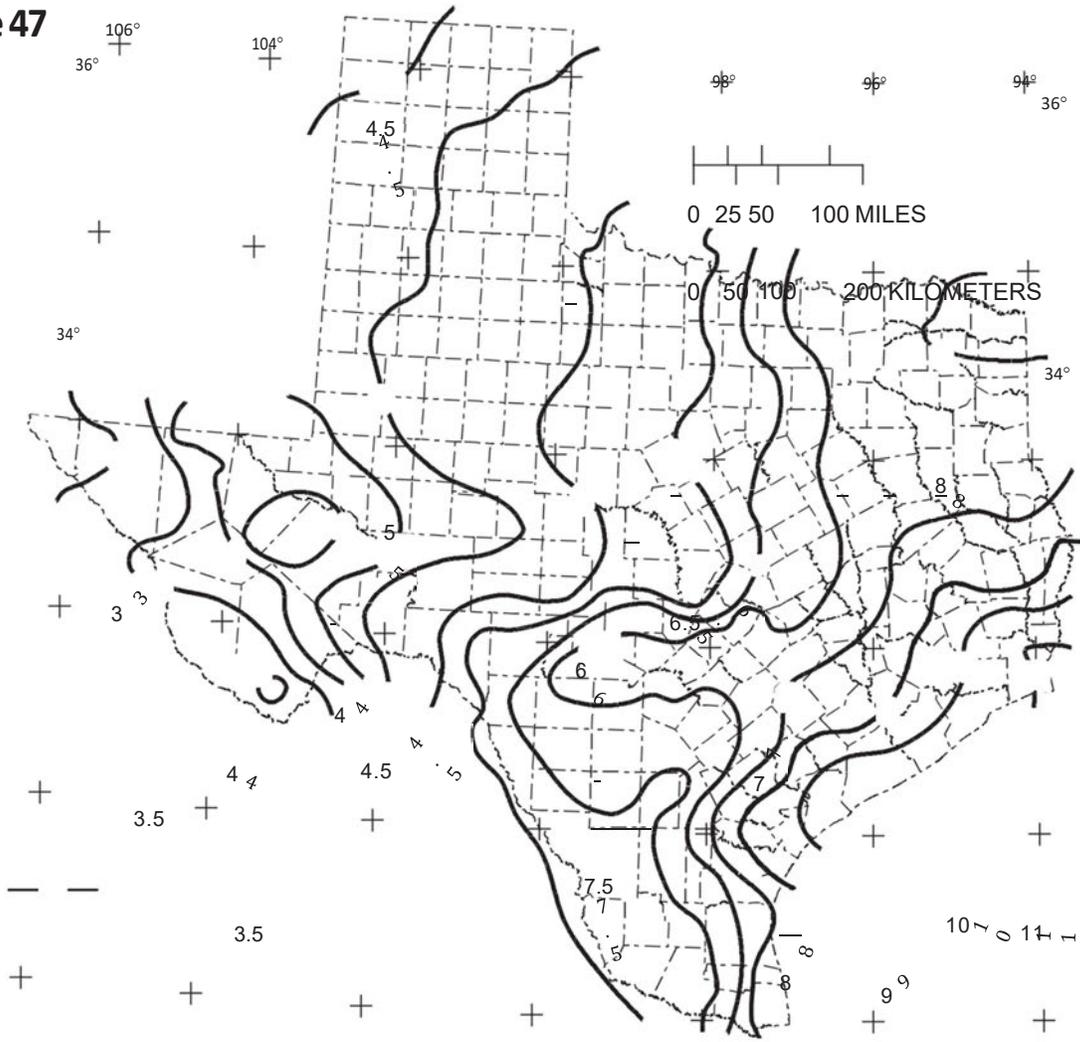


1. Report No. FHWA/TX-04/5-1301-01-1		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle ATLAS OF DEPTH-DURATION FREQUENCY OF PRECIPITATION ANNUAL MAXIMA FOR TEXAS				5. Report Date June 2004	
				6. Performing Organization Code	
7. Author(s) William H. Asquith and Meghan C. Roussel				8. Performing Organization Report No. SIR 2004-5041	
9. Performing Organization Name and Address U.S. Geological Survey Water Resources Division 8027 Exchange Drive Austin, Texas 78754				10. Work Unit No. (TRAIS)	
				11. Contract or Grant No. Project 5-1301	
12. Sponsoring Agency Name and Address Texas Department of Transportation Research and Technology Implementation Office 4000 Jackson Ave., Bldg. 1 P.O. Box 5080 Austin, TX 78731				13. Type of Report and Period Covered Research from 2003 to 2004	
				14. Sponsoring Agency Code	
15. Supplementary Notes Project conducted in cooperation with the Texas Department of Transportation and the Federal Highway Administration.					
16. Abstract Ninety-six maps depicting the spatial variation of the depth-duration frequency of precipitation annual maxima for Texas are presented. The recurrence intervals represented are 2, 5, 10, 25, 50, 100, 250, and 500 years. The storm durations represented are 15 and 30 minutes; 1, 2, 3, 6, and 12 hours; and 1, 2, 3, 5, and 7 days. The maps were derived using geographically referenced parameter maps of probability distributions used in previously published research by the U.S. Geological Survey to model the magnitude and frequency of precipitation annual maxima for Texas. The maps in this report apply that research and update depth-duration frequency of precipitation maps available in earlier studies performed by the National Weather Service.					
17. Key Words Precipitation, Depth duration frequency, Annual precipitation maxima, L-moments, Texas				18. Distribution Statement No restrictions.	
19. Security Classif. (of report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of pages 106	22. Price \$4.00

**Cover:**

West Sister Creek near Sisterdale, Texas, on FM 473, Kendall County, May 10, 2004.

Figure 47



**EXPLANATION**

3 Line of equal precipitation depth, in inches—variable contour interval.

Albers-equal area projection parameters

- Central meridian: -96.0
- Standard parallel 1: 29.5
- Standard parallel 2: 45.
- Latitude of origin: 23.
- 0

Base modified from U.S. Geological Survey digital data at 1:250,000 (2003)

NOAA Atlas 14, Volume 11, Version 2 DALLAS

LOVE FLD

Station ID: 79-0088

Location name: Dallas, Texas, USA\*

Latitude: 32.8519°, Longitude: -96.8556°

Elevation:

Elevation (station metadata): 440 ft\*\*

\* source: ESRI Maps

\*\* source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orlan Wilhite

NOAA, National Weather Service, Silver Spring, Maryland

[PF\\_tabular](#) | [PF\\_graphical](#) | [Maps\\_&\\_aerials](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) <sup>1</sup>										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.421 (0.319-0.556)	0.488 (0.374-0.641)	0.599 (0.457-0.788)	0.690 (0.518-0.918)	0.812 (0.590-1.11)	0.904 (0.640-1.27)	0.996 (0.687-1.43)	1.09 (0.733-1.60)	1.22 (0.790-1.84)	1.31 (0.830-2.04)
10-min	0.672 (0.509-0.888)	0.779 (0.597-1.02)	0.957 (0.730-1.26)	1.10 (0.828-1.47)	1.30 (0.945-1.78)	1.45 (1.03-2.03)	1.60 (1.10-2.29)	1.74 (1.17-2.56)	1.93 (1.26-2.93)	2.07 (1.31-3.22)
15-min	0.844 (0.639-1.11)	0.976 (0.744-1.28)	1.19 (0.905-1.56)	1.37 (1.03-1.82)	1.62 (1.18-2.22)	1.82 (1.29-2.55)	2.01 (1.39-2.89)	2.20 (1.48-3.23)	2.43 (1.58-3.68)	2.60 (1.64-4.04)
30-min	1.18 (0.897-1.56)	1.37 (1.04-1.79)	1.67 (1.27-2.19)	1.92 (1.44-2.55)	2.26 (1.64-3.09)	2.52 (1.78-3.53)	2.78 (1.92-3.99)	3.04 (2.04-4.46)	3.38 (2.19-5.12)	3.63 (2.30-5.64)
60-min	1.54 (1.17-2.04)	1.79 (1.37-2.35)	2.20 (1.68-2.89)	2.53 (1.90-3.37)	2.98 (2.16-4.06)	3.31 (2.34-4.63)	3.65 (2.52-5.24)	4.01 (2.70-5.90)	4.50 (2.93-6.84)	4.89 (3.10-7.59)
2-hr	1.88 (1.44-2.46)	2.21 (1.71-2.86)	2.74 (2.11-3.56)	3.18 (2.41-4.19)	3.79 (2.78-5.12)	4.26 (3.04-5.90)	4.75 (3.30-6.73)	5.26 (3.57-7.64)	5.98 (3.92-8.96)	6.56 (4.18-10.0)
3-hr	2.08 (1.60-2.70)	2.46 (1.91-3.16)	3.07 (2.38-3.96)	3.59 (2.74-4.69)	4.31 (3.18-5.79)	4.88 (3.50-6.71)	5.47 (3.82-7.70)	6.10 (4.16-8.79)	6.99 (4.59-10.4)	7.69 (4.92-11.7)
6-hr	2.44 (1.90-3.14)	2.92 (2.28-3.69)	3.67 (2.87-4.68)	4.32 (3.33-5.59)	5.24 (3.91-6.95)	5.97 (4.33-8.11)	6.74 (4.76-9.37)	7.58 (5.20-10.8)	8.74 (5.79-12.8)	9.68 (6.24-14.5)
12-hr	2.85 (2.25-3.62)	3.42 (2.70-4.28)	4.32 (3.42-5.45)	5.10 (3.98-6.52)	6.20 (4.68-8.14)	7.09 (5.20-9.51)	8.03 (5.72-11.0)	9.05 (6.27-12.7)	10.5 (7.01-15.2)	11.7 (7.58-17.2)
24-hr	3.31 (2.64-4.16)	3.98 (3.18-4.92)	5.04 (4.03-6.28)	5.95 (4.69-7.52)	7.25 (5.52-9.39)	8.28 (6.13-11.0)	9.39 (6.75-12.7)	10.6 (7.41-14.7)	12.3 (8.30-17.6)	13.7 (8.99-19.9)
2-day	3.85 (3.10-4.78)	4.62 (3.74-5.65)	5.84 (4.73-7.20)	6.89 (5.50-8.61)	8.38 (6.45-10.7)	9.56 (7.14-12.5)	10.8 (7.86-14.5)	12.2 (8.63-16.7)	14.3 (9.68-20.0)	15.9 (10.5-22.8)
3-day	4.20 (3.41-5.18)	5.04 (4.11-6.12)	6.36 (5.19-7.80)	7.50 (6.02-9.31)	9.11 (7.06-11.6)	10.4 (7.80-13.5)	11.8 (8.58-15.6)	13.3 (9.42-18.0)	15.5 (10.6-21.5)	17.3 (11.4-24.5)
4-day	4.46 (3.64-5.47)	5.34 (4.37-6.45)	6.73 (5.52-8.21)	7.93 (6.41-9.80)	9.65 (7.51-12.2)	11.0 (8.30-14.2)	12.5 (9.13-16.4)	14.1 (10.0-18.9)	16.4 (11.2-22.7)	18.3 (12.2-25.8)
7-day	5.00 (4.12-6.08)	5.98 (4.94-7.15)	7.51 (6.22-9.08)	8.85 (7.21-10.8)	10.8 (8.46-13.5)	12.3 (9.37-15.7)	14.0 (10.3-18.2)	15.8 (11.3-21.0)	18.4 (12.7-25.1)	20.5 (13.7-28.5)
10-day	5.47 (4.53-6.61)	6.53 (5.42-7.76)	8.17 (6.80-9.82)	9.61 (7.88-11.7)	11.7 (9.22-14.5)	13.3 (10.2-16.9)	15.1 (11.2-19.5)	17.0 (12.3-22.5)	19.8 (13.7-26.8)	22.0 (14.8-30.4)
20-day	7.08 (5.94-8.46)	8.30 (7.02-9.82)	10.2 (8.66-12.2)	11.9 (9.87-14.3)	14.2 (11.3-17.4)	16.0 (12.3-20.0)	17.8 (13.3-22.7)	19.8 (14.4-25.8)	22.7 (15.8-30.3)	25.0 (16.9-34.0)
30-day	8.44 (7.13-10.0)	9.78 (8.36-11.6)	12.0 (10.2-14.2)	13.8 (11.5-16.5)	16.3 (13.1-19.8)	18.2 (14.1-22.5)	20.1 (15.1-25.4)	22.2 (16.2-28.6)	25.1 (17.6-33.2)	27.4 (18.6-36.9)
45-day	10.3 (8.78-12.2)	11.9 (10.3-14.0)	14.5 (12.5-17.1)	16.6 (14.0-19.7)	19.5 (15.8-23.6)	21.7 (17.0-26.7)	23.9 (18.1-30.0)	26.2 (19.2-33.5)	29.3 (20.6-38.3)	31.6 (21.6-42.2)
60-day	12.0 (10.3-14.1)	13.8 (12.0-16.1)	16.8 (14.5-19.6)	19.2 (16.3-22.7)	22.5 (18.3-27.1)	25.0 (19.7-30.6)	27.5 (20.9-34.3)	30.0 (22.1-38.1)	33.2 (23.5-43.2)	35.6 (24.4-47.2)

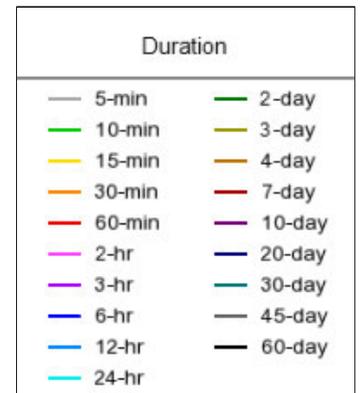
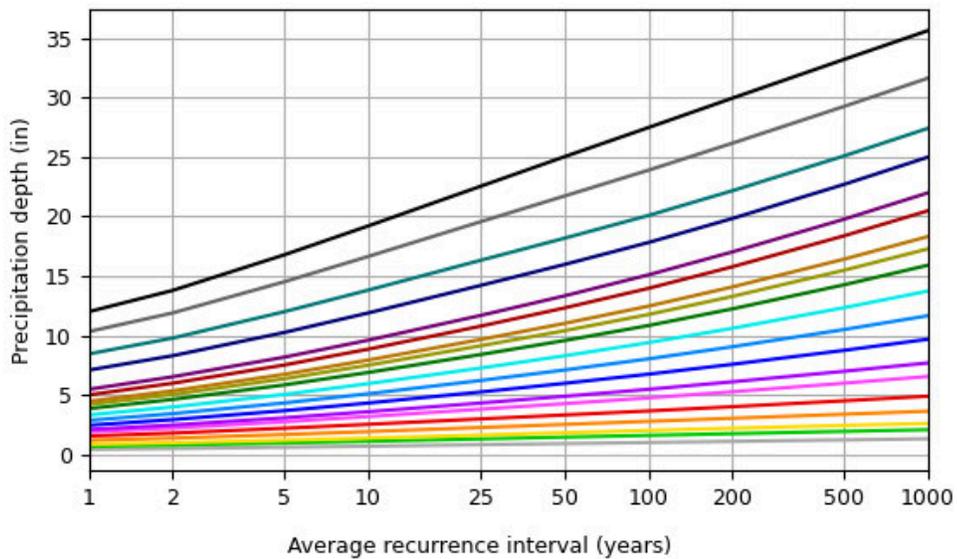
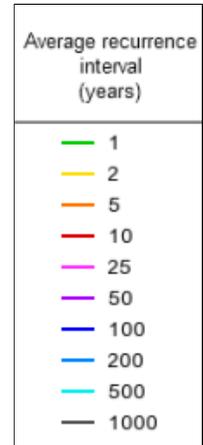
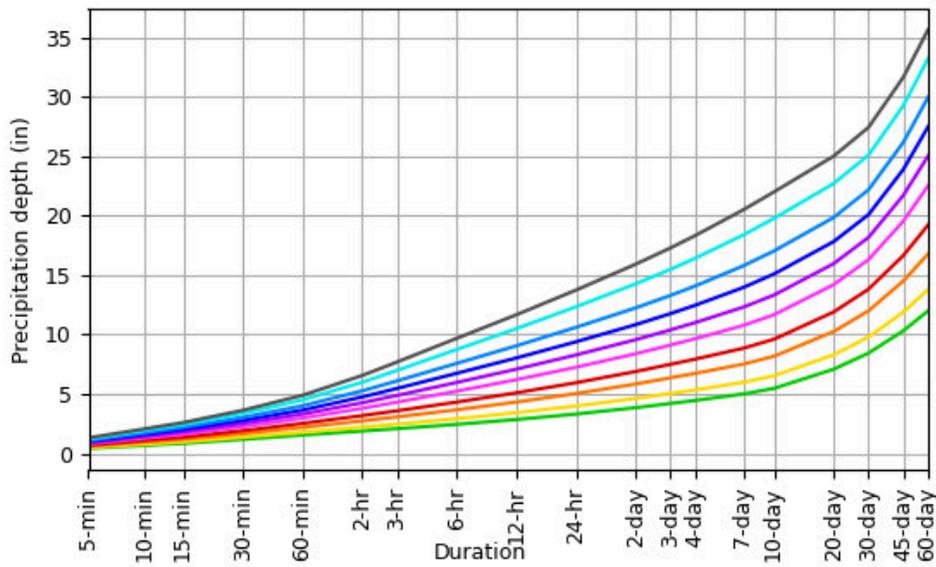
<sup>1</sup> Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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PF graphical

PDS-based depth-duration-frequency (DDF) curves

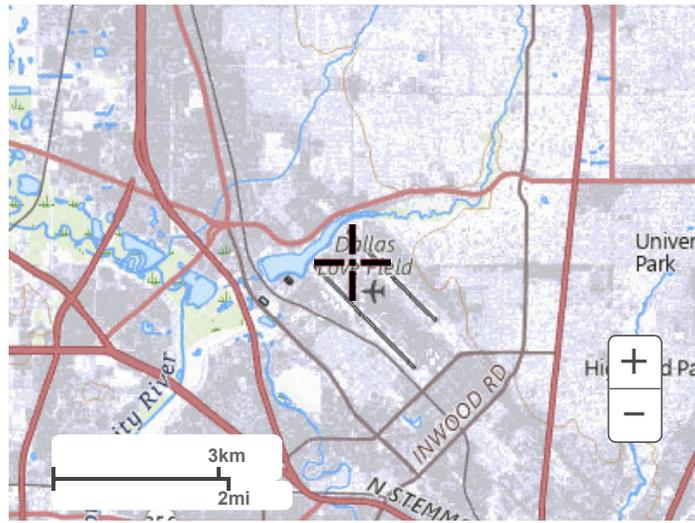
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**Maps & aerials**

**Small scale terrain**



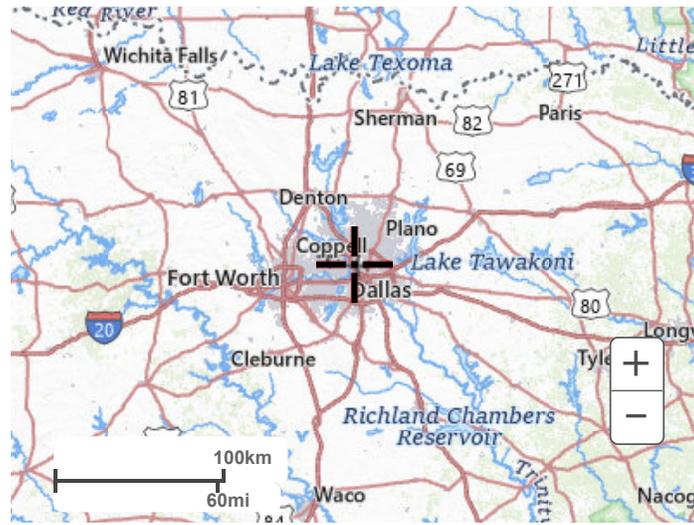
Large scale terrain



Large scale map



Large scale aerial



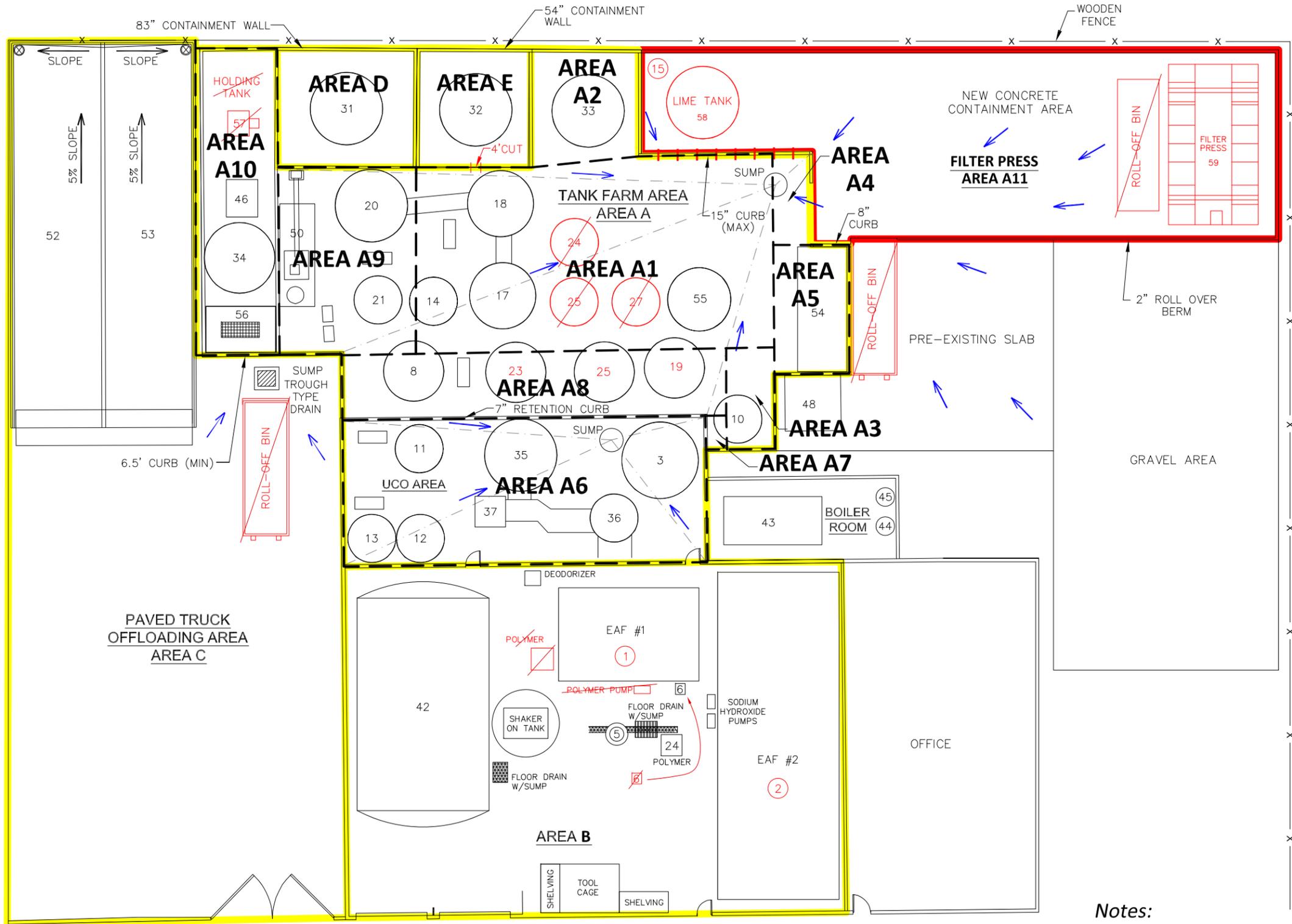
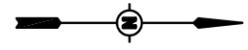
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[US Department of Commerce](#)  
[National Oceanic and Atmospheric Administration](#)  
[National Weather Service](#)  
[National Water Center](#)  
1325 East West Highway  
Silver Spring, MD 20910

Questions? XXXXXXXXXX

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**LEGEND**

- Stormwater Flow Direction
- Permit Modification
- 1" Drain Hole

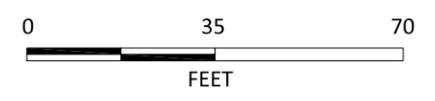
Tank and Equipment Schedule						
Item #	Containment Area	Equipment Placement	Size	Units	Equipment Type	Function
EAF #1	B	On Ground	11,500	gallon	Entrapped Air Flotation	Grease Trap Treatment
EAF #2	B	On Ground	6,000	gallon	Entrapped Air Flotation	Grease Trap Treatment
3	A	On Ground	15,000	gallon	Processing Tank	Grease Trap Treatment
5	B	On Ground	2,500	gallon	Sodium Hydroxide Tank	Chemical Storage
6	B	On Ground	550	gallon	Poly Tank	Transfer Tank
8	A	On Ground	10,000	gallon	Storage Tank	Wastewater Sludge Holding
10	A	On Ground	10,000	gallon	Storage Tank	Wastewater Sludge Holding
11	A	On Ground	10,000	gallon	Storage Tank	Yellow Grease Finished Product
12	A	Elevated	6,000	gallon	Processing Tank	Yellow Grease Processing
13	A	Elevated	6,000	gallon	Storage Tank	Yellow Grease Offload
14	A	On Ground	10,000	gallon	Storage Tank	Brown Grease Storage
15	A	On Ground	360	gallon	Polymer Tote	Chemical Storage
17	A	Elevated	24,000	gallon	Storage Tank	Offloading/Wastewater/Sludge
18	A	Elevated	18,000	gallon	Storage Tank	Offloading/Wastewater/Sludge
19	A	Elevated	8,000	gallon	Storage Tank	Wastewater or Sludge Holding
20	A	Elevated	18,000	gallon	Storage Tank	Offloading/Wastewater/Sludge
21	A	On Ground	10,000	gallon	Storage Tank	Brown Grease storage
22	A	On Ground	10,000	gallon	Storage Tank	Wastewater or Sludge Holding
23	A	On Ground	10,000	gallon	Storage Tank	Wastewater or Sludge Holding
24	B	On Ground	275	gallon	Polymer Tote	Treatment
24	A	On Ground	10,000	gallon	Storage Tank	Wastewater or Sludge Holding
25	A	On Ground	12,500	gallon	Storage Tank	Wastewater or Sludge Holding
27	A	Elevated	16,600	gallon	Storage Tank	Wastewater or Sludge Holding
31	D	On Ground	20,300	gallon	Grit Processing AGT	Grit Trap Treatment
32	E	Elevated	18,000	gallon	Grit Processing AGT	Grit Trap Treatment
33	A	On Ground	12,000	gallon	Storage Tank	Wastewater or Sludge Holding
34	A	On Ground	24,000	gallon	Grit Processing AGT	Offloading/Grit Trap Treatment
35	A	On Ground	8,000	gallon	Odor Control Scrubber	Air Scrubber Vent Tank (Air Only)
36	A	On Ground	2,000	gallon	Odor Control Scrubber	Scrubber Intake Tank
37	A	On Ground	30	HP	Odor Control Scrubber	Scrubber Fan
39	B	Elevated	5	HP	Vibratory Screen	Grease Trap Treatment
42	B	Elevated	10,000	gallon	Storage Tank	Bar screen Offload Tank
43		On Ground	350	HP	Steam Boiler	In Tank Material Heating
44		On Ground	500	gallon	Boiler Feed Water Tank	Boiler Feed Water System
45		On Ground	14	gpm	Water Softener System	Boiler Feed Water System
46	A	On Ground	700	gallon	Dissolved Air Flotation	Grit Trap Treatment
48		Elevated	50	HP	Air Compressor	Facility Main Air Supply
50	A	Elevated	3,000	gallon	Vacuum Tank	Various
52	C	In Ground	10,000	gallon	Settling Pit	Solidification
53	C	In Ground	10,000	gallon	Settling Pit	Solidification
54	A	Elevated	175	gpm	Centrifuge	Brown Grease Recovery
55	A	Elevated	10,000	gallon	Centrifuge Feed Tank	Centrifuge Feed System
56	A	Elevated	400	gpm	Mechanical Processing	Mechanical Debris Screen
57	A	On Ground	3,500	gallon	Holding Tank	Offload Tank Processing
59	A	On Ground	6,150	gallon	Storage Tank	Lime Tank
60	A	Elevated	750	gallon	Filter Press	Filter Press

Secondary Containment Summary				
Area	Containment Area Description	Containment Capacity (gallons)		
		Existing	Modified	TA
A	Tank Farm	43,567	53,608	41,553*
B	Process Building	15,265	15,265	--
C	Paved Truck Offloading	15,694	15,694	--
D	Storage Tank 31	29,129	29,129	--
E	Storage Tank 32	12,196	12,196	--

\*Additional containment is provided as discussed in Attachment D.

**Notes:**

- EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE NOT SHOWN TO SCALE.
- EQUIPMENT SCHEDULE AND CONTAINMENT HEIGHTS ARE BASED ON INFORMATION PROVIDED TO CK ASSOCIATES BY LIQUID ENVIRONMENTAL SOLUTIONS, LLC.
- CONTAINMENT HEIGHTS SHOWN ARE EXISTING. REFER TO SECONDARY CONTAINMENT CALCULATION SUMMARY TABLE FOR ADDITIONAL CONTAINMENT INFORMATION AND ATTACHMENT D.
- APPROXIMATE LOCATIONS OF ELEVATED INCIDENTAL EQUIPMENT, SUCH AS PUMPS, ARE SHOWN FOR REFERENCE ONLY AND MAY NOT BE IDENTIFIED ON THE TANK AND EQUIPMENT SCHEDULE.



**Liquid Environmental Solutions**  
Dallas, Texas

Municipal Solid Waste (MSW) Permit 2069A

**Containment Areas**  
Dallas County

Drawn: APS	Checked: BHR
Date: 2/17/2026	Approved: DWH
Dwg. No.: 00002100-03	<b>SDP-4, Figure 1</b>

**Attachment D**

Unmarked Revised Pages

**Attachment D-1**

Part II

**APPLICATION PART II**

**TYPE V MUNICIPAL SOLID WASTE FACILITY  
TCEQ MSW PERMIT 2069A**

For

**LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS, LLC**

**Dallas Facility  
11115 Goodnight Lane  
Dallas, TX 75229  
CN603229436  
RN103002713**

Prepared By

**C-K Associates, LLC  
TBPE Reg. #F-9628**

March 2026



*David Hawley*  
3/2/26

*Firm no. 9628*

<b>1.0</b>	<b>INTRODUCTION</b> .....	<b>1</b>
<b>2.0</b>	<b>SOURCES AND CHARACTERISTICS OF WASTES (330.61 (B), 330.203(A))</b> .....	<b>2</b>
1.1	GREASE TRAP AND FOOD-RELATED WASTES.....	3
1.2	GRIT TRAP WASTE.....	3
<b>3.0</b>	<b>WASTE STORAGE AND PROCESSING INFORMATION (330.203 (B))</b> .....	<b>4</b>
<b>4.0</b>	<b>SAMPLING OF WASTES RECEIVED AND FACILITY EFFLUENT (330.203(C)).</b> .....	<b>5</b>

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II-2	Facility Layout Map
II-3	Topographic Map
II-4	Land Use Map
II-5	Aerial Map
II-6	Flood Rate Insurance Map
F1.00	Existing Fire Department Access Plan

#### **List of Attachments**

II-1	Waste Acceptance and Analysis Plan
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## 1.0 Introduction

Liquid Environmental Solutions of Texas, LLC (LES) is in the business of processing certain non-hazardous liquid wastes. The Dallas LES Facility processes grease trap/food-related and grit trap waste streams. The facility is designed to separate and process the waste streams received into recyclable components, water suitable for discharge into the sanitary sewer system and solid materials for appropriate disposal. The acceptance and processing of these waste requires a Type V Municipal Solid Waste (MSW) Permit and the LES Dallas facility holds MSW Permit 2069A. The purpose of this permit modification request is to: allow an alternative buffer zone at the LES – Dallas Facility; update the permit to make modifications previously authorized under a Temporary Authorization; make minor equipment changes.

### Buffer Zone

Per 30 TAC 330.543(b)(1), a minimum separating distance of 50 feet between solid waste storage/process units within and adjacent to the facility boundary on property owned or controlled by the owner/operator is required. The buffer zone shall not be narrower than necessary to provide for safe passage for fire fighting equipment and other emergency vehicles. LES has historically met this 50-foot buffer requirement along the south and west boundaries of the site by leasing land adjacent to its property boundary. The lease expires on June 30, 2026. LES believes that the lessor of the land may not renew the lease.

Therefore, one objective of this modification is to authorize an alternative to the buffer zone requirement in 30 TAC 330.543(b)(1). To support the amendment, LES met with the Dallas Fire Department (DFD) on August 20, 2025, to review the facility layout and allow DFD personnel to assess whether more than sufficient access for fire fighting or other emergency response would be available without the required 50-foot buffer. The layout reviewed by the DFD differs from the layout currently reflected in the permit; however, the version provided to the DFD was prepared for the specific purpose of evaluating emergency access and does not alter any operational or functional aspects relevant to the modification request. Following their review, the DFD determined that more than sufficient access is available without the buffer as long as pathways are maintained, regardless of the tank or equipment configuration, as documented in the Existing Fire Department Access Plan stamped by the DFD on September 10, 2025. A copy of this plan is provided as **F1.00**.

### Temporary Authorization Changes

This modification brings the permit up to date with changes made previously under a Temporary Authorization that was initially approved by the TCEQ on March 26, 2018 (see Tracking No. 22566826). These changes included the addition of a filter press and a lime storage tank which better equipped the facility to meet the limits of the City of Dallas Pre-Treatment Permit.

### Equipment Changes

This modification updates the equipment list and addresses upgrades to the secondary containment system.

This permit application submittal retains the previous permit documents and only those additions that are changed within this February 2026 revision are being submitted as Permit Revision 17.

**Table W-1 the Revision History for MSW Permit No. 2069.**

Date	Site Development Plan (SDP)	Site Operating Plan (SOP)	Waste Acceptance and Analysis Plan (WAAP)	Permit Edition
6/1/1987	Original		-	Original
3/30/1988	Revision 1		-	Revision 1
3/19/1989	Revision 2		-	Revision 2
5/1991	-	Original (Old)	-	Revision 3
9/1991	-	Revision 1	-	Revision 4
5/18/1999	Revision 3	-	Original	Revision 5
8/24/2003	Revision 4	Revision 3	Revision 1	Revision 6
2/2/2004	Revision 5	Revision 4	Revision 2	Revision 7
6/25/2004	Revision 6	Revision 5	-	Revision 8
2/1/2005	Revision 7	Revision 6	-	Revision 9
4/5/2005	Revision 8	Revision 7	-	Revision 10
8/5/2005	Revision 9	Revision 8	-	Revision 11
11/27/2006	-	Original (New)	-	Revision 12
6/8/2007	-	Revision 1	-	Revision 13
5/30/2008	Revision 10	Revision 2	Revision 3	Revision 14
11/2012	Revision 11	Revision 3	Revision 4	Revision 15
11/2017	Revision 12	Revision 4	Revision 5	Revision 16
02/2026	Revision 13	Revision 5	Revision 6	Revision 17

This permit application submittal (Revision 16) represented a major reorganization of the previous permit documents and only those additions that are changed within this February 2026 revision are being submitted as Permit Revision 17. The documents have been reorganized to align with the corresponding regulatory requirements. Where applicable, regulatory citations are noted.

## **2.0 Sources and Characteristics of Wastes (330.61 (b), 330.203(a))**

The Waste Acceptance and Analysis Plan (WAAP) previously submitted 11/2012 as Revision 4, addresses regulatory requirements presented in Title 30, Texas Administrative Code (TAC), Chapter 330, Sections 61 and 203 and remains unchanged in this submittal. Included as part of

this plan are LES policies governing Waste Acceptance and Analysis Procedures (Attachment II-1). No changes to Waste Acceptance Procedures or Analytical Procedures are being made in this permit modification. The Plan and the corresponding attachment provide a comprehensive discussion of the facility management and testing procedures for the wastes that will be processed at the facility. The facility will only accept wastes which are compatible with the production of liquid effluent that can safely be disposed into the City of Dallas sanitary sewer and solids that can be hauled offsite for beneficial reuse or disposal in a municipal solid waste landfill. Discharges to the sanitary sewer shall be in compliance with the facility's pre-treatment permit and applicable federal, state, and local regulations.

The LES Dallas Facility accepts three categories of non-hazardous wastes, grease trap wastes, Class 2 Industrial Solids (food-related) wastes and grit trap (and related) wastes. All other types of wastes are prohibited for processing or disposal at the facility. Detailed waste acceptance procedures are described in Attachment I. Management controls described in Attachment I have been developed to prevent acceptance of unauthorized wastes for processing.

## **2.1 Grease Trap and Food-Related Wastes**

LES will accept and process non-hazardous grease trap and Class 2 Industrial food-related wastes from restaurants, food preparation facilities, other food-related industries and other sources serviced by its own and independent third-party vacuum trucks. Since the municipal and commercial businesses that transport grease waste to LES do not normally generate waste streams that contain any hazardous constituents it is very unlikely that any hazardous waste will be contained in these wastes. All waste will be documented using an appropriate trip ticket/manifest.

Grease trap waste is composed of food, grease, trash, food particles and/or water. Pollutant concentrations are extremely variable, depending upon, among other factors, the generator, the size of the trap and the frequency with which the trap is pumped. In most cases, the wastes food particles, and wastewater containing large amounts of dissolved and suspended food matter. The wastes are typically characterized by high levels of BOD and TSS and are acidic, with pH levels generally in the 4.0 to 5.0 range. Class 2 Industrial food-related waste is typically composed of food solids, fats, oils and grease.

## **2.2 Grit Trap Waste.**

LES will accept and process non-hazardous grit tap/lint trap wastes from car washes, garages, laundries, services stations, repair and maintenance shops, transport firms, car dealerships, and similar generators serviced by its own and independent third-party vacuum trucks. A grit trap is an interceptor in a sewer line designed to trap sand, grit, muck and heavy soils from car washes and other facilities that wash dirt and grime from equipment. All waste will be documented using an appropriate trip ticket/manifest as previously described above for grease trap/food related wastes. If large quantities of floating petroleum or synthetic

petroleum oils are encountered, the oil will be separated and disposed or recycled through a waste oil or used oil recycler or processor. Chemical analysis will be performed to ensure that all new customer waste streams will be acceptable for processing, as described in Attachment I.

Grit trap waste pollutant concentrations are extremely variable. In most cases, the wastes contain floating matter made up primarily of petroleum and synthetic petroleum grease and oil, settled dirt and sand with wash down products such as matches, cigarettes, spark plugs, grass and sticks and wastewater containing suspended dirt, detergents and oil. The wastes are typically characterized by high levels of BOD and TSS and tend to be neutral to caustic.

### 3.0 Waste Storage and Processing Information (330.203 (B))

LES processes grease trap waste by removing the oil and grease and pre-treating the remaining liquids before discharge to the sanitary sewer system. The complete process is described in detail in the Site Development Plan (SDP). This submittal will not increase capacity or throughput as previously described in the SDP submittal of 11/2012 and no changes are being made to that submittal for this permit revision.

The grit trap waste treatment process is described in the Site Development Plan. LES processes a maximum of 600,000 gallons per month of grit trap waste. Waste acceptance procedures are described in Attachment 1. Receipt, storage, and processing data for each of these waste types are provided in the following Table W-2. Daily waste receipts assume an average over 30 days per month operation. Received grease trap/food-related wastes and grit trap wastes remain on-site on average for two hours prior to processing, but at a maximum are processed within 72 hours of receipt. Generally, wastes are processed immediately after receipt. The maximum amount of combined storage for pre-processed waste at any point in time is 302,408 gallons. This capacity includes the solidification pits, which have a combined capacity of 20,000 gallons and can be used to store grit trap wastes.

**Table W-2 Receipt, Storage, and Processing Data for Wastes at LES**

Waste Type		Grease Trap/Food Related	Grit Trap
Received Daily (gallons, 30 day average)		160,000	20,000
Max Storage (gallons)		251,150	72,500
Waste On Site (Days)	Max.	3	3
	Avg.	0.3	0.3
Waste	Max.	3	3

<b>Processing Time (Days)</b>	<b>Avg.</b>	0.3	0.3
-------------------------------	-------------	-----	-----

Treatment of waste onsite yields treated effluent, heavy solids, sludge and recovered oil and grease. These facility generated wastes are disposed of as described in Section 7 of the Site Operating Plan (SOP).

**4.0 Sampling of Wastes Received and Facility Effluent (330.203(c)).**

Analytical testing of wastes received depends upon waste type and is fully described in the Waste Acceptance and Analysis Procedures, included as Attachment I. Sampling of facility effluent is described in Section 7 of the SOP.

Minimal analytical requirements are specified at 30 TAC 330.203 (c) pertaining to wastes received, sludges disposed at landfills, and facility effluent. Recordkeeping and methods requirements are also stated. These requirements, listed below, are also incorporated into the referenced sections of the facility permit documents:

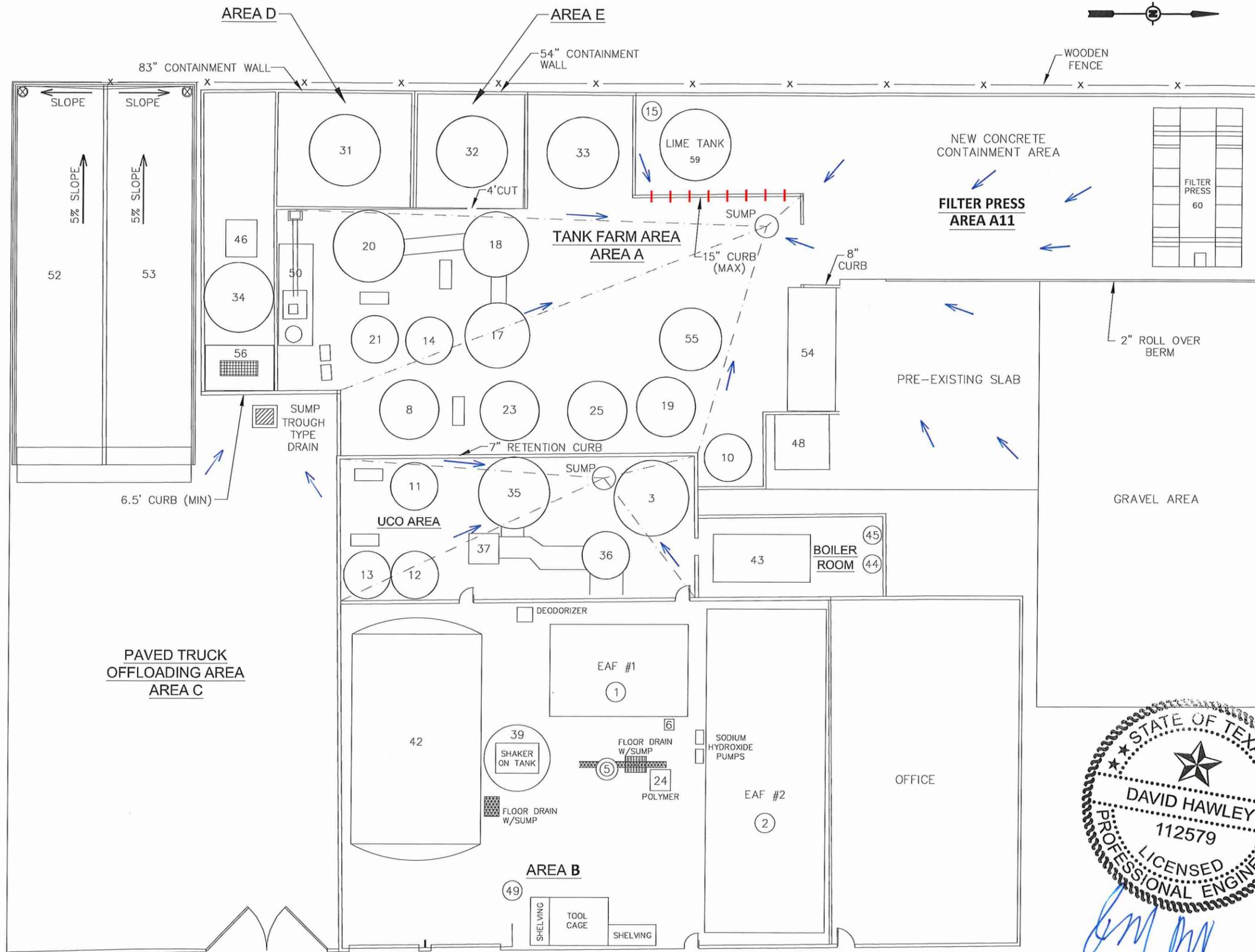
1. Wastes received will be analyzed annually for benzene, lead, and total petroleum hydrocarbons (TPH) – refer to Attachment I, Section C-2.
2. Grit trap wastes will be analyzed annually for biochemical oxygen demand, total suspended solids, benzene, TPH, and lead – refer to Attachment I, Section C-2.
3. Sludges that may be disposed of at a municipal solid waste landfill will be analyzed annually for benzene, lead, and TPH – refer to Attachment 1, Section 7
4. At a minimum, effluent from the facility will be analyzed annually for TPH, fats, oil and grease, and pH refer to SOP, Section 7.
5. Records of each analysis will be maintained at the facility for a minimum of three years – refer to SOP, Section 14.
6. All sampling and analysis will be done according to EPA approved methods – refer to Attachment II-1, Section E.

**5.0 Buffer Zone (330.543(b)(1))**

Per 30 TAC 330.543(b)(1), a minimum separating distance of 50 feet between solid waste storage/process units within and adjacent to the facility boundary on property owned or controlled by the owner/operator is required. The buffer zone shall not be narrower than necessary to provide for safe passage for fire fighting equipment and other emergency vehicles. LES has historically met this 50-foot buffer requirement along the south and west boundaries of the site by leasing land adjacent to its property boundary. The lease expires on June 30, 2026.

To ensure that there remains safe passage for fire fighting equipment and other emergency vehicles after the lease expires, LES met with the Dallas Fire Department (DFD) on August 20, 2025, to review the facility layout and allow DFD personnel to assess whether more than sufficient access for fire fighting or other emergency response would be available without the required 50-foot buffer. Following their review, the DFD determined that more than sufficient access is available without the buffer as long as pathways are maintained, regardless of the tank or equipment configuration, as documented in the Existing Fire Department Access Plan stamped by the DFD on September 10, 2025. A copy of this plan is provided as **Figure F1.00**.

## **FIGURES**



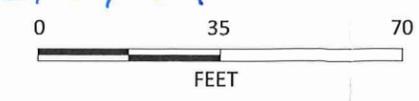
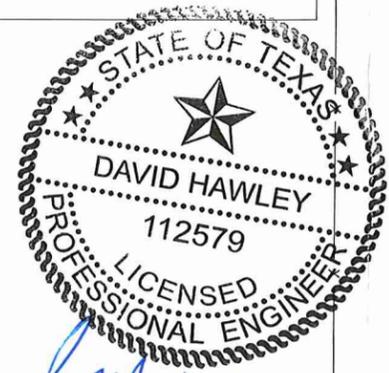
Tank and Equipment Schedule						
Item #	Containment Area	Equipment Placement	Size	Units	Equipment Type	Function
1	B	On Ground	11,500	gallons	Entrapped Air Flotation Tank	Grease Trap Treatment
2	B	On Ground	6,000	gallons	Entrapped Air Flotation Tank	Grease Trap Treatment
3	A	On Ground	15,000	gallons	Processing Tank	Grease Trap Treatment
4	B	On Ground	2,500	gallons	Sodium Hydroxide Tank	Chemical Storage
5	B	On Ground	550	gallons	Poly Tank	Transfer Tank
6	A	On Ground	10,000	gallons	Storage Tank	Wastewater Sludge Holding
7	A	On Ground	10,000	gallons	Storage Tank	Wastewater Sludge Holding
8	A	On Ground	10,000	gallons	Storage Tank	Wastewater Sludge Holding
9	A	On Ground	10,000	gallons	Storage Tank	Wastewater Sludge Holding
10	A	On Ground	10,000	gallons	Storage Tank	Wastewater Sludge Holding
11	A	On Ground	10,000	gallons	Storage Tank	Wastewater Sludge Holding
12	A	Elevated	6,000	gallons	Processing Tank	Yellow Grease Processing
13	A	Elevated	6,000	gallons	Storage Tank	Yellow Grease Offload
14	A	On Ground	10,000	gallons	Storage Tank	Brown Grease Storage
15	A	On Ground	360	gallons	Polymer Tote	Chemical Storage
16	A	Elevated	24,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
17	A	Elevated	18,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
18	A	Elevated	8,000	gallons	Storage Tank	Wastewater or Sludge Holding
19	A	Elevated	18,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
20	A	On Ground	10,000	gallons	Storage Tank	Brown Grease Storage
21	A	On Ground	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
22	A	On Ground	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
23	A	On Ground	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
24	B	On Ground	275	gallons	Polymer Tote	Treatment
25	A	On Ground	12,500	gallons	Storage Tank	Wastewater or Sludge Holding
26	D	On Ground	20,300	gallons	Grit Processing AGT	Grit Trap Treatment
27	E	Elevated	18,000	gallons	Grit Processing AGT	Grit Trap Treatment
28	A	On Ground	12,000	gallons	Storage Tank	Wastewater or Sludge Holding
29	A	On Ground	24,000	gallons	Grit Processing AGT	Offloading/Grit Trap Treatment
30	A	On Ground	8,000	gallons	Odor Control Scrubber	Air Scrubber Vent Tank (Air Only)
31	A	On Ground	2,000	gallons	Odor Control Scrubber	Scrubber Intake Tank
32	A	On Ground	30	HP	Odor Control Scrubber	Scrubber Fan
33	B	Elevated	5	HP	Vibratory Screen	Grease Trap Treatment
34	B	Elevated	10,000	gallons	Storage Tank	Bar screen Offload Tank
35	A	On Ground	350	HP	Steam Boiler	In Tank Material Heating
36	A	On Ground	500	gallons	Boiler Feed Water Tank	Boiler Feed Water System
37	A	On Ground	14	gpm	Water Softener System	Boiler Feed Water System
38	A	On Ground	700	gallons	Dissolved Air Flotation	Grit Trap Treatment
39	A	Elevated	50	HP	Air Compressor	Facility Main Air Supply
40	A	Elevated	3,000	gallons	Vacuum Tank	Various
41	C	In Ground	10,000	gallons	Settling Pit	Solidification
42	C	In Ground	10,000	gallons	Settling Pit	Solidification
43	A	Elevated	175	gpm	Centrifuge	Brown Grease Recovery
44	A	Elevated	10,000	gallons	Centrifuge Feed Tank	Centrifuge Feed System
45	A	Elevated	400	gpm	Mechanical Processing	Mechanical Debris Screen
46	A	On Ground	6,150	gallons	Storage Tank	Lime Tank
47	A	Elevated	750	gallons	Filter Press	Filter Press

**LEGEND**

- Stormwater Flow Direction
- 1" Drain Hole

**Notes:**

1. EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE NOT SHOWN TO SCALE.
2. EQUIPMENT SCHEDULE AND CONTAINMENT HEIGHTS ARE BASED ON INFORMATION PROVIDED TO CK ASSOCIATES BY LIQUID ENVIRONMENTAL SOLUTIONS, LLC.
3. CONTAINMENT HEIGHTS SHOWN ARE EXISTING. REFER TO SECONDARY CONTAINMENT CALCULATION SUMMARY TABLE FOR ADDITIONAL CONTAINMENT INFORMATION AND ATTACHMENT D.
4. APPROXIMATE LOCATIONS OF ELEVATED INCIDENTAL EQUIPMENT, SUCH AS PUMPS, ARE SHOWN FOR REFERENCE ONLY AND MAY NOT BE IDENTIFIED ON THE TANK AND EQUIPMENT SCHEDULE.



**Liquid Environmental Solutions**  
Dallas, Texas

Municipal Solid Waste (MSW) Permit 2069A

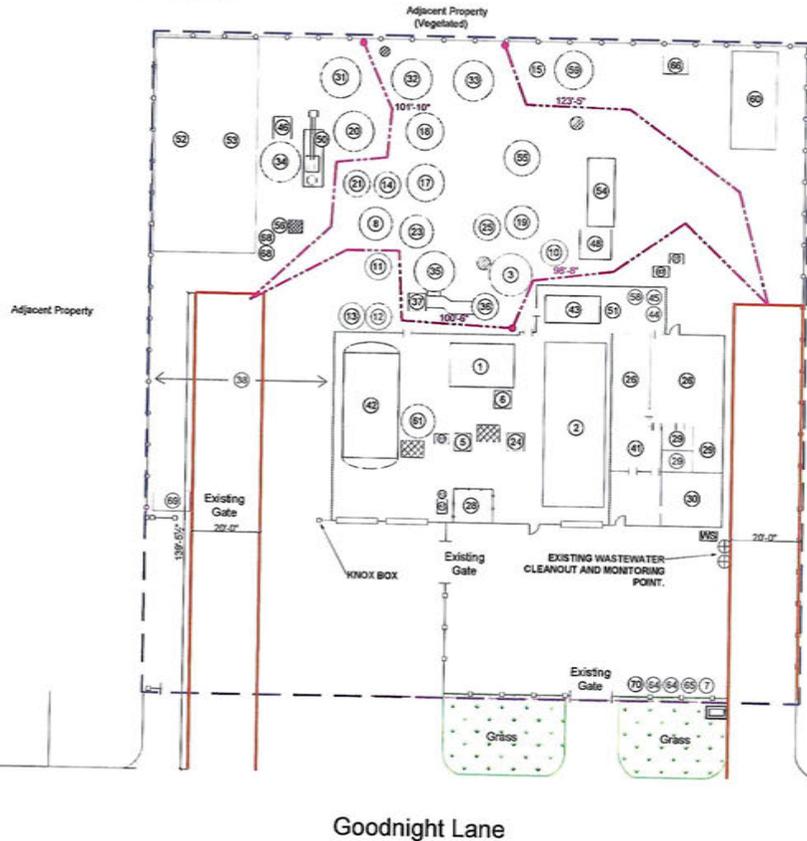
**General Facility Layout Map**

Dallas County

Drawn: APS	Checked: BHR
Date: 2/5/2026	Approved: DWH
Dwg. No.: 00002100-01	

**Figure II-2**

REVIEWED  
DALLAS FIRE DEPT.  
SUBJECT TO CORRECTIONS NOTED  
DATE 9-10-25 BY M. JAMESON  
REVIEW OF PLANS OR  
SPECIFICATIONS SHALL NOT BE  
CONSTRUED TO SANCTION ANY  
VIOLATIONS OF CODE



**KEY**

- ① EAF #1 (11,500-Gallon)
  - ② DAF #2 (6,000-Gallon)
  - ③ 15,000-Gallon Grease Trap Processing Tank
  - ④ N/A
  - ⑤ 2,500-Gallon Sodium Hydroxide Tank
  - ⑥ 550-Gallon Transfer Tank
  - ⑦ Flammable Cabinet
  - ⑧ 10,000-Gallon Tank (Not Used)
  - ⑨ N/A
  - ⑩ 10,000-Gallon Sludge Holding Tank
  - ⑪ 10,000-Gallon Yellow Grease Finished Product Tank
  - ⑫ 6,000-Gallon Yellow Grease Processing Tank
  - ⑬ 6,000-Gallon Yellow Grease Offload Tank
  - ⑭ 10,000-Gallon Sludge Holding Tank
  - ⑮ 350-Gallon Polymer Tote
  - ⑯ N/A
  - ⑰ 24,000-Gallon Offloading/Wastewater/Grease Trap
  - ⑱ 24,000-Gallon Offloading/Wastewater/Sludge Storage Tank
  - ⑲ 8,000-Gallon Wastewater or Sludge Storage Tank
  - ⑳ 20,000-Gallon Sludge Holding Tank
  - ㉑ 10,000-Gallon Tank (Not In Use)
  - ㉒ N/A
  - ㉓ 10,000-Gallon Tank Finish UCO
  - ㉔ 275-Gallon Polymer Tote
  - ㉕ 10,000-Gallon Wastewater or Sludge Storage Tank
  - ㉖ Break Room (Changing Room)
  - ㉗ Salt Storage Pile
  - ㉘ Tool Cage
  - ㉙ Restroom
  - ㉚ MAR Office
  - ㉛ 24,000-Gallon Frish BG
  - ㉜ 18,000-Gallon Grit Trap Processing AST
  - ㉝ 12,000-Gallon Centrate Processing
  - ㉞ 24,000-Gallon Offloading/Grit Trap AST
  - ㉟ 8,000-Gallon Air Scrubber Vent Tank (Air Only)
  - ⓫ 2,000-Gallon Scrubber Intake Tank
  - ⓬ Odor Control Scrubber (30 hp)
  - ⓭ Paved Truck Loading/Unloading
  - ⓮ Vibratory Screen (5 hp)
  - ⓯ N/A
  - ⓰ Lab
  - ⓱ 18,000-Gallon Tank (Not In Use)
  - ⓲ Steam Boiler (350 Hp)
  - ⓳ 500-Gallon Boiler Feed Water Tank
  - ⓴ Water Softener System (14 gpm)
  - ⓵ 700-Gallon Dissolved Air Flotation
  - ⓶ N/A
  - ⓷ Air Compressor (50 Hp)
  - ⓸ Spill Pallet
  - ⓹ Vacuum Pump
  - ⓺ Boiler Room
  - ⓻ Solidification Bunker
  - ⓼ Solidification Pits
  - ⓽ Centrifuge (175 gpm)
  - ⓾ 10,000-Gallon Centrifuge Feed Tank
  - ⓿ Mechanical Debris Screen (400 gpm)
  - ⓿ N/A
  - ⓿ Water Softener System
  - ⓿ 6,000-Gallon Lime Tank
  - ⓿ Filter Press
  - ⓿ Shaker
  - ⓿ N/A
  - ⓿ Soda Ash Pile
  - ⓿ Propane Cage
  - ⓿ Diesel Cage
  - ⓿ Grit Processing System
  - ⓿ Tote Storage
  - ⓿ Rock Box
  - ⓿ Saw Dust Bunker
  - ⓿ Propane Storage
  - ⓿ Electrical Shutoff
  - ⓿ Water Shutoff
  - ⓿ Wastewater Cleanouts/Monitoring Point #1
  - ⓿ Sump
  - ⓿ Drain with Sump
  - ⓿ Floor Drain
  - ⓿ City Wastewater Monitoring Point
  - ⓿ Chain-link Fence
  - ⓿ Wood Fence
- FIRE DEPARTMENT ACCESS LEGEND**
- Property Line
  - Existing Fire Department Access Lane
  - Existing Fire Department Travel Distance per DFC Section 503.1.1



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Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit  
Englewood | Fort Worth | Houston | Indianapolis | Knoxville | Los Angeles  
Miami | Minneapolis | New Haven | Philadelphia | Phoenix | Raleigh | San Antonio  
Portland | Raleigh | St. Louis | St. Paul | Tampa | Washington, DC

Consultants

Project

Liquid Environmental Solutions  
Fire Department Access  
Plan

Client

Liquid Environmental Solutions  
11115 Goodnight Ln  
Dallas, TX 75229

Mark	Date	Description

Project No: 2024.4263.0  
Date: August 20, 2025  
Drawn: PR  
Checked:  
Scale: As Noted



**EXISTING FIRE DEPARTMENT ACCESS PLAN**

SCALE: 1/16" = 1'-0"

**EXISTING FIRE DEPARTMENT ACCESS**

Sheet No **F1.00**

**Attachment D-2**

Part II Attachment II-1

Waste Analysis and Acceptance Plan

**TYPE V MUNICIPAL SOLID WASTE FACILITY TCEQ MSW PERMIT  
2069A**

**WASTE ACCEPTANCE and ANALYSIS PLAN**

For

**LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS, LLC**

**Dallas Facility  
11115 Goodnight Lane  
Dallas Texas 75229  
CN601540404  
RN103002713**

Prepared By

**C-K Associates, LLC  
TBPE Reg. #F-9628**

February 2026



*DM AW*  
*3/2/26*

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1. Generator Liquid Profile Sheet

## **A. INTRODUCTION**

Liquid Environmental Solutions of Texas, LLC (LES) is in the business of processing certain non-hazardous liquid wastes. The Dallas LES Facility processes grease trap/food-related and grit trap waste streams. The facility is designed to separate and process the waste streams received into recyclable components, water suitable for discharge into the sanitary sewer system and solid materials for appropriate disposal. The acceptance and processing of these waste requires a Type V Municipal Solid Waste (MSW) Permit and the LES Dallas facility holds MSW Permit 2069A. The purpose of this permit modification request is to bring the permit up to date with changes made previously under Temporary Authorization Approvals as noted below and propose changes to the current permit for improvements necessary to improve operations.

This permit application submittal retains the previous permit documents and only those additions that are changed within this February 2026 revision are being submitted as Permit Revision 17.

## **B. SOURCES AND CHARACTERISTICS OF WASTES (330.61 (b), 330.203 (a))**

The LES Dallas Facility accepts three categories of non-hazardous wastes: grease trap wastes, Class 2 Industrial solids (food-related) wastes, and grit trap (and related) wastes. All other types of wastes are prohibited for processing or disposal at the facility. Detailed waste acceptance procedures and management controls have been developed to prevent acceptance of unauthorized wastes for processing.

### **1. Grease Trap and Food-Related Wastes:**

LES will accept and process non-hazardous grease trap and Class 2 Industrial food-related wastes from: restaurants, food preparation facilities, other food-related industries and other sources, serviced by its own and independent third-party vacuum trucks. Since the municipal and commercial businesses that transport grease trap waste to LES do not normally generate waste streams that contain any hazardous constituents, it is highly unlikely that any regulated hazardous waste will be contained in these wastes. All waste will be documented using an appropriate trip ticket/manifest.

Grease trap waste is composed of food grease, trash, food particles and/or water. Pollutant concentrations are extremely variable, depending upon, among other factors, the generator, the size of the trap and the frequency with which the trap is pumped. In most cases, the wastes contain floating matter are made up primarily of animal and vegetable grease and oil, settled food particles, and wastewater containing large amounts of dissolved and suspended food matter. The wastes are typically characterized by high levels of BOD and TSS and are

acidic, with pH levels generally in the 4.0 to 5.0 range. Class 2 Industrial food-related waste is typically composed of food solids, fats, oils and grease.

## **2. Grit Trap Wastes:**

LES will accept and process non-hazardous grit trap/lint trap waste from car washes, garages, laundries, service stations, repair and maintenance shops, transport firms, car dealerships, and similar generators serviced by its own and independent third-party vacuum trucks. A grit trap is an interceptor in a sewer line designed to trap sand, grit, mud and heavy soils from car washes and other facilities that wash dirt and grime from equipment. All waste will be documented using the trip ticket system as described above for grease traps/food related wastes. If large quantities of floating petroleum or synthetic petroleum oils are encountered, the oil will be separated and disposed or recycled through a waste oil or used oil recycler or processor. Chemical Analysis will be performed to ensure that all new customer waste streams will be acceptable for processing.

Grit trap waste pollutant concentrations are extremely variable. In most cases, the wastes contain floating matter made up primarily of petroleum and synthetic petroleum grease and oil; settled dirt and sand with wash down products such as matches, cigarettes, spark plugs, grass and sticks;

Treatment of wastes on site yields treated effluent, heavy solids, sludge, and recovered oil and grease. These facility-generated wastes are disposed of as described in Section 7 of the SOP.

## **3. Rejected Wastes**

Rejected wastes will not be accepted, and therefore not offloaded at the facility (TAC 330.203, TAC 330.225).

## **C. SAMPLING OF WASTES RECEIVED AND FACILITY EFFLUENT (330.203 (c))**

Analytical testing of wastes received depends upon waste type. Minimal analytical requirements are specified at 30 TAC 330.203 (c) pertaining to wastes received, sludges disposed at landfills, and facility effluent. Recordkeeping and methods requirements are also stated. These requirements, listed below, are also incorporated into the referenced sections of the facility permit documents:

1. Wastes received will be analyzed annually for benzene, lead, and total petroleum hydrocarbons (TPH).

2. Grit trap wastes will be analyzed annually for biochemical oxygen demand, total suspended solids, benzene, TPH, and lead.
3. Sludges that may be disposed of at a municipal solid waste landfill will be analyzed annually for benzene, lead, and TPH.
4. At a minimum, effluent from the facility will be analyzed annually for TPH, fats, oil and grease, and pH.
5. Records of each analysis will be maintained at the facility for a minimum of three years.
6. All sampling and analysis will be done according to EPA approved methods.
7. If trip ticket/manifest information does not significantly vary from the information on the waste profile, a waste sample will be taken from the truck and analyzed.
8. If a waste exhibits a pH of less than 2.0 or greater than 12.5 units (<2.0 or >12.5), it will not be accepted. If a load is rejected for any other reason, the generator will be contacted and, with generator approval, paperwork for further analysis will be prepared. If the load is subsequently accepted, the customer will be notified of any additional processing charges before it is unloaded. If a load is rejected, the driver will be instructed to leave the facility and transport the waste to a location determined by the generator.
9. If a load is accepted, the driver will be forwarded to an off-load operator who will direct the driver to the appropriate receiving location.
10. Results on in-bound shipment analysis will be recorded on the Daily Receiving Report, which is kept in the Facility office for a minimum of three years.

#### **D. Waste Analysis Procedures**

Grit trap wastes will be subjected to various waste analysis procedure consisting of waste profile pre-approval analysis (i.e., analysis conducted before the waste is delivered to the Facility) and screening analysis at the Facility.

Waste Profile Pre-Approval Analysis and Generally Acceptable Limits

Table 1 identifies the waste profile pre-approval analysis and the generally acceptable limits:

<b>Table 1: Waste Profile Pre-Approval Analysis – Generally Acceptable Limits</b>	
Analysis	Limit
Administrative	Waste Profile is complete, recent (<1 year old), independent Laboratory Analysis is complete.
pH	Between (and not including) 2.0 and 12.5 pH units
COD	<15,000 mg/L
Flame Test	Positive or Negative, if positive note color
Flash Point	Greater than or equal to 140°F (> <u>140</u> °F)
Total Halogen	Less than 1,000 ppm
Toxicity	Below (TCLP Regulatory Limits indicated in 30 TAC 335.521 (a)(1) and 40 CFR 261.24(b) Table 1.
Physical Appearance	Consistent with waste type

Under no circumstance will a waste that fails the stated criteria in Table 1 for pH, flashpoint and/or toxicity be accepted for processing by the Facility.

For the waste that are outside the acceptable ranges, the generator will determine if the waste is to be returned to their facility or transported to an alternative processing facility.

In accordance with 30 TAC 330.203 (c), wastes received by the facility must be analyzed at least annually for benzene, lead, and total petroleum hydrocarbons (TPH). Grit trap wastes must also be analyzed at least annually for biochemical oxygen demand (BOD) and total suspended solids (TSS).

**E. Sample Collection Procedures**

LES will collect samples of the waste presented for processing for testing prior to acceptance.

**F. Waste Analytical Methods**

All waste analyses must be conducted in accordance with EPA-approved methods in order to be accepted by the facility. Such analyses include all testing of wastes reported on the waste profile as well as waste acceptance analyses.

**G. LES Quality Assurance and Quality Control (QA/QC) Program Overview**

**1. Purpose**

The purpose of the QA/QC program is to ensure that all data is scientifically valid and of known precision and accuracy.

## **2. Analytical Performance Evaluation**

On an annual basis, samples will be collected from two truckloads of grit trap waste. These samples will be analyzed by both an independent laboratory and by facility staff for any constituents other than pH measured by facility staff. Results of the split sampling will be compared. If substantial deviations in analytical results are observed, additional sampling will be conducted and/or corrective measures will be implemented as appropriate. To ensure quality pH measurements, all pH instruments will be calibrated in accordance with manufacturer's instructions at least daily prior to use.

## **3. Reagent/Standard Preparation**

All reagents and standards will be obtained commercially prepared. Only reagents and standards that are with expiration dates will be used by the laboratory. Reagents and standards that have expired will be removed from the laboratory and properly disposed.

## **4. Decontamination**

All equipment that is reused will be decontaminated. Decontamination consists of washing equipment with soap and rinsing with distilled water. When possible, single use, disposable equipment will be used. Clean equipment will be protected from potential contamination.

## **5. Audits and Corrective Action**

Audits of analytical procedures performed by facility personnel will be conducted at least annually. At least semiannually, sample collection practices will be evaluated for each applicable employee to ensure they are collecting and handling samples in accordance with standard laboratory practices. All review and audit findings and corrective actions will be documented and maintained in the office at the Facility.

## **H. Record Retention**

LES will retain all waste analysis results and records as part of the operating record. Operating Records will be retained at the Facility for not less than three (3) years.

## **I. Emergency Preparedness and Spill Contingency Summary.**

*Original Application – June 1, 1987*  
*Major Document Reorganization – August 24, 2009*  
*Revision – October 6, 2009*  
*Revision – February 22, 2010*  
*Revision – April 12, 2010*  
*Revision – November 2017*  
*Revision – March 2026*

A separate Employee/Fire Action Plan has been prepared for the facility which complies with the requirements listed in 30 TAC §330.221(c), as it establishes the source of fire protection to include the local fire department and use of fire extinguishers. All employees are trained on the fire protection plan which complies with local fire codes. Training records for this plan are kept with employee files at the Corporate office for the life of the site, along with other employee training records for topics such as spill prevention and site safety.

**Attachment D-3**

Attachment SDP-2

Final Closure Plan

Original Application – June 1, 1987  
Major Document Reorganization – August 24, 2009  
Revision – October 6, 2009  
Revision – February 22, 2010  
Revision – April 12, 2010  
Revision – November 2017  
Revision – March 2026

**Type V Municipal Solid Waste Facility  
TCEQ MSW Permit 2069A**

**Attachment SDP-2  
Final Closure Plan**

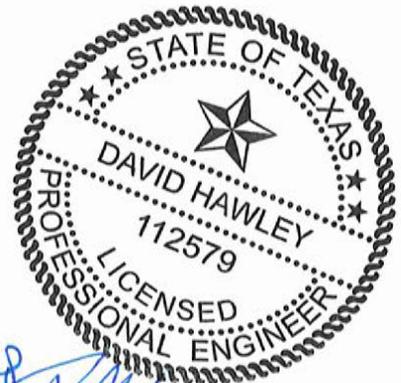
For

**LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS, LLC  
Dallas Facility  
11115 Goodnight Lane  
Dallas, TX 72229  
CN603229436  
RN103002713**

Prepared by:

**C-K Associates, LLC  
TBPE Reg.# F-9628**

March 2026



*Firm NO. 9628*  
*[Signature]*  
*3/2/26*

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### Appendices

- A. Closure Cost Estimate for the LES Dallas Facility**

## 1. Implementation of the Final Closure Plan

In accordance with 30 TAC 330.461(a), Liquid Environmental Solutions of Texas, LLC (LES) shall submit, no later than 90 days prior to the initiation of closure activities, written notification to the Executive Director of the Texas Commission on Environmental Quality (TCEQ) of the intent to close the Facility and place this notice of intent in the operating record. LES shall also, no later than 90 days prior to the initiation of a final facility closure. This notice shall provide the name, address, and physical location of the facility, the permit number and the last date of intended receipt of waste. LES shall also make available an adequate number of copies of the approved final closure plan for public access and review.

In accordance with 30 TAC 330.461(b), upon notification to the Executive Director, LES shall post a minimum of one sign at the main entrance and all other frequently used points of access for the facility for the facility notifying all persons who may utilize the facility or site of the date of closing for the Facility and the prohibition against further receipt of waste materials after the stated date. Further, suitable barriers shall be installed at all gates to adequately prevent the unauthorized dumping of solid waste at the facility.

In accordance with 30 TAC 330.461(c), within ten days after completion of all final closure activities for the Facility, LES shall submit to the Executive Director for review and approval a certification, signed by an independent registered professional engineer, verifying that final closure has been completed in accordance with the approved final closure plan. The submission to the Executive Director shall include all applicable documentation necessary for certification of final closure.

In accordance with 30 TAC 330.459 (d), LES shall complete final closure activities for the Facility in accordance with the approved plan within 180 days following the most recent acceptance of wastes unless otherwise approved in writing by the Executive Director. If required, a request, to the Executive Director for an extension for the completion of final closure activities should include all applicable documentation necessary to demonstrate that final closure will, of necessity, take longer than 180 days and all steps have been taken and will continue to be taken to prevent threats to human health and the environment from the site.

## 2. Procedure for Closure of Facility by Operator

The Closure of the Facility would be conducted by the Operator in the following sequence:

- a. Process as much of the grease trap and grit trap waste through the existing corresponding wastewater processing system as practical.
- b. Remove sludge from tank bottoms and place in appropriate transport containers. Dispose of sludge at an authorized disposal or re-use facility.
- c. Empty grease and grit trap oil tanks. Transport the material to a TCEQ approved disposal or recycling facility.

- d. Using a high pressure, low volume power wash unit, decontaminate empty tanks, hard plumbed piping, other wetted equipment (excluding the wastewater treatment process units), and process areas exhibiting exposure to wastes (e.g. stained concrete) with soap and water or equivalent. Decontaminate piping and equipment by circulating the cleaning solution through the piping and ancillary equipment. Rinse the tanks, loading and offloading areas, concrete pads, pumps and associated equipment, secondary containment systems, etc., as necessary with water using the power wash unit until all soap and residuals are removed. Transfer wash down waters to the appropriate wastewater treatment system.
- e. Decontaminate and rinse the wastewater treatment process units using the same procedures specified in step (d) above. Collect wash down waters and any remaining grease trap and/or grit trap wastes and transport the material to an authorized disposal or re-use facility.
- f. Terminate operations in the wastewater treatment systems.
- g. Collect a rinsate sample for all equipment and piping that is known or believed to have contacted wastes (e.g. tanks, pumps, processing equipment and interconnecting piping). Analyze the rinsate sample or samples for, at a minimum, pH, RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), and Total Petroleum Hydrocarbons (TPH) by Method TX 1005 and TX 1006.
- h. Characterize and dispose or recycle remaining chemicals at the Facility.
- i. Observe the site for signs of possible releases. Assuming no releases are evident, collect a minimum of four surface soil samples from native materials. Surface samples are assumed to be a minimum of 1 foot below current ground surface provided there are no visual impacts below this depth. At a minimum, samples shall be analyzed for pH, RCRA metals, and Total Petroleum Hydrocarbons by Method TX 1005. Additionally, the sample with the highest result by the TX 1005 Method shall be analyzed by TX 1006. Additional samples may need to be collected depending on the nature of chemicals stored in the vicinity of the release. Subsurface samples may need to be collected depending on the presence of visual impacts and groundwater may need to be sampled if encountered. These decisions shall be made by a qualified professional engineer.
- j. Prepare Closure Report (Remedial Action Completion Report) for submission to the TCEQ. The Closure Report must be prepared or reviewed and sealed by a qualified professional engineer.

### **3. Procedure for Closure of the Facility by an Independent Third Party**

The Closure of the Facility would be conducted by an independent third party in the following sequence:

- a. Characterize the liquid in the tanks and processing equipment.
- b. Remove and transport liquids to an appropriate disposal or recycling facility.
- c. Characterize sludge from tank bottoms and equipment. Containerize sludge and transport to an authorized off-site waste disposal facility.

- d. Using a high pressure low volume power wash unit, decontaminate empty tanks, hard plumbed pipes, other wetted equipment, and process areas exhibiting exposure to wastes (e.g. stained concrete) with soap and water or equivalent. Decontaminate piping and equipment by circulating the cleaning solution through the piping and ancillary equipment. Rinse the tanks, treatment equipment, loading and unloading area, concrete pads, pumps and associated equipment, secondary containment system, etc. as necessary using the power wash unit until all soap and residuals are removed. Characterize wash down waters and transfer to an appropriate transport container for disposal or recycling at an off-site facility.
- e. Collect a rinsate sample for all equipment and piping that is known or believed to have contacted wastes (e.g. tanks, pumps, processing equipment, and interconnecting piping). Analyze the rinsate samples for, at a minimum, pH, RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), and Total Petroleum Hydrocarbons (TPH) by method TX1005 and TX1006.
- f. Characterize and dispose or recycle remaining chemicals and equipment at the Facility.
- g. Observe the site for signs of possible releases. Assuming no releases are evident, collect a minimum of four surface samples from native material. Surface samples are assumed to be a minimum of 1 foot in below current ground surface provided there are no visual impacts below this depth. At a minimum, samples shall be analyzed for pH, RCRA metals, and Total Petroleum Hydrocarbons by Method TX 1005. Additionally, the sample with the highest result by the TX 1005 Method shall be analyzed by TX 1006. Additional samples may need to be collected depending on the nature of chemicals stored in the vicinity of the release. Subsurface samples may need to be collected depending on the presence of visual impacts and groundwater may need to be sampled if encountered. These decisions shall be made by a qualified professional engineer.
- h. Prepare Closure Report (Remedial Action Completion Report) for submission to the TCEQ. The Closure Report must be prepared or reviewed and sealed by a qualified professional engineer.

#### 4. **Basis for Closure Cost Estimate**

To estimate closure costs for the facility, it was assumed that all tanks at the facility contain the full tank storage capacity of its designated waste at the time of closure and that closure is performed by an independent third party contractor in accordance with the procedures described in Section 3. The closure cost estimate covers labor associated with hauling and disposing of full volumes of on-site wastes and cleaning the site as described in this closure plan. Costs for sampling and analysis have also been included. Costs for project management under the supervision of an independent licensed professional engineer were estimated at 15% of the project cost. A 15% contingency cost was added to complete the total closure cost estimate.

LES is required to demonstrate adequate financial assurance for closure of the facility in accordance with 30 TAC 37 Subchapter R and by reference, Subchapters A, B, C, and D.

*Original Application – June 1, 1987*  
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*Revision – October 6, 2009*  
*Revision – February 22, 2010*  
*Revision – April 12, 2010*  
*Revision – November 2017*  
*Revision – March 2026*

## **Appendix A**

### **Closure Cost Estimate for the LES Dallas Facility**

Item No.	Tank ID	Capacity (gal)	Contents	Total Gallons (Disposal)	Cost Per Gallon <sup>1,3</sup>	Tank Placement	Disposal Cost
EAF1	EAF Unit	11,500	Grease Trap Treatment	11,500	\$0.62	On Ground	\$7,130
EAF2	EAF Unit	6,000	Grease Trap Treatment	6,000	\$0.62	On Ground	\$3,720
3	Processing Tank	15,000	Grease Trap Treatment	15,000	\$0.62	On Ground	\$9,300
5	Storage Tank	2,500	Chemical Storage	2,500	\$5.43	On Ground	\$13,581
6	Poly Tank	550	Transfer Tank	550	\$0.62	On Ground	\$341
8	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	\$0.62	On Ground	\$6,200
10	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	\$0.62	On Ground	\$6,200
11	Storage Tank	10,000	Yellow Grease Finished Product	10,000	\$0.62	On Ground	\$6,200
12	Processing Tank	6,000	Yellow Grease Processing & Offload	6,000	\$0.62	Elevated	\$3,720
13	Storage Tank	6,000	Yellow Grease Offload	6,000	\$0.62	Elevated	\$3,720
14	Storage Tank	10,000	Brown Grease Storage	10,000	\$0.62	On Ground	\$6,200
15	Polymer Tote	360	Chemical Storage	360	\$1.73	On Ground	\$622
17	Storage Tank	24,000	Offloading/Wastewater/Sludge Holding	24,000	\$0.62	Elevated	\$14,880
18	Storage Tank	18,000	Offloading/Wastewater/Sludge Holding	18,000	\$0.62	Elevated	\$11,160

Item No.	Tank ID	Capacity (gal)	Contents	Total Gallons (Disposal)	Cost Per Gallon <sup>1,3</sup>	Tank Placement	Disposal Cost
19	Storage Tank	8,000	Wastewater or Sludge Holding	8,000	\$0.62	Elevated	\$4,960
20	Storage Tank	18,000	Offloading/Wastewater/Sludge Holding	18,000	\$0.62	Elevated	\$10,260
21	Storage Tank	10,000	Brown Grease Storage	10,000	\$0.62	On Ground	\$5,700
23	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	\$0.62	On Ground	\$6,200
24	Polymer Tote	275	Storage	275	\$0.62	On Ground	\$6,200
25	Storage Tank	12,500	Wastewater or Sludge Holding	12,500	\$0.62	On Ground	\$7,750
31	Grit Processing AST	20,300	Grit Trap Treatment	20,300	\$0.62	On Ground	\$12,586
32	Grit Processing AST	18,000	Grit Trap Treatment	18,000	\$0.62	Elevated	\$11,160
33	Storage Tank	12,000	Wastewater or Sludge Holding	12,000	\$0.62	On Ground	\$7,440
34	Grit Processing AST	24,000	Grit Trap Treatment	24,000	\$0.62	On Ground	\$14,880
35	Odor Control Scrubber	8,000	Air Scrubber Vent Tank	8,000	\$0.62	On Ground	\$4,960
36	Odor Control Scrubber	2,000	Scrubber Intake Tank	2,000	\$0.62	On Ground	\$1,240
42	Storage Tank	10,000	Bar Screen Offload Tank	10,000	\$0.62	On Ground	\$6,200

Item No.	Tank ID	Capacity (gal)	Contents	Total Gallons (Disposal)	Cost Per Gallon <sup>1,3</sup>	Tank Placement	Disposal Cost
50	Vacuum Tank	3,000	Various	3,000	\$0.62	On Ground	\$1,860
52	Settling Pit	10,000	Solidification	10,000	\$0.62	On Ground	\$6,200
53	Settling Pit	10,000	Solidification	10,000	\$0.62	On Ground	\$6,200
55	Centrifuge Feed Tank	10,000	Sludge Holding	10,000	\$0.62	On Ground	\$6,200
59	Storage Tank	6,150	Lime Tank	6,150	\$6.61	On Ground	\$40,657
60	Filter Press	750	Filter Press	750	\$0.17	Elevated	\$131
			Total Disposal (gals)	322,885		T&D Cost	\$249,129

Tank Cleaning Project Management and Contingency							
Tank Cleaning Services		300,600	Gallons @ a rate pf \$0.33/gal <sup>2</sup>	T&D Cost	\$99,198		\$99,198
Sampling <sup>4</sup>							\$4,000
Analytical <sup>5</sup>							\$1,230
Project Management, HSP, Work Plan <sup>6</sup>						15%	\$37,396
Contingency						15%	\$37,396
Total Closure Cost							\$428,295

Notes:

Revised March 2026 based on current disposal rates (see invoice copies)

<sup>1</sup> These unit transportation and disposal (T&D) costs are representative of the cost to contract an outside disposal company to remove the tank contents and transport them for disposal/recycling to a facility licensed for disposal wastes.

<sup>2</sup> Costs provided by HydroTex Excavation for tank cleaning based on invoices received from client.

<sup>3</sup> Costs provided by Republic Waste Services for waste removal and site cleaning. Any tank that contains sludge or grit inside the tank, the cost is approximately \$0.62/gallon.

<sup>4</sup> Sampling costs are estimated for four surface samples as per closure plan.

<sup>5</sup> Analytical costs for samples provided by Eurofins.

<sup>6</sup> Estimate for engineering associated with closure, including certification of closure report, health and safety plan and work plan.

<sup>7</sup> Base cost estimate from "Opinion of Probable Closure Costs - LES Dallas facility" revised February 22, 2010 by Brown and Caldwell, known as Opinion of Probable Closure Costs - LES Dallas Facility in the Application Part III - Site Development Plan, signed and sealed by Horacio Juarez, P.E. on April 14, 2010.

This is consistent with November 2012 submittal

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*Revision – March 2026*

## **FINANCIAL ASSURANCE MECHANISM**

To Be Provided

*Original Application – June 1, 1987*  
*Major Document Reorganization – August 24, 2009*  
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*Revision – February 22, 2010*  
*Revision – April 12, 2010*  
*Revision – November 2017*  
*Revision – March 2026*

## **CLOSURE COST BACKUP INFORMATION (2026 COST ESTIMATES)**

BLUE RIDGE LANDFILL TEXAS LP - 5112  
 PO BOX 677839  
 DALLAS, TX 75267-7839  
 (713) 675-6101



**REPUBLIC**  
 SERVICES

**INVOICE**

Invoice Date: 02/08/2026  
 Invoice No: 5112-000439043  
 Customer No: 4-5112-0100694

Page No: Page 1 of 4  
 Due Date: UPON RECEIPT

LIQUID ENVIRONMENTAL SOLUTIONS  
 OF TEXAS LP  
 250 GELLHORN  
 HOUSTON, TX 77013

Current Charges: \$48,051.37  
 Total Amount Due: \$349,828.14

Please pay total amount due

Billing Questions? Call (713) 675-6101

**Thank you for your business! Please be sure to remit payments to our lockbox address shown on the bottom of the invoice.**

Date	Code	Description	Reference	Rate	Quantity	Amount
2/02	VY	SW-SPECIAL WASTE-LIQUID	Y9-1615892	0.57	5,000.00 GA	\$2,850.00
2/02	VY	Reference: 027929294JJK				
2/02	VY	Vehicle: LIQ375701				
2/02	VY	Contract: 5112227380				
2/02	{1	ENVIRONMENTAL FEE 1	SC760270	19.71	1.00	\$19.71
2/02	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/02	}1	FUEL RECOVERY FEE	SC760271	8.13	1.00	\$232.27
2/02	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/02	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760267	7.00	1.00	\$7.00
2/02	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616006	0.57	5,000.00 GA	\$2,850.00
2/02	VY	Reference: 027929293JJK				
2/02	VY	Vehicle: LIQ375701				
2/02	VY	Contract: 5112227380				
2/02	{1	ENVIRONMENTAL FEE 1	SC760349	19.71	1.00	\$19.71
2/02	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/02	}1	FUEL RECOVERY FEE	SC760350	8.13	1.00	\$232.27
2/02	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/02	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760331	7.00	1.00	\$7.00
2/02	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616032	0.57	5,000.00 GA	\$2,850.00
2/02	VY	Reference: 027929292JJK				
2/02	VY	Vehicle: LIQ1348				
2/02	VY	Contract: 5112227380				
2/02	{1	ENVIRONMENTAL FEE 1	SC760421	19.71	1.00	\$19.71
2/02	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/02	}1	FUEL RECOVERY FEE	SC760422	8.13	1.00	\$232.27
2/02	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/02	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760367	7.00	1.00	\$7.00
2/03	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616127	0.57	5,000.00 GA	\$2,850.00
2/03	VY	Reference: 027929291JJK				
2/03	VY	Vehicle: LIQ375701				
2/03	VY	Contract: 5112227380				
2/03	{1	ENVIRONMENTAL FEE 1	SC760467	19.71	1.00	\$19.71
2/03	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/03	}1	FUEL RECOVERY FEE	SC760468	8.13	1.00	\$232.27
2/03	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/03	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760450	7.00	1.00	\$7.00
2/03	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616180	0.57	3,300.00 GA	\$2,280.00
2/03	VY	Reference: 027929290JJK				
2/03	VY	Vehicle: LIQ0842				
2/03	VY	Contract: 5112227380				
2/03	{1	ENVIRONMENTAL FEE 1	SC760527	19.71	1.00	\$19.71
2/03	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/03	}1	FUEL RECOVERY FEE	SC760528	8.13	1.00	\$185.93
2/03	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/03	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760503	7.00	1.00	\$7.00

Date	Code	Description	Reference	Rate	Quantity	Amount
2/03	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616191	0.57	5,000.00 GA	\$2,850.00
2/03	VY	Reference: 027929289JJK				
2/03	VY	Vehicle: LIQ375701				
2/03	VY	Contract: 5112227380				
2/03	{1	ENVIRONMENTAL FEE 1	SC760534	19.71	1.00	\$19.71
2/03	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/03	}1	FUEL RECOVERY FEE	SC760535	8.13	1.00	\$232.27
2/03	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/03	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760522	7.00	1.00	\$7.00
2/03	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616274	0.57	5,000.00 GA	\$2,850.00
2/03	VY	Reference: 027929288JJK				
2/03	VY	Vehicle: LIQ1167				
2/03	VY	Contract: 5112227380				
2/03	{1	ENVIRONMENTAL FEE 1	SC760607	19.71	1.00	\$19.71
2/03	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/03	}1	FUEL RECOVERY FEE	SC760608	8.13	1.00	\$232.27
2/03	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/03	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760586	7.00	1.00	\$7.00
2/04	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616342	0.57	5,000.00 GA	\$2,850.00
2/04	VY	Reference: 027929287JJK				
2/04	VY	Vehicle: LIQ375701				
2/04	VY	Contract: 5112227380				
2/04	{1	ENVIRONMENTAL FEE 1	SC760626	19.71	1.00	\$19.71
2/04	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/04	}1	FUEL RECOVERY FEE	SC760627	8.13	1.00	\$232.27
2/04	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/04	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760618	7.00	1.00	\$7.00
2/04	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616477	0.57	5,000.00 GA	\$2,850.00
2/04	VY	Reference: 027929286JJK				
2/04	VY	Vehicle: LIQ1167				
2/04	VY	Contract: 5112227380				
2/04	{1	ENVIRONMENTAL FEE 1	SC760852	19.71	1.00	\$19.71
2/04	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/04	}1	FUEL RECOVERY FEE	SC760853	8.13	1.00	\$232.27
2/04	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/04	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760806	7.00	1.00	\$7.00
2/05	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616547	0.57	5,000.00 GA	\$2,850.00
2/05	VY	Reference: 027929285JJK				
2/05	VY	Vehicle: LIQ375701				
2/05	VY	Contract: 5112227380				
2/05	{1	ENVIRONMENTAL FEE 1	SC760899	19.71	1.00	\$19.71
2/05	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/05	}1	FUEL RECOVERY FEE	SC760900	8.13	1.00	\$232.27
2/05	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/05	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760891	7.00	1.00	\$7.00
2/05	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616607	0.57	5,000.00 GA	\$2,850.00
2/05	VY	Reference: 027929284JJK				
2/05	VY	Vehicle: LIQ1348				
2/05	VY	Contract: 5112227380				
2/05	{1	ENVIRONMENTAL FEE 1	SC760959	19.71	1.00	\$19.71
2/05	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/05	}1	FUEL RECOVERY FEE	SC760960	8.13	1.00	\$232.27

Date	Code	Description	Reference	Rate	Quantity	Amount
2/05	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/05	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760954	7.00	1.00	\$7.00
2/05	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616666	0.57	5,000.00 GA	\$2,850.00
2/05	VY	Reference: 027929283JJK				
2/05	VY	Vehicle: LIQ375701				
2/05	VY	Contract: 5112227380				
2/05	{1	ENVIRONMENTAL FEE 1	SC760992	19.71	1.00	\$19.71
2/05	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/05	}1	FUEL RECOVERY FEE	SC760993	8.13	1.00	\$232.27
2/05	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/05	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	760976	7.00	1.00	\$7.00
2/06	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616801	0.57	5,000.00 GA	\$2,850.00
2/06	VY	Reference: 027929282JJK				
2/06	VY	Vehicle: LIQ375701				
2/06	VY	Contract: 5112227380				
2/06	{1	ENVIRONMENTAL FEE 1	SC761090	19.71	1.00	\$19.71
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2/06	}1	FUEL RECOVERY FEE	SC761091	8.13	1.00	\$232.27
2/06	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/06	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	761062	7.00	1.00	\$7.00
2/06	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616914	0.57	5,000.00 GA	\$2,850.00
2/06	VY	Reference: 027929280JJK				
2/06	VY	Vehicle: LIQ375701				
2/06	VY	Contract: 5112227380				
2/06	{1	ENVIRONMENTAL FEE 1	SC761261	19.71	1.00	\$19.71
2/06	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/06	}1	FUEL RECOVERY FEE	SC761262	8.13	1.00	\$232.27
2/06	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/06	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	761253	7.00	1.00	\$7.00
2/06	VY	SW-SPECIAL WASTE-LIQUID	Y9-1616967	0.57	5,000.00 GA	\$2,850.00
2/06	VY	Reference: 027929281JJK				
2/06	VY	Vehicle: LIQ1348				
2/06	VY	Contract: 5112227380				
2/06	{1	ENVIRONMENTAL FEE 1	SC761334	19.71	1.00	\$19.71
2/06	{1	(\$19.71 / Ticket )ENVIRONMENTAL FEE 1 \$1				
2/06	}1	FUEL RECOVERY FEE	SC761335	8.13	1.00	\$232.27
2/06	}1	(8.13% / Ticket )FUEL RECOVERY FEE				
2/06	E5	EPA MANIFEST FEE-DATA & IMAGE UPLO.	761302	7.00	1.00	\$7.00
2/08	F5	TCEQ -CLASS1(IN TEX) at \$6.72/TN on 30		0.00		\$2,033.01

Material / Fee Summary

{1	ENVIRONMENTAL FEE 1	15.00	\$295.65
}1	FUEL RECOVERY FEE	15.00	\$3,437.71
E5	EPA MANIFEST FEE-DATA & IMAGE UPLOAD \$10	15.00	\$105.00
F5	TCEQ -CLASS1(IN TEX) at \$6.72/TN	302.53	\$2,033.01
VY	SW-SPECIAL WASTE-LIQUID	73,300.00 GA	\$42,180.00

Date	Code	Description	Reference	Rate	Quantity	Amount
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Current	31-60 Days	61-90 Days	Over 90 Days	Total Amount Due
\$191,176.43	\$118,271.54	\$40,380.17	\$0.00	\$349,828.14

**please return this portion below with your payment. Do not attach check stub.**



BLUE RIDGE LANDFILL TEXAS LP - 5112  
 PO BOX 677839  
 DALLAS, TX 75267-7839  
 (713) 675-6101

**Invoice Date** 02/08/2026  
**Invoice No** 5112-000439043  
**Customer No** 4-5112-0100694

Current Charges \$48,051.37  
**Total Amount Due** \$349,828.14

**Please write your account number on your check and make payable to:**

Amount Paid: \_\_\_\_\_

**Please Return Payment to:** BLUE RIDGE LANDFILL TEXAS LP - 5112  
 PO BOX 677839  
 DALLAS, TX 75267-7839

LIQUID ENVIRONMENTAL SOLUTIONS  
 OF TEXAS LP  
 250 GELLHORN  
 HOUSTON, TX 77013

CAMELOT LANDFILL - 4525  
 PO BOX 677839  
 DALLAS, TX 75267-7839  
 (972) 434-3618



**INVOICE**

**Invoice Date** 12/31/2025  
**Invoice No** 4525-000024840  
**Customer No** 4-4525-0333461

**Page No** Page 1 of 3  
**Due Date** UPON RECEIPT

LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS  
 11115 GOODNIGHT LANE  
 DALLAS, TX 75229

**Current Charges** **Total Amount Due**  
\$8,105.73 \$48,075.22

**Please pay total amount due**

Billing Questions? Call (972) 434-3618

**Thank you for your business! Please be sure to remit payments to our lockbox address shown on the bottom of the invoice.**

Date	Code	Description	Reference	Rate	Quantity	Amount
12/16	WV	SW-FILTER CAKE	25-1892293	29.89	21.70 TN	\$648.61
12/16	WV	Reference:	3953097/richard			
12/16	WV	Vehicle:	LE375695			
12/16	WV	Contract:	45251810194-1			
12/16	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/16	WV	SW-FILTER CAKE	25-1892403	29.89	16.88 TN	\$504.54
12/16	WV	Reference:	3953098/rich			
12/16	WV	Vehicle:	LE375695			
12/16	WV	Contract:	45251810194-1			
12/16	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/17	WV	SW-FILTER CAKE	25-1892492	29.89	2.73 TN	\$81.60
12/17	WV	Reference:	3953096/richard			
12/17	WV	Vehicle:	LE375695			
12/17	WV	Contract:	45251810194-1			
12/17	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/17	WV	SW-FILTER CAKE	25-1892567	29.89	16.26 TN	\$486.01
12/17	WV	Reference:	3953092/richard			
12/17	WV	Vehicle:	LE375695			
12/17	WV	Contract:	45251810194-1			
12/17	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/18	WV	SW-FILTER CAKE	25-1892743	29.89	11.97 TN	\$357.78
12/18	WV	Reference:	3953093/richard			
12/18	WV	Vehicle:	LE375695			
12/18	WV	Contract:	45251810194-1			
12/18	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/18	WV	SW-FILTER CAKE	25-1892790	29.89	20.76 TN	\$620.52
12/18	WV	Reference:	3953094/richard			
12/18	WV	Vehicle:	LE375695			
12/18	WV	Contract:	45251810194-1			
12/18	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/19	WV	SW-FILTER CAKE	25-1892979	29.89	8.70 TN	\$260.04
12/19	WV	Reference:	3953115/richard			
12/19	WV	Vehicle:	LE375695			
12/19	WV	Contract:	45251810194-1			
12/19	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/19	WV	SW-FILTER CAKE	25-1893091	29.89	12.69 TN	\$379.30
12/19	WV	Reference:	3953095/ richard			
12/19	WV	Vehicle:	LE375695			
12/19	WV	Contract:	45251810194-1			
12/19	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			
12/22	WV	SW-FILTER CAKE	25-1893324	29.89	19.05 TN	\$569.40
12/22	WV	Reference:	3953099/ed			
12/22	WV	Vehicle:	LE375695			
12/22	WV	Contract:	45251810194-1			
12/22	WV	Generator Name:	LIQUID ENVIRONMENTAL SOLUTIONS			

Date	Code	Description	Reference	Rate	Quantity	Amount
12/23	WV	SW-FILTER CAKE	25-1893597	29.89	17.50 TN	\$523.08
12/23	WV	Reference: 3953100/Ed				
12/23	WV	Vehicle: LE375695				
12/23	WV	Contract: 45251810194-1				
12/23	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/24	WV	SW-FILTER CAKE	25-1893833	29.89	12.41 TN	\$370.93
12/24	WV	Reference: 3953101/ed				
12/24	WV	Vehicle: LE375695				
12/24	WV	Contract: 45251810194-1				
12/24	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/26	WV	SW-FILTER CAKE	25-1894005	29.89	14.70 TN	\$439.38
12/26	WV	Reference: 3953102/Ed				
12/26	WV	Vehicle: LE375695				
12/26	WV	Contract: 45251810194-1				
12/26	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/26	WV	SW-FILTER CAKE	25-1894175	29.89	17.07 TN	\$510.22
12/26	WV	Reference: 3953103/Ozzy				
12/26	WV	Vehicle: LE375695				
12/26	WV	Contract: 45251810194-1				
12/26	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/27	WV	SW-FILTER CAKE	25-1894225	29.89	19.63 TN	\$586.74
12/27	WV	Reference: 3953104/ ozzy				
12/27	WV	Vehicle: LE375695				
12/27	WV	Contract: 45251810194-1				
12/27	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/29	WV	SW-FILTER CAKE	25-1894386	29.89	15.46 TN	\$462.10
12/29	WV	Reference: 3953105/Ed				
12/29	WV	Vehicle: LE375695				
12/29	WV	Contract: 45251810194-1				
12/29	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/29	WV	SW-FILTER CAKE	25-1894550	29.89	12.62 TN	\$377.21
12/29	WV	Reference: 3953106/ozzy				
12/29	WV	Vehicle: LE375695				
12/29	WV	Contract: 45251810194-1				
12/29	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/30	WV	SW-FILTER CAKE	25-1894622	29.89	8.69 TN	\$259.74
12/30	WV	Reference: 3953114/Ed				
12/30	WV	Vehicle: LE375695				
12/30	WV	Contract: 45251810194-1				
12/30	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/31	WV	SW-FILTER CAKE	25-1894893	29.89	17.35 TN	\$518.59
12/31	WV	Reference: 3953113/Ed				
12/31	WV	Vehicle: LE375695				
12/31	WV	Contract: 45251810194-1				
12/31	WV	Generator Name: LIQUID ENVIRONMENTAL SOLUTIONS				
12/31	Z9	LATE FEE	IN001857	149.94	1.00	\$149.94

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Material / Fee Summary

WV	SW-FILTER CAKE	266.17 TN	\$7,955.79
Z9	LATE FEE	1.00	\$149.94

Date	Code	Description	Reference	Rate	Quantity	Amount
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Current	31-60 Days	61-90 Days	Over 90 Days	Total Amount Due
\$19,405.78	\$18,673.16	\$9,996.28	\$0.00	\$48,075.22

**please return this portion below with your payment. Do not attach check stub.**



CAMELOT LANDFILL - 4525  
 PO BOX 677839  
 DALLAS, TX 75267-7839  
 (972) 434-3618

**Invoice Date** 12/31/2025  
**Invoice No** 4525-000024840  
**Customer No** 4-4525-0333461

**Please write your account number on your check and make payable to:**

Current Charges \$8,105.73  
**Total Amount Due** \$48,075.22

**Please Return Payment to:** CAMELOT LANDFILL - 4525  
 PO BOX 677839  
 DALLAS, TX 75267-7839

Amount Paid: \_\_\_\_\_

LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS  
 11115 GOODNIGHT LANE  
 DALLAS, TX 75229

To make a payment, please visit our website at [www.republicservices.com/pay-bill](http://www.republicservices.com/pay-bill)

For billing inquiries, email us at [REDACTED]



02/03/2026

Jacqueline Sheehan-Dean  
Brooks.Ray

Re: Liquid Environmental – waste quote

Dear Jacqueline and Brooks,

Here's the quote for the bulk caustic soda:

- **Transportation:**
  - \$4,466/trip
  - Washout (if applicable): Cost plus 10%
  - Demurrage (after 2 hours onsite): \$100/hour
- **Disposal:**
  - \$5.42/gal
- **Documentation**
  - Profile fee: included
  - Manifest/LDR fee: included
  - \*TCEQ One Time Shipment documentation fee: included

\*The address of the waste pickup does not have an active TCEQ registration; subsequently a TCEQ One Time Shipment request and follow-up report is required.

Polmer quote

**The hyperfloc is non-haz, Class 1. The price for the tote will be \$662/tote (includes documentation, transportation, and disposal)**

Please let me know if you have any questions; I look forward to working with you!

Cordially,

Debra Parker

## Jacqueline Sheehan-Dean

---

**From:** Debra Parker [REDACTED]  
**Sent:** Thursday, February 12, 2026 11:43 AM  
**To:** Jacqueline Sheehan-Dean  
**Cc:** Brooks Ray  
**Subject:** RE: Updating Quote for Client in Dallas, TX

**External Sender - From:** (Debra Parker [REDACTED])

This message came from outside your organization.

Here you go:

Please be sure and read the notes at the bottom

The cost per gallon and per trip will be the same as the caustic soda; note that 2 shipments will be needed to move 6,150 gallons.

- **Transportation:**
  - \$4,466/trip
  - Washout (if applicable): Cost plus 10%
  - Demurrage (after 2 hours onsite): \$100/hour
- **Disposal:**
  - \$5.42/gal
- **Documentation**
  - Profile fee: included
  - Manifest/LDR fee: included
  - \*TCEQ One Time Shipment documentation fee: included

\*The address of the waste pickup does not have an active TCEQ registration; subsequently a TCEQ One Time Shipment request and follow-up report is required.

Note that the SDS indicates the pH is 12.44; we will ship this waste as D002 (hazardous). If the customer has the pH tested (we can do, if needed) and the pH of the liquid in the tank is around 10 (or less), we can manage this as non-haz at a lower price.

### Debra Parker

Inside Sales Account Manager I

Univar Solutions

**P:** 214-503-5739

**M:** 214-202-9624

Follow us on:





## Environment Testing

Eurofins Dallas  
9701 Harry Hines Blvd  
Dallas, TX 75220

Tel: (214) 902-0300

[www.EurofinsUS.com](http://www.EurofinsUS.com)

January 28, 2026

Jacqueline Sheehan-Dean  
CK Associates  
8591 United Plaza Boulevard, Suite 300  
Baton Rouge, LA 70809  
[REDACTED] | Tel: 1-(225) 923-9487  
Fax: 1-(225) 933-1092

Subject: Analytical Services Proposal - Soil Sampling  
Eurofins Environment Testing South Central Quotation Number 87002786

Dear Jacqueline Sheehan-Dean:

We appreciate the opportunity to provide your company with a quotation for your Soil Sampling project. Eurofins Environment Testing South Central has a unique combination of full service capabilities, technical expertise, local service options, and online resources necessary to ensure successful project outcomes.

At Eurofins Environment Testing South Central, quality is the hallmark of our business. To ensure your project's data quality objectives are met, we offer experienced personnel who are trained and committed to completing your analytical project on time, a fully documented QA/QC program, and state-of-the-art laboratory equipment and facilities. In addition to being a full service laboratory, we are part of the nation's largest environmental laboratory network. This provides access to an unparalleled spectrum of capabilities and turnaround time options, all through a single point of contact. Sylvia Garza has been assigned as your Project Manager for this work and can be reached by phone at 832 544-2004 or via email at [REDACTED]

- **MyEOL®:** a web portal offering you customizable, real time access to data. With 24 hour access you can perform data trending, compare data to industry or project limits, track CoCs, invoices, reports and much more.
- **Level IV Deliverables/Customizable EDDs:** high resolution, text searchable reports, available in virtually any format.
- **Extensive Experience:** Project Managers with in-depth knowledge of regulatory protocols and procedures.
- **Nationwide Logistical Support:** bringing you an extensive courier network, service centers and shipping options throughout the U.S. and abroad.
- **PFAS, Dioxins/Furans, Air, Radiochemistry, IH** and other specialty analyses are offered alongside routine soil and water methods with seamless reports and consolidated EDDs.

The following quotation includes a detailed price breakdown, as well as any notes and clarifications pertaining to your project, and is subject to Eurofins Environment Testing South Central's Standard Terms and Conditions, unless otherwise agreed upon in writing.

We thank you for choosing Eurofins Environment Testing South Central, and we look forward to working with you on this project.

Sincerely,

Sonia West  
Client Service Manager  
[REDACTED]

cc: Henry Pelitire; Sylvia Garza

Eurofins Dallas  
9701 Harry Hines Blvd  
Dallas, TX 75220

Prepared for:  
Jacqueline Sheehan-Dean  
CK Associates  
8591 United Plaza Boulevard, Suite 300  
Baton Rouge, LA 70809  
Tel: 1-(225) 923-9487  
Fax: 1-(225) 933-1092

Prepared by: West, Sonia  
Date: 1/28/2026 Expiration Date: 4/28/2026

**Project: Soil Sampling**

**Quote Number: 87002786 - 0**

**Soil Samples**

**TAT: 5\_Days (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Solid	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	4	\$ 60.00	\$ 240.00
Solid	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	4	\$ 0.00	\$ 0.00

**Soil Samples**

**TAT: 24\_Hours (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Solid	Moisture	Percent Moisture	4	\$ 10.00	\$ 40.00

**Soil Samples**

**TAT: 5\_Days (Business Days)**

**(to be analyzed by Eurofins Houston)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Solid	6010D	Metals (ICP)	4	\$ 70.00	\$ 280.00
Solid	7471B	Mercury (CVAA)	4	\$ 25.00	\$ 100.00
Solid	TX 1006	Texas - Total Petroleum Hydrocarbon Fractions (GC)	1	\$ 195.00	\$ 195.00

**Total Soil Samples**

**\$ 855.00**

**Water Samples**

**TAT: 5\_Days (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Water	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	1	\$ 60.00	\$ 60.00
Water	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	1	\$ 0.00	\$ 0.00

**Water Samples**

**TAT: 5\_Days (Business Days)**

**(to be analyzed by Eurofins Houston)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Water	6020B	Metals (ICP/MS)	1	\$ 70.00	\$ 70.00
Water	7470A	Mercury (CVAA)	1	\$ 25.00	\$ 25.00
Water	TX 1006	Texas - Total Petroleum Hydrocarbon Fractions (GC)	1	\$ 195.00	\$ 195.00

**Total Water Samples**

**\$ 350.00**

**Quote Other Charges**

Description	Quantity	Unit Price	Extended Price
Safe and Environmentally Responsible Waste Management (per sample)	5	\$ 5.00	\$ 25.00

Eurofins Dallas  
 9701 Harry Hines Blvd  
 Dallas, TX 75220

Prepared for:  
 Jacqueline Sheehan-Dean  
 CK Associates  
 8591 United Plaza Boulevard, Suite 300  
 Baton Rouge, LA 70809  
 [Redacted] Tel: 1-(225) 923-9487  
 Fax: 1-(225) 933-1092

Prepared by: West, Sonia  
 Date: 1/28/2026 Expiration Date: 4/28/2026

**Project: Soil Sampling**

**Quote Number: 87002786 - 0**

**Quote Other Charges (Continued)**

Description	Quantity	Unit Price	Extended Price
M01 - Level 2 Data Package	1	\$ 0.00	\$ 0.00
<b>Total Other Charge</b>			<b>\$25.00</b>
<b>Total Other Charges</b>			<b>\$ 25.00</b>
<b>Total Analysis Charges</b>			<b>\$ 1,205.00</b>
<b>Grand Total for Quote 87002786</b>			<b>\$ 1,230.00</b>

*\*\*Quoted charges do not include sales tax. Applicable sales tax will be added to invoices where required by law.*

Eurofins Dallas  
9701 Harry Hines Blvd  
Dallas, TX 75220

**Prepared for:**

Jacqueline Sheehan-Dean  
CK Associates  
8591 United Plaza Boulevard, Suite 300  
Baton Rouge, LA 70809

Tel: 1-(225) 923-9487  
Fax: 1-(225) 933-1092

Prepared by: West, Sonia  
Date: 1/28/2026

Expiration Date: 4/28/2026

**Project: Soil Sampling**

**Quote Number: 87002786 - 0**

## PROJECT DETAILS

### Eurofins South Central Business Ts&Cs

#### **Eurofins Environment Testing South Central Business T&C**

##### **Confidentiality -**

This quote has been prepared by Eurofins Environment Testing South Central (EETSC - DBA Eurofins Xenco), solely for the use of the customer to whom it is addressed in evaluating Eurofins Environment Testing South Central's qualifications and capabilities in connection with a particular project. The user of this document agrees by its acceptance to return it to Eurofins Environment Testing South Central upon request and not to reproduce, copy, lend, or otherwise disclose its contents, directly or indirectly, and not to use it for any purpose other than that for which it was specifically provided. The user also agrees that where consultants or other outside parties are involved in the evaluation process, access to this document shall not be given to said parties unless those parties also specifically agree to these conditions. In the absence of signed acceptance, the submittal of samples will indicate acceptance of this quotation.

##### **Terms and Conditions -**

This quotation is based solely upon Eurofins Environment Testing South Central's standard product (routine QA/QC, detection limits, deliverables, and standard turnaround times) and noted exceptions herein. The discounts incorporated into the pricing are based upon the sample quantity, test method, and schedule quoted. Any deviations may impact pricing and/or the acceptance of work. Final acceptance of this work is contingent upon a mutually agreed Sample Delivery Schedule. All sales are subject to Eurofins Environment Testing South Central's Terms and Conditions **unless alternative terms have been agreed to in writing**. Submittal of samples will indicate acceptance of this quotation.

Relinquishment of samples constitutes a valid purchase order from the client company to Eurofins Environment Testing South Central, its affiliates, and subcontractors. It assigns standard terms and conditions of service. Eurofins Environment Testing South Central standard payment terms are net 30 days upon credit approval if not approved payment upfront will be required. Eurofins Environment Testing South Central will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Environment Testing South Central.

##### **Quote Expiration -**

Pricing listed in the proposal will expire **90 days** from the quote date unless the project is awarded/confirmed within that time period. Unless otherwise set forth in this quotation, Eurofins Environment Testing South Central reserves the right to re-evaluate pricing for extended-length projects on an annual basis.

##### **SERWM -**

A fee, notated as Safe and Environmentally Responsible Waste Management (SERWM), will be applied to all invoices for each sample processed by the laboratory.

##### **PROJECT SETUP**

###### **Field Sampling Products -**

Eurofins Environment Testing South Central can provide field sampling products upon request and these products are billable to the client at the time of shipment.

Field sampling products may include, but are not limited to:

- VOA sampling devices, preservation kits, ISM supplies, tubing and filters
- Industrial Hygiene media, surface sampling wipes, source sampling traps

The cost of the soil sampling devices is not included in the quoted rates for volatile analysis.

###### **Core Samplers**

- 5 gram Core N' One and EnCore samplers are available at \$10 each (three required per sample).
- Disposable Core N' One T-Handles are available at \$15 each.
- Eurofins Environment Testing South Central does not supply EnCore T-Handles.

Eurofins Dallas  
9701 Harry Hines Blvd  
Dallas, TX 75220

**Prepared for:**

Jacqueline Sheehan-Dean  
CK Associates  
8591 United Plaza Boulevard, Suite 300  
Baton Rouge, LA 70809

Tel: 1-(225) 923-9487  
Fax: 1-(225) 933-1092

Prepared by: West, Sonia

Date: 1/28/2026

Expiration Date: 4/28/2026

**Project: Soil Sampling**

**Quote Number: 87002786 - 0**

**Field Preservation**

- TerraCore Kits (varied) - quoted based on client required configurations
- Disposable Lock N' Load Handles are available at \$12 each.

If any sampling supplies for soil VOCs are requested, they will be included in the quote under Other Charges.

**Coolers and Sampling Supplies -**

- **Sampling Supplies:** Eurofins Environment Testing South Central will provide sample containers and coolers to support the sampling of water and soil samples. Extra bottles may be provided (up to 10%) in case of breakage. Eurofins Environment Testing South Central expects that samples and supplies will be returned to the lab, including empty coolers and a reasonable percentage of the projected sample load - 70% or higher of the expected/quoted sample number. Coolers not received back by the projected deadline or as agreed with the PM may be charged at \$30 per cooler. Similarly, if the sample containers received as samples are less than 90% of the containers provided, the sample containers not received as samples will be charged at a flat rate of \$1 per container.
- **Sample Container Shipping:** The containers and preservatives required by the project shall be delivered via ground transportation. A minimum of **5 business days** advance notice is required in order to achieve shipment by ground transportation. Supply shipments requiring priority delivery due to insufficient lead time for ground transportation shall be charged to the client at Eurofins Environment Testing South Central's cost. Alternatively, Eurofins Environment Testing South Central can ship the supplies via carrier of choice by the client using the client's shipping account.

**Courier Services and Sample Pick-Up -**

Courier Services are offered by some Eurofins Environment Testing South Central facilities. Where offered, the cost of the services will vary based on the distance traveled, the scope of the project being supported, and whether sufficient notice (typically 48 hours) is provided to facilitate efficient scheduling. If no details are described in this quotation and you are interested in learning more about courier options, please contact your Project Manager to inquire about availability and cost.

**Minimum Log-In Charges -**

Eurofins Environment Testing South Central's minimum charge is **\$125** for a group of samples received together for analysis. Our minimum invoice value is \$125. These terms will be enforced unless previously negotiated in a contract.

**QC Limit Disclaimer -**

The laboratory's reporting limits, detection limits, and control limits are subject to change as these values are updated periodically to reflect analytical sensitivity and capability.

**Turnaround Time -**

- **Expedited Turnaround Time:** Expedited turnaround times may be available and must be pre-approved by the laboratory. Expedited turnaround delivery is contingent upon meeting the agreed upon delivery date/time and number of samples. Samples received after 4:00PM will be considered received the next business day. Results will be provided via e-mail or TotalAccess by close of business in the lab's time zone unless another time has been agreed to in advance.

Expedited turnaround time surcharges for standard analyses are:

- 5 Business Days TAT = 10%
- 4 Business Days TAT = 25%
- 3 Business Days TAT = 50%
- 2 Business Days TAT = 75%
- 1 Business Day TAT = 100%
- Same Day TAT = 200%

Different surcharges may apply for specialty analyses. These will be provided in your quotation. Weekend TAT can be arranged on a project-specific basis at an additional cost. Please contact your Project Manager to inquire about availability and cost.

Eurofins Dallas  
9701 Harry Hines Blvd  
Dallas, TX 75220

**Prepared for:**

Jacqueline Sheehan-Dean  
CK Associates  
8591 United Plaza Boulevard, Suite 300  
Baton Rouge, LA 70809

Tel: 1-(225) 923-9487  
Fax: 1-(225) 933-1092

Prepared by: West, Sonia

Date: 1/28/2026

Expiration Date: 4/28/2026

**Project: Soil Sampling**

**Quote Number: 87002786 - 0**

**PROJECT DELIVERABLES**

Eurofins Environment Testing South Central will provide two analytical report formats, a final report in PDF format and a standard Eurofins Environment Testing South Central EDD. Both electronic report formats will be delivered via email or web portal. If additional formats or retroactive deliverables are requested, costs of report generation will be billable. Charges will be based on labor and materials, cost of report generation, and data retrieval. Please contact your Project Manager to inquire about availability and the price of additional deliverables.

- **Report Format:** Unless a level III or IV deliverable is specifically listed on the pricing page, this quotation includes delivery of a Level I or II report. Level III or IV reports are available at an additional charge.
- **Electronic Data Deliverable Format:** Eurofins Environment Testing South Central has many EDD formats available to our clients including the most widely used commercial formats. Eurofins Environment Testing South Central offers data using a standard EDD. Other EDD formats are available for a minimal cost of \$25 per format (if not included as part of the report options listed in the quotation). The development of EDD formats that are not already available, including modification to existing formats to fit client specific needs, can be provided for a fee starting at \$100. Additional fees will be estimated by the lab and approved by the client. Additional programming fees are billed at \$75/hour.

**PROJECT SPECIFICATIONS****Cancellation Fee -**

A fee will be charged for cancellation of samples/analyses after a project is received in the laboratory. The fee will be based on the status of analysis at the time of cancellation in accordance with the following categories:

- Received - 35%
- Prepped - 50%
- Analyzed - 95%

**Changes in Scope and Work Revisions -**

Project requirements must be agreed upon prior to sample receipt. Samples will be logged according to the chain of custody received with the samples. Changes after initiation of the project will be subject to additional charges, including labor time required to reset project, communicate changes to laboratory staff, and rework data. Turnaround time will be reset, or rush surcharges will be assessed where applicable. Analyses added with less than 1/2 of the analytical hold time remaining will incur rush turnaround charges. Your Project Manager will evaluate project-specific charges at the time a change order is received.

**Held Samples -**

- **Held samples not analyzed:** Samples submitted on hold will be billed at \$20 per sample, plus any applicable TerraCore/Encore/Specialty kit fees, which will be billed separately, including but not limited to canisters, flow regulators, low-level analysis, etc. If samples are later analyzed, the handling fee will be waived and only the analysis price will be charged. Samples taken off hold with less than 1/2 of the analytical hold time remaining may incur rush turnaround charges. Samples will be disposed of 30 days after the report for analyzed samples in the same job is issued, unless alternate archival arrangements are made in advance.
- **Extracted/Prepped and Held samples:** Samples submitted for prep and hold will be billed at 60% of the analysis fee for each prepped sample (minimum \$30/sample). Samples taken off hold with less than 1/2 of the analytical hold time remaining may incur rush turnaround charges. Samples will be disposed of 30 days after the report for analyzed samples in the same job is issued, unless alternate archival arrangements are made in advance.
- **Extended archival of samples:** Extended archival of samples (including held samples) may be available for a fee starting at \$2 per container per month (minimum \$10/sample). This fee will be billed in advance on a quarterly basis for every quarter after the standard sample retention time of 30 days after the report is issued. Fees for larger volumes, non-standard matrices or cold storage will be negotiated on a case-by-case basis. Please contact your Project Manager to inquire about availability and pricing for samples that are

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Date: 1/28/2026

Expiration Date: 4/28/2026

**Project: Soil Sampling**

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sent to the lab and archived.

These terms will be enforced unless previously negotiated in a contract.

**Matrix Spike/Spike Duplication (MS/MSD) Samples -**

When MS/MSDs are not specifically requested, Eurofins Environment Testing South Central will strive to perform the required QC using whatever sample is available but will not report the QC results unless the client requests it. The reporting of client-requested MS/MSD results will be charged at applicable unit rates. If MS/MSDs are specifically required or requested, the client must provide additional sample volume.

**Multiple Dilutions Analyzed -**

Eurofins Environment Testing South Central strives to analyze samples without dilution or with the minimum dilution required. Samples are diluted to bring the primary analyte within the calibration range of the instrument, to compensate for matrix co-extractives, or to prevent instrument contamination. Eurofins Environment Testing South Central will report the analytical run containing the highest concentration component/analyte in the sample within the calibrated (quantifiable) range of the method. Analytical screening runs are not reported. If project-specific data quality objectives require additional runs, analyses will be billable unless otherwise noted in this quote. Please contact your Project Manager to inquire about the availability of this service for your project.

**Sample Disposal -**

Eurofins Environment Testing South Central will dispose of non-hazardous samples, sample extracts, and digestates 30 days after the final report is issued. Charges for disposal of non-routine or uniquely hazardous samples will be billed to the client. Alternatively, samples can be returned to the client for disposal. Cost of return shipping will be billable to the client.

**Special Sample Handling Fees -**

Unit prices assume that samples are a single-phase matrix and that analyses can be performed in accordance with the laboratory's standard analytical procedures. If additional handling is required, additional fees may apply. Examples of special handling include (but are not limited to):

- Matrices requiring additional dilutions or special clean up steps
- Multiphasic samples requiring separate preparations and/or analyses
- Particle size reduction or special sub-sampling procedures
- Extra disposal costs for unique waste streams
- Foreign Soil Fees

**Trip Blanks -**

Eurofins Environment Testing South Central typically provides trip blanks with our sample kits containing volatile analysis. When samples are received at the laboratory with trip blanks, the lab will analyze, report, and charge the unit rate for the analysis. Please add this sample to your chain of custody (COC). If you do not want the trip blank analyzed, please note this on the COC.

**ADDITIONAL BUSINESS TERMS AND CONDITIONS****Environmental Management Fee**

If this fee is included in the Other Charges section of the pricing page, a fee equal to the listed percentage of the total invoice amount will be applied to all work done under this quotation. The Fee will appear as a separate line item on each invoice. In the absence of any other firm pricing agreements, your sending work to us under this quotation will signify your acceptance of responsibility for payment of the Fee.

**Field Parameters -**

pH, Temperature, and Dissolved Oxygen analyses, along with Residual Chlorine screening, are properly performed and treated in the field at the time of sample collection. Laboratory analysis may result in a holding time exceedance qualifier.

**Network or Subcontract Labs -**

- Networking: Eurofins Environment Testing South Central reserves the right to perform the services at any laboratory in the Eurofins Environment Testing South Central network unless the Client has required a particular location for the work.

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**Prepared for:**

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- **Subcontracting:** Eurofins Environment Testing South Central reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in Eurofins Environment Testing South Central's sole judgment, it is reasonably necessary, appropriate or advisable to do so. Eurofins Environment Testing South Central will make every effort to notify the client prior to delivering samples to an out-of-network laboratory. Eurofins Environment Testing South Central will in no way be liable for any subcontracted services (outside the Eurofins Environment Testing South Central network) except for work performed at laboratories which have been audited and approved by Eurofins Environment Testing South Central.

**Price Surcharge Due to Sample Volume -**

Unless dictated by contract, this quotation is based on the scope of work defined in the quote request.

**Professional and Administrative Services -**

A variety of professional and administrative services are available. Prices for services not specifically detailed in this quotation will be billed in accordance with Eurofins Environment Testing South Central's Professional Rate Schedule.

**Taxes -**

Where reports are issued in or delivered to a state which assesses sales tax on Eurofins Environment Testing South Central's services, applicable sales taxes will be added to the invoice as required by law, unless an appropriate sales tax exemption form is on file with Eurofins Environment Testing South Central.

**MyEOL®**

Use of Eurofins' on-line data management tool and interactive portal, MyEOL®, provides clients with 24/7 access to all project information, including: sample results, data reports, EDDs, and invoices. This tool enables clients to manage their analytical data electronically and eliminates shipping costs and paper consumption, thereby reducing impacts on the environment. **Eurofins is pleased to provide access to MyEOL® at no additional charge.** Please contact your Project Manager to create a MyEOL® account and to discuss how this tool may help you efficiently manage your analytical data.

MyEOL® features include:

- Real time access to your sample status and result data in our LIMS.
- 24/7 availability to download your EDD files.
- Convenient organization of all your program information in one place, categorized the way you want it.
- Instant archiving of all documents for secure storage and fast retrieval.
- Dynamic interactive capabilities, enabling you to query and trend data.
- Access to analytical capabilities and methodologies to help you select the best procedures for performing your work.
- Access to lists of Certification Programs detailing which Eurofins laboratories perform work under these programs.
- Online access to your invoices and quotes.
- Ability to compare data results to the regulatory limits.

**Rush Bottle Order Requests**

In order to ensure that you receive a correct bottle order in a timely manner, please allow the laboratory a minimum of 2-business days to assemble and ship or deliver your bottle order. Bottle order requests received within 48-hours of their due date will incur a \$50.00 RUSH Assembly Fee, and/or a \$50.00 (per cooler) RUSH Shipping / Delivery Fee.

**Target Compounds/Reporting Limits**

Eurofins Xenco will report data per our standard list of target compounds, reporting limits, and QC limits. Attached for your review, please find compound lists for the methods cited. Please review these compounds and limits and let us know if they do not meet your requirements.

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**Project: Soil Sampling**

**Quote Number: 87002786 - 0**

**Soil Samples**

Matrix	Method	Test Description	Analyte	NONE	NONE	Units
Solid	Moisture	Percent Moisture	Percent Moisture CAS#: STL00177 Percent Solids CAS#: STL00234			
Solid	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	C6-C12 Range Hydrocarbons CAS#: STL00061 >C12-C28 Range Hydrocarbons CAS#: STL00035 >C28-C35 Range Hydrocarbons CAS#: STL00147	RL 50.0	MDL 25.0	Units mg/Kg
<b>Surrogate Cpnd</b>			1-Chlorooctane CAS#: 111-85-3 o-Terphenyl (Surr) CAS#: 84-15-1			
Solid	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	Total Petroleum Hydrocarbons (C6-C35) CAS#: STL00006	RL 50.0	MDL 25.0	Units mg/Kg
Solid	6010D	Metals (ICP)	Arsenic CAS#: 7440-38-2 Barium CAS#: 7440-39-3 Cadmium CAS#: 7440-43-9 Chromium CAS#: 7440-47-3 Lead CAS#: 7439-92-1 Selenium CAS#: 7782-49-2 Silver CAS#: 7440-22-4	RL 1.50 1.00 1.00 1.00 1.00 3.00 2.00	MDL 1.06 0.118 0.239 0.493 0.301 1.30 0.593	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg

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**Soil Samples**

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Solid	7471B	Mercury (CVAA)	Mercury CAS#: 7439-97-6	0.0200	0.00895	mg/Kg
Solid	TX 1006	Texas - Total Petroleum Hydrocarbon Fractions (GC)	Over C6-C8 aliphatics CAS#: STL00005	50.0	25.0	mg/Kg
			Over C8-C10 aliphatics CAS#: STL00135	50.0	25.0	mg/Kg
			Over C10-C12 aliphatics CAS#: STL00116	50.0	25.0	mg/Kg
			Over C12-C16 aliphatics CAS#: STL00139	50.0	25.0	mg/Kg
			Over C16-C21 aliphatics CAS#: STL00235	50.0	25.0	mg/Kg
			Over C21-C35 aliphatics CAS#: STL00312	50.0	25.0	mg/Kg
			Over C7-C8 aromatics CAS#: STL00305	50.0	25.0	mg/Kg
			Over C8-C10 aromatics CAS#: STL00107	50.0	25.0	mg/Kg
			Over C10-C12 aromatics CAS#: STL00023	50.0	25.0	mg/Kg
			Over C12-C16 aromatics CAS#: STL00308	50.0	25.0	mg/Kg
			Over C16-C21 aromatics CAS#: STL00145	50.0	25.0	mg/Kg
			Over C21-C35 aromatics CAS#: STL00032	50.0	25.0	mg/Kg
			Hexane CAS#: 110-54-3	50.0	25.0	mg/Kg

**Water Samples**

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Water	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	C6-C12 Range Hydrocarbons CAS#: STL00061	5.00	0.750	mg/L
			>C12-C28 Range Hydrocarbons CAS#: STL00035	5.00	0.750	mg/L

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Water Samples

Matrix	Method	Test Description	Analyte	RL	MDL	Units
<b>Continued</b>						
			>C28-C35 Range Hydrocarbons CAS#: STL00147	5.00	0.750	mg/L
			<b>Surrogate Cpnd</b>			
			1-Chlorooctane CAS#: 111-85-3 o-Terphenyl (Surr) CAS#: 84-15-1			
Water	TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	Total Petroleum Hydrocarbons (C6-C35) CAS#: STL00006	5.00	0.750	mg/L
Water	6020B	Metals (ICP/MS)	Arsenic CAS#: 7440-38-2 Barium CAS#: 7440-39-3 Cadmium CAS#: 7440-43-9 Chromium CAS#: 7440-47-3 Lead CAS#: 7439-92-1 Selenium CAS#: 7782-49-2 Silver CAS#: 7440-22-4	0.00400	0.000690	mg/L
Water	7470A	Mercury (CVAA)	Mercury CAS#: 7439-97-6	0.000200	0.0000706	mg/L
Water	TX 1006	Texas - Total Petroleum Hydrocarbon Fractions (GC)	Over C6-C8 aliphatics CAS#: STL00005 Over C8-C10 aliphatics CAS#: STL00135 Over C10-C12 aliphatics	5.00	0.885	mg/L

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**Water Samples**

Matrix	Method	Test Description	Analyte	RL	MDL	Units
<b>Continued</b>						
			CAS#: STL00116			
			Over C12-C16 aliphatics	5.00	0.863	mg/L
			CAS#: STL00139			
			Over C16-C21 aliphatics	5.00	0.863	mg/L
			CAS#: STL00235			
			Over C21-C35 aliphatics	5.00	0.863	mg/L
			CAS#: STL00312			
			Over C7-C8 aromatics	5.00	0.885	mg/L
			CAS#: STL00305			
			Over C8-C10 aromatics	5.00	0.885	mg/L
			CAS#: STL00107			
			Over C10-C12 aromatics	5.00	0.885	mg/L
			CAS#: STL00023			
			Over C12-C16 aromatics	5.00	0.863	mg/L
			CAS#: STL00308			
			Over C16-C21 aromatics	5.00	0.863	mg/L
			CAS#: STL00145			
			Over C21-C35 aromatics	5.00	0.863	mg/L
			CAS#: STL00032			
			Hexane	5.00	0.885	mg/L
			CAS#: 110-54-3			

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**Analytical Sample Information**

Analysis Method	Matrix	Preservative	Client Sub List Desc Container	Volume Required	Holding Time
Mercury (CVAA) 7471B	Solid	None	Mercury (CVAA) Soil jar 4oz - clear glass	10 g	28 Days
Metals (ICP) 6010D	Solid	None	Metals (ICP) Soil jar 4oz - clear glass	10 g	180 Days
Percent Moisture Moisture	Solid	None	Percent Moisture Soil jar 4oz - clear glass	5 g	7 Days
Texas - Total Petroleum Hydrocarbon (GC) TX_1005	Solid	None	Texas - Total Petroleum Hydrocarbon (GC) TX1005 Kit	1 NONE	14 Days
Texas - Total Petroleum Hydrocarbon Fractions (GC) TX_1006	Solid	None	Texas - Total Petroleum Hydrocarbon Fractions (GC) No Container	0 No Unit	14 Days
Mercury (CVAA) 7470A	Water	Nitric Acid	Mercury (CVAA) Plastic 250ml - with Nitric Acid	50 mL	28 Days
Metals (ICP/MS) 6020B	Water	Nitric Acid	Metals (ICP/MS) Plastic 250ml - with Nitric Acid	50 mL	180 Days
Texas - Total Petroleum Hydrocarbon (GC) TX_1005	Water	Hydrochloric Acid	Texas - Total Petroleum Hydrocarbon (GC) Voa Vial 40ml - Hydrochloric Acid	80 mL	14 Days
Texas - Total Petroleum Hydrocarbon Fractions (GC) TX_1006	Water	None	Texas - Total Petroleum Hydrocarbon Fractions (GC) No Container	0 No Unit	14 Days

*Hold Times listed above represent the minimum allotted time between sampling and lab extraction, prep or analysis.*

*Multiple analyses may be consolidated into fewer containers. Please contact your Project Manager for clarification when requesting sample containers.*

*Except for some special tests, all samples should be kept cold at 6 degrees C.*

**EUROFINS ENVIRONMENT TESTING SOUTH CENTRAL, LLC  
TERMS AND CONDITIONS OF SALE (Short Form)**

When a purchaser ("Client") places an order for laboratory, consulting or sampling services from Eurofins Environment Testing South Central, LLC ("EETSC"), a Delaware limited liability company EETSC shall provide the ordered services pursuant to these Terms and Conditions and the related Quotation or Price Schedule, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, a client order constitutes an acceptance by the Client of EETSC's offer to do *business* under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. Receipt of a Client's samples at an EETSC laboratory constitutes acceptance of these Terms and Conditions (in the absence of any other negotiated contract). No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by EETSC in writing.

**1. ORDERS AND RECEIPT OF SAMPLES**

1.1 A Client may place an order (i.e., specify a Scope of Work) either by submitting a purchase order to EETSC in writing or by telephone subsequently confirmed in writing, or by negotiated contract. Whichever option the Client selects for placing an order, the order shall not be valid unless it contains sufficient specification to enable EETSC to carry out the Client's requirements. In particular, samples must be accompanied by: a) adequate instruction on type of analysis requested, and b) complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. If a Client fails to provide these required disclosures accompanying the submission of samples, and such failure results in an interruption in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean-up and recovery.

1.2 The Client shall provide one week's advance notice of the sample delivery schedule, or any changes to the schedule, whenever possible. Upon timely delivery of samples, EETSC will use its best efforts to meet mutually agreed turnaround times. All turnaround times will be calculated from the point in time when EETSC has determined that it can proceed with defined work following receipt, inspection of samples, and resolution of any discrepancies in Chain-of-Custody forms and project guidance regarding work to be done (Sample Delivery Acceptance). Rush turnaround times not requested in advance of the delivery of samples and specifically agreed to by the lab are not guaranteed. If the Client changes the sample delivery schedule prior to Sample Delivery Acceptance, EETSC reserves its rights to modify its turnaround time commitment, change the date upon which EETSC will accept samples, or refuse Sample Delivery Acceptance for the affected samples.

1.3 EETSC reserves the right, exercisable at any time, to refuse or revoke Sample Delivery Acceptance for any sample which in the sole judgment of EETSC: a) is of unsuitable volume; b) may pose a risk or become unsuitable for handling, transport, or processing for any health, safety, environmental or other reason, whether or not due to the presence of any hazardous substance in the sample and whether or not such presence has been disclosed to EETSC by the Client; or c) holding times cannot be met, due to passage of more than 48 hours from the time of sampling or 1/2 the holding time for the requested test, whichever is less.

1.4 Prior to Sample Delivery Acceptance, the entire risk of loss or damage to samples remains with the Client, except where EETSC provides courier services. In no event will EETSC have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from EETSC's premises. Client is responsible for assuring that any sample that contains or may contain any hazardous substance to be delivered to EETSC's premises is properly packaged, labeled, transported and delivered, all in accordance with applicable laws.

1.5 EETSC reserves the right to begin processing samples upon receipt, unless the Client specifically notifies EETSC in writing prior to sample receipt that the samples are to be held without preparation or other processing or pending receipt of a purchase order. EETSC shall under no circumstances be responsible for missed holding times or turnaround times or for re-sampling costs if samples are released from hold with less than 48 hours or 1/2 the holding time for the requested test remaining, whichever is less.

**2. PAYMENT TERMS**

2.1 Services performed by EETSC will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Quoted prices do not include sales tax. Applicable sales tax will be added to invoices where required by law.

2.2 Invoices may be submitted to Client upon completion of any sample delivery group. Billing corrections must be requested within 30 days of invoice date. Payment in advance is required for all clients except those whose credit has been established with EETSC. For clients with approved credit, payment terms are net 30 days from the date of invoice by EETSC, unless alternative terms have been agreed in a separate written agreement. Payment shall be made without retainage and shall not be contingent upon the receipt of funds from third parties. All overdue payments are subject to an additional interest and service charge of one- and one-half percent (1.5%) (or the maximum rate permissible by law, whichever is less) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party, acknowledging, and accepting payment responsibility in accordance with these payment terms.

2.3 If Client fails to make timely payment of its invoices, EETSC reserves the right to pursue all appropriate remedies, including withdrawing certifications, suspending work, and withholding delivery of data under this order without recourse. Client shall be responsible for all reasonable fees, expenses, and costs of collection including but not limited to arbitrator's and attorney's fees. EETSC reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

**3. CHANGE ORDERS, TERMINATION**

3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by EETSC after Sample Delivery Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. EETSC will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.

3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification, or acceleration in the performance of the work may be initiated by the Client after Sample Delivery Acceptance. Such change must be documented in writing and may result in a change in cost and turnaround time commitment. EETSC's acceptance of such changes is contingent upon technical feasibility and operational capacity.

3.3 Suspension or termination of all or any part of the work may be initiated by the Client upon thirty (30) day written notice to EETSC. EETSC will be compensated consistent with Section 2 of these Terms and Conditions. EETSC will complete all work in progress and be paid in full for all work completed, including all costs incurred and reasonable profit margin, even if EETSC does not issue a final or partial report.

**4. WARRANTIES AND LIABILITY**

4.1 Where applicable, EETSC will use appropriate and approved analytical test methods. EETSC has referenced these methods in its Laboratory Quality Manuals and has documented them in Standard Operating Procedures. EETSC reserves the right based on its reasonable judgment to deviate from these methodologies as necessary or appropriate to the extent required by the nature or composition of the sample, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or EETSC's Laboratory Quality Manuals. Client may request that EETSC perform according to a mutually agreed Quality Assurance Project Plan (QAPP). If samples arrive prior to agreement on a QAPP, EETSC will proceed with analyses under its standard Quality Manuals then in effect. EETSC will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 EETSC shall start preparation and/or analysis within holding times provided that Sample Delivery Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less,

unless the Client has specifically requested that EETSC hold the samples without preparation or other processing or pending receipt of a purchase order. Where resolution of inconsistencies leading to Sample Delivery Acceptance does not occur within this period, EETSC will use its best efforts to meet holding times and will proceed with the work provided that, in EETSC's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with EETSC's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.

4.3 EETSC warrants that it possesses and maintains all licenses and certifications that are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to EETSC prior to Sample Delivery Acceptance. EETSC will notify the Client in writing of any decertification or revocation of any license, or notice of either, that affects work in progress.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by EETSC in connection with any services performed by EETSC or any results generated from such services, and EETSC gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of EETSC is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Client's sole and exclusive remedy for breach of warranty in connection with any services performed by EETSC will be limited to repeating any services performed, contingent on the Client's providing, at the request of EETSC and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating results consistent with the original results will be at the Client's expense. If resampling is necessary, EETSC's liability for resampling costs will be limited to actual cost or one hundred and fifty dollars (\$150) per sample, whichever is less.

4.6 EETSC's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after EETSC's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall EETSC be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall EETSC have any responsibility or liability to the Client for any failure or delay in performance by EETSC that results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of EETSC. Such causes and circumstances include, but are not limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond EETSC's reasonable control.

## 5. RESULTS, WORK PRODUCT

5.1 Data or information provided to EETSC or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by EETSC of payment for the entire order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by EETSC for performance of work will be retained by EETSC. Client shall not disclose such information to any third party without EETSC's express prior consent.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by EETSC shall be held in confidence

(unless such information is generally available to the public or is in the public domain or Client has failed to pay EETSC for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.

5.3 Should the results delivered by EETSC be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold EETSC's right to independently defend its data.

5.4 EETSC reserves the right to perform the services at any laboratory in the EETSC network. If a Client has requested a particular location for the work, EETSC will inform the Client when operational constraints require the work to be performed at another EETSC location. In addition, EETSC reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in EETSC's sole judgment, it is reasonably necessary, appropriate or advisable to do so. EETSC will in no way be liable for any subcontracted services (outside the EETSC network) except for work performed at laboratories which have been audited and approved by EETSC.

5.5 EETSC will dispose of non-hazardous samples, sample extracts and digestates 30 days after the final analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable federal, state or local requirements. Charges for disposal will be billed to the client. Alternatively, samples can be returned to the client for disposal. Cost of return shipping will be billable to the client. Air samples in Summa canisters and tedlar bags are used and the containers cleaned immediately after testing, such that those samples are not retained. Longer storage periods may be requested and may be accommodated if space allows, and for an additional charge. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at its own expense. EETSC reserves the right to return to the Client any sample or unused portion of a sample that is not within EETSC's permitted capability or the capabilities of EETSC's designated waste disposal vendor(s). ALL DIOXIN, MIXED WASTE, AND RADIOACTIVE SAMPLES WILL BE RETURNED TO THE CLIENT, unless prior arrangements for disposal are made.

5.6 Unless a different time period is agreed to in an order under these Terms and Conditions, EETSC agrees to retain all records for five (5) years.

5.7 If EETSC is required to respond to legal process related to services for Client, Client agrees to reimburse EETSC for hourly charges for personnel involved in the response and attorney's fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation. Additional consulting beyond that normally associated with lab reports will be billed at EETSC's current published rates.

## 6. INSURANCE

6.1 During the performance of services under these Terms and Conditions, EETSC shall maintain in force Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over EETSC's employees who are engaged in the performance of the work. EETSC shall also maintain during such period Comprehensive General and Contractual Liability (limit of \$1,000,000 per occurrence; \$2,000,000 aggregate), Comprehensive Automobile Liability, owned and hired (\$1,000,000 combined single limit), Professional Liability Insurance (limit of \$5,000,000 per claim/aggregate), and Pollution Liability Insurance (limit of \$1,000,000 per claim/aggregate).

## 7. MISCELLANEOUS PROVISIONS

7.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by EETSC, embody the whole agreement of the parties and provide the only remedies available. There are no promises, terms, conditions, understandings, obligations or

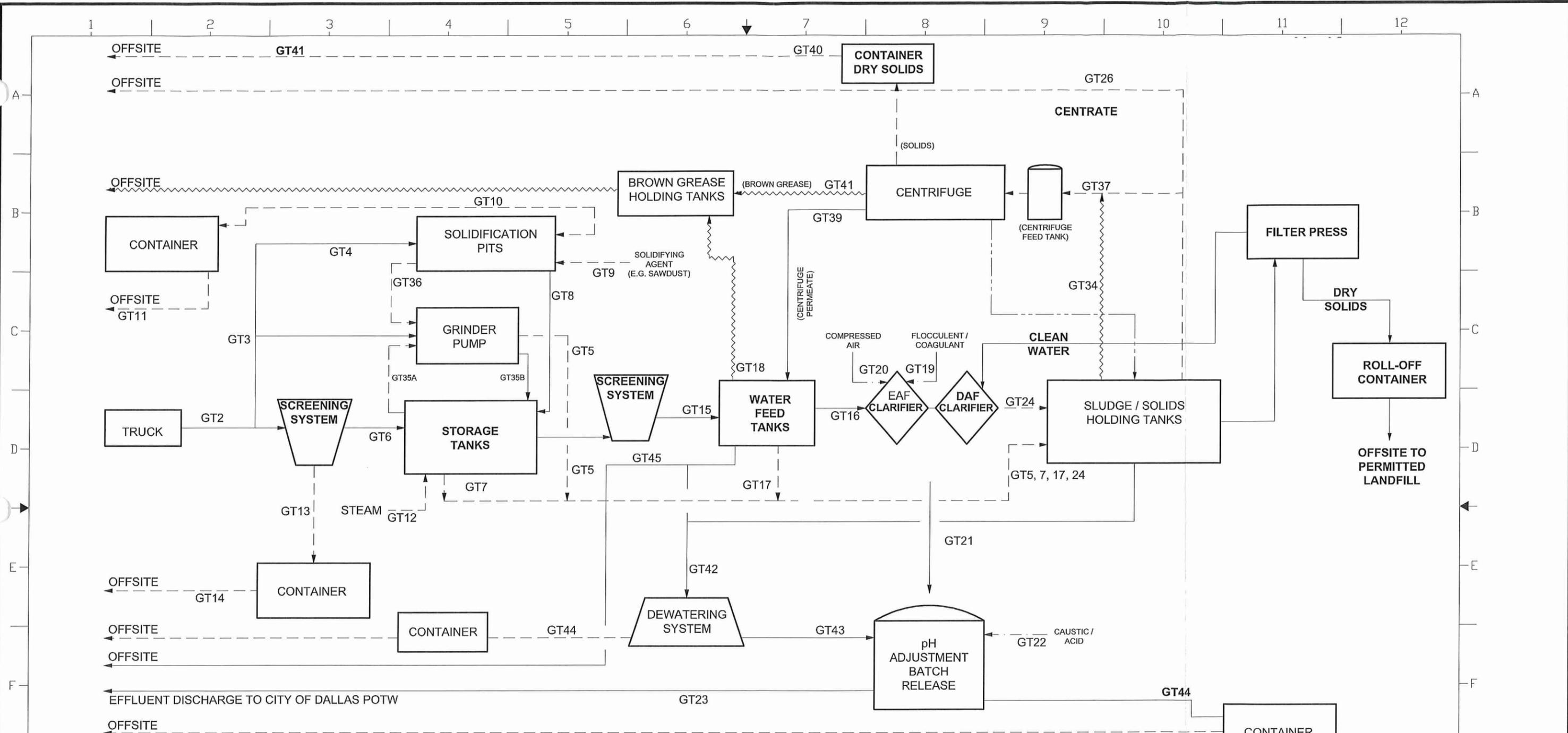
agreements other than those contained herein, and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Client and EETSC. These Terms and Conditions, and any transactions or agreements to which they apply, shall be governed both as to interpretation and performance by the laws of the state where EETSC's services are performed.

7.2 The invalidity or unenforceability, in whole or in part, of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of these Terms and Conditions, the intent of the parties being that the provisions be severable. The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way these Terms and Conditions or their interpretations. No waiver by either party of any provision, term or condition hereof or of any obligation of the other party hereunder shall constitute a waiver of any subsequent breach or other obligation.

7.3 The obligations, liabilities, and remedies of the parties, as provided herein, are exclusive and in lieu of any others available at law or in equity. Indemnifications, releases from liability and limitations of liability shall apply, notwithstanding the fault, negligence or strict liability of the party to be indemnified, released, or whose liability is limited, except to the extent of sole negligence or willful misconduct.

**Attachment D-4**

Part III Figures



LEGEND	
	WATER
	GREASE FLOAT
	SOLIDS / SLUDGE
	CHEMICALS / STEAM / AIR

NOTES:  
 1. BASE DIAGRAM FROM "GREASE PROCESS FLOW DIAGRAM" REVISED FEBRUARY 1, 2010 BY BROWN AND CALDWELL, KNOWN AS FIGURE SPD-1 IN THE APPLICATION PART III - SITE DEVELOPMENT PLAN, SIGNED AND SEALED BY HORACIO JUAREZ, P.E. ON APRIL 14, 2010. REVISED BY McCALL INNOVATIONS, INC (MI).  
 2. BASE DIAGRAM UPDATED TO SHOW CENTRIFUGE AND ASSOCIATED EQUIPMENT.

3/2/20  
 Final #  
 4628



Liquid Environmental Solutions Dallas, Texas	
Municipal Solid Waste (MSW) Permit 2069A Permit Modification	
<b>Grease Process Flow Diagram</b>	
Dallas County	
Drawn: APS	Checked: BHR
Date: 2/5/2026	Approved: DWH
Dwg. No.: 00002100-04	<b>Figure SDP-1</b>

**Attachment D-5**

Part IV Site Operating Plan

**TYPE V MUNICIPAL SOLID WASTE FACILITY TCEQ MSW PERMIT 2069A  
PART IV  
SITE OPERATING PLAN**

For

**LIQUID ENVIRONMENTAL SOLUTIONS OF TEXAS, LLC  
Dallas Facility 11115 Goodnight Lane  
Dallas, Texas, 75229**

**CN No. 603229436  
RN No. 103002713**

Prepared by:

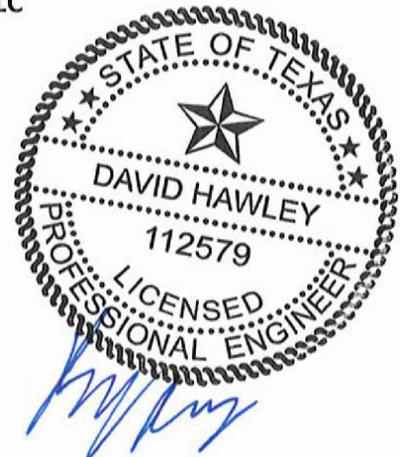
**Liquid Environmental Solutions of Texas, LLC 1801 Royal Lane, Suite 500  
Dallas, Texas 75229**

and

**Brown and Caldwell 1100 NE Loop 410, Suite 300  
San Antonio, TX 78209**

**TBPE Reg. #F-2139**

**Revised March 2026 by CK Associates, LLC  
TBPE #F-9268**



*3/12/26  
Firm # 9028*

## 1. Introduction

Liquid Environmental Solutions of Texas, LLC (LES) is in the business of processing certain non-hazardous liquid wastes. The Dallas LES Facility processes grease trap/food-related and grit trap waste streams. The facility is designed to separate and process the waste streams received into recyclable components, water suitable for discharge into the sanitary sewer system and solid materials for appropriate disposal. The acceptance and processing of these waste requires a Type V Municipal Solid Waste (MSW) Permit and the LES Dallas facility holds MSW Permit 2069A. The purpose of this permit modification request is to: allow an alternative buffer zone at the LES – Dallas Facility; update the permit to make modifications previously authorized under a Temporary Authorization; make minor equipment changes.

### Buffer Zone

Per 30 TAC 330.543(b)(1), a minimum separating distance of 50 feet between solid waste storage/process units within and adjacent to the facility boundary on property owned or controlled by the owner/operator is required. The buffer zone shall not be narrower than necessary to provide for safe passage for fire fighting equipment and other emergency vehicles. LES has historically met this 50-foot buffer requirement along the south and west boundaries of the site by leasing land adjacent to its property boundary. The lease expires on June 30, 2026. LES believes that the lessor of the land may not renew the lease.

Therefore, one objective of this modification is to authorize an alternative to the buffer zone requirement in 30 TAC 330.543(b)(1). To support the amendment, LES met with the Dallas Fire Department (DFD) on August 20, 2025, to review the facility layout and allow DFD personnel to assess whether more than sufficient access for fire fighting or other emergency response would be available without the required 50-foot buffer. The layout reviewed by the DFD differs from the layout currently reflected in the permit; however, the version provided to the DFD was prepared for the specific purpose of evaluating emergency access and does not alter any operational or functional aspects relevant to the modification request. Following their review, the DFD determined that more than sufficient access is available without the buffer as long as pathways are maintained, regardless of the tank or equipment configuration, as documented in the Existing Fire Department Access Plan stamped by the DFD on September 10, 2025. A copy of this plan is provided as **Attachment A**.

### Temporary Authorization Changes

This modification brings the permit up to date with changes made previously under a Temporary Authorization that was initially approved by the TCEQ on March 26, 2018 (see Tracking No. 22566826). These changes included the addition of a filter press and a lime storage tank which better equipped the facility to meet the limits of the City of Dallas Pre-Treatment Permit.

Equipment Changes

This modification updates the equipment list and addresses upgrades to the secondary containment system.

This permit application submittal retains the previous permit documents and only those additions that are changed within this March 2026 revision are being submitted as Permit Revision 17.

This SOP contains information about how LES will conduct operations at its Dallas, Texas facility. The SOP represents the general instruction for facility management and personnel to operate the facility in a manner consistent with the approved design and the regulatory requirements to protect human health and the environment and prevent nuisances. The SOP is Part IV of the MSW permit/registration application and consists of the information required by Title 30, Texas Administrative Code (TAC), Chapter 330, Subchapter E: Operational Standards for Municipal Solid Waste Storage and Processing Units, 30 TAC §330.201–§330.249. At a minimum, the SOP must include provisions for facility management and operating personnel to meet the general and site-specific requirements.

**Table SOP-1: Revision history for MSW Permit No. 2069**

<b>Date</b>	<b>Site Operating Plan</b>	<b>Site Development Plan</b>	<b>Waste Acceptance and Analysis Plan (WAAP)</b>	<b>Permit Edition</b>
6/1/1987	Original	-	-	Original
3/30/1988	Revision 1	-	-	Revision 1
3/19/1989	Revision 2	-	-	Revision 2
5/1991	-	Original (Old)	-	Revision 3
9/1991	-	Revision 1	-	Revision 4
5/18/1999	Revision 3	-	-	Revision 5
8/24/2003	Revision 4	Revision 2	Original	Revision 6
2/2/2004	Revision 5	Revision 3	Revision 1	Revision 7
6/25/2004	Revision 6	Revision 4	Revision 2	Revision 8

2/1/2005	Revision 7	Revision 5	-	Revision 9
4/5/2005	Revision 8	Revision 6	-	Revision 10
8/5/2005	Revision 9	Revision 7	-	Revision 11
11/27/2006	-	Original (New)	-	Revision 12
6/8/2007	-	Revision 1	-	Revision 13
5/30/2008	Revision 10	Revision 2	Revision 3	Revision 14
11/2012	Revision 11	Revision 3	Revision 4	Revision 15
11/2017	Revision 12	Revision 4	Revision 5	Revision 16
02/2026	Revision 12	Revision 5		Revision 17

Equipment List  
 Revised March 2026

Equipment Type	Number (Minimum)	Location on Facility Map	Typical Size <sup>1</sup>	Function	MOC <sup>2</sup>	Vents	Covers	Enclosure Area <sup>3</sup>	Protective Coatings
Processing Tanks	1	3	15,000 gallons	Grease Trap Treatment	minimum 3/16 carbon steel	fixed roof vented	No, Indoors	A	Painted
Dissolved Air Floatation	1	46	6'x 4'x 4' deep	Grit Trap Treatment	stainless steel	NA	No	A	No
Entrapped Air Flotation <sup>6</sup>	2	EAF 1, EAF 2	25x6.5x6.5 20x5x5	Grease Trap Treatment	Stainless steel	NA	Indoors	B	No
Storage Tank	1	42	10,000 gallons	Bar Screen Offload Tank	Stainless Steel	NA	Indoors	B	No
Vibrating Screens	1	39	up to 5 hp	Grease Trap Treatment	stainless steel	NA	Indoors	B	No
Settling Pits	2	52, 53	10,000 gallons	Grit Trap Treatment	Concrete	NA	No	C	No
Grit Processing AST	1	31	20,300 gallons	Grit Trap Treatment	minimum 3/16 carbon steel	fixed roof vented	No	D	Painted
Grit Processing AST	1	34	24,000 gallons	Grit Trap Treatment	Fiber- reinforced plastic (FRP)	fixed roof vented	No	A	Painted
Grit Processing AST	1	32	18,000 gallons	Grit Trap Treatment	minimum 3/16 carbon steel	fixed roof vented	No	E	Painted
Yellow Grease Processing	1	12	6,000 gallons	Yellow Grease Processing	minimum 3/16 carbon steel	fixed roof vented	No	A	Painted
Debris Screening Unit	1	56	up to 400 gpm	Preliminary Waste Processing	Stainless steel	NA	No	A	No
Grinder Pump	1		up to 350 gpm	Preliminary Waste Processing	minimum carbon steel	NA	No	A	No
Centrifuge <sup>5</sup>	1	54	up to 175 gpm	Brown Grease Recovery	Stainless steel	NA	Enclosure	A	No
Centrifuge Feed Tank <sup>5</sup>	1	55	10,000 gal	Centrifuge Feed System	minimum 3/16 carbon steel	fixed roof vented	No	A	Insulated

Notes:

1. Size indicated is for each unit.
2. Primary material of construction.
3. See Facility Map for Enclosure Area Locations
4. Base Table from "Generalized Construction Details – Process Units"
5. Base Table updated to show Centrifuge and Centrifuge Tank Information
6. Base Table updated to show EAF 1, EAF 2, and Tank 42 Information.

Equipment List  
 Revised March 2026

Equipment Type	Number (Minimum)	Location on Facility Map	Typical Size <sup>1</sup>	Function	MOC <sup>2</sup>	Covers
Diaphragm Pumps	3		0.5", 1 gph	Odor Control	Aluminum and Steel	No
Atomizing Nozzle	1		0.5"	Odor Control	NA	No
Misting Fan	2		1/3 hp		NA	No
Odor Control Scrubber	1	35	8,000 gallons	Air Scrubber Vent Tank	Steel	No
Odor Control Scrubber	1	36	2,000 gallons	Scrubber Intake Tank	Steel/ SS	No
Vacuum Tank	1	50	3,000 gallons	Various	Minimum 3/16 Carbon Steel	No
Poly Tanks	1	6	550 gallons	Transfer	Polycarbonate	Indoors
Squirrel Cage Fan	1	37	5' dia., 30 hp	Odor Control Scrubber	SS	Indoors
Chemical Diaphragm Pump	6		0.5"	Scrubber, Process Chemical and Boiler Chemical Feed	Thermoplastic and SS	Indoors
Centrifugal Pump	2		2.5 hp	Scrubber Recirculation Pump	Minimum Gray Iron	No
Front Loader Tractor	1		2 cu yd bucket	Material Handling	NA	No
Forklift	1		3,700 lbs	Material Lifting	NA	Indoors
Air Compressor	1	48	50 hp min.	Facility Main Air Supply	NA	
Steam Boiler	1	43	350 hp, 150 psi	In-Tank Material Heating	NA	Indoors
Boiler Tank	1	44	500 gallons	Boiler Feed Water System	Steel/ SS	Indoors
Water Softener System	1	45	14 gpm	Boiler Feed Water System	NA	Indoors
Diaphragm Pump	3		3"	Press Sludge Feed/ Precoat/ Sludge Conditioning and Transferring	Aluminum and Steel	Indoors and Outdoors
Diaphragm Pump	3		2"	Water Effluent/ Sumps	Aluminum and Steel	Indoors and Outdoors
Mixer with Blade Prop	1		3/4 hp	Sludge Conditioning	NA	No
Centrifugal Pump	2		10 hp	Material Transfer Pump	Minimum Gray Iron	Indoors and Outdoors

**Notes:**

1. Size indicated is for each unit.
2. Primary material of construction.
3. See Facility Map for Enclosure Area Locations
4. Base Table from "Generalized Construction Details – Process Units"
5. Base Table updated to show Centrifuge and Centrifuge Tank Information
6. Base Table updated to show EAF 1, EAF 2, and Tank 42 Information.

Equipment List  
 Revised March 2026

Equipment Type	Number (Minimum)	Location on Facility Map	Typical Size <sup>1</sup>	Function	MOC <sup>2</sup>	Covers
Centrifugal Pump	1		25 hp	Material Transfer Pump	Minimum Gray Iron	Indoors and Outdoors
Vacuum Equipment	1		30 hp	Offload/ Material Transfer Vacuum Pump	NA	No
Screw Auger	1		15 hp	Solids Conveyance, Screens/Centrifuges to roll off box	SS	Indoors
Diaphragm Pump	3		1' - 1.5"	Lime Feed to pH Mix Tank	NA	No
Mixer	1		0.25 hp	Lime Tank Mixer for pH Mix Tank	NA	No
Polyblend Unit	2		60 gph	Polymer Feed for pH Mix Tank	Thermoplastic and SS	Indoors
Centrifugal Pump	3		3 - 5 hp	Material Transfer Pump	Minimum Gray Iron	Indoors and Outdoors
Sump Pump	3		125 gpm	Pit Drain Pump	NA	Indoors and Outdoors
Flow Meter - Grit Trap Process Discharge	1		Transit Time	Discharge Flow Measurement	NA	No
Flow Meter - Grease Trap Process Discharge	1		Doppler	Discharge Flow Measurement	NA	No
Pressure Washer	1		Portable	Cold Water Wash-Down Unit	NA	
Polymer Tote	1	15	360 gal	Chemical Storage	NA	No
Polymer Tote	1	24	275 gal	Treatment	HDPE	Indoors
Storage Tank	1	59	6,150	Lime Tank	NA	No
Filter Press	1	60	750 gal	Filter Press	NA	No
Sodium Hydroxide Tank	1	5	2,500 gal	Chemical Storage	NA	Indoors
Storage Tank	1	8	10,000 gal	Wastewater Sludge Holding	Steel	No
Storage Tank	1	10	10,000 gal	Wastewater Sludge Holding	Steel	No
Storage Tank	1	11	10,000 gal	Yellow Grease Finished Product Storage	Steel	No
Storage Tank	1	13	6,000 gal	Yellow Grease Offload	Steel	No
Storage Tank	1	14	10,000 gal	Brown Grease Storage	Steel	No
Storage Tank	1	17	24,000 gal	Offloading/Wastewater/Sludge Holding	Steel	No
Storage Tank	1	18	18,000 gal	Offloading/Wastewater/Sludge Holding	Steel	No

Notes:

1. Size indicated is for each unit.
2. Primary material of construction.
3. See Facility Map for Enclosure Area Locations
4. Base Table from "Generalized Construction Details – Process Units"
5. Base Table updated to show Centrifuge and Centrifuge Tank Information
6. Base Table updated to show EAF 1, EAF 2, and Tank 42 Information.

Equipment List  
 Revised March 2026

Equipment Type	Number (Minimum)	Location on Facility Map	Typical Size <sup>1</sup>	Function	MOC <sup>2</sup>	Covers
Storage Tank	1	19	8,000 gal	Wastewater or Sludge Holding	Steel	No
Storage Tank	1	20	18,000 gal	Offloading/Wastewater/Sludge Holding	Steel	No
Storage Tank	1	21	10,000 gal	Brown Grease Storage	Steel	No
Storage Tank	1	23	10,000 gal	Wastewater or Sludge Holding	Steel	No
Storage Tank	1	25	12,500 gal	Wastewater or Sludge Holding	Steel	No
Storage Tank	1	33	12,000 gal	Wastewater or Sludge Holding	Steel	No

**Notes:**

- |                                      |   |  |
|--------------------------------------|---|--|
| 1. Size indicated is for each unit.  | 3. See Facility Map for Enclosure Area Locations                      | 5. Base Table updated to show Centrifuge and Centrifuge Tank Information |
| 2. Primary material of construction. | 4. Base Table from “Generalized Construction Details – Process Units” | 6. Base Table updated to show EAF 1, EAF 2, and Tank 42 Information.     |

**Closure Cost Estimate**  
**LES Dallas Facility March 2026**  
 Revised February 22, 2010 (Brown and Caldwell) Revised October 22, 2012 (DBS&A)<sup>7</sup> Revised November 2012 (DBS&A) Revised November 2017 (CK-LLC)

Item Number	Tank ID	Capacity (gal)	Contents	Total Gallons – disposal	Cost per Gallon <sub>1,3</sub>	Tank Contents	Estimated Disposal Cost
EAF1	EAF Unit	11,500	Grease Trap Treatment	11,500	\$0.62	on ground	\$7,130
EAF2	EAF Unit	6,000	Grease Trap Treatment	6,000	\$0.62	on ground	\$3,720
3	Processing Tank	15,000	Grease Trap Treatment	15,000	\$0.62	on ground	\$9,300
5	Storage Tank	2,500	Chemical Storage	2,500	\$5.43	on ground	\$13,581
6	Poly Tank	550	Transfer Tank	550	\$0.62	on ground	\$341
8	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	\$0.62	on ground	\$6,200
10	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	\$0.62	on ground	\$6,200
11	Storage Tank	10,000	Yellow Grease Finished Product	10,000	\$0.62	on ground	\$6,200
12	Processing Tank	6,000	Yellow Grease Processing & Offload	6,000	\$0.62	elevated	\$3,720
13	Storage Tank	6,000	Yellow Grease Offload	6,000	\$0.62	elevated	\$3,720
14	Storage Tank	10,000	Brown Grease Storage	10,000	\$0.62	on ground	\$6,200
15	Polymer Tote	360	Chemical Storage	360	\$1.73	on ground	\$622
17	Storage Tank	24,000	Offloading/Wastewater/Sludge Holding	24,000	\$0.62	elevated	\$14,880
18	Storage Tank	18,000	Offloading/Wastewater/Sludge Holding	18,000	\$0.62	elevated	\$11,160
19	Storage Tank	8,000	Wastewater or Sludge Holding	8,000	\$0.62	elevated	\$4,960
20	Storage Tank	18,000	Offloading/Wastewater/Sludge Holding	18,000	\$0.62	elevated	\$11,160
21	Storage Tank	10,000	Brown Grease Storage	10,000	\$0.62	on ground	\$6,200
23	Storage Tank	10,000	Wastewater or Sludge Holding	10,000	\$0.62	on ground	\$171
24	Polymer Tote	275	Storage	275	\$0.62	On Ground	\$7,750
25	Storage Tank	12,500	Wastewater or Sludge Holding	12,500	\$0.62	on ground	\$12,586
31	Grit Processing AST	20,300	Grit Trap Treatment	20,300	\$0.62	on ground	\$3,720

32	Grit Processing AST	18,000	Grit Trap Treatment	18,000	\$0.62	elevated	\$11,160
33	Storage Tank	12,000	Wastewater or Sludge Holding	12,000	\$0.62	on ground	\$7,440
34	Grit Processing AST	24,000	Grit Trap Treatment	24,000	\$0.62	on ground	\$14,880
35	Odor Control Scrubber	8,000	Air Scrubber Vent Tank	8,000	\$0.62	on ground	\$4,960
36	Odor Control Scrubber	2,000	Scrubber Intake Tank	2,000	\$0.62	on ground	\$1,240
42	Storage Tank	10,000	Bar Screen Offload Tank	10,000	\$0.62	on ground	\$6,200
50	Vacuum Tank	3,000	Various	3,000	\$0.62	on ground	\$1,860
52	Settling Pit	10,000	Solidification	10,000	\$0.62	on ground	\$6,200
53	Settling Pit	10,000	Solidification	10,000	\$0.62	on ground	\$6,200
55	Centrifuge Feed Tank	10,000	Sludge Holding	10,000	\$0.62	on ground	\$6,200
59	Storage Tank	6,150	Lime Tank	6,150	\$6.61	On Ground	\$40,657
60	Filter Press	750	Filter Press	750	\$0.17	Elevated	\$131
Summary				322,885		T&D Cost	\$249,129
<b>Tank Cleaning Project Management and Contingency</b>							
	Tank Cleaning Services	300,600	gallons @ a rate of 0.33/gallon avg. <sup>2</sup>				\$99,198
	Sampling <sup>4</sup>						\$4,000
	Analytical <sup>5</sup>						\$1,230
Project Management, HSP, Work Plan <sup>6</sup>						15%	\$37,369
Contingency						15%	\$37,369
Total Estimated Closure Cost							\$428,295

Notes:

Revised March 2026 based on current disposal rates (see invoice copies)

<sup>1</sup> These unit transportation and disposal (T&D) costs are representative of the cost to contract an outside disposal company to remove the tank contents and transport them for disposal/recycling to a facility licensed for disposal wastes.

<sup>2</sup> An Costs provided by HydroTex Excavation for tank cleaning based on invoices received form client.

<sup>3</sup> Costs provided by Republic Waste Services for waste removal and site cleaning. Any tank that contains sludge or grit inside the tank, the cost is approximately \$0.57/gallon.

<sup>4</sup> Sampling costs are estimated for four surface samples as per closure plan.

<sup>5</sup> Analytical costs for samples provided by Eurofins.

<sup>6</sup> Estimate for engineering associated with closure, including certification of closure report, health and safety plan and work plan.

Base cost estimate from "Opinion of Probable Closure Costs - LES Dallas facility" revised February 22, 2010 by Brown and Caldwell, known as Opinion of Probable Closure Costs - LES Dallas Facility in the Application Part III - Site Development Plan, signed and sealed by Horacio Juarez, P.E. on April 14, 2010.

This is consistent with November 2012 submittal

## Attachment SDP-4: Secondary Containment Calculations

### Methodology

Secondary containment calculations were prepared for the five containment areas shown on Figure 1 (Area A through Area E). The Tank Farm Area was subdivided into Areas A1 through A11 to better represent existing grade at the site and corresponding differences in surrounding containment curbs. The calculations provided are based on the rule found in 30 Texas Administrative Code (TAC) Chapter 330 Part §330.63(D). This section of the rule requires that “secondary containment be designed to control and contain a worst-case spill or release”. These secondary containment calculations take into account the volume of the largest tank or, where 10 percent of the total storage tank capacity within a containment area exceeds the total capacity of the largest tank, this volume is used for the design tank containment volume,  $V_{\text{tank}}$ . These calculations also take into account precipitation from a 25-year, 24-hour rainfall event (design storm),  $V_{\text{precip}}$ . Precipitation for each containment area is calculated using equation 1:

$$V_{\text{precip}} = A_{\text{cont}} * i \quad (\text{Eqn. 1})$$

where  $V_{\text{precip}}$  = volume of precipitation

$A_{\text{cont}}$  = total containment area

$i$  = depth of precipitation for the design storm

The total required secondary containment,  $V_{\text{SC-req}}$ , is the sum of precipitation from the design storm and the capacity of the largest tank, as shown in equation 2:

$$V_{\text{SC-req}} = V_{\text{precip}} + V_{\text{tank}} \quad (\text{Eqn. 2})$$

Available secondary containment is based on the open containment area,  $A_{\text{open}}$ , found by subtracting the footprint of any equipment located on the ground,  $A_{\text{equip}}$ , from the total containment area,  $A_{\text{cont}}$ , as shown in equation 3:

$$A_{\text{open}} = A_{\text{cont}} - A_{\text{equip}} \quad (\text{Eqn. 3})$$

Attachment  
SDP-4-1

The secondary containment volume,  $V_{SC-exist}$ , is determined by multiplying the open containment area,  $A_{open}$ , by the average height of the containment curb or wall,  $h_{cont}$ , and adding in additional containment storage,  $V_{add}$ , such as sump volume or hydraulic pass-through into other containment areas, as shown in equation 4:

$$V_{SC-exist} = A_{open} * h_{cont} + V_{add} \quad (\text{Eqn. 4})$$

Available containment can then be compared to the required secondary containment to determine whether a deficiency exists, and engineered solutions can be proposed to eliminate the deficiency. When a containment surplus is found, the available freeboard,  $h_{FB}$ , or the height from the top of the design containment water surface to the top of the containment wall, can be calculated based on the available open containment area, as shown in equation 5:

$$h_{FB} = ( V_{SC-exist} - V_{SC-req} ) / A_{open} \quad (\text{Eqn. 5})$$

### Sample Calculation

A sample calculation for Grit Trap Treatment Area D is provided below, with calculations for all containment areas summarized in attached tables.

According to data from *Atlas of Depth-Duration Frequency of Precipitation Annual Maxima for Texas*, a collaboration between the United States Geological Survey and the Texas Department of Transportation (June 2004), a 25-year, 24-hour storm event at the site produces approximately 7.25 inches of rainfall. Containment Area D has dimensions of approximately 20 feet by 23 feet for a total containment area,  $A_{cont}$ , of approximately 460 square feet ( $ft^2$ ). The volume of precipitation is calculated using equation 1:

$$V_{precip} = A_{cont} * i = 460 \text{ ft}^2 * 7.25 \text{ in} * (\text{ft}/12 \text{ in}) * (7.48 \text{ gallons} / \text{ft}^3) \quad (\text{Eqn. 1})$$

$$V_{precip} = 2,079 \text{ gallons}$$

Attachment SDP-4-2

There is a single storage tank found on the ground within the containment area with a tank capacity,  $V_{\text{tank}}$ , of 20,300 gallons. The total required secondary containment is calculated using equation 2:

$$V_{\text{SC-req}} = V_{\text{precip}} + V_{\text{tank}} = 2,079 \text{ gallons} + 20,300 \text{ gallons} \quad (\text{Eqn. 2})$$

$$V_{\text{SC-req}} = 22,379 \text{ gallons}$$

As shown on the attached equipment schedule, the single storage tank diameter is elevated, resulting in a footprint area,  $A_{\text{equip}}$ , of 0 ft<sup>2</sup>. The open containment area can be calculated using equation 3:

$$A_{\text{open}} = A_{\text{cont}} - A_{\text{equip}} = 460 \text{ ft}^2 - 0 \text{ ft}^2 \quad (\text{Eqn. 3})$$

$$A_{\text{open}} = 460 \text{ ft}^2$$

The containment wall height in this containment area,  $h_{\text{cont}}$ , is 83 inches (6.9 feet). Area D also utilizes a weir-type flow-through located near the top of the north wall that allows Area E to be used as additional containment capacity in the event of a release in Area D. This additional capacity,  $V_{\text{add}}$ , is 13,464 gallons. The total existing available containment capacity is then calculated using equation 4:

$$V_{\text{SC-exist}} = A_{\text{open}} * h_{\text{cont}} + V_{\text{add}} \quad (\text{Eqn. 4})$$

$$V_{\text{SC-exist}} = ( 460 \text{ ft}^2 * 83 \text{ inches} * [\text{ft}/12 \text{ in}] ) * (7.48 \text{ gallons} / \text{ft}^3) + 13,464 \text{ gallons}$$

$$V_{\text{SC-exist}} = 37,263 \text{ gallons}$$

Comparing the required to the available secondary containment shows that a surplus exists in Area D of approximately 14,884 gallons. Based on this calculated surplus, determine the approximate freeboard. Due to additional containment used in Area E, freeboard will be based on the open area in Area E,  $A_{\text{open}} = 400 \text{ ft}^2$ . Using equation 5:

Attachment SDP-4-3

$$h_{FB} = ( 29,129 \text{ gallons} - 22,379 \text{ gallons} ) / ( 7.48 \text{ gallons} / \text{ft}^3 ) / 400 \text{ ft}^2 * ( 12 \text{ in/ft} ) \text{ (Eqn. 5)}$$

$$h_{FB} = 38 \text{ inches}$$

Secondary containment calculations are summarized in the table below:

**Secondary Containment Calculation Summary**

Area	Containment Area Description	Additional Containment Height (inches)	Containment Capacity (gallons)		Freeboard (inches)
			Existing	Required	
A & E	Tank Farm & Storage Tank 32	0	65,063	62,240	0.0037
B	Process Building	0	15,382	11,500	0.0091
C	Paved Truck Offloading	0	52,690	41,616	0.0176
D	Storage Tank 31	0	35,995	22,379	0.3298

## Secondary Containment Information

The permit modification request is submitted to add a filter press and lime storage tank at the facility. The units will be located upon a new concrete pad which is depicted in SDP-4, Figure 1 of this Application. SDP-4, Figure 1 also depicts the sub-areas within Secondary Containment Area A used to calculate overall secondary containment.

The concrete has been constructed so that all storm water from the new pad (Area A11) will flow toward the existing Area A, specifically Area A1, via a concrete cut-out and eight 1-inch drain holes. Area A1 is 12 inches below grade of the new area A11.

Area E is now connected to Area A1 via a four ft wide cut in the wall on the eastern side of Area E's containment. This ensures that any excess gallons in Area E's containment will be able to flow into Area A for additional containment. A pump is available to pump out Area E after a rainfall and/or release event.

Cutting out the concrete wall and adding eight 1-inch drain holes to Area A1 reduces the existing containment wall height to 12 inches, which is six inches lower than the modified wall height as shown in the Summary of Secondary Containment Calculations of this Attachment. The modification reduces the storage capacity below the requirements to maintain containment for the largest tank plus the 24-hour, 25-year storm for the following areas: A1, A2, A3, A5, A7, A8, A9, and E. Additionally, the 2-inch roll over berm in the new area (A11) is insufficient to contain release from filter press and the 24-hour, 25-year storm. Therefore, additional containment capacity is provided via an automated sump pump, located in A1, additional tank storage capacity on site (wastewater processing system), and the Dissolved Air Flotation (DAF) processing unit.

The sump pump is double diaphragm pneumatic pump operated based on water level in the sump and is capable of pumping 150 gallons per minute (gpm). Water is pumped from the sump to a series of tanks, which is then routed to the DAF processing unit that can treat up to 350 gpm. The DAF processing unit is an automated system based on level control within the series of tanks.

In order to determine if adequate storage capacity is provided, the containment area was modeled using rainfall intensity obtained from the Soil Conservation Service (SCS) Type III Unit Hydrograph, assuming a 24-hour, 25-year design storm of 7.25 inches. As shown in the Summary of Secondary Containment Calculations, assuming an instantaneous release from the largest tank in area A (24,000 gallons) during the maximum rainfall intensity (4.67 inch per hour), the 150 gpm pneumatic sump pump located in Area A1 can to maintain sufficient pumping capacity to prevent a release from overtopping the 12-inch containment wall located in Area A. The maximum volume required for containment during the storm is 62,240 gallons, which is below the total containment capacity (65,485 gallons) of Areas A and E as modified as part of this permit modification.

**Summary of Secondary Containment Calculations**

Liquid Environmental Solutions, Dallas Facility

Area:	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	E	Total A&E	B	C	D
Containment area (ft2)	1,888	342	198	84	260	1,508	40	630	800	714	2500	400	9,364	5,100	6,996	460
Open containment area (ft2)	1,838	342	148	84	260	1,172	40	529	750	477	2421	400	8,462	4,775	6,996	460
Existing containment height (in)	12	19	15	15	15	9	15	10.5	12	10.5	6	54	(varies)	5	12	83
Maximum tank volume (gal)	24,000	12,000	10,000	-	-	15,000	-	12,500	18,000	24,000	6,150	18,000	24,000	11,500	10,000	20,300
Total tank volume (gal)	62,000	12,000	10,000	-	-	47,000	-	40,500	28,000	24,700	7,260	231,460	13,325	20,000	20,300	18,000
Design tank containment volume (gal)	24,000	12,000	10,000	-	-	15,000	-	12,500	18,000	24,000	6,150	18,000	24,000	11,500	10,000	20,300
Design precipitation (gal)	8,305	1,546	669	380	-	5,296	181	2,393	3,389	2,156	10,943	1,808	38,240	-	31,616	2,079
Total containment required (gal)												19,808	62,240	11,500	41,616	22,379
Existing containment available (gal)	13,746	4,050	1,384	785	2,431	6,575	374	3,465	5,610	3,122	9,056	13,464	64,063	14,882	52,330	23,799
Additional containment (gal)	711	-	-	-	-	711	-	-	-	-	-	-	1,422	500	360	13,464
Total containment capacity (gal)	14,457	4,050	1,384	785	2,431	7,286	374	3,465	5,610	3,122	9,056	13,464	65,485	15,382	52,690	37,263
Existing containment deficiency (gal)													0	0	0	0

Notes / Assumptions:

1. Area A5 is covered. Precipitation will drain off-site, outside containment Area A.
2. Tank 35 in Area A6 contains vapor (not fluid), which does not require secondary containment.

Conversions

7.25 inches, 25-year 24-hour design storm  
 7.48 gallons per cubic foot



*DM*  
 3/11/26

**Summary of Secondary Containment Areas and Volumes**

*Liquid Environmental Solutions, Dallas Facility*

Area:	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	B	C	D	E
Length (ft)	59	18	11	7	13	58	5	63	25	14	53, 40	85	95, 51	23	20
Width (ft)	32	19	18	12	20	26	8	10	32	51	34, 17	60	57, 31	20	20
Area (ft <sup>2</sup> )	1,888	342	198	84	260	1,508	40	630	800	714	2500	5,100	6,996	460	400
Height (in)	12	19	15	15	15	9	15	10.5	12	10.5	6	5	12	83	54
Volume (ft <sup>3</sup> )	1,888	542	248	105	325	1,131	50	551	800	625	1,250	2,125	6,996	3,182	1,800
Volume (gal)	14,122	4,051	1,851	785	2,431	8,460	374	4,124	5,984	4,673	9,350	15,896	52,334	23,801	13,465
<b>Existing Conditions</b>															
Open area (ft <sup>2</sup> )	1,888	229	148	84	260	1,172	40	451	750	477	2421	4,737	6,996	327	287
Partial elevated tank height (in)															36
Open volume (ft <sup>3</sup> )	1,888	362	185	105	325	879	50	395	750	417	1211	1,974	6,996	2,264	1,630
Open volume (gal)	14,122	2,711	1,381	785	2,431	6,577	374	2,952	5,608	3,122	9,056	14,765	52,334	16,933	12,196

Assumptions / Conversions

7.48 gallons per cubic foot 12 inches per foot



*DAH*  
3/12/20

Tank and Equipment Schedule - LES Dallas Facility

Item	Containment Area	Containment Sub-Area	Equipment Placement	Diameter (ft)	Length (ft)	Width (ft)	Surface Area (Sq. ft.)	Size	Units	Equipment Type	Function
14	A	A1	On Ground	8			50	10,000	gallons	Storage Tank	Brown Grease Storage
17	A	A1	Elevated	10				24,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
18	A	A1	Elevated	10				18,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
25	A	A1	Elevated	8				12,500	gallons	Storage Tank	Wastewater or Sludge Holding
55	A	A1	Elevated	10				10,000	gallons	Centrifuge Feed Tank	Centrifuge Feed System
							Total:	50	74,500	gallons	
33	A	A2	Elevated	12				12,000	gallons	Storage Tank	Wastewater or Sludge Holding
							Total:	113	12,000	gallons	
10	A	A3	On Ground	8			50	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
							Total:	50	10,000	gallons	
54	A	A5	Elevated					175	gpm	Centrifuge	Brown Grease Recovery
							Total:	0	0	gallons	
3	A6	A6	On Ground	12			113	15,000	gallons	Processing Tank	Grease Trap Treatment
11	A6	A6	On Ground	8			50	10,000	gallons	Storage Tank	Yellow Grease Finished Product Storage
12	A6	A6	Elevated	8			6,000	6,000	gallons	Processing Tank	Yellow Grease Processing
13	A6	A6	Elevated	8			6,000	6,000	gallons	Storage Tank	Yellow Grease Offload
35	A6	A6	On Ground	8			50		gallons	Odor Control Scrubber	Air Scrubber Vent Tank (8,000 gallon AIR ONLY)
36	A6	A6	On Ground	12			113	2,000	gallons	Odor Control Scrubber	Scrubber Intake Tank
37	A6	A6	On Ground		3	3	9	30	HP	Odor Control Scrubber	Scrubber Fan
							Total:	336	39,000	gallons	
8	A	A8	On Ground	8			50	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
19	A	A8	Elevated	10				8,000	gallons	Storage Tank	Wastewater or Sludge Holding
22	A	A8	On Ground	8			50	10,000	gallons	Storage Tank	Wastewater or Sludge Holding
							Total:	101	28,000	gallons	
20	A	A9	Elevated	10				20,000	gallons	Storage Tank	Offloading/Wastewater/Sludge Holding
21	A	A9	On Ground	8			50	10,000	gallons	Storage Tank	Brown Grease Storage
50	A	A9	Elevated					3,000	gallons	Vacuum Tank	Various
							Total:	50	33,000	gallons	
34	A	A10	Elevated	12				24,000	gallons	Grit Processing AST	Offloading/Grit Trap Treatment
46	A	A10	On Ground		6	4	24	6x4x4	feet	Dissolved Air Flotation	Grit Trap Treatment
56	A	A10	Elevated					400	gpm	Mechanical Processing	Mechanical Debris Screen
57	A	A10	On Ground		10	10	100	3,500	gallons	Holding Tank	Offloading Tank Platform
							Total:	237	27,500	gallons	
15	A	A11	On Ground					360	gallons	Polymer Tote	Chemical Storage
58	A	A11	On Ground	10			79	6,150	gallons	Storage Tank	Lime Tank
59	A	A11	Elevated					750	gallons	Filter Press	Filter Press
							Total:	79	7,260	gallons	
EAF1	B		On ground		25	6.5	163	7,900	gallons	Entrapped Air Flotation	Grease Trap Treatment
EAF2	B		On ground		20	5	100	3,740	gallons	Entrapped Air Flotation	Grease Trap Treatment
5	B		On Ground	8			50	2,500	gallons	Sodium Hydroxide Tank	Chemical Storage
6	B		On Ground	4			13	550	gallons	Poly Tank	Transfer Tank
42	B		Elevated					10,000	gallons	Storage Tank	Bar Screen Offload Tank
							Total:	325	24,690	gallons	
52	C		In Ground		70	15		10,000	gallons	Settling Pit	Solidification
53	C		In Ground		70	15		10,000	gallons	Settling Pit	Solidification
	C		On Ground					6,000	gallons	Truck	Offloading
							Total:	0	6,000	gallons	
31	D		Elevated	13				20,300	gallons	Grit Processing AST	Grit Trap Treatment



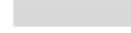
*David Hawley*  
 7/2/20

Total:	0	20,300	gallons
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32	E		Elevated	12			113	18,000	gallons	Grit Processing AST	Grit Trap Treatment
							Total:	113	18,000	gallons	

43			On Ground				0	350	HP	Steam Boiler	In Tank Material Heating
44			On Ground	4			13	500	gallons	Boiler Feed Water Tank	Boiler Feed Water System
45			On Ground					14	gpm	Water Softener System	Boiler Feed Water System
48			Elevated					50	HP	Air Compressor	Facility Main Air Supply

Legend

 Not applicable for this equipment

Assumptions/Conversions

7.48 gallons per cubic foot

In cooperation with the Texas Department of Transportation

# Atlas of Depth-Duration Frequency of Precipitation Annual

## Maxima for Texas



Scientific Investigations Report 2004–5041  
(TxDOT Implementation Report 5–1301–01–1)

U.S. Department of the Interior

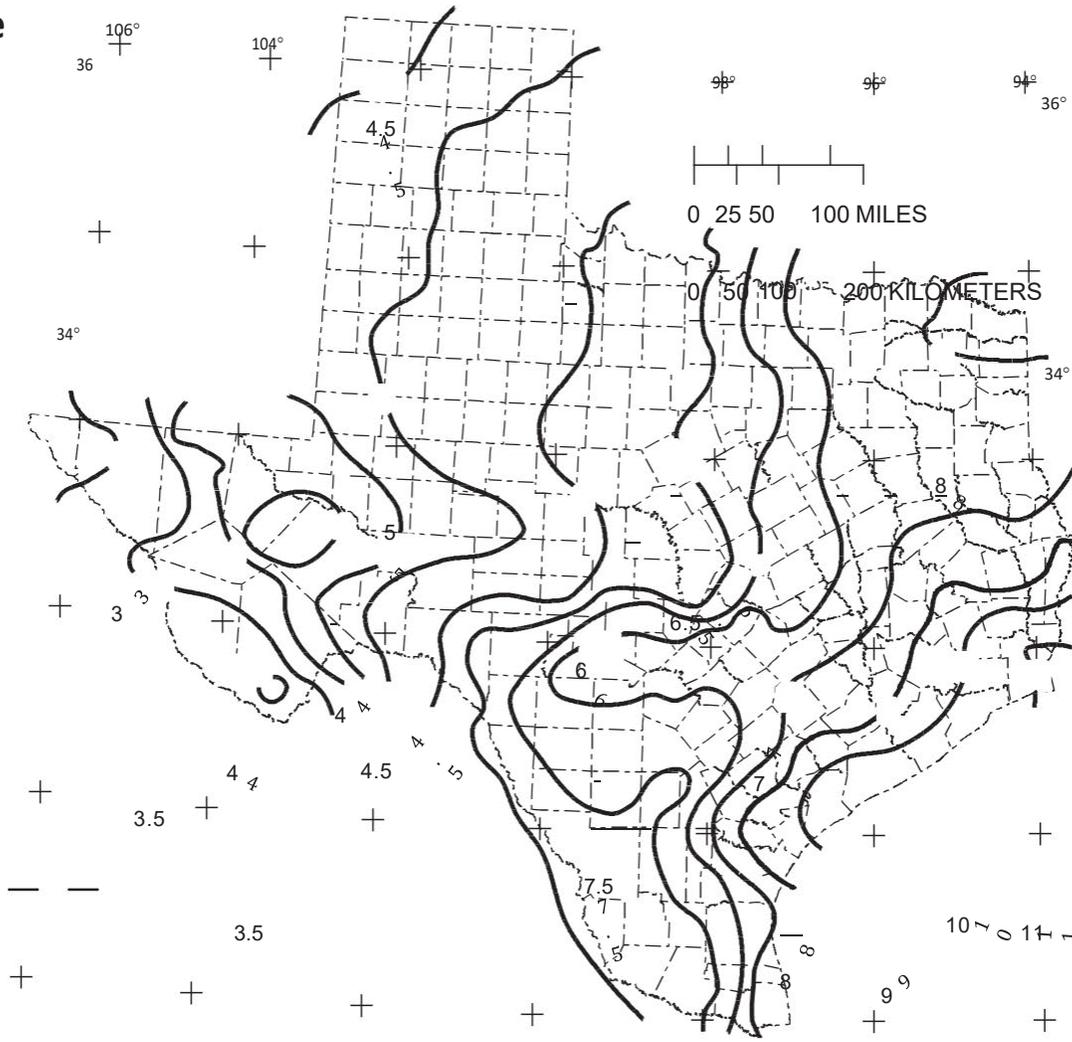
U.S. Geological Survey

1. Report No. FHWA/TX-04/5-1301-01-1		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle  ATLAS OF DEPTH-DURATION FREQUENCY OF PRECIPITATION ANNUAL MAXIMA FOR TEXAS				5. Report Date June 2004	
				6. Performing Organization Code	
7. Author(s) William H. Asquith and Meghan C. Roussel				8. Performing Organization Report No. SIR 2004-5041	
9. Performing Organization Name and Address U.S. Geological Survey Water Resources Division 8027 Exchange Drive Austin, Texas 78754				10. Work Unit No. (TRAIS)	
				11. Contract or Grant No. Project 5-1301	
12. Sponsoring Agency Name and Address Texas Department of Transportation Research and Technology Implementation Office 4000 Jackson Ave., Bldg. 1 P.O. Box 5080 Austin, TX 78731				13. Type of Report and Period Covered Research from 2003 to 2004	
				14. Sponsoring Agency Code	
15. Supplementary Notes Project conducted in cooperation with the Texas Department of Transportation and the Federal Highway Administration.					
16. Abstract  Ninety-six maps depicting the spatial variation of the depth-duration frequency of precipitation annual maxima for Texas are presented. The recurrence intervals represented are 2, 5, 10, 25, 50, 100, 250, and 500 years. The storm durations represented are 15 and 30 minutes; 1, 2, 3, 6, and 12 hours; and 1, 2, 3, 5, and 7 days. The maps were derived using geographically referenced parameter maps of probability distributions used in previously published research by the U.S. Geological Survey to model the magnitude and frequency of precipitation annual maxima for Texas. The maps in this report apply that research and update depth-duration frequency of precipitation maps available in earlier studies performed by the National Weather Service.					
17. Key Words Precipitation, Depth duration frequency, Annual precipitation maxima, L-moments, Texas				18. Distribution Statement No restrictions.	
19. Security Classif. (of report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of pages 106	22. Price \$4.00

**Cover:**

West Sister Creek near Sisterdale, Texas, on FM 473, Kendall County, May 10, 2004.

Figure



**EXPLANATION**

3 Line of equal precipitation depth, in inches—variable contour interval.

Albers-equal area projection parameters

- Central meridian: -96.0
- Standard parallel 1: 29.5
- Standard parallel 2: 45.
- Latitude of origin: 23.
- 0

Base modified from U.S. Geological Survey digital data at 1:250,000 (2003)

**NOAA Atlas 14, Volume 11, Version 2 DALLAS  
LOVE FLD**



**Station ID: 79-0088**  
**Location name: Dallas, Texas, USA\***  
**Latitude: 32.8519°, Longitude: -96.8556°**  
**Elevation:**  
**Elevation (station metadata): 440 ft\*\***  
\* source: ESRI Maps  
\*\* source: USGS



**POINT PRECIPITATION FREQUENCY ESTIMATES**

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orlan Wilhite

NOAA, National Weather Service, Silver Spring, Maryland

[PF\\_tabular](#) | [PF\\_graphical](#) | [Maps\\_&\\_aerials](#)

**PF tabular**

<b>PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)<sup>1</sup></b>										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.421 (0.319-0.556)	0.488 (0.374-0.641)	0.599 (0.457-0.788)	0.690 (0.518-0.918)	0.812 (0.590-1.11)	0.904 (0.640-1.27)	0.996 (0.687-1.43)	1.09 (0.733-1.60)	1.22 (0.790-1.84)	1.31 (0.830-2.04)
10-min	0.672 (0.509-0.888)	0.779 (0.597-1.02)	0.957 (0.730-1.26)	1.10 (0.828-1.47)	1.30 (0.945-1.78)	1.45 (1.03-2.03)	1.60 (1.10-2.29)	1.74 (1.17-2.56)	1.93 (1.26-2.93)	2.07 (1.31-3.22)
15-min	0.844 (0.639-1.11)	0.976 (0.744-1.28)	1.19 (0.905-1.56)	1.37 (1.03-1.82)	1.62 (1.18-2.22)	1.82 (1.29-2.55)	2.01 (1.39-2.89)	2.20 (1.48-3.23)	2.43 (1.58-3.68)	2.60 (1.64-4.04)
30-min	1.18 (0.897-1.56)	1.37 (1.04-1.79)	1.67 (1.27-2.19)	1.92 (1.44-2.55)	2.26 (1.64-3.09)	2.52 (1.78-3.53)	2.78 (1.92-3.99)	3.04 (2.04-4.46)	3.38 (2.19-5.12)	3.63 (2.30-5.64)
60-min	1.54 (1.17-2.04)	1.79 (1.37-2.35)	2.20 (1.68-2.89)	2.53 (1.90-3.37)	2.98 (2.16-4.06)	3.31 (2.34-4.63)	3.65 (2.52-5.24)	4.01 (2.70-5.90)	4.50 (2.93-6.84)	4.89 (3.10-7.59)
2-hr	1.88 (1.44-2.46)	2.21 (1.71-2.86)	2.74 (2.11-3.56)	3.18 (2.41-4.19)	3.79 (2.78-5.12)	4.26 (3.04-5.90)	4.75 (3.30-6.73)	5.26 (3.57-7.64)	5.98 (3.92-8.96)	6.56 (4.18-10.0)
3-hr	2.08 (1.60-2.70)	2.46 (1.91-3.16)	3.07 (2.38-3.96)	3.59 (2.74-4.69)	4.31 (3.18-5.79)	4.88 (3.50-6.71)	5.47 (3.82-7.70)	6.10 (4.16-8.79)	6.99 (4.59-10.4)	7.69 (4.92-11.7)
6-hr	2.44 (1.90-3.14)	2.92 (2.28-3.69)	3.67 (2.87-4.68)	4.32 (3.33-5.59)	5.24 (3.91-6.95)	5.97 (4.33-8.11)	6.74 (4.76-9.37)	7.58 (5.20-10.8)	8.74 (5.79-12.8)	9.68 (6.24-14.5)
12-hr	2.85 (2.25-3.62)	3.42 (2.70-4.28)	4.32 (3.42-5.45)	5.10 (3.98-6.52)	6.20 (4.68-8.14)	7.09 (5.20-9.51)	8.03 (5.72-11.0)	9.05 (6.27-12.7)	10.5 (7.01-15.2)	11.7 (7.58-17.2)
24-hr	3.31 (2.64-4.16)	3.98 (3.18-4.92)	5.04 (4.03-6.28)	5.95 (4.69-7.52)	7.25 (5.52-9.39)	8.28 (6.13-11.0)	9.39 (6.75-12.7)	10.6 (7.41-14.7)	12.3 (8.30-17.6)	13.7 (8.99-19.9)
2-day	3.85 (3.10-4.78)	4.62 (3.74-5.65)	5.84 (4.73-7.20)	6.89 (5.50-8.61)	8.38 (6.45-10.7)	9.56 (7.14-12.5)	10.8 (7.86-14.5)	12.2 (8.63-16.7)	14.3 (9.68-20.0)	15.9 (10.5-22.8)
3-day	4.20 (3.41-5.18)	5.04 (4.11-6.12)	6.36 (5.19-7.80)	7.50 (6.02-9.31)	9.11 (7.06-11.6)	10.4 (7.80-13.5)	11.8 (8.58-15.6)	13.3 (9.42-18.0)	15.5 (10.6-21.5)	17.3 (11.4-24.5)
4-day	4.46 (3.64-5.47)	5.34 (4.37-6.45)	6.73 (5.52-8.21)	7.93 (6.41-9.80)	9.65 (7.51-12.2)	11.0 (8.30-14.2)	12.5 (9.13-16.4)	14.1 (10.0-18.9)	16.4 (11.2-22.7)	18.3 (12.2-25.8)
7-day	5.00 (4.12-6.08)	5.98 (4.94-7.15)	7.51 (6.22-9.08)	8.85 (7.21-10.8)	10.8 (8.46-13.5)	12.3 (9.37-15.7)	14.0 (10.3-18.2)	15.8 (11.3-21.0)	18.4 (12.7-25.1)	20.5 (13.7-28.5)
10-day	5.47 (4.53-6.61)	6.53 (5.42-7.76)	8.17 (6.80-9.82)	9.61 (7.88-11.7)	11.7 (9.22-14.5)	13.3 (10.2-16.9)	15.1 (11.2-19.5)	17.0 (12.3-22.5)	19.8 (13.7-26.8)	22.0 (14.8-30.4)
20-day	7.08 (5.94-8.46)	8.30 (7.02-9.82)	10.2 (8.66-12.2)	11.9 (9.87-14.3)	14.2 (11.3-17.4)	16.0 (12.3-20.0)	17.8 (13.3-22.7)	19.8 (14.4-25.8)	22.7 (15.8-30.3)	25.0 (16.9-34.0)
30-day	8.44 (7.13-10.0)	9.78 (8.36-11.6)	12.0 (10.2-14.2)	13.8 (11.5-16.5)	16.3 (13.1-19.8)	18.2 (14.1-22.5)	20.1 (15.1-25.4)	22.2 (16.2-28.6)	25.1 (17.6-33.2)	27.4 (18.6-36.9)
45-day	10.3 (8.78-12.2)	11.9 (10.3-14.0)	14.5 (12.5-17.1)	16.6 (14.0-19.7)	19.5 (15.8-23.6)	21.7 (17.0-26.7)	23.9 (18.1-30.0)	26.2 (19.2-33.5)	29.3 (20.6-38.3)	31.6 (21.6-42.2)
60-day	12.0 (10.3-14.1)	13.8 (12.0-16.1)	16.8 (14.5-19.6)	19.2 (16.3-22.7)	22.5 (18.3-27.1)	25.0 (19.7-30.6)	27.5 (20.9-34.3)	30.0 (22.1-38.1)	33.2 (23.5-43.2)	35.6 (24.4-47.2)

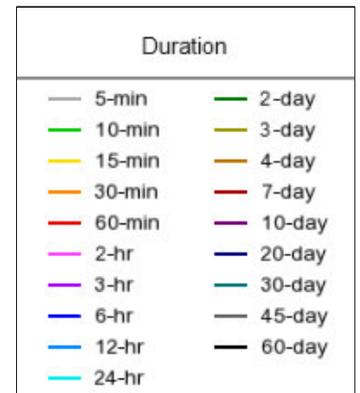
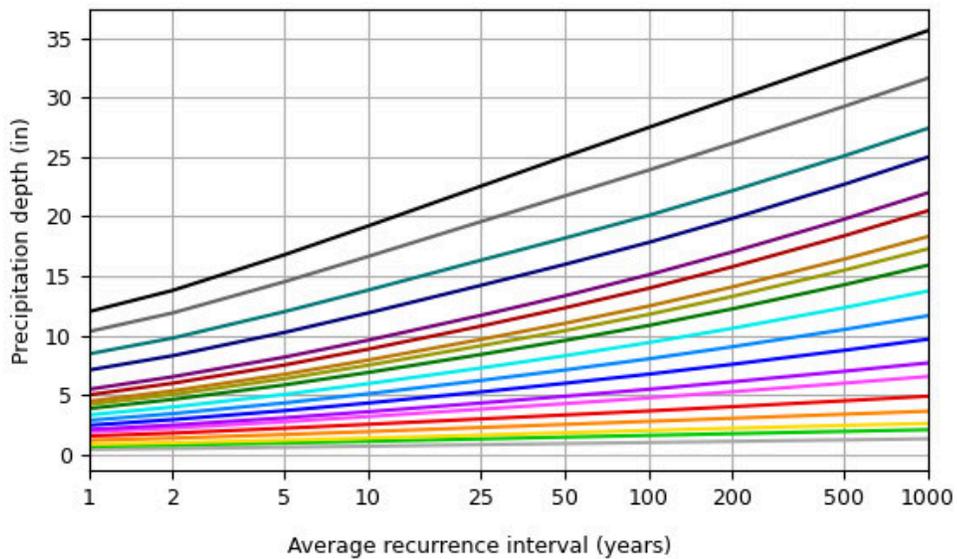
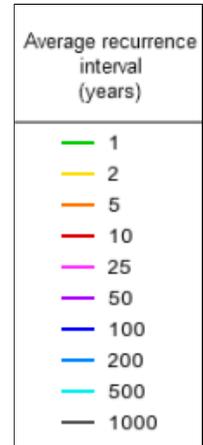
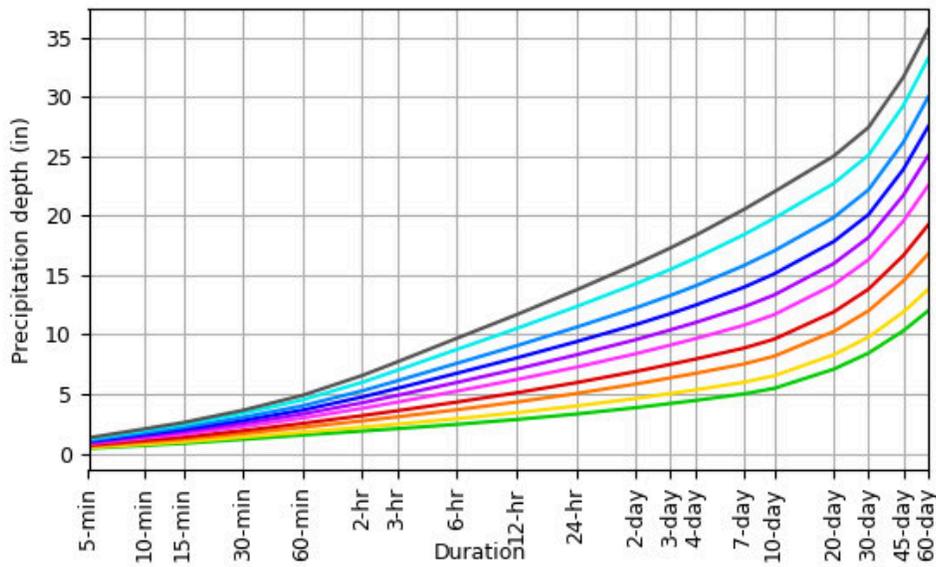
<sup>1</sup> Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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**PF graphical**

PDS-based depth-duration-frequency (DDF) curves

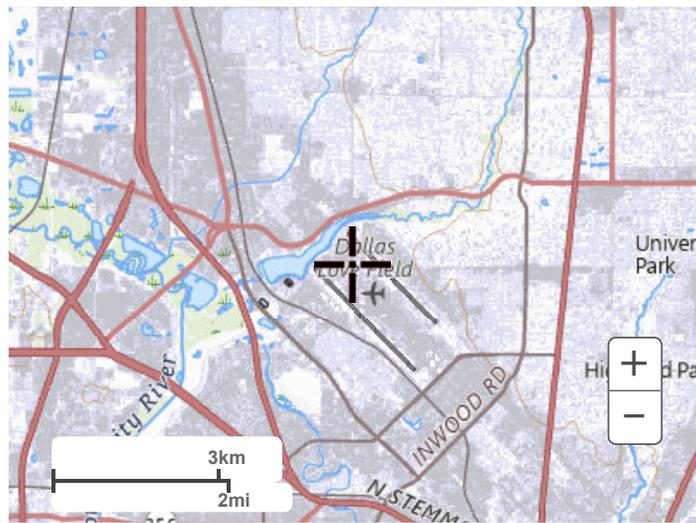
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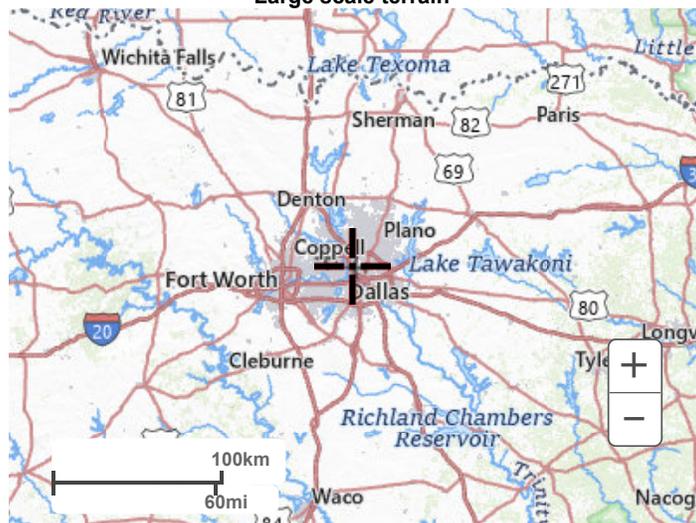
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**Maps & aerials**

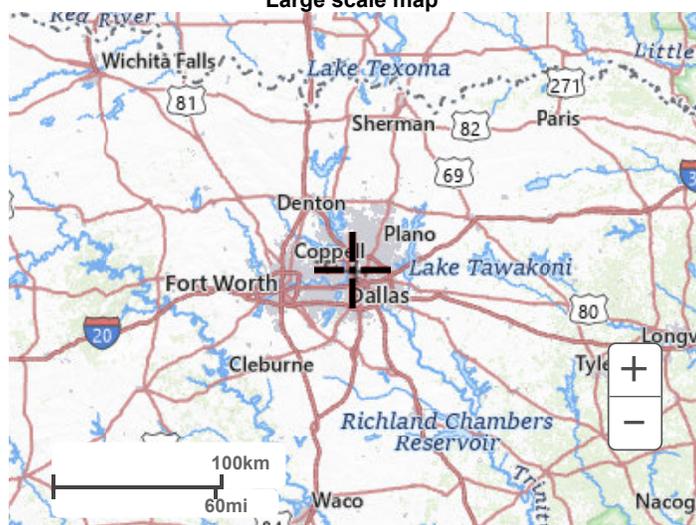
**Small scale terrain**



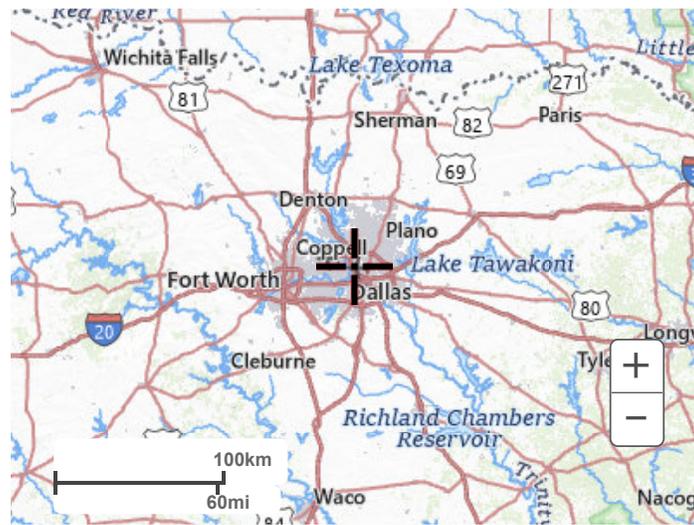
Large scale terrain



Large scale map



Large scale aerial

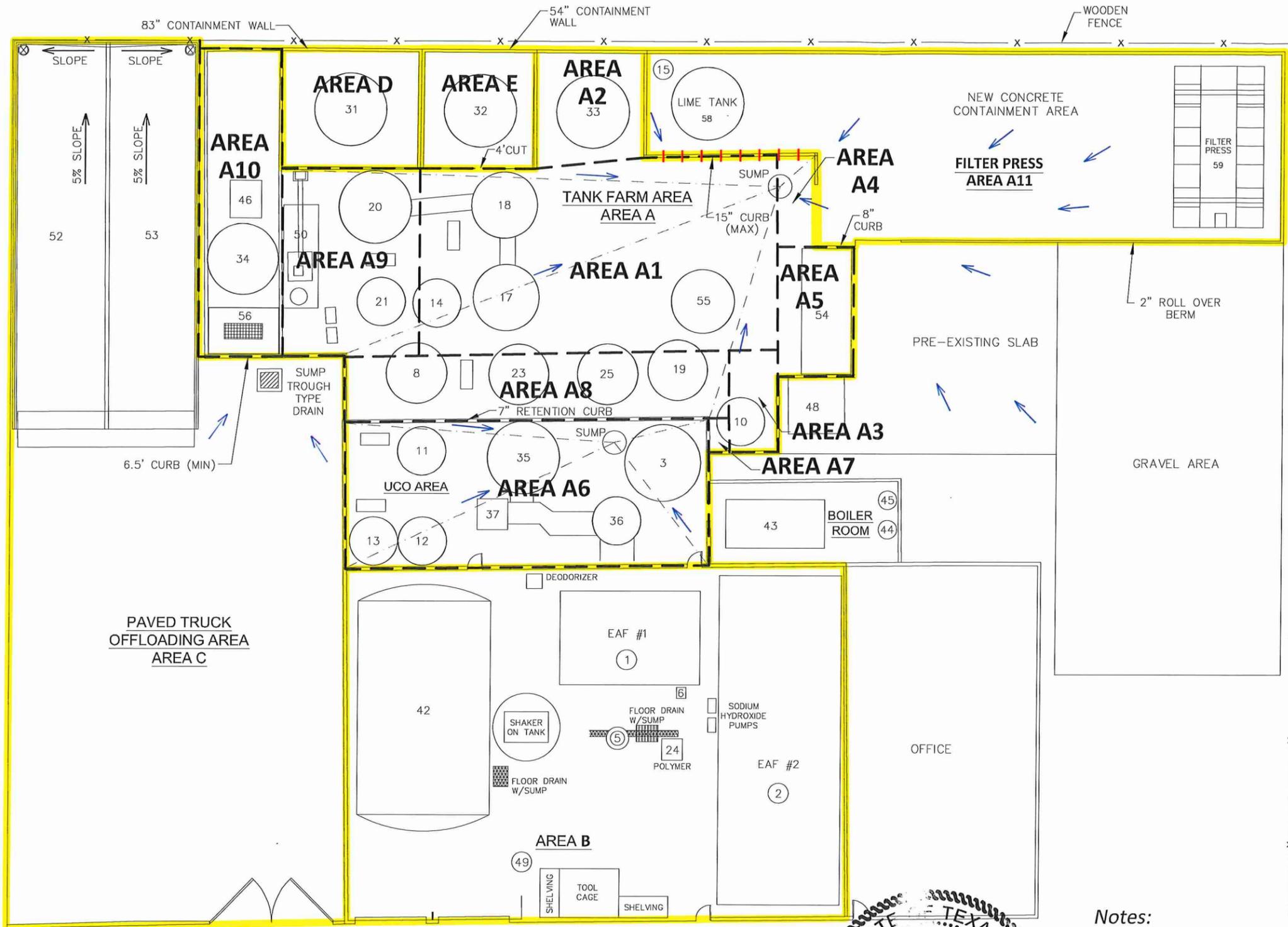


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[National Weather Service](#)  
[National Water Center](#)  
1325 East West Highway  
Silver Spring, MD 20910

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**LEGEND**

- Stormwater Flow Direction
- 1" Drain Hole

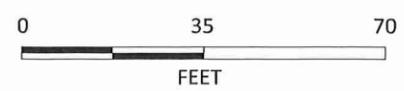
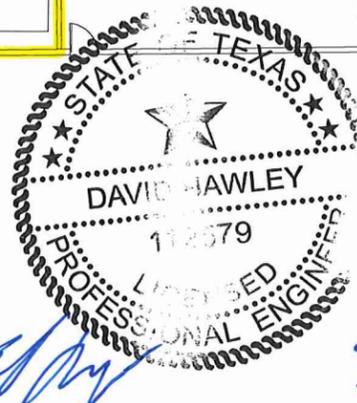
Tank and Equipment Schedule						
Item #	Containment Area	Equipment Placement	Size	Units	Equipment Type	Function
EAF #1	B	On Ground	11,500	gallon	Entrapped Air Flotation	Grease Trap Treatment
EAF #2	B	On Ground	6,000	gallon	Entrapped Air Flotation	Grease Trap Treatment
3	A	On Ground	15,000	gallon	Processing Tank	Grease Trap Treatment
5	B	On Ground	2,500	gallon	Sodium Hydroxide Tank	Chemical Storage
6	B	On Ground	550	gallon	Poly Tank	Transfer Tank
8	A	On Ground	10,000	gallon	Storage Tank	Wastewater Sludge Holding
10	A	On Ground	10,000	gallon	Storage Tank	Wastewater Sludge Holding
11	A	On Ground	10,000	gallon	Storage Tank	Yellow Grease Finished Product
12	A	Elevated	6,000	gallon	Processing Tank	Yellow Grease Processing
13	A	Elevated	6,000	gallon	Storage Tank	Yellow Grease Offload
14	A	On Ground	10,000	gallon	Storage Tank	Brown Grease Storage
15	A	On Ground	360	gallon	Polymer Tote	Chemical Storage
17	A	Elevated	24,000	gallon	Storage Tank	Offloading/Wastewater/Sludge
18	A	Elevated	18,000	gallon	Storage Tank	Offloading/Wastewater/Sludge
19	A	Elevated	8,000	gallon	Storage Tank	Wastewater or Sludge Holding
20	A	Elevated	18,000	gallon	Storage Tank	Offloading/Wastewater/Sludge
21	A	On Ground	10,000	gallon	Storage Tank	Brown Grease storage
23	A	On Ground	10,000	gallon	Storage Tank	Wastewater or Sludge Holding
24	B	On Ground	275	gallon	Polymer Tote	Treatment
25	A	On Ground	12,500	gallon	Storage Tank	Wastewater or Sludge Holding
31	D	On Ground	20,300	gallon	Grit Processing AGT	Grit Trap Treatment
32	E	Elevated	18,000	gallon	Grit Processing AGT	Grit Trap Treatment
33	A	On Ground	12,000	gallon	Storage Tank	Wastewater or Sludge Holding
34	A	On Ground	24,000	gallon	Grit Processing AGT	Offloading/Grit Trap Treatment
35	A	On Ground	8,000	gallon	Odor Control Scrubber	Air Scrubber Vent Tank (Air Only)
36	A	On Ground	2,000	gallon	Odor Control Scrubber	Scrubber Intake Tank
37	A	On Ground	30	HP	Odor Control Scrubber	Scrubber Fan
39	B	Elevated	5	HP	Vibratory Screen	Grease Trap Treatment
42	B	Elevated	10,000	gallon	Storage Tank	Bar screen Offload Tank
43		On Ground	350	HP	Steam Boiler	In Tank Material Heating
44		On Ground	500	gallon	Boiler Feed Water Tank	Boiler Feed Water System
45		On Ground	14	gpm	Water Softener System	Boiler Feed Water System
46	A	On Ground	700	gallon	Dissolved Air Flotation	Grit Trap Treatment
48		Elevated	50	HP	Air Compressor	Facility Main Air Supply
50	A	Elevated	3,000	gallon	Vacuum Tank	Various
52	C	In Ground	10,000	gallon	Settling Pit	Solidification
53	C	In Ground	10,000	gallon	Settling Pit	Solidification
54	A	Elevated	175	gpm	Centrifuge	Brown Grease Recovery
55	A	Elevated	10,000	gallon	Centrifuge Feed Tank	Centrifuge Feed System
56	A	Elevated	400	gpm	Mechanical Processing	Mechanical Debris Screen
57	A	On Ground	3,500	gallon	Holding Tank	Offload Tank Processing
59	A	On Ground	6,150	gallon	Storage Tank	Lime Tank
60	A	Elevated	750	gallon	Filter Press	Filter Press

Secondary Containment Summary				
Area	Containment Area Description	Containment Capacity (gallons)		
		Existing	Modified	TA
A	Tank Farm	43,567	53,608	41,553*
B	Process Building	15,265	15,265	--
C	Paved Truck Offloading	15,694	15,694	--
D	Storage Tank 31	29,129	29,129	--
E	Storage Tank 32	12,196	12,196	--

\*Additional containment is provided as discussed in Attachment D.

**Notes:**

- EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE NOT SHOWN TO SCALE.
- EQUIPMENT SCHEDULE AND CONTAINMENT HEIGHTS ARE BASED ON INFORMATION PROVIDED TO CK ASSOCIATES BY LIQUID ENVIRONMENTAL SOLUTIONS, LLC.
- CONTAINMENT HEIGHTS SHOWN ARE EXISTING. REFER TO SECONDARY CONTAINMENT CALCULATION SUMMARY TABLE FOR ADDITIONAL CONTAINMENT INFORMATION AND ATTACHMENT D.
- APPROXIMATE LOCATIONS OF ELEVATED INCIDENTAL EQUIPMENT, SUCH AS PUMPS, ARE SHOWN FOR REFERENCE ONLY AND MAY NOT BE IDENTIFIED ON THE TANK AND EQUIPMENT SCHEDULE.



**Liquid Environmental Solutions**  
Dallas, Texas

Municipal Solid Waste (MSW) Permit 2069A

**Containment Areas**

Dallas County

Drawn: APS	Checked: BHR
Date: 2/17/2026	Approved: DWH
Dwg. No.: 00002100-03	<b>SDP-4, Figure 1</b>

**CK ASSOCIATES**  
Environmental Consultants

**Attachment E**

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.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input checked="" type="checkbox"/> Other MSW Permit Modification	
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 603229436		RN 103002713

## SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		02/11/2026			
<input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)							
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).							
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				If new Customer, enter previous Customer below:			
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)		
800827995		11616340359		161634035			
11. Type of Customer:		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual			
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited			
12. Number of Employees				13. Independently Owned and Operated?			
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following							
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant							
15. Mailing Address:	7651 Esters Blvd						
	Suite 200						
	City	Irving	State	TX	ZIP	75063	ZIP + 4
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)			
				[REDACTED]			
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)			

### 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

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).

22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)

Dallas Facility

23. Street Address of the Regulated Entity:

11115 Goodnight Ln.

(No PO Boxes)

City	Dallas	State	TX	ZIP	75229	ZIP + 4	4402
------	--------	-------	----	-----	-------	---------	------

24. County

Dallas

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

25. Description to Physical Location:

26. Nearest City

State

Nearest ZIP Code

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).

27. Latitude (N) In Decimal:

28. Longitude (W) In Decimal:

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

32

88

50.84

-96

90

21.47

29. Primary SIC Code

30. Secondary SIC Code

31. Primary NAICS Code

32. Secondary NAICS Code

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

4935

562219

33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)

Sand Grit and Grease Trap Processing

34. Mailing

11115 Goodnight Lane

Address:

City	Dallas	State	TX	ZIP	75229	ZIP + 4	4402
------	--------	-------	----	-----	-------	---------	------

35. E-Mail Address:



36. Telephone Number

37. Extension or Code

38. Fax Number (if applicable)

( 972 ) 241-2027

( ) -

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.

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input checked="" type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
2069A				
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other

### SECTION IV: Preparer Information

40. Name:	Brooks Ray	41. Title:	Consultant
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
( 225 ) 923-6482		( ) -	

### 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:	Liquid Environmental Solutions of Texas, LLC	Job Title:	Vice President - Treatment Operations
Name (In Print):	Alan Akin	Phone:	( 512 ) 517- 3390
Signature:		Date:	2/13/2026



**Attachment F**

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:** 582EA000716484  
**Date:** 02/18/2026 12:33 PM  
**Payment Method:** CC - Authorization 000000667D  
**ePay Actor:** BROOKS RAY  
**Actor Email:** [REDACTED]  
**IP:** 99.18.24.18  
**TCEQ Amount:** \$150.00  
**Texas.gov Fee:** \$3.63  
**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:** BROOKS RAY  
**Company:** CK ASSOCIATES  
**Address:** 311 LONGMEADOW, BATON ROUGE, LA 70810  
**Phone:** 225-755-1000

**Cart Items**

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
814595	NONHAZARDOUS WASTE PERMIT - MODIFICATIONS		\$100.00
814596	30 TAC 305.53B HWP NOTIFICATION FEE		\$50.00
<b>TCEQ Amount:</b>			<b>\$150.00</b>

[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.