



Texas Commission on Environmental Quality

Waste Permits Division Correspondence

Cover Sheet

Date: June 2024

Facility Name: Shell USA, Inc. (Shell Deer Park
Chemicals

Permit or Registration No.: 50099

Nature of Correspondence:

☒ Initial/New

☐ Response/Revision to TCEQ Tracking No.:
_____ (from subject line of TCEQ letter
regarding initial submission)

Affix this cover sheet to the front of your submission to the Waste Permits Division. Check appropriate box for type of correspondence. Contact WPD at (512) 239-2335 if you have questions regarding this form.

Table 1 - Municipal Solid Waste Correspondence

Applications	Reports and Notifications
<input type="checkbox"/> New Notice of Intent	<input type="checkbox"/> Alternative Daily Cover Report
<input type="checkbox"/> Notice of Intent Revision	<input type="checkbox"/> Closure Report
<input type="checkbox"/> New Permit (including Subchapter T)	<input type="checkbox"/> Compost Report
<input type="checkbox"/> New Registration (including Subchapter T)	<input type="checkbox"/> Groundwater Alternate Source Demonstration
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Groundwater Corrective Action
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> Limited Scope Major Amendment	<input type="checkbox"/> Groundwater Background Evaluation
<input type="checkbox"/> Notice Modification	<input type="checkbox"/> Landfill Gas Corrective Action
<input type="checkbox"/> Non-Notice Modification	<input type="checkbox"/> Landfill Gas Monitoring
<input type="checkbox"/> Transfer/Name Change Modification	<input type="checkbox"/> Liner Evaluation Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Soil Boring Plan
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Special Waste Request
<input type="checkbox"/> Subchapter T Disturbance Non-Enclosed Structure	<input type="checkbox"/> Other:
<input type="checkbox"/> Other:	

Table 2 - Industrial & Hazardous Waste Correspondence

Applications	Reports and Responses
<input type="checkbox"/> New	<input type="checkbox"/> Annual/Biennial Site Activity Report
<input type="checkbox"/> Renewal	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> Post-Closure Order	<input type="checkbox"/> Closure Certification/Report
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Construction Certification/Report
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> CCR Registration	<input type="checkbox"/> Extension Request
<input type="checkbox"/> CCR Registration Major Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> CCR Registration Minor Amendment	<input type="checkbox"/> Interim Status Change
<input checked="" type="checkbox"/> Class 3 Modification	<input type="checkbox"/> Interim Status Closure Plan
<input type="checkbox"/> Class 2 Modification	<input type="checkbox"/> Soil Core Monitoring Report
<input type="checkbox"/> Class 1 ED Modification	<input type="checkbox"/> Treatability Study
<input type="checkbox"/> Class 1 Modification	<input type="checkbox"/> Trial Burn Plan/Result
<input type="checkbox"/> Endorsement	<input type="checkbox"/> Unsaturated Zone Monitoring Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Waste Minimization Report
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Other:
<input type="checkbox"/> 335.6 Notification	
<input type="checkbox"/> Other:	

July 3, 2024



Hand-Delivered and Electronic

Mr. Vahab Haghighatian, P.E.
Industrial and Hazardous Waste Permits Section
Waste Permits Division, MC-126
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

4801 Southwest Parkway,
Parkway 1, Suite 185
Austin TX 78735
T +1 512 347 7588 Hand I

Re: Class 3 Modification Application – Shell USA, Inc.
Shell Deer Park Chemicals
5900 Highway 225
Deer Park, Harris County, Texas
Hazardous Waste Permit No. HW-50099
Industrial Solid Waste Registration No. 30007
EPA Identification No. TXD067285973
RN100211879 / CN601542012

Dear Mr. Haghighatian:

On behalf of Shell USA, Inc., Shell Deer Park Chemicals (SCLP), RPS is submitting the enclosed Class 3 permit modification application for Hazardous Waste Permit No. HW-50099. Shell USA, Inc. was issued renewed Hazardous Waste Permit and Compliance Plan No. 50099 for the Deer Park complex at 5900 Highway 255 in Deer Park, Harris County, Texas on August 30, 2023. Enclosed in this submittal are:

- Part B Technical Evaluation Electronic Checklist (TCEQ Form 00136);
- Original and duplicates of signatures from the facility's operations manager for Part A and Part B (TCEQ Form-0283);
- Signed Core Information Forms (TCEQ Form 10400);
- The appropriate Waste Permits Cover Sheet (TCEQ Form 20714);
- Public notice mailing labels;
- One original hard copy of the application as per email from Srinath Vinkat, TCEQ, June 6, 2024;
- A second electronic copy provided on a flash drive and submitted using the TCEQ's preferred FTP portal
- An additional copy of the complete application will be submitted to the Region 12 Office in Houston, Texas upon request.

As per 30 TAC 305.69(d) and 30 TAC 305.69(k), this permit modification is to request that SCLP be allowed to build over the West South Effluent Treater (West SET or west basin) Basin (TCEQ Permit Unit No. 5; NOR 152) for the purposes of upgrading and expanding existing plant operations. This unit was Certified Closed in December 2017 and accepted as closed as a landfill by the TCEQ on February 13, 2018.

The West SET was a permitted hazardous waste surface impoundment with top dimensions of 340 feet (length) by 218 feet (width), 2:1 (horz:vert) side slopes, and a depth of 17 feet (depth). The basin was equipped with aerators and associated supports and walkways and functioned as an aeration basin for treatment of process wastewater. The west basin was operated in parallel configuration and received the same wastewater influent from the process units as the middle and east basins. The bottom liner of the unit is approximately 6-inches thick of reinforced concrete. At closing the waste was stabilized with a resulting thickness of 2 to 3 feet. Over the stabilized waste was added approximately 10-feet of low permeability structural fill, 3-feet of low permeability clay, and a 6-inch reinforced concrete surface cap.

The conceptual cap modification over the West SET will incorporate the following:

- Remove the existing concrete cap and grade in the area in proximity of proposed new equipment and foundations to promote positive drainage away from equipment and foundations. A stormwater drainage collection system will be designed to intercept storm waters which run-off from the cap in the area of the foundations and new equipment.
- Construct and install new equipment on top of the basin which will consist of tanks, piping, pipe supports, and related components.
- Tanks, piping, and equipment will utilize structural foundations consisting of reinforced concrete mats, concrete footings, helical piles with concrete caps, and small concrete piers for pipe supports. The concrete mat foundations or footings will be installed within the existing clay cap. Helical piles and smaller concrete piers will extend through the clay cap and into the stabilized waste, however the piles or concrete piers will not penetrate or come into contact with the existing bottom concrete liner.
- Repair the portions of the existing concrete cap which were removed for the installation of the equipment.
- Seal at the extent of the new concrete foundations and helical piles which are within or penetrate the existing clay cap using an expanding bentonite clay to minimize potential for vertical pathways at the foundations and prevent rainwater from direct migration through the cap at the foundations and into the landfill.
- In addition to the bentonite clay seal, the replaced concrete and compacted clay cap will be reconstructed adjacent to the bentonite discussed above.

It is important to note that the bottom of the closed landfill will not be penetrated and that the newly replaced clay and concrete cap will meet or exceed the vertical permeability specifications of the existing cap (10⁻⁷ cm/sec or less) to prevent water penetration into the closed landfill cell. Ongoing inspections required under *Table III.D. – Inspection Schedule* of the permit and groundwater monitoring required under *Section XI Compliance Plan* will not change.

A key component to building over the basin involves the placement of helical piles through the basin cap (concrete over clay), through clean structural fill, and minimally into the stabilized waste. Specific to maintaining the integrity of the cap, the lateral loads placed on the helical piles are designed to minimize lateral motion to prevent side pressures on the top clay and concrete liner of the closed basin.

To ensure that water does not vertically makes its way into the closed basin, the top concrete surface will be designed to shed water into the side stormwater system, hydrated granular bentonite, followed by compacted clay will be utilized where the concrete and clay cap is penetrated, and a concrete cap around each helical pile that further restricts surface water from approaching the annular space will be incorporated.

The cap modification closure performance standards are expected to be equal to, or more protective, than those achieved and documented in the December 2017 Certified Closure Report. In summary, the closure standards are as follows:

- Clay Cap-Replaced and Existing
 - Minimum thickness of 4 feet +/-;
 - Minimum compaction of 98% Standard proctor density at -1% to +3% optimum moisture content;
 - Maximum permeability of 1×10^{-7} cm/sec, and
 - Minimum shear strength of 1,000 psf.
 - Where shallow foundations for the tanks or equipment will be installed and over-excavation is required for the installation of the foundations, a reinforced concrete layer will be constructed, such that the minimum thickness of the clay cap plus the concrete foundation is 4-feet.
- Concrete Pavement-Replaced
 - Minimum thickness of 6 inches and consists of fiber reinforced concrete with a minimum compressive strength of 4,000 psi
 - Sloped to promote positive drainage away from foundations and to the stormwater collection system (i.e., drains and sumps) as can be seen in Figures 2 thru 8.
- Helical Pile Installations-New
 - Helical piles will be designed for certain foundations to support equipment and minimize vertical and lateral movement and disturbance of the cap.
 - Concrete caps will be installed as part of the pile and the annular space between the pile cap and clay soil landfill cap will be sealed using granular bentonite and compacted clay. The seal will prevent migration of stormwaters through the pile penetrations and into the landfill beneath the clay cap.

Please also note that, as we have discussed during our pre-submittal phone calls, a 100% design plan is not available currently; however, a conceptual cap modification plan for the purposes of this Class 3 permit modification is located in Part B, Section V–Engineering, Appendix V.D. This document is presented as a stand-alone document for ease of review and is titled *2025 West Set Front End Upgrade Conceptual Cap Modification Plan, West South Effluent Treater Basin, June 2024*. Important declarations from the engineering firms involved in the design of the facility to reestablish the performance criteria of the existing cap and adhere to the 2016 Closure Certification Report can be found in Appendix C of this document.

The revised conceptual design and closure plan is expected to begin soon after the permit modification is issued by the TCEQ. Documentation of construction will be on-going during the project, and, upon completion of the construction, a revised Closure Certification Report will be submitted to the TCEQ.

Mr. Vahab Haghighatian, P.E.

July 3, 2024



A check for the application fee has been transmitted to the TCEQ Financial Administration Division with the requested account information provided in Table XII.B of the Part B application.

If you have any questions regarding this matter, please contact me at the phone number below or Mr. Javier Garza, Shell Chemical LP, 346-518-6304.

Yours sincerely,
for RPS/Tetra Tech

Byron Ellington, CPG, PG (TX, UT)

Director



D 512.579.3315

Enclosures

cc: TCEQ Region 12 Office, Houston (electronic)
Javier Garza, P.E., Shell Chemical LP (electronic)

Items Included and Comments

Section	Revised and Included?	Comments
Par A Instructions	Included	
Part A, Section I.B.	Revised and included	Contacts have been revised.
Part A, Section I.A, C., D., F., G.	Not included	This section has not changed since the last 2022/2023 Class 3 modification
Par A, Section H, Core Data Form	Revised and included	The revised and signed Core Data Form is included.
Part A Signature Page	Revised and included	An original notarized signature from the facilities general manager is included.
Part A, Section II, Section III, Legal Description, Attachments, Tables, Photographs	Not included	These sections have not changed since the last 2022/2023 Class 3 modification
Part B Instructions, screening outputs, and automated table of contents	Revised and included	
Part B, Core Data Form	Revised and included	The revised and signed Core Data Form is included.
Part B Signature Page	Revised and included	An original notarized signature from the facilities general manager is included.
Part B, Section I	Revised and included	Required mailing lists and adjacent landowners have been revised. Required public notice and published notice are expected.
Part B, Section II. Facility Siting Criteria	Not included	This section has not changed since the last 2022/2023 Class 3 modification
Part B, Section III. Facility Management	Not included	This section has not changed since the last 2022/2023 Class 3 modification
Part B, Section IV. Waste and Waste Analysis	Not included	This section has not changed since the last 2022/2023 Class 3 modification
Part B, Section V. Engineering Reports	Revised and included	In addition of past reports that were part of the 2022/2023 Class 3 modification, a new engineering plan <i>West SET Front End Upgrade Conceptual Design and Closure Plan</i> has been added.
Part B. Section VI. Geology Report	Not included	This section has not changed since the last 2022/2023 Class 3 modification
Part B, Section VII. Closure and Post Closure Plans	Revised and included	Table VII.E.1. - Permitted Unit Closure Cost Summary and Table VII.E.2. - Permitted Unit Post-Closure Cost Summary have been updated for inflation as required.
Part B, Section VIII. Financial Assurance	Not included	This section has not changed since the last 2022/2023 Class 3 modification. However, this section will be updated as necessary if required by the TCEQ financial assurance section.

Mr. Vahab Haghghatian, P.E

July 3, 2024



Part B. Section IX. Releases from Solid Waste Units and Corrective Action	Not included	This section has not changed since the last 2022/2023 Class 3 modification.
Part B. Section X. Air Emissions Standards	Not included	This section has not changed since the last 2022/2023 Class 3 modification.
Part B. Section XI. Compliance Plan	Not included	This section has not changed since the last 2022/2023 Class 3 modification.
Part B, Section XII. Closure and Post Closure Plans	Revised and included	Table V.A. - Hazardous Waste Units for Application Fee Calculations and Table XII.B. - Hazardous Waste Permit Application Fee Worksheet have been updated for the purposes of the application. The required fee is being submitted to the TCEQ cashier under separate cover.
Part B. Section XIII. Confidential Material-RESERVED	Not included	This section has not changed since the last 2022/2023 Class 3 modification.



Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

- ☐ New Permit or Registration Application
☒ New Activity - modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

- ☒ Requires public notice,
☐ Considered to have significant public interest, **and**
☒ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

**If all the above boxes are not checked, a Public Involvement Plan is not necessary.
Stop after Section 2 and submit the form.**

- ☐ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V
Waste ☐ Municipal Solid Waste ☒ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)
☐ Texas Land Application Permit (TLAP)
☐ State Only Concentrated Animal Feeding Operation (CAFO)
☐ Water Treatment Plant Residuals Disposal Permit
☐ Class B Biosolids Land Application Permit
☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water
☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water
☐ Add a New or Existing Reservoir
☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

(City)

(County)

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

☐

City

☐

County

☐

Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☐ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

- ☐ Publish in alternative language newspaper
- ☐ Posted on Commissioner's Integrated Database Website
- ☐ Mailed by TCEQ's Office of the Chief Clerk
- ☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

- ☐ TCEQ Regional Office ☐ TCEQ Central Office
- ☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

- ☐ Publish in alternative language newspaper
- ☐ Posted on Commissioner's Integrated Database Website
- ☐ Mailed by TCEQ's Office of the Chief Clerk
- ☐ Other (specify)



Texas Commission on Environmental Quality

Plain Language Summary

Industrial and Hazardous Waste Permit Applications

Instructions: Complete this form and submit with any industrial hazardous waste, or industrial solid waste, permit application that is subject to 30 Texas Administrative Code [§39.405\(k\)](#) [applications for a Class 3 permit modification, permit amendment, permit renewals, and for a new permit]. Please be concise.

Application Information	
Purpose of application: <input type="checkbox"/> New <input type="checkbox"/> Renewal <input checked="" type="checkbox"/> Modification/Amendment	
Date Submitted to TCEQ: July 29, 2024	
Customer Name: Shell USA, Inc.	
Facility Name: Shell Deer Park Chemicals	
CN: 601542012	RN: 100211879
Permit Number: HW-50099	Solid Waste Registration Number: 30007
Facility Street Address: 5900 Highway 225 Deer Park, Harris County, Texas	
Weblink to Street Address:	
Facility Information <i>(check all that apply)</i>	
What is the primary type of business?	<input type="checkbox"/> Chemical manufacturing <input checked="" type="checkbox"/> Oil refinery <input type="checkbox"/> Treatment, storage or disposal facility plant <input type="checkbox"/> Other If other, enter description:
What does the facility produce?	<input type="checkbox"/> Chemicals <input checked="" type="checkbox"/> Fuels / lubricants <input type="checkbox"/> No products <input type="checkbox"/> Other If other, enter description:
Waste Management Information <i>(check all that apply)</i>	
What types of wastes are managed?	<input checked="" type="checkbox"/> Nonhazardous industrial <input checked="" type="checkbox"/> Hazardous <input type="checkbox"/> Other If other, enter description:
Where does the waste come from?	<input type="checkbox"/> Off-site source <input checked="" type="checkbox"/> On-site source
How is the waste managed?	<input type="checkbox"/> Storage <input checked="" type="checkbox"/> Process / Treatment <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Other If other, enter description:
What type of units manage the waste?	<input checked="" type="checkbox"/> Active <input checked="" type="checkbox"/> Post-Closure Type and count: Surface Impoundment, One (1), Inactive; Boiler, One (1), Inactive; Landfills Two (2), Closed
What happens to waste managed at the facility?	<input checked="" type="checkbox"/> Transported off-site <input checked="" type="checkbox"/> Disposed on-site <input type="checkbox"/> Other If other, enter description:

Pollution Control Methods *(check all that apply)*

How will the facility prevent spills, leaks, and releases?	<input checked="" type="checkbox"/> Routine inspections <input checked="" type="checkbox"/> Engineered liner systems <input checked="" type="checkbox"/> Spill containment <input checked="" type="checkbox"/> Proper waste handling <input type="checkbox"/> Operations in enclosed buildings <input checked="" type="checkbox"/> Groundwater monitoring <input type="checkbox"/> Other If other, enter description:
How will the facility clean up spills, leaks, and releases?	<input checked="" type="checkbox"/> Spill clean-up supplies <input checked="" type="checkbox"/> Decontamination equipment <input type="checkbox"/> Other If other, enter description:
How will the facility prevent / minimize air emissions?	<input checked="" type="checkbox"/> Air monitoring / control systems <input checked="" type="checkbox"/> Filters / scrubbers <input type="checkbox"/> Routine inspections <input checked="" type="checkbox"/> Proper waste handling <input type="checkbox"/> Operations in enclosed buildings <input type="checkbox"/> Other If other, enter description:

Description of Update *(for Class 3 Modifications and Amendments only)*

List and explain any changes this modification or amendment would make to the two sections above—**Waste Management Information** and **Pollution Control Methods**.

This permit modification is to request that SCLP be allowed to build over the West South Effluent Treater (West SET or west basin) Basin (TCEQ Permit Unit No. 5; NOR 152) for the purposes of upgrading and expanding existing plant operations. This unit was Certified Closed in December 2017 and accepted as closed as a landfill by the TCEQ on February 13, 2018. The additional operations will allow the plant to better manage stormwater flows and make room so that the Activated Sludge Biotreater (SET), East Basin (Permit Unit 2, NOR 38), currently inactive, can be properly closed.

Clear Form



Resumen en Lenguaje Sencillo

Solicitudes de Permisos de Desechos Industriales y Peligrosos

Instrucciones

Complete este formulario y envíe con cualquier solicitud de permiso de desechos industriales peligrosos, o desechos sólidos industriales, que esté sujeta al Código Administrativo [de Texas 30 §39.405 \(k\)](#) [es decir, solicitudes para una modificación de permiso de Clase 3, enmienda de permiso, renovaciones de permisos y para un nuevo permiso].

Sea conciso: toda la información debe caber en dos páginas.

Información de la Solicitud

Propósito de la solicitud: ☐Nuevo ☐Renovación ☒Modificación/Enmienda

Sometido a TCEQ: July 29 2024

Nombre del Cliente: Shell USA, Inc.

Nombre de la Instalación: Shell Deer Park Chemicals

CN: 601542012

RN:100211879

Número de Permiso:HW-50099

Número de Registro de Desechos Sólidos: 30007

Dirección de la Instalación: 5900 Highway 225 Deer Park, Harris County, Texas

Enlace Web a la Dirección Postal:

Información de la Instalación *(marque todas lo que correspondan)*

¿Cuál es el tipo principal de negocio? ☐ Planta de manufactura química ☒ Refinería de aceite ☐ Instalación de tratamiento, almacenamiento o eliminación
☐ Otro **Si es otro, introduzca la descripción:** Introduzca la descripción

¿Qué produce la instalación? ☐ Químicos ☒ Combustibles / lubricantes ☐ Sin productos
☐ Otro **Si es otro, introduzca la descripción:** Introduzca la descripción

Información sobre la Gestión de Desechos *(marque todas las que correspondan)*

¿Qué tipos de desechos se gestionan? ☒ Industrial no peligroso ☒ Peligroso
☐ Otro **Si es otro, introduzca la descripción:** Introduzca la descripción

¿De dónde provienen los desechos? ☐ Fuente externa ☒ Fuente interna

¿Cómo se gestionan los desechos? ☐ Almacenar ☒ Procesar / Tratar ☒ Eliminación
☐ Otro **Si es otro, introduzca la descripción:** Introduzca la descripción

¿Qué tipo de unidades gestionan los desechos?	<input checked="" type="checkbox"/> Activo <input type="checkbox"/> Postcierre Teclee y cuente: Introduzca el tipo de unidad y un conteo, como Tanques (8), Vertederos (3), Incineradores (1), Unidades posteriores al cierre (2) etc.
¿Qué sucede con los desechos gestionados en la instalación?	<input checked="" type="checkbox"/> Transportados fuera del sitio <input checked="" type="checkbox"/> Eliminado en el sitio <input type="checkbox"/> Otro Si es otro, introduzca la descripción:?????

Métodos de Control de la Contaminación <i>(marque todos los que correspondan)</i>	
¿Cómo evitará la instalación derrames, fugas y liberaciones?	<input checked="" type="checkbox"/> Inspecciones de Rutina <input checked="" type="checkbox"/> Sistemas de revestimiento de ingeniería <input checked="" type="checkbox"/> Contención de derrames <input checked="" type="checkbox"/> Manejo adecuado de desechos <input type="checkbox"/> Operaciones en edificios cerrados <input checked="" type="checkbox"/> Monitoreo de aguas subterráneas <input type="checkbox"/> Otro Si es otro, introduzca la descripción: Introduzca la descripción
¿Cómo limpiará la instalación los derrames, fugas y liberaciones?	<input checked="" type="checkbox"/> Suministros de limpieza de derrames <input checked="" type="checkbox"/> Equipos de descontaminación <input type="checkbox"/> Otro Si es otro, introduzca la descripción: Introduzca la descripción
¿Cómo evitará / minimizará la instalación las emisiones atmosféricas?	<input checked="" type="checkbox"/> Sistemas de monitoreo / control de aire <input checked="" type="checkbox"/> Filtros / depuradores <input type="checkbox"/> Inspecciones de rutina <input checked="" type="checkbox"/> Manejo adecuado de desechos <input type="checkbox"/> Operaciones en edificios cerrados <input type="checkbox"/> Otro Si es otro, introduzca la descripción: Introduzca la descripción

Descripción de la Actualización <i>(solo para Modificaciones y Enmiendas de Clase 3)</i>
<p>Esta modificación del permiso es para solicitar que se permita a SCLP construir sobre la Cuenca del Tratador de Efluentes Oeste Sur (Cuenca Oeste) (Unidad de Permiso No. 5 de TCEQ; NOR 152) con el fin de mejorar y ampliar la operaciones de la planta existente.</p> <p>Esta unidad fue Certificada como Cerrada en Diciembre de 2017 y la TCEQ la aceptó como cerrada como vertedero el 13 de febrero de 2018.</p> <p>Las operaciones adicionales permitirán que la planta administre mejor los flujos de aguas pluviales y haga espacio para que el Biotratador de Lodos Activados (SET), actualmente inactiva, se puede cerrar adecuadamente (Unidad de permiso 2, NOR 38), Cuenca Este.</p>



Class 3 Modification Application Permit and Compliance Plan No. 50099



**Shell USA, Inc.
5900 Highway 255
Deer Park, Harris County, Texas**

**SWR No. 30007
EPA ID No. TXD067285973**

Volume I

**Revision 15
June 2024**

Shell USA, Inc.
SWR No. 30007
Permit No. 50099
Rev. 15 - June 2024

Part A Application



Texas Commission on Environmental Quality Instructions and Procedural Information for Filing a Permit Application for a Hazardous Waste Storage, Processing, or Disposal Facility

Part A

[Form Availability: This form, as well as other Industrial and Hazardous Waste documents, is available on the Internet World Wide Web, Industrial and Hazardous Waste home page at address https://www.tceq.texas.gov/permitting/waste_permits/ihw_permits]

General Instructions

1. A person (individual, corporation or other legal entity) who stores, processes or disposes of hazardous waste (except where such storage and/or processing is excluded from permit requirements in accordance with 30 Texas Administrative Code (TAC) Section 335.2) must obtain a permit pursuant to the Texas Health and Safety Code. In applying to the Texas Commission on Environmental Quality, hereafter referred to as the Commission, the applicant shall follow the procedures outlined below, on the application and in the Rules of the Commission.
2. The application (one original plus three (3) complete copies¹) should be mailed to:

Texas Commission on Environmental Quality
Attention: Waste Permits Division, MC126
P. O. Box 13087
Austin, Texas 78711-3087
3. Signature on Application [30 TAC 305.44]. The application shall be signed by the owner and operator or by a duly authorized agent, employee, officer, or representative of the owner or operator and shall be verified before a notary public. When another person signs on behalf of the owner and operator, this person's title or relationship to the owner or operator should be shown. In all cases, the person signing the form should be authorized to do so by the owner or operator (the Commission may require a person signing on behalf of an owner or operator to provide proof of authorization). An application submitted for a corporation must be signed by (or the signatory must be authorized by) a responsible corporate officer such as a president, secretary, treasurer, vice-president, or designated manager; or for a partnership or sole proprietorship, by a general partner or the proprietor, respectively. In the case of a municipal, state, federal, or other public facility, the application shall be signed by either a principal executive

¹ The third copy may optionally consist of paper copies of all plans and maps and a computer diskette of the remaining document. The document should be formatted in Word processing software up to and including version 6.1 or a 100% compatible format. Files may be compressed using PKZIP Ver. 2 or a 100% compatible program.

officer or ranking elected official.

4. An application will not be processed until all information required to properly evaluate the application has been obtained. When an application is severely lacking in detail and/or the applicant fails to submit additionally requested information in a timely manner, the application will not be considered to be "filed in accordance with the rules and regulations of the Commission."

Please submit any application revisions with a revised date and page numbers at the bottom of the page(s).

5. Fees and Costs

- a. The fee for filing an application is discussed in Section XII of Part B, form number TCEQ-0376.
- b. The applicant for a permit is required to bear the cost of publication of notice of the application in a newspaper as prescribed by 30 TAC Section 39.405(f).

6. A person may not commence operation of a hazardous waste management facility until the Commission has issued a permit to authorize the storage, processing, or disposal of hazardous waste, except with the approval of the Commission.

7. Designation of Material as Confidential

The designation of material as confidential is frequently carried to excess. The Commission has a responsibility to provide a copy of each application to other review agencies and to interested persons upon request and to safeguard confidential material from becoming public knowledge. Thus, the Commission requests that the applicant (1) be prudent in the designation of material as confidential and (2) submit such material only when it might be essential to the staff in their development of a recommendation.

The Commission suggests that the applicant NOT submit confidential information as part of the permit application. However, if this cannot be avoided, the confidential information should be described in non-confidential terms throughout the application, and submitted as a document or binder, and conspicuously marked "CONFIDENTIAL."

Reasons of confidentiality include the concept of trade secrecy and other related legal concepts which give a business the right to preserve confidentiality of business information to obtain or retain advantages from its right in the information. This includes authorizations under 18 U.S.C. 1905 and special rules cited in 40 CFR Chapter I, Part 2, Subpart B.

Section 361.037 of the Texas Health and Safety Code does not allow an applicant for an industrial and hazardous waste permit to claim as confidential any record pertaining to the characteristics of the industrial solid waste.

The applicant may elect to withdraw any confidential material submitted with the application. However, the permit cannot be issued, amended, or modified if the application is incomplete.

Part II

Procedural Information

After the submittal of Parts A and B of the application, the TCEQ will provide public notice of receipt of the application. The Executive Director's staff will review the application for completeness of information submitted. During the review, the applicant may be contacted for clarification or additional information. When all pertinent information is present, the application or a summary of its contents will be forwarded for review by other state agencies and local governmental entities interested in water quality control and solid waste management. After technical evaluation, opportunity for public hearing will be afforded.

Note that for facilities which had "commenced on-site storage, processing, or disposal of hazardous waste" [see 30 TAC Section 335.43(b)] on or before the date such waste is identified or listed as hazardous by EPA, the Texas Health and Safety Code provides in Section 361.082(f) that these facilities may continue to manage hazardous waste until such time as the Commission approves or denies the application, provided that the applicant has filed the permit application in accordance with the rules and regulations of the Commission.

The Commission may act upon an application for a permit, permit amendment, permit modification, or renewal of a permit without the necessity of holding a public hearing:

1. (a) When notice of the application has been mailed to persons possibly affected by the proposed permit; and

(b) When notice has been published at least once in a newspaper regularly published or circulated within each county where the proposed facility is located; and

(c) Within forty-five (45) days following publication of the Commission's notice, a Commissioner, the Executive Director or an affected person has not requested a public hearing; or
2. For a Class 1 or a Class 2 permit modification or a minor amendment to a permit. The Commission may, in certain cases, hold a public hearing for a Class 2 permit modification or a minor amendment.

A public hearing may be scheduled on an application for a RCRA hazardous waste permit when requested by a Commissioner, the Executive Director, or an affected person within forty-five (45) days following the newspaper publication.

Requirements of Giving Notice of the Application:

1. By the Applicant: Every applicant for a permit, permit amendment, permit modification, or permit renewal shall publish notice (see note below) of the application at least once in a newspaper regularly published or circulated within each county where the proposed facility is located. Where a public hearing has been requested, notice will be mailed to the applicant in ample time for publication, which shall be not less than thirty (30) days prior to the date set for the hearing. Except in the case of a notice of a permit modification request, the Commission will mail the appropriate notice and instructions for publication to the applicant.

NOTE: Additional publication and direct mail notice to affected persons will result if a public hearing is requested following newspaper publication of the notice of application. The cost of providing this additionally required publication and service of notice to affected persons will be assumed by the applicant.

2. By the Texas Commission on Environmental Quality: The Commission will mail notice of

the application (except for permit modifications) to affected persons and certain governmental entities. The notice will be mailed at the same time instructions for newspaper publications are mailed to the applicant.

3. **Bilingual Notice Instructions:**

For certain permit applications, public notice in an alternate language is required. If an elementary school or middle school nearest to the facility offers a bilingual program, notice may be required to be published in an alternative language. The Texas Education Code, upon which the TCEQ alternative language notice requirements are based, requires a bilingual education program for an entire school district should the requisite alternative language speaking student population exist. However, there may not be any bilingual-speaking students at a particular school within a district which is required to offer the bilingual education program. For this reason, the requirement to publish notice in an alternative language is triggered if the nearest elementary or middle school, as part of a larger school district, is required to make a bilingual education program available to qualifying students and either the school has students enrolled at such a program on-site, or has students who attend such a program at another location to satisfy the school's obligation to provide such a program.

If it is determined that a bilingual notice is required, the applicant is responsible for ensuring that the publication in the alternate language is complete and accurate in that language. Electronic versions of the Spanish template examples are available from the TCEQ to help the applicant complete the publication in the alternative language.

Bilingual Notice Application Form:

Bilingual notice confirmation for this application:

1. Is the school district of the elementary or middle school nearest to the facility required by the Texas Education Code to have a bilingual program?

☒ YES ☐ NO

(If NO, alternative language notice publication not required)

2. If YES to question 1, are students enrolled in a bilingual education program at either the elementary school or the middle school nearest to the facility?

☒ YES ☐ NO

(If YES to questions 1 and 2, alternative language publication is required; If NO to question 2, then consider the next question)

3. If YES to question 1, are there students enrolled at either the elementary school or the middle school nearest to the facility who attend a bilingual education program at another location?

☐ YES ☐ NO

(If Yes to questions 1 and 3, alternative language publication is required; If NO to question 3, then consider the next question)

4. If YES to question 1, would either the elementary school or the middle school nearest to the facility be required to provide a bilingual education program but for the fact that it secured a waiver from this requirement, as available under 19 TAC 89.1205(g)?

☐ YES ☐ NO

(If Yes to questions 1 and 4, alternative language publication is required; If NO to question 4, alternative language notice publication not required)

If a bilingual education program(s) is provided by either the elementary school or the middle school nearest to the facility, which language(s) is required by the bilingual program? Spanish

Consideration of the Permit Application by the Commission:

The applicant will be notified by the Commission when the application is set for final consideration. If the Commission issues the permit, the applicant will be mailed a copy of the permit by the TCEQ Office of the Chief Clerk within one (1) month following Commission approval. (NOTE: Only one copy is mailed to the applicant and that copy will be sent to the official mailing address of the applicant as shown on the permit application form.)

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Part A, Section II, Section III, Legal Description, Attachments, Tables, Photographs

**These sections have not changed since the last
2022/2023 Class 3 modification **are not included**.**

Part A, Section I.A., C, D, F, G

These sections have not changed since the last 2022/2023 Class 3 modification.

Part A, Section I.B.

Javier Garza has been added as a contact.

Texas Commission on Environmental Quality
Permit Application for a Hazardous Waste Storage/Processing/Disposal Facility
Part A - Facility Background Information

I. General Information

A. Facility Name: Shell Deer Park Chemicals

(Individual, Corporation, or Other Legal Entity Name)

TCEQ Solid Waste Registration No: 30007 EPA I.D. No.: TXD067285973

Street Address (If Available): 5900 Highway 225

City: Deer Park, State: Texas Zip Code: 77536-2434

County: Harris

Telephone Number: (713) 246-7301 Charter Number: 1320306

If the application is submitted on behalf of a corporation, please identify the Charter Number as recorded with the Office of the Secretary of State for Texas.

B. Facility Contact

1. List those persons or firms who will act as primary contact for the applicant during the processing of the permit application. Also indicate the capacity in which each person may represent the applicant (engineering, legal, etc.). The person listed first will be the primary recipient of correspondence regarding this application. Include the complete mailing addresses and phone numbers.

Nicole Roper
Environmental Team Lead
Shell USA, Inc.
5900 Highway 225
Deer Park, TX 77536
713 246 7278
[REDACTED]

Javier Garza, PE
Project Manager
Shell USA, Inc.
5900 Highway 225
Deer Park, TX 77536
346-518-6304
[REDACTED]

2. If the application is submitted by a corporation or by a person residing out of state, the applicant must register an Agent in Service or Agent of Service with the Texas Secretary of State's office and provide a complete mailing address for the agent. The agent must be a Texas resident.

C. Operator¹: Identify the entity who will conduct facility operations.

Operator Name: Shell USA, Inc

Address: 5900 Highway 225

City: Deer Park, State: Texas Zip Code: 77536-2434

Telephone Number: 713 246 7301 Charter Number: 1320306

¹ The operator has the duty to submit an application if the facility is owned by one person and operated by another [30 TAC 305.43(b)]. The permit will specify the operator and the owner who is listed on this application [Section 361.087 Texas Health and Safety Code].

D. Owner

1. Indicate the ownership status of the facility:

a. Private _____

- (1) X Corporation
- (2) _____ Partnership
- (3) _____ Proprietorship
- (4) _____ Non-profit organization

b. Public _____

- (1) _____ Federal
- (2) _____ Military
- (3) _____ State
- (4) _____ Regional
- (5) _____ County
- (6) _____ Municipal
- (7) _____ Other (specify)

2. Does the operator own the facility units and facility property?

☒ Yes ☐ No

If you checked "no",

- a. Submit as "Attachment A" a copy of the lease for use of or the option to buy said facility units and/or facility property, as appropriate; and
- b. Identify the facility units' owner(s) and/or facility property owner(s). Please note that the owner(s) is/are required to sign the application on page 5.

Owner Name: Shell USA, Inc.

Address: 5900 Highway 225

City: Deer Park, State: Texas Zip Code: 77536-2434

Telephone Number: 713 246 7301

Owner Name: Shell Chemical LP

Address: 5900 Highway 225

City: Deer Park, State: Texas Zip Code: 77536-2434

Telephone Number: 713 246 7301

E. Type of Application Submittal:

Initial X or Revision _____

F. Registration and Permit Information

Indicate (by listing the permit number(s) in the right-hand column below) all existing or pending State and/or Federal permits or construction approvals which pertain to pollution control or industrial solid waste management activities conducted by your plant or at your location. Complete each blank by entering the *permit number*, or the *date of application*, or "none".

Relevant Program and/or Law	Permit No.	Agency*
1. Texas Solid Waste Disposal Act	<u>SWR 30007</u>	<u>TCEQ</u>
2. Wastewater disposal under the Texas Water Code	<u>WQ0000402000</u>	<u>TCEQ</u>
3. Underground injection under the Texas Water Code	<u>None</u>	<u>None</u>
4. Texas Clean Air Act	<u>1699, 4256</u>	<u>TCEQ</u>
5. Texas Uranium Surface Mining & Reclamation Act	<u>None</u>	<u>None</u>
6. Texas Surface Coal Mining & Reclamation Act	<u>None</u>	<u>None</u>
7. Hazardous Waste Management program under the Resource Conservation and Recovery Act	<u>50099</u>	<u>TCEQ</u>
8. UIC program under the Safe Drinking Water Act	<u>None</u>	<u>None</u>
9. TPDES program under the Clean Water Act	<u>TX0004863</u>	<u>EPA</u>
10. PSD program under the Clean Air Act	<u>PSDTX896, PSDTX974</u>	<u>None</u>
11. Nonattainment program under the Clean Air Act	<u>None</u>	<u>None</u>
12. National Emission Standards for Hazardous Pollutants (NESHAP) Pre-construction approval under the Clean Air Act	<u>None</u>	<u>None</u>
13. Ocean dumping permits under the Marine Protection Research and Sanctuaries Act	<u>None</u>	<u>None</u>
14. Dredge or fill permits under section 404 of the Clean Water Act	<u>None</u>	<u>None</u>
15. Other relevant environmental permits	<u>None</u>	<u>None</u>

*Use the following acronyms for each agency as shown below:

TCEQ = Texas Commission on Environmental Quality
TRC = Texas Railroad Commission
TDH = Texas Department of Health
TDA = Texas Department of Agriculture
EPA = U.S. Environmental Protection Agency
CORPS = U.S. Army Corps of Engineers

G. Give a brief description of the nature of your business.

Shell USA, Inc owns and operates a chemical manufacturing facility which produces principal chemical products of benzene, toluene, xylene, ethylene/propylene/butylene, piperylene/dicyclopentadiene, isopropyl alcohol, acetone, diacetone alcohol, isopropyl ether, methyl isobutyl ketone, methyl isobutyl carbinol, epichlorohydrin/trichloropropane, bisphenol acetone, vinyl chloride monomer, cumene, resins, and phenol.

H. TCEQ Core Data Form

The TCEQ requires that a Core Data Form (Form 10400) be submitted on all incoming applications. For more information regarding the Core Data Form, call (512) 239-1575 or go to the TCEQ website at http://www.tceq.texas.gov/permitting/central_registry/guidance.html.

A Core Data Form for Shell USA, Inc. (CN601542012 / RN100211879) is provided in Attachment I.H.

Part A, Signature Page

An original notarized signature page from the facilities General Manager is included.

Signature Page

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.

Operator Signature: [Signature] Date: 7/23/2024

Name and Official Title (type or print): Nathan Levin, General Manager

Operator Signature: _____ Date: _____

Name and Official Title (type or print): _____

Operator Signature: _____ Date: _____

Name and Official Title (type or print): _____

Owner Signature: _____ Date: _____

Name and Official Title (type or print): Nathan Levin, General Manager

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

I, _____ hereby designate _____
(operator) (authorized representative)

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 support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Printed or Typed Name of Operator or Principal Executive Officer

Signature

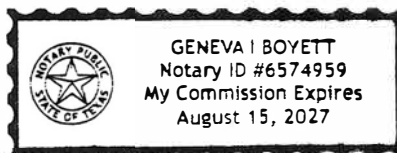
(Note: Application Must Bear Signature & Seal of Notary Public)

Subscribed and sworn to before me by the said Nathan Levin on this

23rd day of July, 2024

My commission expires of the 15th day of August, 2027

Geneva Boyett
Notary Public in and for Harris County, Texas



Appendix I

General Information

Item I.H – Core Data Form

Part A, Section I.H

The revised and signed Core Data Form is included.



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
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 604542012		RN 100211879

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		XX/XX/2024	
<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)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Shell USA, Inc.					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
0001320306		11312998906		13-1299890	008090938
11. Type of Customer:		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
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		<input type="checkbox"/> Other:	
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:		PO Box 4525			
City		Houston		State	TX
ZIP		77210		ZIP + 4	
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
18. Telephone Number			19. Extension or Code		20. Fax Number (if applicable)

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
<input type="checkbox"/> New Regulated Entity <input checked="" type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
Shell Deer Park Chemicals								
23. Street Address of the Regulated Entity: (No PO Boxes)	5900 Highway 255							
	City	Deer Park	State	TX	ZIP	77536	ZIP + 4	2434
24. County	Harris							


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

25. Description to Physical Location:										
26. Nearest City						State			Nearest ZIP Code	
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>										
27. Latitude (N) In Decimal:						28. Longitude (W) In Decimal:				
Degrees	Minutes		Seconds		Degrees	Minutes		Seconds		
29	42		55		95	7		34		
29. Primary SIC Code (4 digits)		30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)			32. Secondary NAICS Code (5 or 6 digits)			
2821		2865		325211			424690			
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)										
34. Mailing Address:	5900 Highway 225									
	City	Deer Park	State	TX	ZIP	77536	ZIP + 4	2434		
35. E-Mail Address:										
36. Telephone Number			37. Extension or Code			38. Fax Number (if applicable)				
(713) 246-7301						() -				

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 checked="" type="checkbox"/> Industrial Hazardous Waste
				50099
<input 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
<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 checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input checked="" type="checkbox"/> Other:
	WQ0000402			See attachment

SECTION IV: Preparer Information

40. Name:	Nicole Roper			41. Title:	Environmental Team Lead
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(713) 246-7278		() -			

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:	Shell USA, Inc.	Job Title:	General Manager	
Name (In Print):	Nathan Levin	Phone:	(713) 246- 6952	
Signature:		Date:	6-27-24	

Indicate (by listing the permit number(s) in the right-hand column below) all existing or pending State and/or Federal permits or construction approvals which pertain to pollution control or industrial solid waste management activities conducted by your plant or at your location. Complete each blank by entering the *permit number*, or the *date of application*, or "none".

Relevant Program and/or Law	Permit No.	Agency*
1. Texas Solid Waste Disposal Act	<u>SWR 30007</u>	<u>TCEQ</u>
2. Wastewater disposal under the Texas Water Code	<u>WQ0000402000</u>	<u>TCEQ</u>
3. Underground injection under the Texas Water Code	<u>None</u>	<u>None</u>
4. Texas Clean Air Act	<u>1699, 4256</u>	<u>TCEQ</u>
5. Texas Uranium Surface Mining & Reclamation Act	<u>None</u>	<u>None</u>
6. Texas Surface Coal Mining & Reclamation Act	<u>None</u>	<u>None</u>
7. Hazardous Waste Management program under the Resource Conservation and Recovery Act	<u>50099</u>	<u>TCEQ</u>
8. UIC program under the Safe Drinking Water Act	<u>None</u>	<u>None</u>
9. TPDES program under the Clean Water Act	<u>TX0004863</u>	<u>EPA</u>
10. PSD program under the Clean Air Act	<u>PSDTX896, PSDTX974</u>	<u>None</u>
11. Nonattainment program under the Clean Air Act	<u>None</u>	<u>None</u>
12. National Emission Standards for Hazardous Pollutants (NESHAP) Pre-construction approval under the Clean Air Act	<u>None</u>	<u>None</u>
13. Ocean dumping permits under the Marine Protection Research and Sanctuaries Act	<u>None</u>	<u>None</u>
14. Dredge or fill permits under section 404 of the Clean Water Act	<u>None</u>	<u>None</u>
15. Other relevant environmental permits	<u>None</u>	<u>None</u>

Part B Application

Part B, Instructions, screening outputs, and automated table of contents

These are revised and included.



Texas Commission on Environmental Quality Permit Application for Industrial and Hazardous Waste Storage/Processing/Disposal Facility with Compliance Plan

Part B Application

The TCEQ is committed to accessibility. You may request an accessible version of these documents, by contacting the Industrial and Hazardous Waste permits section program at (512)-239-2335 or by email at [REDACTED]

Disclaimer:

This document is intended for use in the RCRA Part B application preparation and review process. It contains a screening sheet that will produce a customized Part B application outline that is based on a facility's specific operating characteristics. This screening sheet and application outline are not a substitute for required application materials. This document may omit requirements applicable to the facility and/or include requirements that are not applicable. Please use the knowledge about the facility's operational design and history to ensure that a complete application based on 40 Code of Federal Regulations Part 270 and 30 Texas Administrative Code (TAC) Chapter 305 and Chapter 335 is submitted. Please include any necessary information that may have been mistakenly screened out. If regulatory requirements change during the application process, the TCEQ may request additional information before a permit is issued.

[Quick Start Instructions for Part B Application with Screening Tool](#)

[Go to screening sheet](#)

[View Entire Application](#)



Screening Sheet for Industrial and Hazardous Waste Permitted Facilities.

Please provide a response to all items. **Note: depending on certain selections you make, answers to some questions will automatically default to "No" but some questions will remain to be answered by the user as "Yes" or "No", and if the user does not provide a "Yes" or "No" answer, the application will be generated as if answered "Yes".** It is critical that each response is accurate to ensure retrieval of all applicable application items. If you need to change any response after the initial answer, change the answer and the application will update the application. Print (electronic or physical) a copy of the application materials to create the physical appendix format of your application.

Please answer Questions 1 through 11 and DO NOT leave any questions) unanswered to ensure an complete application.

1. Is this an application for a compliance plan only?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
2. Is this permit for post-closure care only? ¹	<input type="radio"/> Yes	<input checked="" type="radio"/> No
3. Is this an application for a compliance plan and post-closure care only?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
4. Is this an application for WMU(s) with a compliance plan? ²	<input type="radio"/> Yes	<input checked="" type="radio"/> No
5. Is this an application for WMU(s) with post-closure care?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
6. Is this an application for WMU(s), with compliance plan and post-closure care?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
7. Is this an application for WMU(s) only?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Any Land Based Units?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Surface Impoundments	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Waste Piles	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Land Treatment Units	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Landfills ³	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Container Storage Areas	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Tank and Tank Systems	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Incinerators	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Boilers/Industrial Furnaces	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Drip Pads	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Containment Buildings	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Miscellaneous Units ⁴	<input type="radio"/> Yes	<input checked="" type="radio"/> No
8. Is this a new commercial facility?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
9. Is this a "One-Stop" application with air provisions?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
10. Is this facility military, federal, or state owned?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
11. Does the application contain Confidential Materials?	<input type="radio"/> Yes	<input checked="" type="radio"/> No

Reset All Screening Questions

Jump to Table of Content(s) / Applicable Tables

Generate Application and Save

1 - If "Yes" is indicated for Post-Closure Care only, then all non-land-based units above will default to "No". Additionally if "Yes" is indicated for Post-Closure Care only, then at least one Land-Based Unit must be "Yes."

2 - If "Yes" is indicated for Active Permit Unit(s) with a Compliance Plan, then at least one unit must be "Yes."

3 - Select "Landfills- Yes" for any land-based unit that was closed as a landfill. (Example Surface Impoundment closed as a landfill.)

4 - For Miscellaneous Units, select "yes" and also select "Yes for the appropriate unit types (s) shown above. Address all applicable engineering requirements (e.g., landfill requirements from Section V.G) in Section V.K.

WMU- Waste Management Unit



Texas Commission on Environmental Quality Permit Application for Industrial and Hazardous Waste Storage/Processing/Disposal Facility with Compliance Plan Customized Part B Application

Form Availability:

This form, as well as other Industrial and Hazardous Waste documents, Part B electronic checklist, and pertinent rules, is available on the Internet. The TCEQ Home Page is at: <https://www.tceq.texas.gov>. Once you have accessed the home page, select "Forms and Publications" and follow the system prompts. The number for this form is 00376. Questions may be e-mailed to [REDACTED]

Introduction:

This permit application is generally a reorganized summary of the Part B information requirements of 40 CFR Part 270 and 30 Texas Administrative Code (TAC) Chapter 305 Subchapters C and D and Chapter 335. The TCEQ may request additional information before a permit is issued, if regulatory requirements change.

The original application plus all copies for New, Renewals, Major Amendments and Class 3 Modifications should be submitted to:

Texas Commission on Environmental Quality
Attention: Waste Permits Division, MC 126
P. O. Box 13087
Austin, Texas 78711-3087

The original application plus all copies for Class 1, Class 1¹, Class 2 Modifications and Minor Amendments should be submitted to:

Texas Commission on Environmental Quality
Attention: Industrial and Hazardous Waste Permits Section, MC 130
Waste Permits Division
P. O. Box 13087
Austin, Texas 78711-3087

Telephone Inquiries:

(512) 239 - 2335 (For RCRA permit application) - Industrial & Hazardous Waste Permits Section, Waste Permits Division

(512) 239 - 6412 (For industrial and hazardous waste classification) - Technical Analysis Team, Industrial & Hazardous Waste Permits Section, Waste Permits Division

(512) 239 - 6413 (For solid waste registration number, EPA identification number, and notice of registration) - Registration and Reporting Section, Permitting and Registration Support Division

(512) 239 - 0272 (For non-combustion units) - Chemical New Source Review Permits

Section, Air Permits Division

(512) 239 - 1583 (For combustion units) - Energy/Combustion New Sources Review Permits Section, Air Permits Division

(512) 239 - 0600 (For legal) - Environmental Law Division

(512) 239 - 6150 (For financial assurance) - Financial Assurance Unit, Revenue Operations Section, Financial Administration Division

(512) 239 - 0300 (For payment of permit application fees) - Cashier's Office, Revenue Operations Section, Financial Administration Division

(512) 239 - 2201 (For compliance plan or corrective action) - Voluntary Cleanup Program/Corrective Action Section, Remediation Division

Application Review Prohibition:

The Texas Commission on Environmental Quality (TCEQ) shall not review an application for a new commercial hazardous waste facility, and the application shall be deemed not to have been received, until the emergency response information required by Section III.F. of the application has been reviewed and declared by TCEQ staff to be complete and satisfactory. [30 TAC 281.26, 30 TAC 305.50(a)(12)(C) and (D)]

Permit Issuance Prohibited [30 TAC 335.205]:

The TCEQ shall not issue a permit for:

1. a new hazardous waste management facility or an areal expansion of an existing facility if the facility or expansion does not meet the requirements of 30 TAC 335.204 (relating to Unsuitable Site Characteristics);
2. a new hazardous waste landfill or the areal expansion of an existing hazardous waste landfill if there is a practical, economic, and feasible alternative to such a landfill that is reasonably available to manage the types and classes of hazardous waste which might be disposed of at the landfill;
3. a new commercial hazardous waste management facility as defined in 30 TAC 335.202 (relating to Definitions) or the subsequent areal expansion of such a facility or unit of that facility if the owner/operator proposes to locate the boundary of the unit within 0.5 of a mile (2,640 feet) of an established residence, church, school, day care center, surface water body used for a public drinking water supply, or dedicated public park;
4. a new commercial hazardous waste management facility that is proposed to be located at a distance greater than 0.5 mile (2,640 feet) from an established residence, church, school, day care center, surface water body used for a public drinking water supply, or dedicated public park unless the applicant demonstrates to the satisfaction of the commission that the facility will be operated so as to safeguard public health and welfare and protect physical property and the environment, at any distance beyond the facility's property boundaries;
5. a proposed hazardous waste management facility, or a capacity expansion of an existing hazardous waste management facility if a fault exists within 3,000 feet of the proposed hazardous waste management facility or of the capacity expansion of an existing hazardous waste management facility unless the applicant performs the demonstration found in 30 TAC 305.50(a)(4)(D) and 305.50(a)(10)(E) ; and

6. A proposed solid waste facility for the processing or disposal of municipal hazardous waste or industrial solid waste which is located within an area of a municipality or county in which the processing or disposal of municipal hazardous waste or industrial solid waste is prohibited by an ordinance or order. [Texas Health and Safety Code Section 363.112]

See 30 TAC 335 Subchapter G: Location Standards for Hazardous Waste Storage, Processing, or Disposal for additional details and information regarding items 1 through 5 above.

Completing The Application and Electronic Checklist:

Prior to submitting a new permit application, please contact the TCEQ Permitting and Registration Support Division to obtain a Solid Waste Registration Number and an EPA Identification Number for inclusion in Section I.A. of this application. The facility's Solid Waste Registration Number may be proposed in Section I.A. as the Permit Number

This permit application form has been designed to solicit specific information, with reports to be attached or inserted. A response must be made for each informational request in the application form. If an item is not applicable please state "not applicable" and explain. All information included in the application must be listed by the format of the application. For example, if an engineering report is attached to the application to fulfill the requirements of Section V, then each subsection of the engineering report must correlate with the corresponding subsection in the application form (e.g., Subsection V.A.3. of the report would be proposed construction schedules). If information is provided which does not correspond with the application form, the specific rule or regulation which requires submittal of the information must be cited. Each report should be attached behind the summary form or table for the report and submitted as one document with the pages sequentially numbered at the bottom. Maps, blueprints, and drawings that cannot be folded to 8-1/2" x 11" may be submitted as separate documents. Engineering plans and specifications submitted with an application must be approved and sealed by a licensed Professional Engineer, with current license and designating the Registered Engineering Firm's name and Registration Number as required by the Texas Engineering Practice Act. Geology reports, geologic maps, and geologic cross-sections submitted with an application must be approved and sealed by a licensed Professional Geologist, with current license required by the Texas Geoscience Practice Act. Complete the tables in this application rather than substituting.

Facilities which will receive industrial and hazardous wastes from off-site sources must also provide information on these wastes and associated waste management units in accordance with 30 TAC 335.2.

In addition, the electronic checklist has been designed to facilitate the application preparation and review process, and should be completed and submitted along with applicable applications (see "Submittal" below).

For those who pre-filed a Part A application, certain items may have been omitted. These omissions must be addressed at this time. Additionally, if hazardous waste management methods have changed since the filing of the Part A, please provide an updated Part A.

Pursuant to Section 361.067 of the Texas Health and Safety Code, the TCEQ is required to mail a copy of this application or a summary of its contents to other regulatory agencies. Section I may be considered a summary of the entire application provided that all questions are completely answered. Therefore, Section I responses must not rely solely on cross-references to other sections of the application.

Groundwater Contamination:

If groundwater monitoring has detected the presence of hazardous constituents in the facility groundwater, the owner or operator must submit a Compliance Plan Application that is included as Section XI of this application. For more detailed instructions concerning a Compliance Plan, please see Section XI.

Submittal:

The complete application should be prepared using PDF and word processing. The third copy in the submittal package should consist of paper copies or PDF files of all surveys, reports, plot plans, diagrams, P&IDs, maps, etc., and a Compact Disk (CD) of the completed application form document and tables included in this application attachments. Files may be compressed using PKZIP Ver. 2 or a 100% compatible program. For Renewal, Amendment, and Modification applications, the PDF files should include both a finalized version and, where available, a redline/strikeout version clearly identifying all proposed changes from the existing permit. For revised application sections and incorporated documents where redline/strikeout versions are not available, submit a detailed listing of all proposed changes to the existing permit. In addition, the submitted electronic version of the application should be easily searchable during the review process by TCEQ staff.

For a new permit application or renewal, submit:

1. an original updated Part A permit application plus three (3) full copies;
2. the original Part B application plus three (3) full copies (including the electronic third copy);
3. a check for payment of permit application fees transmitted directly to the TCEQ Financial Administration Division;
4. Pre-printed mailing labels of the adjacent landowners or an electronic mailing list on Compact Disk (CD) in MS Word format; and
5. Completed RCRA Part B Administrative and Technical Evaluation Electronic Checklist (Form #00136) on CD, DVD, or USB drive.

For a new compliance plan or renewal of an existing compliance plan, please submit the following in addition to the above:

1. Sections I and XI.A. through XI.E., as applicable;
2. Tables XI.A.I., XI.E.1 through XI.E.III, and CP Tables I, II, V, VI through IX, are required; and CP Tables IIIA, IIIA, IV and IVA as applicable. The applicant should use the PDF formatted Tables provided in the Part B application to include site-specific information that will become part of the final draft permit; and
3. a Sampling and Analysis Plan (SAP) compliant with "Attachment A" requirements and evaluation of monitoring wells compliant with "Attachment B" well specification requirements.

For a post-closure care permit submit:

1. an original updated Part A permit application plus three (3) full copies;
2. the original Part B application (excluding Sections III B and F; IV A, C and D; VII A and B; VIII.B and C; and X) plus three (3) full copies;
3. a check for payment of permit application fees transmitted directly to the

TCEQ

Financial Administration Division;

4. pre-printed mailing labels of the adjacent landowners or an electronic mailing list on Compact Disk (CD) in MS Word format; and
5. Completed RCRA Part B Administrative and Technical Evaluation Electronic Checklist (Form #00136) on CD, DVD, or USB drive.

For major amendments to an issued hazardous waste permit, submit:

1. (if appropriate) an original updated Part A permit application plus three (3) full copies;
2. an original Part B application plus three (3) full copies, consisting of, at a minimum, Section I - Table I of the Part B plus replacement pages for the changed portions of the application that change as a result of the amendment;
3. an explanation of why the major amendment is needed;
4. a check for payment of permit application fees transmitted directly to the TCEQ Financial Administration Division;
5. pre-printed mailing labels of the adjacent landowners or an electronic mailing list on Compact Disk (CD) in MS Word format; and
6. Completed RCRA Part B Administrative and Technical Evaluation Electronic Checklist (Form #00136) on CD, DVD, or USB drive.

For minor amendments to an issued hazardous waste permit, submit:

1. (if appropriate) an original updated Part A permit application plus three (3) full copies;
2. an original Part B application plus three (3) full copies, consisting of, at a minimum, Section I-Table I of the Part B plus replacement pages for the changed portions of the application that change as a result of the amendment;
3. an explanation of why the minor amendment is needed;
4. a check for payment of permit application fees transmitted directly to the TCEQ Financial Administration Division; and
5. pre-printed mailing labels of the adjacent landowners or an electronic mailing list on diskette on Compact Disk (CD) in MS Word format.

For Class 3 modifications (including adding or revising a Compliance Plan) to an issued hazardous waste permit, submit:

1. (if appropriate) an original updated Part A permit application plus three (3) full copies;
2. an original Part B application plus three (3) full copies, consisting of, at a minimum, Section I - Table I of the Part B plus replacement pages for the changed portions of the application that change as a result of the modification;
3. a description of the exact changes to be made to the permit conditions and supporting documents referenced by the permit;
4. an explanation of why the Class 3 modification is needed;

5. evidence of the public notice mailing and publication (after the public meeting, please submit a statement that the public meeting was held within the required timeframes);
 - a. Evidence of public notice mailing to Adjacent Landowners requires submittal of copies of mail.
6. a check for payment of permit application fees transmitted directly to the TCEQ Financial Administration Division;
7. pre-printed mailing labels of the adjacent landowners or an electronic mailing list on Compact Disk (CD) in MS Word format; and
8. Completed RCRA Part B Administrative and Technical Evaluation Electronic Checklist (Form #00136) on CD, DVD, or USB drive.

For Class 2 modifications to an issued hazardous waste permit, submit:

1. (if appropriate) an original updated Part A permit application plus three (3) full copies;
2. an original Part B application plus three (3) full copies, consisting of, at a minimum, Section I - Table I of the Part B plus replacement pages for the changed portions of the application that change as a result of the modification;
3. a description of the exact changes to be made to the permit conditions and supporting documents referenced by the permit;
4. an explanation of why the Class 2 modification is needed;
5. evidence of the public notice mailing and publication (after the public meeting, please submit a statement that the public meeting was held within the required timeframes);
6. a check for payment of permit application fees transmitted directly to the TCEQ Financial Administration Division; and
7. pre-printed mailing labels of the adjacent landowners or an electronic mailing list on diskette on Compact Disk (CD) in MS Word format.

For Class 1¹ modifications to an issued hazardous waste permit, submit:

1. (if appropriate) an original updated Part A permit application plus three (3) full copies;
2. an original Part B application plus three (3) full copies, consisting of, at a minimum, Section I - Table I of the Part B plus replacement pages for the changed portions of the application that change as a result of the modification;
3. a description of the exact changes to be made to the permit conditions and supporting documents referenced by the permit;
4. an explanation of why the Class 1¹ modification is needed;
5. a check for payment of permit application fees transmitted directly to the TCEQ Financial Administration Division; and
6. Completed RCRA Part B Administrative and Technical Evaluation Electronic Checklist (Form #00136) on CD, DVD, or USB drive, for applications involving the partial transfer of some permitted waste management units.

For Class 1 modifications to an issued hazardous waste permit, submit:

1. (if appropriate) an original updated Part A permit application plus three (3) full copies;
2. an original Part B application plus three (3) full copies, consisting of, at a minimum, Section I - Table I of the Part B plus replacement pages for the changed portions of the application that change as a result of the modification;
3. a description of the exact changes to be made to the permit conditions and supporting documents referenced by the permit;
4. an explanation of why the Class 1 modification is needed; and
5. a check for payment of permit application fees transmitted directly to the TCEQ Financial Administration Division.

If several modifications are submitted as one application, the application review will proceed at rate of the amendment or modification which has the longest timeframe.

Application Revisions:

Please submit any application revisions with a revised date and page numbers at the bottom of the page(s).

Waivers:

Any request for waiver of any of the applicable requirements of this permit application must be fully documented.

Designation of Material as Confidential:

The designation of material as confidential is frequently carried to excess. The Commission has a responsibility to provide a copy of each application to other review agencies and to interested persons upon request and to safeguard confidential material from becoming public knowledge. Thus, the Commission requests that the applicant (1) be prudent in the designation of material as confidential and (2) submit such material only when it might be essential to the staff in their development of a recommendation.

The Commission suggests that the applicant not submit confidential information as part of the permit application. However, if this cannot be avoided, the confidential information should be described in non-confidential terms throughout the application, cross-referenced to Section XIII: Confidential Material, and submitted as a separate Section XIII document or binder, and conspicuously marked "CONFIDENTIAL."

Reasons of confidentiality include the concept of trade secrecy and other related legal concepts which give a business the right to preserve confidentiality of business information to obtain or retain advantages from its right in the information. This includes authorizations under, 18 U.S.C. 1905 and special rules cited in 40 CFR Chapter I, Part 2, Subpart B. Section 361.037 of the Texas Health and Safety Code does not allow an applicant for an industrial solid waste permit to claim as confidential any record pertaining to the characteristics of the industrial solid waste.

The applicant may elect to withdraw any confidential material submitted with the application. However, the permit cannot be issued, amended, or modified if the application is incomplete.

Exposure Assessment:

In accordance with 30 TAC 305.50(a)(8) and 40 CFR 270.10(j), any Part B application submitted for a facility that stores, processes, or disposes of hazardous waste in a surface impoundment or a landfill (including post-closure) must be accompanied by exposure information of the potential for the public to be exposed to hazardous wastes or hazardous constituents through releases related to the unit. This exposure information is considered separate from the permit application, as stated in 40 CFR 270.10(c).

Pre-Application Meeting/Public Participation Activities [30 TAC 335.391 and 30 TAC 39.503]:**a. Applicant-held pre-application public meeting**

In accordance with 30 TAC 335.503(b) and 40 CFR Part 124.31(b)-(d), an applicant-held pre-application public meeting is required for the following application types prior to submitting the application to allow the applicant and the public to identify potential issues:

- New applications;
- Renewal applications with Class 3 Permit Modifications or Major Amendments; and
- Major Amendment applications.

The pre-application public meeting is not required for an application submitted for the sole purpose of conducting post-closure activities or post-closure activities and corrective action at a facility unless:

- The application is also for an initial permit for hazardous waste management unit(s);
or
- The application is also for renewal of the permit, where the renewal application is proposing a significant change (Class 3 Permit Modification or Major Amendment) in facility operations (Note: per preamble to the related federal rule, the facility operations referenced herein exclude post-closure and corrective action activities).

b. Pre-application meeting with TCEQ

Applicants are strongly encouraged to request a pre-application meeting with TCEQ Permits Section staff and to notify the Industrial and Hazardous Waste Permits Section, Waste Permits Division of intent to file new, renewal, Class 3 permit modification, major amendment, and other complex permit applications.

c. Pre-application local review

In accordance with 30 TAC 335.391, for a new hazardous waste management facility, if a local review committee has been established to facilitate communication between the applicant and the local host community, the applicant should summarize the activities of the committee and submit this summary with the application. Any report completed by a review committee must be submitted.

New industrial or hazardous waste facility that would accept municipal solid waste:

- a. If an applicant proposes a new industrial or hazardous waste facility that would accept municipal solid waste, the applicant shall hold a public meeting in the county in which the facility is proposed to be located. This meeting must be held before the 45th day after the date the application is filed. In addition, the applicant shall publish notice of the public meeting in accordance with 30 TAC 39.503(e)(5).

Bilingual Notice Instructions:

For certain permit applications, public notice in an alternate language is required. If an elementary school or middle school nearest to the facility offers a bilingual program, notice may be required to be published in an alternative language. The Texas Education Code, upon which the TCEQ alternative language notice requirements are based, requires a bilingual education program for an entire school district should the requisite alternative language speaking student population exist. However, there may not be any bilingual-speaking students at a particular school within a district which is required to offer the bilingual education program. For this reason, the requirement to publish notice in an alternative language is triggered if the nearest elementary or middle school, as part of a larger school district, is required to make a bilingual education program available to qualifying students and either the school has students enrolled at such a program on-site, or has students who attend such a program at another location to satisfy the school's obligation to provide such a program.

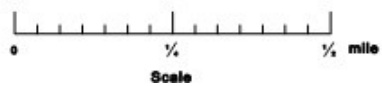
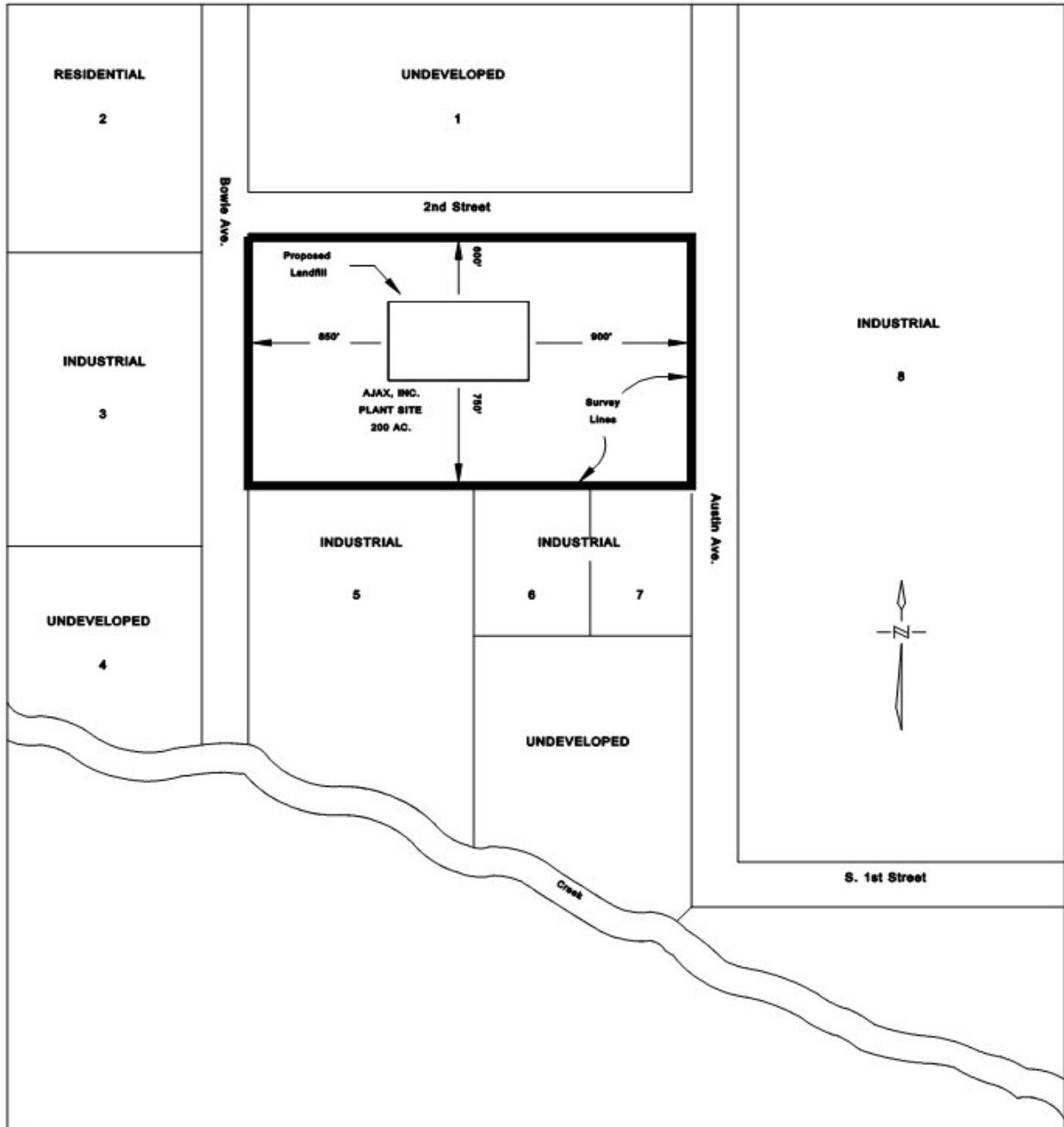
If it is determined that a bilingual notice is required, the applicant is responsible for ensuring that the publication in the alternate language is complete and accurate in that language. Electronic versions of the Spanish template examples are available from the TCEQ to help the applicant complete the publication in the alternative language.

Complete and submit the [Bilingual notice confirmation](#) for this application. The Bilingual notice confirmation can be downloaded from the [Navigation Pane](#).

Landowners Cross-Referenced To Application Map

SAMPLE APPLICATION MAP

ALL ADJACENT LANDOWNERS SHALL BE IDENTIFIED



The persons identified below would be considered as affected persons.

- | | |
|---|--|
| 1. MR & MRS SAMUEL L TEXANS
11901 STARTLE BLVD
ATOWN TX 78759 | 5. GENERIC BREWING CO
4240 KNIGHTS BRIDGE
OUTBACK TX 77640 |
| 2. MR & MRS EDWARD CITIZENS
1405 LINEAR ROAD
LITTLE TOWN TX 76710 | 6. PLAIN COMPANY
6647 CRAIGMOUT LANE
BIG PLACE TX 77590 |
| 3. TEXAS LINKED CORP
8411 NNW HWY
BIG PLACE TX 77590 | 7. ABC CHEMICALS INC
1212 ZIP STREET
BROADBANKS TX 77640 |
| 4. MR & MRS TED GOLDEN MUSTARD
3210 AVENUE BLVD
FISHINSPOT TX 76724 | 8. BIG LOCAL BOTTLE CO
10024 LOCAL BLVD
URSINUS TX 79402 |

Adjacent Landowners List

Submit a map indicating the boundaries of all adjacent parcels of land, and a list (see samples in the instructions) of the names and mailing addresses of all adjacent landowners and other nearby landowners who might consider themselves affected by the activities described by this application. Cross-reference this list to the map through the use of appropriate keying techniques. The map should be a USGS map, a city or county plat, or another map, sketch, or drawing with a scale adequate enough to show the cross-referenced affected landowners. The list should be updated prior to any required public notice. It is the applicant's responsibility to ensure that the list is up-to-date for any required public notice. For all applications (with the exception of Class 1 and Class 1¹ modifications) this mailing list should be submitted on:

1. a Compact Disk (CD) using software compatible with MS Word [30 TAC 39.5(b)];
or
2. four sets of printed labels.

If the adjacent landowners list is submitted on a compact disk (CD), please label the disk with the applicant's name and permit number. Within the file stored on the disk, type the permit number and applicant's name on the top line before typing the addresses. Names and addresses must be typed in the format indicated below. This is the format required by the U.S. Postal Service for machine readability. Each letter in the name and address must be capitalized, contain no punctuation, and the appropriate two-character abbreviation must be used for the state. Each entity listed must be blocked and spaced consecutively as shown below. The list is to be 30 names, addresses, etc. (10 per column) per page (MS WORD Avery Standard 5160 - ADDRESS template).

Example:

Industrial Hazardous Waste Permit No. 50000, Texas Chemical Plant

HEAVY METALS LP
PO BOX 85624
PUMPKIN PARK TX 79998-5624

MR AND MRS W R NEIGHBOURLY
1405 ACROSSTHE WAY
GREATER METRO CITY TX 79199

A list submitted on compact disk (CD) should be the only item on that disk. Please do not submit a list on a disk that includes maps or other materials submitted with your application.

If you wish to provide the list on printed labels, please use sheets of labels that have 30 labels to a page (10 labels per column) (for example: Avery® Easy Peel® White Address Labels for Laser Printers 5160). Please provide four complete sets of labels of the adjacent landowners list.

Plain Language Summary

Complete the following form(s) as applicable, and submit with any industrial hazardous waste, or industrial solid waste, permit application that is subject to 30 Texas Administrative Code §39.405(k) [applications for a Class 3 permit modification, permit amendment, permit renewals, and for a new permit].

[Plain Language Summary Form - English](#)

[Plain Language Summary Form - Instructions](#)

[Plain Language Summary Form - Spanish](#)

Note: The table of contents will update and be based on the questions answered at the beginning of the form.

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Instructions:

Open the File Attachments List in the Navigation Page to view all tables and attachments. (Or, [click here](#) to open List of Attachments Navigation Pane). Word versions of the tables are included in the Attachment Tab. Links below will only open the PDF versions of the tables. Select the applicable tables for your application and complete.

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[Signature Page for Application](#)

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[Table V.I.5. - Boiler/Industrial Furnace Permit Conditions, Monitoring and Automatic Waste Feed Cutoff Systems - Short-Term Operation](#)

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Appendices List - NOTE: Provide all Part B responsive information, (e.g. engineering reports, attachments, drawings, tables, maps, etc.) in an Appendix for each section of the application. When preparing the physical format review the [Format of Hazardous Waste permit Application and Instructions](#).

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Appendix II - Facility Siting Information

Appendix III - Facility Management

Appendix III.A. - Compliance History and Applicant Experience

Appendix III.B. - Personnel Training Plan

Appendix III.C - Facility Security

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Appendix V - Engineering Reports

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Appendix V.B. - Container storage Areas Engineering Report

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Appendix V.F. - Land Treatment Units Engineering Report

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Appendix V.J. - Drip Pads Engineering Report

Appendix V.K. - Miscellaneous Units Engineering Report

Appendix V.L. - Containment Buildings Engineering Report

Appendix VI.D. - Unsaturated Zone Monitoring

Appendix VII - Closure and Post-Closure Plan

Appendix VII.A. - Closure Plan

Appendix VII.B. - Closure Cost Estimate

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Appendix VII.D. - Post-Closure Cost Estimate

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Appendix VIII - Financial Assurance Information

Appendix IX - Releases from Solid Waste Units and Corrective Action

Appendix X - Air Emission Standards

Appendix XI- Compliance Plan

Appendix XII - Hazardous Waste Permit Application Fee Tables

Texas Commission on Environmental Quality Industrial & Hazardous Waste Part B Permit Application

I. General Information

Provide all Part B responsive information in Appendix I. When preparing the physical format organize your submittal using the [Format of Hazardous Waste permit Application and Instructions](#).

Provide responsive information in Appendix I.

- a. Complete Table I - General Information
- b. For all incoming New, Renewal, Class 3 Permit Modification, and Major Amendment applications, the TCEQ requires that a Core Data Form (CDF) be submitted whether or not a change has occurred in the previously submitted form.

For Minor Amendment, Class 1, Class 1¹, and Class 2 Permit Modification applications, the TCEQ requires that the CDF be only submitted if a change in any information in the previously submitted form has occurred at the time of the application submittal.

For more information regarding the Core Data Form, call (512) 239 1575 or go to the TCEQ Web site at https://www.tceq.texas.gov/permitting/central_registry/guidance.html

- c. [Signature on Application](#)

It is the duty of the operator to submit an application for a permit. The person who signs the application form will often be the operator himself; when another person signs on behalf of the applicant, his title or relationship to the applicant will be shown. In all cases, the person signing the form must be authorized to do so by the applicant. An application submitted by a corporation must be signed by a responsible corporate officer such as a president, secretary, treasurer, vice president, or by his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the activity described in the form originates. In the case of a partnership or a sole proprietorship, the application must be signed by a general partner or the proprietor, respectively. In the case of a municipal, state, federal, or other public facility, the application must be signed by a principal executive officer, a ranking elected official, or another duly authorized employee. A person signing an application on behalf of an applicant must provide notarized proof of authorization.

- d. Complete Interim Status Land Disposal Unit(s) Certification, as applicable
- e. Submit List and Map of Adjacent Landowners List, as applicable.

Part B, Signature Page

An original notarized signature page from the facilities General Manager is included.

Signature Page

I, Nathan Levin, General Manager,
(Operator) (Title)

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.

Signature: [Signature] Date: 7/23/2024

To be completed by the Operator if the application is signed by an Authorized Representative for the Operator

I, _____, hereby designate _____
[Print or Type Name] [Print or Type Name]

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.

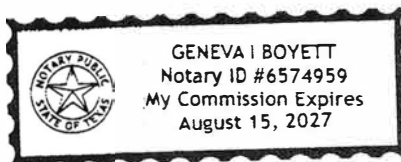
Printed or Typed Name of Operator or Principal Executive Officer

Signature

SUBSCRIBED AND SWORN to before me by the said Nathan Levin
On this 23rd day of July, 2024
My commission expires on the 15th day of August, 2027

Notary Public in and for Harris County, Texas
[Note: Application Must Bear Signature & Seal of Notary Public]

Geneva Boyett



Appendix I

General Information

Table I – General Information

Item I.D.6 – Table I.1 Description of Requested Changes

Item I.G.1 – State and Local Officials Mailing Addresses

Item I.G.2 – Adjacent Landowner Map and List

Item I.G.3 – CD of Adjacent Landowners Mailing Labels

Item I.H – Core Data Form

Table I: General Information**A. Applicant: Facility Operator (or Facility Owner & Operator, if same)**

Name ¹	Shell USA, Inc.
Address	5900 Highway 225
City, State	Deer Park, TX
Zip Code	77536-2434
Telephone Number	713.246.7301
Alternate Telephone Number	
Fax:	
TCEQ Solid Waste Registration No.	30007
EPA I.D. No.	TXD067285973
Permit No.	50099
County	Harris
Regulated Entity Name	Shell Deer Park Chemicals
Regulated Entity Reference Number (RN)	RN100211879
Customer Name	SHELL USA INC
Customer Reference Number:	CN601542012
Charter Number ²	1320306
Previous or Former Names of the Facility (if applicable)	Shell Oil Deer Park

B. Facility Owner: Identify the Facility Owner if different than the Facility Operator³☒ Same as Facility Operator?

Name	Shell USA, Inc.
Address	5900 Highway 225
City, State	Deer Park, TX
Zip Code	77536-2434
Telephone Number	713.246.7301
Alternate Telephone Number	
Fax:	

C. Facility Contact**1. Persons or firms who will act as primary contact:**

Name, Title:	Nicole Roper, Environmental Team Lead
Address	5900 Highway 225
City, State:	Deer Park, TX
Zip Code	77536-2434
Telephone Number	713.246.7278
Alternate Telephone Number	
E-mail	
Fax:	

Persons or firms who will act as primary contact (if more than one):

Name, Title:	Javier Garza, PE, Project Manager
Address	Same
City, State:	Same
Zip Code	Same
Telephone Number	346-518-6304
Alternate Telephone Number	
E-mail	
Fax:	

2. Agent in Service or Agent of Service (if you are an out-of-state company)⁴:

Name, Title:	Corporation Service Company
Address	1999 Bryan Street, Suite 900
City, State:	Dallas, TX
Zip Code	75201

3. Individual responsible for causing notice to be published:

Name:	Javier Garza, PE
Address	5900 Highway 225
City, State:	Deer Park, TX
Zip Code	77536
Telephone Number	346-518-6304
Alternate Telephone Number	346-518-6304
E-mail	
Fax:	

4. Public place in county where application will be made available⁵:

Name	Deer Park Public Library
Address	3009 Center Street

City, State

Deer Park, TX

Zip Code

77536

D. Application Type and Facility Status**1. Application Type**☒ Permit☐ New☐ Interim status☐ Renewal☐ RD&D☒ Compliance Plan☐ Amendment☐ Major☐ Minor☒ Modification☒ Class 3☐ Class 2☐ Class 1¹☐ Class 1**2. Part of a Consolidated Permit Processing request? [30 TAC Chapter 33]**

No

3. Does the application contain confidential material?⁶

No

4. Facility Status. Check all that apply☐ Proposed☒ Existing☒ On-Site☐ Off-Site☐ Commercial☐ Recycle☒ Land Disposal☐ Areal or capacity expansion☐ Compliance plan**5. Is the facility within the Coastal Management Program boundary?**

Yes

6. Description of Application Changes

Complete Table I.1 - Description of Proposed Application Changes.

Note: List all changes requested in Table I.1. Unlisted requests risk remaining unaddressed or possibly denied if brought to the permit application reviewer's attention at a later time.

7. Total acreage of the facility being permitted:

461

8. Identify the name of the drainage basin and segment where the facility is located

River Segment Houston Ship Channel Tidal

River Basin San Jacinto River Basin

E. Facility Siting Summary:

Is the facility located or proposed to be located:

1. Within a 100-year floodplain?
2. in wetlands?
3. In the critical habitat of an endangered species of plant or animal?
4. On the recharge zone of a sole-source aquifer?
5. In an area overlying a regional aquifer?
6. Within 0.5 mile (2,640 feet) of an established residence, church, school, day care center, surface water body used for a public drinking water supply, or dedicated public park?⁷ [30 TAC 335.202]

If Yes: the TCEQ shall not issue a permit for this facility.

7. In an area in which the governing body of the county or municipality has prohibited the processing or disposal of municipal hazardous waste or industrial solid waste?

If Yes: provide a copy of the ordinance or order.

No
No
No
Yes
No
No

F. Wastewater and Stormwater Disposition

1. Is the disposal of any waste to be accomplished by a waste disposal well at this facility?

No

If Yes: List WDW Permit No(s):

--

2. Will any point source discharge of effluent or rainfall runoff occur as a result of the proposed activities?

Yes

3. If Yes, is this discharge regulated by a TPDES or TCEQ permit?

☒ Yes

TCEQ Permit No.

WQ0000402000

TPDES Permit No.

TX0004863

☐ No

Date TCEQ discharge permit application filed

--

Date TPDES discharge permit application filed:

--

G. Information Required to Provide Notice

State Officials List [30 TAC 39]

State Senator

Name:

Address

Email

Telephone

THE HONORABLE CAROL ALVARADO

P.O. Box 12068 Capitol Station, Austin, TX, 78711

(512) 463-0106

State Representative

Name:

Address

Email

Telephone

THE HONORABLE MARY ANN PEREZ

P.O. Box 2910, Room E2.406, Austin, TX 78768

(512) 463-0460

Local Officials List [30 TAC 39]

Mayor

Name:

Address

Email

Telephone

MAYOR JERRY MOUTON JR

PO BOX 700, DEER PARK, TX 77536

(281) 479-2394

Local Health Authority

Name:

Address

Email

Telephone

JAY STOKES, CITY MANAGER BOARD OF HEALTH

PO BOX 700, DEER PARK, TX 77536

(281) 478-7246

County Judge

Name:

Address

Email

Telephone

HARRIS COUNTY JUDGE LINA HIDALGO

1001 Preston, Suite 911, Houston TX 77002

(713) 274-7000

County Health Authority

Name:

Address

Email

Telephone

BARBIE ROBINSON MPP JD CHC

1111 Fannin Street, Houston, TX 77002

(713) 439-6000

Based on the questions in the Bilingual Notice Instructions for this form, are you required to make alternate (Bilingual) notice for this application?

Yes

Bilingual Language(s):

Spanish

TCEQ Core Data Form Submitted?(see Section I Instructions, Item b.)

Yes

Has any information changed on the TCEQ Core Data Form since the last submittal?

Yes

Signature on Application Submitted?
(see Section I Instructions, Item c)

Yes

1. Individual, Corporation, or Other Legal Entity Name - must match the Secretary of State's database records for the Facility)
2. If the application is submitted on behalf of a corporation, please identify the Charter Number as recorded with the Office of the Secretary of State for Texas.
3. The operator has the duty to submit an application if the facility is owned by one person and operated by another [30 TAC 305.43(b)]. The permit will specify the operator and the owner who is listed on Part A of this application [Section 361.087, Texas Health and Safety Code].
4. If the application is submitted by a corporation or by a person residing out of state, the applicant must register an Agent in Service or Agent of Service with the Texas Secretary of State's office and provide a complete mailing address for the agent. The agent must be a Texas resident.
5. For applications for new permits, renewals, major amendments and Class 3 modifications a copy of the administratively complete application must be made available at a public place in the county where the facility is, or will be, located for review and copying by the public. Identify the public place in the county (e.g., public library, county court house, city hall), including the address, where the application will be made available for review and copying by the public.
6. For confidential information cross-reference the confidential material throughout the application to Section XIII: Confidential Material, and submit as a separate Section XIII document or binder conspicuously marked "CONFIDENTIAL".
7. Use only for a new commercial hazardous waste management facility or areal expansion of an existing commercial hazardous waste management facility or unit of that facility as defined in 30 TAC 335.202

Item I.D.6 – Description of Requested Changes

Table I.1-Description of Proposed Application Changes

Permit/Compliance Plan Application Appendix/Section	Brief Description of Proposed Change	Modification or Amendment Type	Supporting Regulatory Citation
Permit/Compliance Plan HW-50009	<p>As per 30 TAC 305.69(d) and 30 TAC 305.69(k), this permit modification is to request that SCLP be allowed to build over the West South Effluent Treater (West SET or west basin) Basin (TCEQ Permitted unit No. 5; NOR 152) for the purposes of upgrading and expanding existing plant operations. This unit was Certified Closed in December 2017 and accepted as closed as a landfill by the TCEQ on February 13, 2018.</p> <p>The West SET was a permitted hazardous waste surface impoundment with top dimensions of 340 feet (length) by 218 feet (width), 2:1 (horz:vert) side slopes, and a depth of 17 feet (depth). The basin was equipped with aerators and associated supports and walkways and functioned as an aeration basin for treatment of process wastewater. The west basin was operated in parallel configuration and received the same wastewater influent from the process units as the middle and east basins. The bottom liner of the unit is</p>	Class 3 Modification	30 TAC 305.69(d) and (k)

Permit/Compliance Plan Application Appendix/Section	Brief Description of Proposed Change	Modification or Amendment Type	Supporting Regulatory Citation
	<p>approximately 6-inches thick of reinforced concrete. At closing the waste was stabilized with a resulting thickness of 2 to 3 feet. Over the stabilized waste was added approximately 10-feet of low permeability structural fill, 3-feet of low permeability clay, and a 6-inch reinforced concrete surface liner.</p> <p>The preliminary plans for the construction over the West SET are to:</p> <ul style="list-style-type: none">· Remove the existing concrete cap and repave the area so that the drainage is more suited to the planned future operating unit.· Construct/place new equipment on top of the basin which will consist of tanks, piping, pipe supports, and related components.· Utilize structural footings that will consist of helical piles through the clay cap, structural fill, and, minimally, into the stabilized waste. The helical piles will not penetrate or come in contact with the bottom concrete liner.· Seal the outside edges of the new concrete footings and		

Permit/Compliance Plan Application Appendix/Section	Brief Description of Proposed Change	Modification or Amendment Type	Supporting Regulatory Citation
	<p>helical piles with expanding bentonite clay to ensure that there is no vertical pathway for rainwater to enter the landfill.</p> <ul style="list-style-type: none"> · In addition to the bentonite seal, the replaced concrete and clay cap will be reconstructed next to the bentonite discussed above. <p>It is important to note that the bottom of the closed landfill will not be penetrated and that the newly replaced clay and concrete cap will meet or exceed the vertical permeability specifications of the existing cap (10-7 cm/sec of less) to prevent water penetration into the closed landfill cell. Groundwater monitoring required by compliance plan CP-50099 will continue on schedule as required.</p> <p>Please also note that, as we have discussed during our pre-submittal phone calls, a 100% design plan is not available currently; however, a conceptual design and closure plan for the purposes of this modification is located in Section V-Engineering, Attachment 5.xxx. The revised conceptual design and</p>		

Permit/Compliance Plan Application Appendix/Section	Brief Description of Proposed Change	Modification or Amendment Type	Supporting Regulatory Citation
	closure plan is expected to begin soon after the permit modification is issued by the TCEQ. Documentation of construction will be on-going during the project, and, upon completion of the construction, a revised Closure Certification Report will be submitted to the TCEQ.		

Part B, Section I

Required mailing lists and adjacent landowners have been revised. Required public notice and published notice are expected.

Item I.G.1 – State and Local Officials Mailing Addresses

STATE OFFICIALS LIST (May 2024)
SHELL USA, INC.
DEER PARK, TEXAS

STATE OFFICIALS LIST

THE HONORABLE CAROL ALVARADO
TEXAS SENATOR
DISTRICT 6
P.O. BOX 12068
CAPITOL STATION
AUSTIN, TX 78711
(512) 463-0106
[REDACTED]

THE HONORABLE MARY ANN PEREZ
TEXAS HOUSE OF REPRESENTATIVES
DISTRICT 144
P.O. BOX 2910, ROOM E2, 406
AUSTIN, TX 78711
(512) 463-0460
[REDACTED]

LOCAL OFFICIALS LIST

MAYOR JERRY MOUTON JR
CITY OF DEER PARK
PO BOX 700
DEER PARK, TX 77536
(281) 479-2394
[REDACTED]

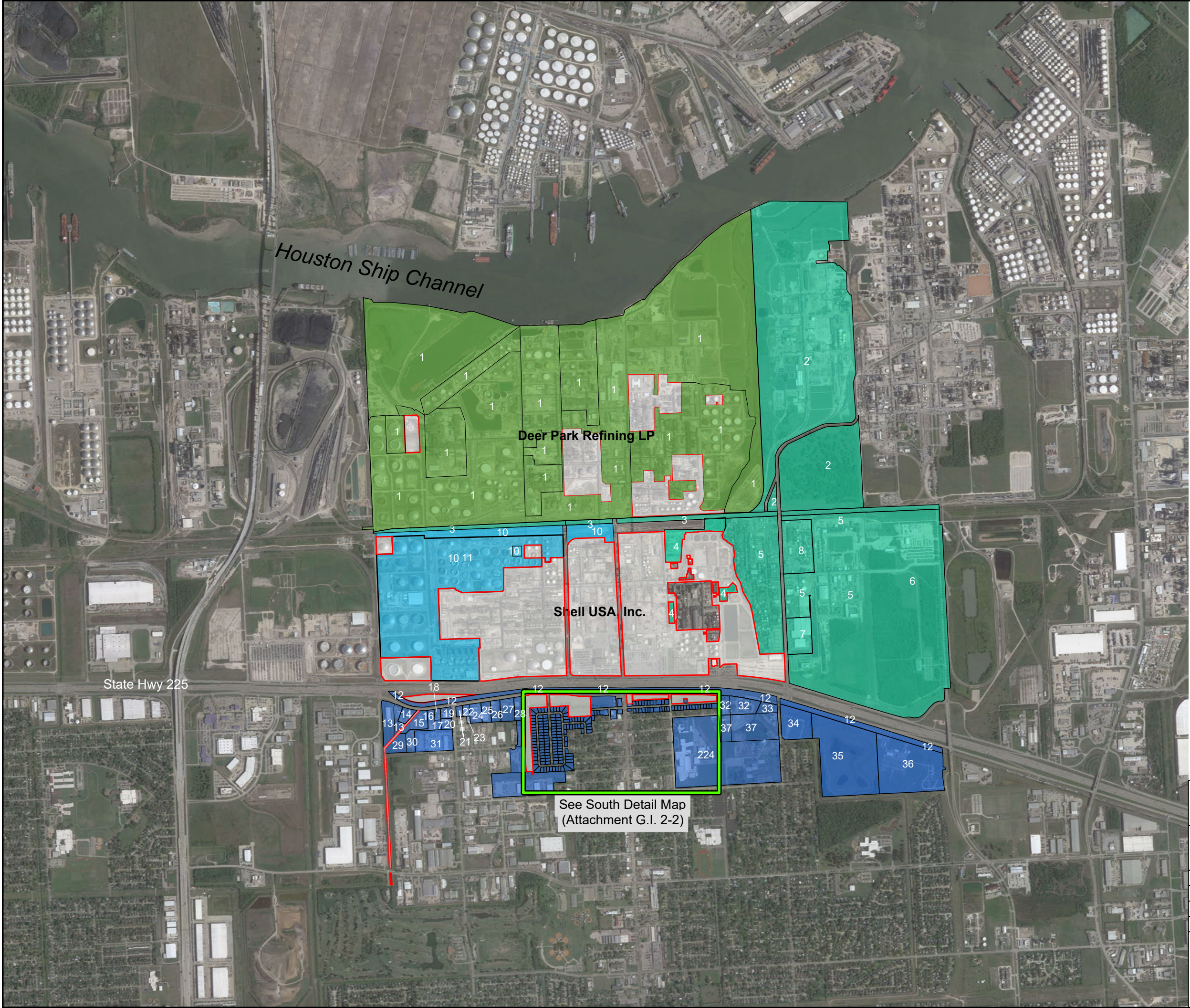
LINA HIDALGO
HARRIS COUNTY JUDGE
1001 PRESTON, SUITE 911
HOUSTON, TX 77002
(713) 274-7000
[REDACTED]

BARBIE ROBINSON MPP JD CHC
EXECUTIVE DIRECTOR
HARRIS COUNTY PUBLIC HEALTH AND
ENVIRONMENTAL SERVICES
1111 FANNIN STREET
HOUSTON, TX 77002
(713) 439-6000
[REDACTED]

JAY STOKES
CITY MANAGER
CITY OF DEER PARK
BOARD OF HEALTH
P.O. BOX 700
DEER PARK, TX 77536
(281) 478-7246
[REDACTED]

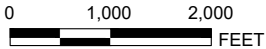
*multiple requests for a work email address went unanswered

Item I.G.2 – Adjacent Landowner Map and List



LEGEND

- Facility Boundary
- Adjacent East
- Adjacent West
- Adjacent North
- Adjacent South



1" = 2,000'
1:24,000

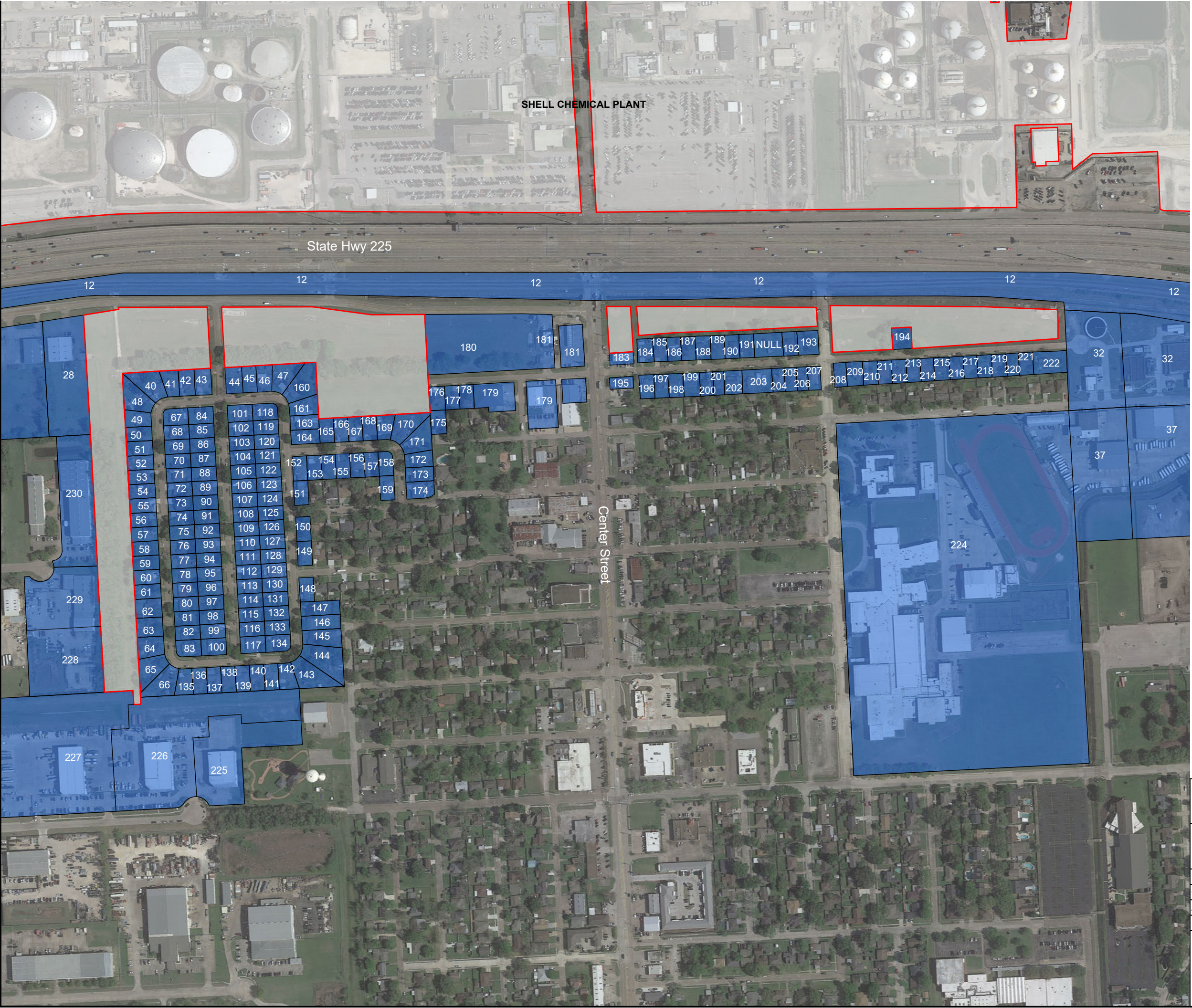
SHELL USA. INC.

ADJACENT LANDOWNER MAP



DRAWN: JB	SCALE:	PROJ. NO. 117-RPS-221217
CHECKED: B. ELLINGTON	GRAPHIC	FILE NO. 117-RPS221217 LO
APPROVED: B. ELLINGTON	DATE PRINTED:	ATTACHMENT I.G. 2-1
DATE: FEBRUARY 2022	REVISED 2/7/2022	

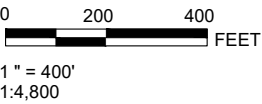


4801 Southwest Parkway
Parkway 2, Suite 150
Austin, Texas 78735
512-347-7588



LEGEND

-  Facility Boundary
-  Adjacent South



SHELL USA. INC.

**ADJACENT LANDOWNER MAP
(SOUTH DETAIL)**

DRAWN: JB	SCALE: GRAPHIC	PROJ. NO. 117-RPS-221217
CHECKED: B. ELLINGTON	DATE PRINTED: 2/7/2022	FILE NO. 117-RPS221217 LO
APPROVED: B. ELLINGTON	DATE: FEBRUARY 2022	ATTACHMENT I.G. 2-2



4801 Southwest Parkway
Parkway 2, Suite 150
Austin, Texas 78735
512-347-7588

Attachment I.G.2 – Adjacent Landowners List

Adjacent Parcels NORTH

ID	Quadrant	Name	Harris County Account No.	Mailing Address				Physical Address		
				Address	City	State	Zip Code	Address	City	Zip Code
1	N	DEER PARK REFINING LP	0440500000177 0440500000180 0440500000178 0440500000188 0440500000213 0440500000217 0451410000019 0440500000015 0402180020001 0440500000186	5900 HIGHWAY 225	DEER PARK	TX	77536-2434	5600 HIGHWAY 225	DEER PARK	78536
2	N	OXY VINYLs LP	0440500000015 0402180020045	PO BOX 27570	HOUSTON	TX	77227-7570	1000 TIDAL RD	DEER PARK	77536
3	N	PORT OF HOUSTON AUTHORITY	0451410000010	111 EAST LOOP N	HOUSTON	TX	77029-4326	0 EXEMPT	PASADENA	77536

Adjacent Parcels EAST

ID	Quadrant	Name	Harris County Account No.	Mailing Address				Physical Address		
				Address	City	State	Zip Code	Address	City	Zip Code
4	E	DEER PARK REFINING LP	0440500000177	5900 HIGHWAY 225	DEER PARK	TX	77536-2434	5600 HIGHWAY 225	DEER PARK	77536
5	E	LUBRIZOL CORP	0440500000004 0440500000010 0440500000146 0440500000175 0440500000192 0440500000347	PO BOX 158	DEER PARK	TX	77536-0158	41 TIDAL RD	DEER PARK	77536
6	E	LUBRIZOL CORP	0440500000259	PO BOX 158	DEER PARK	TX	77536-0158	0 HIGHWAY 225 #1	DEER PARK	77536
7	E	DELTA DELUXE LLC	0440500000206 0440500000218	ATTN PAUL HUSTON VP 425 WINTER RD	DELAWARE	OH	43015-8903	334 TIDAL RD	DEER PARK	77536
8	E	PRAXAIR INC	0440500000017	10 RIVERVIEW DR	DANBURY	CT	06810-6268	622 TIDAL RD	DEER PARK	77536

Adjacent Parcels WEST

ID	Quadrant	Name	Harris County Account No.	Mailing Address				Physical Address		
				Address	City	State	Zip Code	Address	City	Zip Code
10	W	DEER PARK REFINING LP	0440500000188 0402180020019 0402180020013	PROPERTY TAX DEPT 5900 HIGHWAY 225	DEER PARK	TX	77536-2434	5600 HIGHWAY 225	HOUSTON	77536
11	W	DEER PARK REFINING LP	0402180020054 0402180020055	717 TEXAS ST STE 1000	HOUSTON	TX	77002-2743	5600 HIGHWAY 225	DEER PARK	77536

Adjacent Parcels SOUTH

ID	Quadrant	Name	Harris County Account No.	Mailing Address				Physical Address		
				Address	City	State	Zip Code	Address	City	Zip Code
12	S	SOUTHERN PACIFIC RAILROAD COMPANY	0402180020004	1400 DOUGLAS ST STOP 1640	OMAHA	NE	68179-1001	0 R R PROPERTY	PASADENA	77536
13	S	DEERWOOD CIRCLE LLC	1344910010001	4207 FAIRMONT PKWY	PASADENA	TX	77504-3324	4800 RAILROAD ST	DEER PARK	77536
14	S	GSL PARTNERS SUB SEVEN LP	1053050000046	5858 WESTHEIMER RD STE 800	HOUSTON	TX	77057-5777	4820 RAILROAD ST	PASADENA	77503
15	S	GSL PARTNERS SUB SEVEN LP	1053050000052	5858 WESTHEIMER RD STE 800	HOUSTON	TX	77057-5777	4840 RAILROAD ST	DEER PARK	77536
16	S	DEER PARK COMMERCIAL PROPERTIES LLC	1342990010001	2800 BROADWAY ST STE C	PEARLAND	TX	77581-9503	4900 RAILROAD ST	DEER PARK	77536
17	S	DEER PARK COMMERCIAL PROPERTIES LLC	1342990010002	2800 BROADWAY ST STE C	PEARLAND	TX	77581-9503	0 RAILROAD ST	DEER PARK	77536
18	S	DEER PARK COMMERCIAL PROPERTIES LLC	1342990010003	4734 SWAN CREST CT	LEAGUE CITY	TX	77573-1593	4904 RAILROAD ST	DEER PARK	77536
19	S	AMTODD LP	1053050000007	4912 RAILROAD ST	DEER PARK	TX	77536-2411	4912 HIGHWAY 225	DEER PARK	77536
20	S	DEER PARK COMMERCIAL PROPERTIES LLC	1342990010004	2800 BROADWAY ST STE C	PEARLAND	TX	77581-9503	200 GEORGIA ST	DEER PARK	77536
21	S	5002 RAILROAD LLC	1053050000029	10715 TARRINGTON DR	HOUSTON	TX	77024-3127	5002 RAILROAD AVE	DEER PARK	77536
22	S	PLS TEXAS LLC	1053050000030	PO BOX 198	SHERIDAN	TX	77475-0198	5006 RAILROAD ST	DEER PARK	77536
23	S	PLS TEXAS LLC	1053050000034	PO BOX 198	SHERIDAN	TX	77475-0198	0 GEORGIA AVE	DEER PARK	77536
24	S	5110 RAILROAD AVENUE LLC	1053050000021	2800 BROADWAY ST STE C	PEARLAND	TX	77581-9503	5110 RAILROAD ST	DEER PARK	77536
25	S	5114 RAILROAD LLC	1053050000010	10715 TARRINGTON DR	HOUSTON	TX	77024-3127	5114 RAILROAD AVE	DEER PARK	77536
26	S	INTEGRITY TESTING & INSPECTION INCORP	1053050000012	3861 VINCENT STATION DR	OWENSBORO	KY	42303-9315	5206 RAILROAD AVE	DEER PARK	77536

Attachment I.G.2 – Adjacent Landowners List

Adjacent Parcels SOUTH (continued)

ID	Quadrant	Name	Harris County Account No.	Mailing Address				Physical Address		
				Address	City	State	Zip Code	Address	City	Zip Code
27	S	AIRGAS USA LLC	1053050000016	110 W 7TH ST STE 1400	TULSA	OK	74119-1077	5310 RAILROAD AVE	DEER PARK	77536
28	S	JERZY II LLC	1053050000011	301 CARDINAL RUN APT 311	HOUSTON	TX	77077-0022	5026 RAILROAD ST	DEER PARK	77536
29	S	DEER PARK COMMERCIAL PROPERTIES LLC	1342990010005	4734 SWAN CREST CT	LEAGUE CITY	TX	77573-1593	0 GEORGIA ST	DEER PARK	77536
30	S	DEER PARK COMMERCIAL PROPERTIES LLC	1342990010006	2800 BROADWAY ST STE C	PEARLAND	TX	77581-9503	210 GEORGIA ST	DEER PARK	77536
31	S	FELDY'S LLC	1053050000006	9601 KATY FWY STE 470	HOUSTON	TX	77024-1348	316 GEORGIA AVE	DEER PARK	77536
32	S	CITY OF DEER PARK	0113190000056	PO BOX 700	DEER PARK	TX	77536-0700	528 E 2ND ST	DEER PARK	77536
33	S	DEER PARK I S D	01131900000614	2800 TEXAS AVE	DEER PARK	TX	77536-4797	0 E 8TH ST	DEER PARK	77536
34	S	CITY OF DEER PARK	01131900000001	PO BOX 700	DEER PARK	TX	77536-0700	6406 HIGHWAY 225	DEER PARK	77536
35	S	CITY OF DEER PARK	04405000000030	PO BOX 700	DEER PARK	TX	77536-0700	0 HIGHWAY 225	DEER PARK	77536
36	S	MIDCON TEXAS PIPELINE CORP	04405000000055	PO BOX 4372	HOUSTON	TX	77210-4372	6402 HIGHWAY 225	DEER PARK	77536
37	S	DEER PARK I S D	01131900000230	2800 TEXAS AVE	DEER PARK	TX	77536-4797	0 E 8TH ST	DEER PARK	77536

Adjacent Parcels SOUTH INSET

ID	Quadrant	Name	Harris County Account No.	Mailing Address				Physical Address		
				Address	City	State	Zip Code	Address	City	Zip Code
12	S	SOUTHERN PACIFIC RAILROAD COMPANY	0402180020004	1400 DOUGLAS ST STOP 1640	OMAHA	NE	68179-1001	0 R R PROPERTY	PASADENA	77536
40	S	DEVLIN DANIEL JAY	0813690000004	130 LINDA ST	DEER PARK	TX	77536-2649	130 LINDA ST	DEER PARK	77536
41	S	COX ROBERT T & JAMIE L	0813690000003	126 LINDA ST	DEER PARK	TX	77536-2649	126 LINDA ST	DEER PARK	77536
42	S	TILLERY CAROL B	0813690000002	122 LINDA ST	DEER PARK	TX	77536-2649	122 LINDA ST	DEER PARK	77536
43	S	STINNETT SUSAN R	0813690000001	118 LINDA ST	DEER PARK	TX	77536-2649	118 LINDA ST	DEER PARK	77536
44	S	MORENO JOSE M & MARGARITA	0813720000001	117 IRENE ST	DEER PARK	TX	77536-2642	117 IRENE ST	DEER PARK	77536
45	S	JOHNSON BILLY R	0813720000002	125 IRENE ST	DEER PARK	TX	77536-2642	121 IRENE ST	DEER PARK	77536
46	S	JOHNSON BILLY R	0813720000003	125 IRENE ST	DEER PARK	TX	77536-2642	125 IRENE ST	DEER PARK	77536
47	S	MILLS CLINTON I	0813720000004	129 IRENE ST	DEER PARK	TX	77536-2642	129 IRENE ST	DEER PARK	77536
48	S	TOVAR DAVID ANTONIO & SANDRA I PLAZA	0813690000005	134 LINDA ST	DEER PARK	TX	77536-2649	134 LINDA ST	DEER PARK	77536
49	S	HANSEN BRETT W	0813690000006	202 LINDA ST	DEER PARK	TX	77536-2651	202 LINDA ST	DEER PARK	77536
50	S	JACKSON CHRISTOPHER PAUL	0813690000007	3909 SHADOW POINT DR	LEAGUE CITY	TX	77573-3795	206 LINDA ST	DEER PARK	77536
51	S	ZAMORA YESSSENIA	0813690000008	210 LINDA ST	DEER PARK	TX	77536-2651	210 LINDA ST	DEER PARK	77536
52	S	SALAS OSCAR	0813690000009	214 LINDA ST	DEER PARK	TX	77536-2651	214 LINDA ST	DEER PARK	77536
53	S	CARDENAS NELLIE	0813690000010	218 LINDA ST	DEER PARK	TX	77536-2651	218 LINDA ST	DEER PARK	77536
54	S	TIPTON ANTHONY R & LINDA S	0813690000011	1613 TULSA ST	DEER PARK	TX	77536-4723	222 LINDA ST	DEER PARK	77536
55	S	MADRIGAL CAROLINA	0813690000012	226 LINDA ST	DEER PARK	TX	77536-2651	226 LINDA ST	DEER PARK	77536
56	S	MYERS STEPHEN	0813690000013	114 EL NOPAL	BLANCO	TX	78606-5803	230 LINDA ST	DEER PARK	77536
57	S	GOMEZ ADAM C	0813690000014	302 LINDA ST	DEER PARK	TX	77536-2653	302 LINDA ST	DEER PARK	77536
58	S	NGUYEN ELIZAETH ADRIANA	0813690000015	306 LINDA ST	DEER PARK	TX	77536-2653	306 LINDA ST	DEER PARK	77536
59	S	MCGINNIS FRED GRAY	0813690000016	310 LINDA ST	DEER PARK	TX	77536-2653	310 LINDA ST	DEER PARK	77536
60	S	MENDOZA JOSE L	0813690000017	314 LINDA ST	DEER PARK	TX	77536-2653	314 LINDA ST	DEER PARK	77536
61	S	SOLIS MARIA E	0813690000018	318 LINDA ST	DEER PARK	TX	77536-2653	318 LINDA ST	DEER PARK	77536
62	S	AGUIRRE SERGIO	0813690000019	322 LINDA ST	DEER PARK	TX	77536-2653	322 LINDA ST	DEER PARK	77536
63	S	WEISS JOSHUA G	0813690000020	326 LINDA ST	DEER PARK	TX	77536-2653	326 LINDA ST	DEER PARK	77536
64	S	CUELLO STEPHEN P	0813690000022	334 LINDA ST	DEER PARK	TX	77536-2653	334 LINDA ST	DEER PARK	77536
65	S	REVILS DARAY B	0813690000023	338 LINDA ST	DEER PARK	TX	77536-2653	338 LINDA ST	DEER PARK	77536
66	S	ESTRADA ERIK	0813690000024	342 LINDA ST	DEER PARK	TX	77536-2653	342 LINDA ST	DEER PARK	77536
67	S	HERNANDEZ BENILDE	0813700000001	201 LINDA ST	DEER PARK	TX	77536-2650	201 LINDA ST	DEER PARK	77536
68	S	LOBO YESENIA DORALY	0813700000002	205 LINDA ST	DEER PARK	TX	77536-2650	205 LINDA ST	DEER PARK	77536
69	S	WOTIPKA TY R & TRACY A	04405000000015	209 LINDA ST	DEER PARK	TX	77536-2650	209 LINDA ST	DEER PARK	77536
70	S	BENAVIDES IVIS ESPERANZA	0813700000004	213 LINDA ST	DEER PARK	TX	77536-2650	213 LINDA ST	DEER PARK	77536
71	S	KRUEGER-HENDON TONI A	0813700000005	4802 MISTLETOE RD	PASADENA	TX	77505-2145	217 LINDA ST	DEER PARK	77536
72	S	GONZALES RODOLFO G	0813700000006	221 LINDA ST	DEER PARK	TX	77536-2650	221 LINDA ST	DEER PARK	77536
73	S	CHAPMON RHONDA	0813700000007	225 LINDA ST	DEER PARK	TX	77536-2650	225 LINDA ST	DEER PARK	77536
74	S	BRUMFIELD ERIC T & AMANDA	0813700000008	229 LINDA ST	DEER PARK	TX	77536-2650	229 LINDA ST	DEER PARK	77536
75	S	FENDLEY CLYDE H	0813700000009	2213 LAWRENCE LN	DEER PARK	TX	77536-4220	301 LINDA ST	DEER PARK	77536
76	S	DOMINGUEZ ITZEL	0813700000010	3517 RAMSEY DR	PASADENA	TX	77503-2743	305 LINDA ST	DEER PARK	77536
77	S	ELSIK FRANK J IV	0813700000011	309 LINDA ST	DEER PARK	TX	77536-2652	309 LINDA ST	DEER PARK	77536

Attachment I.G.2 – Adjacent Landowners List

Adjacent Parcels SOUTH INSET (continued)

ID	Quadrant	Name	Harris County Account No.	Mailing Address				Physical Address		
				Address	City	State	Zip Code	Address	City	Zip Code
78	S	COMEAX KATHIE	0813700000012	313 LINDA ST	DEER PARK	TX	77536-2652	313 LINDA ST	DEER PARK	77536
79	S	NESTER BAMBI RIOS	0813700000013	317 LINDA ST	DEER PARK	TX	77536-2652	317 LINDA ST	DEER PARK	77536
80	S	MIRELES JEREMY & STEPHANIE	0813700000014	321 LINDA ST	DEER PARK	TX	77536-2652	321 LINDA ST	DEER PARK	77536
81	S	OEHLER LAUREN	0813700000015	325 LINDA ST	DEER PARK	TX	77536-2652	325 LINDA ST	DEER PARK	77536
82	S	SCOTT CATHERINE	0813700000016	329 LINDA ST	DEER PARK	TX	77536-2652	329 LINDA ST	DEER PARK	77536
83	S	MCSHAN HUGH & PATRICIA	0813700000017	333 LINDA ST	DEER PARK	TX	77536-2652	333 LINDA ST	DEER PARK	77536
84	S	HAYSLETT REBECCA ANN	0813700000034	202 ROBIN ST	DEER PARK	TX	77536-2659	202 ROBIN ST	DEER PARK	77536
85	S	RHODES TERRY D & LISA R	0813700000033	206 ROBIN ST	DEER PARK	TX	77536-2659	206 ROBIN ST	DEER PARK	77536
86	S	CREIGHTON CHARLES ALBERT	0813700000032	210 ROBIN ST	DEER PARK	TX	77536-2659	210 ROBIN ST	DEER PARK	77536
87	S	MILLER ERIC M & JENNIFER C	0813700000031	214 ROBIN ST	DEER PARK	TX	77536-2659	214 ROBIN ST	DEER PARK	77536
88	S	THORNHILL CATHERINE M	0813700000030	218 ROBIN ST	DEER PARK	TX	77536-2659	218 ROBIN ST	DEER PARK	77536
89	S	TREVINO JUDITH & GUADALUPE	0813700000029	3826 WHITE WINGS LN	DEER PARK	TX	77536-2538	222 ROBIN ST	DEER PARK	77536
90	S	TOLL JASON	0813700000028	226 ROBIN ST	DEER PARK	TX	77536-2659	226 ROBIN ST	DEER PARK	77536
91	S	LOPEZ HILDA	0813700000027	230 ROBIN ST	DEER PARK	TX	77536-2659	230 ROBIN ST	DEER PARK	77536
92	S	ABNER JONATHAN E & CRYSTAL N	0813700000026	302 ROBIN ST	DEER PARK	TX	77536-2661	302 ROBIN ST	DEER PARK	77536
93	S	WERNER RONALD S & MARY	0813700000025	306 ROBIN ST	DEER PARK	TX	77536-2661	306 ROBIN ST	DEER PARK	77536
94	S	WOOD GARY C	0813700000024	310 ROBIN ST	DEER PARK	TX	77536-2661	310 ROBIN ST	DEER PARK	77536
95	S	DWCW HOLDINGS LLC SERIES E	0813700000023	2231 B CENTER ST STE 252	DEER PARK	TX	77536	314 ROBIN ST	DEER PARK	77536
96	S	YANEZ NICOLAS	0813700000022	318 ROBIN ST	DEER PARK	TX	77536-2661	318 ROBIN ST	DEER PARK	77536
97	S	MENDOZA SYLVIA H	0813700000021	585 W. PARKTOWN DR	DEER PARK	TX	77536-5745	322 ROBIN ST	DEER PARK	77536
98	S	RASMUSSEN CHRIS	0813700000020	326 ROBIN ST	DEER PARK	TX	77536-2661	326 ROBIN ST	DEER PARK	77536
99	S	SALAZAR RENE & LORENA	0813700000019	330 ROBIN ST	DEER PARK	TX	77536-2661	330 ROBIN ST	DEER PARK	77536
100	S	TORRES ISAAC D	0813700000018	334 ROBIN ST	DEER PARK	TX	77536-2661	334 ROBIN ST	DEER PARK	77536
101	S	PRYOR CURTIS E	0813710000001	201 ROBIN ST	DEER PARK	TX	77536-2658	201 ROBIN ST	DEER PARK	77536
102	S	CARAVEO ADRIAN M	0813710000003	205 ROBIN ST	DEER PARK	TX	77536-2658	205 ROBIN ST	DEER PARK	77536
103	S	ALVAREZ JULIA M	0440500000015	209 ROBIN ST	DEER PARK	TX	77536-2658	209 ROBIN ST	DEER PARK	77536
104	S	MOEN STEVEN P & MONA O	0813710000004	213 ROBIN ST	DEER PARK	TX	77536-2658	213 ROBIN ST	DEER PARK	77536
105	S	PILLAI G K	0813710000005	10100 EAST FWY STE 203	HOUSTON	TX	77029-1965	217 ROBIN ST	DEER PARK	77536
106	S	WARREN DENNIS C	0813710000006	221 ROBIN ST	DEER PARK	TX	77536-2658	221 ROBIN ST	DEER PARK	77536
107	S	SHOOK ASHLEY	0813710000007	13907 KINGSRIDE LN	HOUSTON	TX	77079-3314	225 ROBIN ST	DEER PARK	77536
108	S	KENT DAVID K & LISA R	0813710000008	229 ROBIN ST	DEER PARK	TX	77536-2658	229 ROBIN ST	DEER PARK	77536
109	S	CHAPMAN TINA P	0813710000009	301 ROBIN ST	DEER PARK	TX	77536-2660	301 ROBIN ST	DEER PARK	77536
110	S	JONES JERRY L SR	0813710000010	305 ROBIN ST	DEER PARK	TX	77536-2660	305 ROBIN ST	DEER PARK	77536
111	S	PLUMB WILLIAM M	0813710000011	309 ROBIN ST	DEER PARK	TX	77536-2660	309 ROBIN ST	DEER PARK	77536
112	S	TUCKER TRAVIS N	0813710000012	313 ROBIN ST	DEER PARK	TX	77536-2660	313 ROBIN ST	DEER PARK	77536
113	S	RUSSELL DIXIE LEE	0813710000013	317 ROBIN ST	DEER PARK	TX	77536-2660	317 ROBIN ST	DEER PARK	77536
114	S	HAVARD MARION & PORTIA	0813710000014	18706 DROTTWICH DR	HUMBLE	TX	77346-2638	321 ROBIN ST	DEER PARK	77536
115	S	PARCHMONT JAMES S	0813710000015	325 ROBIN ST	DEER PARK	TX	77536-2660	325 ROBIN ST	DEER PARK	77536
116	S	GERACI AMANDA WILSON	0813710000016	329 ROBIN ST	DEER PARK	TX	77536-2660	329 ROBIN ST	DEER PARK	77536
117	S	BERNAL CHRISTINA M	0813710000017	333 ROBIN ST	DEER PARK	TX	77536-2660	333 ROBIN ST	DEER PARK	77536
118	S	CAMPBELL JOSEPHINE P	0813710000034	2306 RIVERLAWN DR	KINGWOOD	TX	77339-2432	202 IRENE ST	DEER PARK	77536
119	S	FORD WILLIAM JACOB RUTGERS	0813710000033	206 IRENE ST	DEER PARK	TX	77536-2645	206 IRENE ST	DEER PARK	77536
120	S	WIGGINS TOMMY J	0813710000032	210 IRENE ST	DEER PARK	TX	77536-2645	210 IRENE ST	DEER PARK	77536
121	S	ESPINOZA ANGELA	0813710000031	1010 SHORE ACRES BLVD	DEER PARK	TX	77536	214 IRENE ST	DEER PARK	77536
122	S	RODGERS DANNY H	0813710000030	218 IRENE ST	DEER PARK	TX	77536-2645	218 IRENE ST	DEER PARK	77536
123	S	HOOPER RAYMOND DALE	0813710000029	222 IRENE ST	DEER PARK	TX	77536-2645	222 IRENE ST	DEER PARK	77536
124	S	LEAVITT LINDSEY	0813710000028	410 W FORREST	DEER PARK	TX	77536-4022	226 IRENE ST	DEER PARK	77536
125	S	GUZMAN MARIA E	0813710000027	230 IRENE ST	DEER PARK	TX	77536-2645	230 IRENE ST	DEER PARK	77536
126	S	CISNEROS SANDRA LUZ MARTINEZ	0813710000026	302 IRENE ST	DEER PARK	TX	77536-2647	302 IRENE ST	DEER PARK	77536
127	S	PALACIOS LEONOR & MARGARITA	0813710000025	2430 KINGSDALE DR	DEER PARK	TX	77536-5832	306 IRENE ST	DEER PARK	77536
128	S	MASON NICOLE ANN & MARK WILLIAM	0813710000024	310 IRENE ST	DEER PARK	TX	77536-2647	310 IRENE ST	DEER PARK	77536
129	S	MORALES ROGELIO H	0813710000023	314 IRENE ST	DEER PARK	TX	77536-2647	314 IRENE ST	DEER PARK	77536
130	S	PURYEAR JAMES R	0813710000022	318 IRENE ST	DEER PARK	TX	77536-2647	318 IRENE ST	DEER PARK	77536
131	S	BAKER JAY DAVID	0813710000021	322 IRENE ST	DEER PARK	TX	77536-2647	322 IRENE ST	DEER PARK	77536
132	S	GOODMAN DONALD KETH	0813710000020	326 IRENE ST	DEER PARK	TX	77536-2647	326 IRENE ST	DEER PARK	77536
133	S	FRONEBERGER ROBERT G	0813710000019	330 IRENE ST	DEER PARK	TX	77536-2647	330 IRENE ST	DEER PARK	77536
134	S	TAYLOR KRYSTAL	0813710000018	334 IRENE ST	DEER PARK	TX	77536-2647	334 IRENE ST	DEER PARK	77536

Attachment I.G.2 – Adjacent Landowners List

Adjacent Parcels SOUTH INSET (continued)

ID	Quadrant	Name	Harris County Account No.	Mailing Address				Physical Address		
				Address	City	State	Zip Code	Address	City	Zip Code
135	S	FREEMAN PHILLIP & ANNA L	0813690000025	346 LINDA ST	DEER PARK	TX	77536-2653	346 LINDA ST	DEER PARK	77536
136	S	BARKDULL JAY	0813690000026	1506 GARDEN CT	DEER PARK	TX	77536-3643	350 LINDA ST	DEER PARK	77536
137	S	ROCHELL CURTIS & SUSANN	0813690000027	354 LINDA ST	DEER PARK	TX	77536-2653	354 LINDA ST	DEER PARK	77536
138	S	FALCONER EMMETT L JR & CYNTHIA L	0813690000028	3517 KNOB HILL ST	DEER PARK	TX	77536-5029	358 LINDA ST	DEER PARK	77536
139	S	LEWIS NANCY L	0813690000029	357 IRENE ST	DEER PARK	TX	77536-2646	357 IRENE ST	DEER PARK	77536
140	S	TINDALL JAMES E JR	0813690000030	353 IRENE ST	DEER PARK	TX	77536-2646	353 IRENE ST	DEER PARK	77536
141	S	WELDON MARGARET F	0813690000031	349 IRENE ST	DEER PARK	TX	77536-2646	349 IRENE ST	DEER PARK	77536
142	S	ESTRADA JESUS H DELGADO	0813690000032	345 IRENE ST	DEER PARK	TX	77536-2646	345 IRENE ST	DEER PARK	77536
143	S	MOSQUEDA JORGE G	0813690000033	341 IRENE ST	DEER PARK	TX	77536-2646	341 IRENE ST	DEER PARK	77536
144	S	MARQUEZ ARMANDO & SILVIA	0813690000034	2801 PARKGLEN ST	DEER PARK	TX	77536-5123	337 IRENE ST	DEER PARK	77536
145	S	DAVIS JOSEPH & RUTH	0813690000035	333 IRENE ST	DEER PARK	TX	77536-2646	333 IRENE ST	DEER PARK	77536
146	S	HAVARD MARION R & PORTIA A	0813690000036	329 IRENE ST	DEER PARK	TX	77536-2646	329 IRENE ST	DEER PARK	77536
147	S	VARGAS JORGE	0813690000037	79014 SATIRA	HOUSTON	TX	77012	325 IRENE ST	DEER PARK	77536
148	S	BURLEIGH CHARLA D	0813750000001	4207 FERNSIDE DR	PASADENA	TX	77505-4226	237 W 4TH ST	DEER PARK	77536
149	S	HAYES TIFFANY A	0813740000026	238 W 4TH ST	DEER PARK	TX	77536-2620	238 4TH ST	DEER PARK	77536
150	S	BURLEIGH CHARLA D	0813740000001	4207 FERNSIDE DR	PASADENA	TX	77505-4226	237 W 3RD	DEER PARK	77536
151	S	WHEELER CLIFFORD W	0813730000014	238 W 3RD ST	DEER PARK	TX	77536-2616	238 W 3RD ST	DEER PARK	77536
152	S	MATUSEK JOHN	0813730000001	3305 D H WATKINS	DEER PARK	TX	77536-5758	237 MAXIE ST	DEER PARK	77536
153	S	TRIPLETT SHERRI L	0440500000015	233 MAXIE ST	DEER PARK	TX	77536-2656	223 MAXIE ST	DEER PARK	77536
154	S	YANEZ ROBERTO	0813730000003	7437 ELRIDGE	DEER PARK	TX	77536-6048	229 MAXIE ST	DEER PARK	77536
155	S	WAMBLE WILLIAM E & MARSHA	0813730000004	225 MAXIE ST	DEER PARK	TX	77536-2656	225 MAXIE ST	DEER PARK	77536
156	S	SCHULZE JULIA ANN	0813730000005	221 MAXIE ST	DEER PARK	TX	77536-2656	221 MAXIE ST	DEER PARK	77536
157	S	WILSON CLARA	0813730000006	217 MAXIE ST	DEER PARK	TX	77536-2656	217 MAXIE ST	DEER PARK	77536
158	S	SIMS BRENDA S	0813730000007	213 MAXIE ST	DEER PARK	TX	77536-2656	213 MAXIE ST	DEER PARK	77536
159	S	MORENO BRIANNA M	0813730000008	214 W 3RD ST	DEER PARK	TX	77536-2616	214 W 3RD ST	DEER PARK	77536
160	S	PEREZ JESSE L	0813720000005	133 IRENE ST	DEER PARK	TX	77536	133 IRENE ST	DEER PARK	77536
161	S	VALLE PRISCILLA	0813720000006	201 IRENE ST	DEER PARK	TX	77536-2644	201 IRENE ST	DEER PARK	77536
163	S	JOHNSON BILLY R	0813720000007	125 IRENE ST	DEER PARK	TX	77536-2642	205 IRENE ST	DEER PARK	77536
164	S	GUERRA CASANDRA G	0813720000008	209 IRENE ST	DEER PARK	TX	77536-2644	209 IRENE ST	DEER PARK	77536
165	S	WILSON SHERILL ANITA	0813720000009	238 MAXIE ST	DEER PARK	TX	77536-2657	238 MAXIE ST	DEER PARK	77536
166	S	GUAJARDO BRYAN JAY	0813720000010	234 MAXIE ST	DEER PARK	TX	77536-2657	234 MAXIE ST	DEER PARK	77536
167	S	TANNER T S	0813720000011	230 MAXIE ST	DEER PARK	TX	77536-2657	230 MAXIE ST	DEER PARK	77536
168	S	LOPEZ DONATO JR	0813720000012	5910 JARBROOK DR	HOUSTON	TX	77087-5304	226 MAXIE ST	DEER PARK	77536
169	S	VELAZQUEZ URIEL	0813720000013	222 MAXIE ST	DEER PARK	TX	77536-2657	222 MAXIE ST	DEER PARK	77536
170	S	MARTINEZ JAE L Y	0813720000014	218 MAXIE ST	DEER PARK	TX	77536-2657	218 MAXIE ST	DEER PARK	77536
171	S	LOPEZ EDUARDO	0813720000015	214 MAXIE ST	DEER PARK	TX	77536-2657	214 MAXIE ST	DEER PARK	77536
172	S	ALANIZ IGNACIO A	0813720000016	210 MAXIE ST	DEER PARK	TX	77536-2657	210 MAXIE ST	DEER PARK	77536
173	S	HARRIS PAIGE	0813720000017	PO BOX 890031	HOUSTON	TX	77289-0031	206 MAXIE ST	DEER PARK	77536
174	S	NEIDIG KEVIN S & MONICA	0813720000018	202 MAXIE ST	DEER PARK	TX	77536-2657	202 MAXIE ST	DEER PARK	77536
175	S	MORLEY KAREN SUE	0381700050049	217 W 2ND ST	DEER PARK	TX	77536-2607	217 W 2ND ST	DEER PARK	77536
176	S	PUENTE AGUSTIN	0381700050050	220 W 1ST ST	DEER PARK	TX	77536-2604	220 W 1ST ST	DEER PARK	77536
177	S	GEORGE STACEY & DAVID	0381700050048	216 W 1ST ST	DEER PARK	TX	77536-2604	216 W 1ST ST	DEER PARK	77536
178	S	BILLINGHAM EDWARD RONALD	0381700050007	212 W 1ST ST	DEER PARK	TX	77536-2604	212 W 1ST ST	DEER PARK	77536
179	S	RAO HOLDINGS LLC	1386700010001	PO BOX 1896	DEER PARK	TX	77536-1896	102 ELM ST	DEER PARK	77536
180	S	TEXAS PETROLEUM GROUP LLC #253	0381700050046	11111 WILCREST GREEN DR STE 100	HOUSTON	TX	77042-4739	0 RAILROAD ST	DEER PARK	77536
181	S	TEXAS PETROLEUM GROUP LLC #253	0641450010004	11111 WILCREST GREEN DR STE 100	HOUSTON	TX	77042-4739	8 CENTER ST	DEER PARK	77536
183	S	RELEASE PROPERTIES 4 LTD	0641460010009	6604 BAYWAY DR	BAYTOWN	TX	77520-1718	11 CENTER ST	DEER PARK	77536
184	S	WILKINSON DAVID N & BRANDY	0641460010026	109 E 1ST ST	DEER PARK	TX	77536-2701	109 1ST ST	DEER PARK	77536
185	S	SUAREZ ROBERTO	0641460010027	113 E 1ST ST	DEER PARK	TX	77536-2701	113 1ST ST	DEER PARK	77536
186	S	SUAREZ JOEL C & MAGDALENA	0641460010028	119 E 1ST ST	DEER PARK	TX	77536-2701	119 1ST ST	DEER PARK	77536
187	S	GARZA JESUS S & TANZIE FAITH	0641460010029	125 E 1ST ST	DEER PARK	TX	77536-2701	125 E 1ST ST	DEER PARK	77536
188	S	JOHNSON LARRY D & JULIA	0641460010030	129 E 1ST ST	DEER PARK	TX	77536-2701	129 1ST ST	DEER PARK	77536
189	S	GHAFOOR RASHID	0641460010032	201 E 1ST ST	DEER PARK	TX	77536-2703	201 E 1ST ST	DEER PARK	77536
190	S	LOTT BILLY R	0641460010033	11101 N P ST	LA PORTE	TX	77571-9343	205 E 1ST ST	DEER PARK	77536
191	S	BEASLEY DANNY	0641460010034	211 E 1ST ST	DEER PARK	TX	77536-2703	211 E 1ST ST	DEER PARK	77536
192	S	VALENCIA VILLA LIMITED PARTNERSHIP	0641460010038	1414 S RICHEY # 15	PASADENA	TX	77502-1852	229 E 1ST ST	DEER PARK	77536
193	S	TOP ONE HOUSING LLC	0641460010039	9597 JONES RD STE 967	HOUSTON	TX	77065-4815	233 E 1ST ST	DEER PARK	77536
194	S	CURRENT OWNER	0641460020028	PO BOX 1113	DEER PARK	TX	77536-1113	321 E 1ST ST	DEER PARK	77536

Attachment I.G.2 – Adjacent Landowners List

Adjacent Parcels SOUTH INSET (continued)

ID	Quadrant	Name	Harris County Account No.	Mailing Address				Physical Address		
				Address	City	State	Zip Code	Address	City	Zip Code
195	S	THOMAS SIDNEY S	0641470030001	9004 TRI CITY BEACH RD	BAYTOWN	TX	77523-8258	101 CENTER ST	DEER PARK	77536
196	S	RAWLS TIM	0641470030009	305 E HIGHLINE	DEER PARK	TX	77536-4170	110 E 1ST ST	DEER PARK	77536
197	S	THORP DANIEL RAY	0641470030010	114 E 1ST ST	DEER PARK	TX	77536-2702	114 E 1ST ST	DEER PARK	77536
198	S	PETERSON ERIC L	0641470030011	120 E 1ST ST	DEER PARK	TX	77536-2702	120 E 1ST ST	DEER PARK	77536
199	S	NARANJO RICHARD ANTHONY	0641470030012	126 E 1ST ST	DEER PARK	TX	77536-2702	126 E 1ST ST	DEER PARK	77536
200	S	CORNEJO ERIC	0641470030014	130 E 1ST ST	DEER PARK	TX	77536-2702	130 E 1ST ST	DEER PARK	77536
201	S	LOPEZ ARACELI B	0641470030015	3308 DARLING AVE	PASADENA	TX	77503-1324	202 E 1ST ST	DEER PARK	77536
202	S	DELACRUZ LUCERO	0641470030016	206 E 1ST ST	DEER PARK	TX	77536-2704	206 E 1ST ST	DEER PARK	77536
203	S	CLARK JONATHAN ANDREW LEWIS	0641470030017	214 E 1ST ST	DEER PARK	TX	77536-2704	214 E 1ST ST	DEER PARK	77536
204	S	HERNANDEZ ERICK L	0641470030040	222 E 1ST ST	DEER PARK	TX	77536-2704	222 E 1ST ST	DEER PARK	77536
205	S	HUANG SHOUJIAN	0641470030020	9907 WILLOWBRIDGE PARK BLVD	HOUSTON	TX	77064-8830	226 E 1ST ST	DEER PARK	77536
206	S	STEVEN L COWART INVESTMENTS LLC SERIES A	0641470030022	416 EMERSON ST	HOUSTON	TX	77006-4507	230 E 1ST ST	DEER PARK	77536
207	S	PETROVIC DINO	0641470030023	234 E 1ST ST	DEER PARK	TX	77536-2704	234 E 1ST ST	DEER PARK	77536
208	S	ALVARADO ABEL D	0641470040001	302 E 1ST ST	DEER PARK	TX	77536-2706	302 E 1ST ST	DEER PARK	77536
209	S	HERNANDEZ MARCELINO	0641470040002	10802 W JEWEL BEND LN	HOUSTON	TX	77075-2121	306 E 1ST ST	DEER PARK	77536
210	S	SANCHEZ YADIRA	0641470040003	312 E 1ST ST	DEER PARK	TX	77536-2706	312 E 1ST ST	DEER PARK	77536
211	S	CLARK JANETH L & JULIAN L	0641470040004	4231 NOBLE OAK RL	HOUSTON	TX	77059	318 E 1ST ST	DEER PARK	77536
212	S	JOY INVESTMENT INC RETIRMENT PLAN	0641470040005	6443 FAIRMONT PKWY STE 140 #188	PASADENA	TX	77505-4359	322 E 1ST ST	DEER PARK	77536
213	S	MICHELLE SHANNON	0641470040007	2602 PICKERTON DR	DEER PARK	TX	77536-5850	326 E 1ST ST	DEER PARK	77536
214	S	MORALES RAMIRO	0641470040008	330 E 1ST ST	DEER PARK	TX	77536-2706	330 E 1ST ST	DEER PARK	77536
215	S	PAINTER THORNTON S & ASHLEIGH ELIZABETH	0641470040046	325 E 2ND ST	DEER PARK	TX	77536-2729	338 E 1ST ST	DEER PARK	77536
216	S	GLOOR EDWINA A	0641470040010	406 E 1ST ST	DEER PARK	TX	77536-2708	406 E 1ST ST	DEER PARK	77536
217	S	GARCIA JESSE JR	0641470040011	410 E 1ST ST	DEER PARK	TX	77536-2708	410 E 1ST ST	DEER PARK	77536
218	S	CORRERA HERIBERTO	0641470040013	414 E 1ST ST	DEER PARK	TX	77536-2708	414 E 1ST ST	DEER PARK	77536
219	S	TODARO FELIX	0641470040014	418 E 1ST ST	DEER PARK	TX	77536-2708	418 E 1ST ST	DEER PARK	77536
220	S	DIAZ DIANA	0641470040015	802 IVY AVE	DEER PARK	TX	77536-3220	424 E 1ST ST	DEER PARK	77536
221	S	SURADA JARRETT F	0641470040016	430 E 1ST ST	DEER PARK	TX	77536-2708	430 E 1ST ST	DEER PARK	77536
222	S	BURKE RHODA	0641470040017	119 W 6TH ST	DEER PARK	TX	77536-2625	434 E 1ST ST	DEER PARK	77536
32	S	CITY OF DEER PARK	0113190000056							
34	S	CITY OF DEER PARK	0113190000029	PO BOX 700	DEER PARK	TX	77536-0700	528 E 2ND ST	DEER PARK	77536
35	S	CITY OF DEER PARK	0113190000001	PO BOX 700	DEER PARK	TX	77536-0700	6406 HIGHWAY 225	DEER PARK	77536
35	S	CITY OF DEER PARK	0440500000030	PO BOX 700	DEER PARK	TX	77536-0700	0 HIGHWAY 225	DEER PARK	77536
224	S	DEER PARK ISD	0381690000001	2800 TEXAS AVE	DEER PARK	TX	77536-4797	402 IVY AVE	DEER PARK	77536
37	S	DEER PARK ISD	01131900000230							
225	S	DEER PARK ISD	01131900000420	2800 TEXAS AVE	DEER PARK	TX	77536-4797	0 E 8TH ST	DEER PARK	77536
225	S	GSL PARTNERS SUB 51 LLC	1360020010002	5858 WESTHEIMER RD STE 800	HOUSTON	TX	77057-5777	1001 8TH ST	DEER PARK	77536
226	S	GSL PARTNERS SUB 51 LLC	1360020010001	5858 WESTHEIMER RD STE 800	HOUSTON	TX	77057-5777	1005 W 8TH ST	DEER PARK	77536
227	S	GSL PARTNERS SUB 51 LLC	1389110010001	5858 WESTHEIMER RD STE 800	HOUSTON	TX	77057-5777	1101 W 8TH ST	DEER PARK	77536
228	S	NNN REIT INC	1053050000031	450 S ORANGE AVE STE 900	ORLANDO	FL	32801-3339	0 HOWARD DR	DEER PARK	77536
229	S	NNN REIT INC	1053050000037	450 S ORANGE AVE STE 900	ORLANDO	FL	32801-3339	1110 HOWARD DR	DEER PARK	77536
230	S	WELCOME INDUSTRIAL SUB 20 LLC	1053050000045	5858 WESTHEIMER RD STE 800	HOUSTON	TX	77057-5777	1113 HOWARD DR	DEER PARK	77536
28	S	HERZY II LLC	1053050000011	301 CARDINAL RUN APT 311	HOUSTON	TX	77077-0022	5026 RAILROAD ST	DEER PARK	77536

Item I.G.3 – CD of Adjacent Landowners Mailing Labels

Labels for Mailed Notice (Attachment I.G.2)

PERMIT NO. 50099
SHELL USA, INC.

OXY VINYL LP
PO BOX 27570
HOUSTON TX 77227-7570

PORT OF HOUSTON
AUTHORITY
111 EAST LOOP N
HOUSTON TX 77029-4326

DEER PARK REFINING LP
5900 HIGHWAY 225
DEER PARK TX 77536-2434

LUBRIZOL CORP
PO BOX 158
DEER PARK TX 77536-0158

LUBRIZOL CORP
PO BOX 158
DEER PARK TX 77536-0158

DELTA DELUXE LLC
ATTN PAUL HUSTON VP
425 WINTER RD
DELAWARE OH 43015-8903

PRAXAIR INC
10 RIVERVIEW DR
DANBURY CT 06810-6268

DEER PARK REFINING LP
PROPERTY TAX DEPT
5900 HIGHWAY 225
DEER PARK TX 77536-2434

DEER PARK REFINING LP
717 TEXAS ST STE 1000
HOUSTON TX 77002-2743

SOUTHERN PACIFIC RAILROAD
COMPANY
1400 DOUGLAS ST STOP 1640
OMAHA NE 68179-1001

DEERWOOD CIRCLE LLC
4207 FAIRMONT PKWY
PASADENA TX 77504-3324

GSL PARTNERS SUB SEVEN LP
5858 WESTHEIMER RD STE 800
HOUSTON TX 77057-5777

GSL PARTNERS SUB SEVEN LP
5858 WESTHEIMER RD STE 800
HOUSTON TX 77057-5777

DEER PARK COMMERCIAL
PROPERTIES LLC
2800 BROADWAY ST STE C
PEARLAND TX 77581-9503

DEER PARK COMMERCIAL
PROPERTIES LLC
2800 BROADWAY ST STE C
PEARLAND TX 77581-9503

DEER PARK COMMERCIAL
PROPERTIES LLC
4734 SWAN CREST CT
LEAGUE CITY TX 77573-1593

AMTODD LP
4912 RAILROAD ST
DEER PARK TX 77536-2411

DEER PARK COMMERCIAL
PROPERTIES LLC
2800 BROADWAY ST STE C
PEARLAND TX 77581-9503

5002 RAILROAD LLC
10715 TARRINGTON DR
HOUSTON TX 77024-3127

PLS TEXAS LLC
PO BOX 198
SHERIDAN TX 77475-0198

PLS TEXAS LLC
PO BOX 198
SHERIDAN TX 77475-0198

5110 RAILROAD AVENUE LLC
2800 BROADWAY ST STE C
PEARLAND TX 77581-9503

5114 RAILROAD LLC
10715 TARRINGTON DR
HOUSTON TX 77024-3127

INTEGRITY TESTING & INSPECTION
INCORP
3861 VINCENT STATION DR
OWENSBORO KY 42303-9315

AIRGAS USA LLC
110 W 7TH ST STE 1400
TULSA OK 74119-1077

JERZY II LLC
301 CARDINAL RUN APT 311
HOUSTON TX 77077-0022

DEER PARK COMMERCIAL
PROPERTIES LLC
4734 SWAN CREST CT
LEAGUE CITY TX 77573-1593

DEER PARK COMMERCIAL
PROPERTIES LLC
2800 BROADWAY ST STE C
PEARLAND TX 77581-9503

Labels for Mailed Notice (Attachment I.G.2)

PERMIT NO. 50099
SHELL USA, INC.

CITY OF DEER PARK
PO BOX 700
DEER PARK TX 77536-0700

DEER PARK I S D
2800 TEXAS AVE
DEER PARK TX 77536-4797

CITY OF DEER PARK
PO BOX 700
DEER PARK TX 77536-0700

CITY OF DEER PARK
PO BOX 700
DEER PARK TX 77536-0700

MIDCON TEXAS PIPELINE CORP
PO BOX 4372
HOUSTON TX 77210-4372

DEER PARK I S D
2800 TEXAS AVE
DEER PARK TX 77536-4797

SOUTHERN PACIFIC RAILROAD
COMPANY
1400 DOUGLAS ST STOP 1640
OMAHA NE 68179-1001

DEVLIN DANIEL JAY
130 LINDA ST
DEER PARK TX 77536-2649

COX ROBERT T & JAMIE L
126 LINDA ST
DEER PARK TX 77536-2649

TILLERY CAROL B
122 LINDA ST
DEER PARK TX 77536-2649

STINNETT SUSAN R
118 LINDA ST
DEER PARK TX 77536-2649

MORENO JOSE M & MARGARITA
117 IRENE ST
DEER PARK TX 77536-2642

JOHNSON BILLY R
125 IRENE ST
DEER PARK TX 77536-2642

JOHNSON BILLY R
125 IRENE ST
DEER PARK TX 77536-2642

MILLS CLINTON I
129 IRENE ST
HOUSTON TX 77536-2642

TOVAR DAVID ANTONIO &
SANDRA I PLAZA
134 LINDA ST
DEER PARK TX 77536-2649

HANSEN BRETT W
202 LINDA ST
DEER PARK TX 77536-2651

JACKSON CHRISTOPHER PAUL
3909 SHADOW POINT DR
LEAGUE CITY TX 77573-3795

ZAMORA YESSSENIA
210 LINDA ST
DEER PARK TX 77536-2651

SALAS OSCAR
214 LINDA ST
DEER PARK TX 77536-2651

CARDENAS NELLIE
218 LINDA ST
DEER PARK TX 77536-2651

TIPTON ANTHONY R & LINDA S
1613 TULSA ST
DEER PARK TX 77536-4723

MADRIGAL CAROLINA
226 LINDA ST
DEER PARK TX 77536-2651

MYERS STEPHEN
114 EL NOPAL
BLANCO TX 78606-5803

GOMEZ ADAM C
302 LINDA ST
DEER PARK TX 77536-2653

NGUYEN ELIZAETH ADRIANA
306 LINDA ST
DEER PARK TX 77536-2653

MCGINNIS FRED GRAY
310 LINDA ST
DEER PARK TX 77536-2653

MENDOZA JOSE L
314 LINDA ST
DEER PARK TX 77536-2653

Labels for Mailed Notice (Attachment I.G.2)

PERMIT NO. 50099
SHELL USA, INC.

AGUIRRE SERGIO
322 LINDA ST
DEER PARK TX 77536-2653

WEISS JOSHUA G
326 LINDA ST
DEER PARK TX 77536-2653

CUELLO STEPHEN P
334 LINDA ST
DEER PARK TX 77536-2653

REVILS DARAY B
338 LINDA ST
DEER PARK TX 77536-2653

ESTRADA ERIK
342 LINDA ST
DEER PARK TX 77536-2653

HERNANDEZ BENILDE
201 LINDA ST
DEER PARK TX 77536-2653

LOBO YESENIA DORALY
205 LINDA ST
DEER PARK TX 77536-2650

WOTIPKA TY R & TRACY A
209 LINDA ST
DEER PARK TX 77536-2650

BENAVIDES IVIS ESPERANZA
213 LINDA ST
DEER PARK TX 77536-2650

KRUEGER-HENDON TONI A
4802 MISTLETOE RD
PASADENA TX 77505-2145

GONZALES RODOLFO G
221 LINDA ST
DEER PARK TX 77536-2650

CHAPMON RHONDA
225 LINDA ST
DEER PARK TX 77536-2650

BRUMFIELD ERIC T & AMANDA
229 LINDA ST
DEER PARK TX 77536-2650

FENDLEY CLYDE H
2213 LAWRENCE LN
DEER PARK TX 77536-4220

DOMINGUEZ ITZEL
3517 RAMSEY DR
PASADENA TX 77503-2743

ELSIK FRANK J IV
309 LINDA ST
DEER PARK TX 77536-2652

COMEAX KATHIE
313 LINDA ST
DEER PARK TX 77536-2652

NESTER BAMBI RIOS
317 LINDA ST
DEER PARK TX 77536-2652

MIRELES JEREMY & STEPHANIE
321 LINDA ST
DEER PARK TX 77536-2652

OEHLER LAUREN
325 LINDA ST
DEER PARK TX 77536-2652

SCOTT CATHERINE
329 LINDA ST
DEER PARK TX 77536-2652

MCSHAN HUGH & PATRICIA
333 LINDA ST
DEER PARK TX 77536-2652

HAYSLETT REBECCA ANN
202 ROBIN ST
DEER PARK TX 77536-2659

RHODES TERRY D & LISA R
206 ROBIN ST
DEER PARK TX 77536-2659

CREIGHTON CHARLES ALBERT
210 ROBIN ST
DEER PARK TX 77536-2659

MILLER ERIC M & JENNIFER C
214 ROBIN ST
DEER PARK TX 77536-2659

THORNHILL CATHERINE M
218 ROBIN ST
DEER PARK TX 77536-2659

TREVINO JUDITH & GUADALUPE
3826 WHITE WINGS LN
DEER PARK TX 77536-2538

TOLL JASON
226 ROBIN ST
DEER PARK TX 77536-2659

Labels for Mailed Notice (Attachment I.G.2)

PERMIT NO. 50099
SHELL USA, INC.

ABNER JONATHAN E & CRYSTAL N
302 ROBIN ST
DEER PARK TX 77536-2661

WERNER RONALD S & MARY
306 ROBIN ST
DEER PARK TX 77536-2661

WOOD GARY C
310 ROBIN ST
DEER PARK TX 77536-2661

DWCW HOLDINGS LLC SERIES E
2231 B CENTER ST STE 252
DEER PARK TX 77536

YANEZ NICOLAS
318 ROBIN ST
DEER PARK TX 77536-2661

MENDOZA SYLVIA H
585 W. PARKTOWN DR
DEER PARK TX 77536-5745

RASMUSSEN CHRIS
326 ROBIN ST
DEER PARK TX 77536-2661

SALAZAR RENE & LORENA
330 ROBIN ST
DEER PARK TX 77536-2661

TORRES ISAAC D
334 ROBIN ST
DEER PARK TX 77536-2661

PRYOR CURTIS E
201 ROBIN ST
DEER PARK TX 77536-2658

CARAVEO ADRIAN M
205 ROBIN ST
DEER PARK TX 77536-2658

ALVAREZ JULIA M
209 ROBIN ST
DEER PARK TX 77536-2658

MOEN STEVEN P & MONA O
213 ROBIN ST
DEER PARK TX 77536-2658

PILLAI G K
10100 EAST FWY STE 203
HOUSTON TX 77029-1965

WARREN DENNIS C
221 ROBIN ST
DEER PARK TX 77536-2658

SHOOK ASHLEY
13907 KINGSRIDE LN
HOUSTON TX 77079-3314

KENT DAVID K & LISA R
229 ROBIN ST
DEER PARK TX 77536-2658

CHAPMAN TINA P
301 ROBIN ST
DEER PARK TX 77536-2660

JONES JERRY L SR
305 ROBIN ST
DEER PARK TX 77536-2660

PLUMB WILLIAM M
309 ROBIN ST
DEER PARK TX 77536-2660

TUCKER TRAVIS N
313 ROBIN ST
DEER PARK TX 77536-2660

RUSSELL DIXIE LEE
317 ROBIN ST
DEER PARK TX 77536-2660

HAVARD MARION & PORTIA
18706 DROTTWICH DR
HUMBLE TX 77346-2638

PARCHMONT JAMES S
325 ROBIN ST
DEER PARK TX 77536-2660

GERACI AMANDA WILSON
329 ROBIN ST
DEER PARK TX 77536-2660

BERNAL CHRISTINA M
333 ROBIN ST
DEER PARK TX 77536-2660

CAMPBELL JOSEPHINE P
2306 RIVERLAWN DR
KINGWOOD TX 77339-2432

FORD WILLIAM JACOB RUTGERS
206 IRENE ST
DEER PARK TX 77536-2645

WIGGINS TOMMY J
210 IRENE ST
DEER PARK TX 77536-2645

Labels for Mailed Notice (Attachment I.G.2)

PERMIT NO. 50099
SHELL USA, INC.

RODGERS DANNY H
218 IRENE ST
DEER PARK TX 77536-2645

HOOVER RAYMOND DALE
222 IRENE ST
DEER PARK TX 77536-2645

LEAVITT LINDSEY
410 W FORREST
DEER PARK TX 77536-4022

GUZMAN MARIA E
230 IRENE ST
DEER PARK TX 77536-2645

CISNEROS SANDRA LUZ
MARTINEZ
302 IRENE ST
DEER PARK TX 77536-2647

PALACIOS LEONOR &
MARGARITA
2430 KINGSDALE DR
DEER PARK TX 77536-5832

MASON NICOLE ANN & MARK
WILLIAM
310 IRENE ST
DEER PARK TX 77536-2647

MORALES ROGELIO H
314 IRENE ST
DEER PARK TX 77536-2647

PURYEAR JAMES R
318 IRENE ST
DEER PARK TX 77536-2647

BAKER JAY DAVID
322 IRENE ST
DEER PARK TX 77536-2647

GOODMAN DONALD KEITH
326 IRENE ST
DEER PARK TX 77536-2647

FRONEBERGER ROBERT G
330 IRENE ST
DEER PARK TX 77536-2647

TAYLOR KRYSTAL
334 IRENE ST
DEER PARK TX 77536-2647

FREEMAN PHILLIP & ANNA L
346 LINDA ST
DEER PARK TX 77536-2653

BARKDULL JAY
1506 GARDEN CT
DEER PARK TX 77536-3643

ROCHELL CURTIS & SUSANN
354 LINDA ST
DEER PARK TX 77536-2653

FALCONER EMMETT L JR &
CYNTHIA L
3517 KNOB HILL ST
DEER PARK TX 77536-5029

LEWIS NANCY L
357 IRENE ST
DEER PARK TX 77536-2646

TINDALL JAMES E JR
353 IRENE ST
DEER PARK TX 77536-2646

WELDON MARGARET F
349 IRENE ST
DEER PARK TX 77536-2646

ESTRADA JESUS H DELGADO
345 IRENE ST
DEER PARK TX 77536-2646

MOSQUEDA JORGE G
341 IRENE ST
DEER PARK TX 77536-2646

MARQUEZ ARMANDO & SILVIA
2801 PARKGLEN ST
DEER PARK TX 77536-5123

DAVIS JOSEPH & RUTH
333 IRENE ST
DEER PARK TX 77536-2646

HAVARD MARION R & PORTIA A
329 IRENE ST
DEER PARK TX 77536-2646

VARGAS JORGE
79014 SATIRA
HOUSTON TX 77012

BURLEIGH CHARLA D
4207 FERNSIDE DR
PASADENA TX 77505-4226

HAYES TIFFANY A
238 W 4TH ST
DEER PARK TX 77536-2620

BURLEIGH CHARLA D
4207 FERNSIDE DR
PASADENA TX 77505-4226

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PERMIT NO. 50099
SHELL USA, INC.

MATUSEK JOHN
3305 D H WATKINS
DEER PARK TX 77536-5758

TRIPLETT SHERRI L
233 MAXIE ST
DEER PARK TX 77536-2656

YANEZ ROBERTO
7437 ELRIDGE
DEER PARK TX 77536-6048

WAMBLE WILLIAM E & MARSHA
225 MAXIE ST
DEER PARK TX 77536-2656

SCHULZE JULIA ANN
221 MAXIE ST
DEER PARK TX 77536-2656

WILSON CLARA
217 MAXIE ST
DEER PARK TX 77536-2656

SIMS BRENDA S
213 MAXIE ST
DEER PARK TX 77536-2656

MORENO BRIANNA M
214 W 3RD ST
DEER PARK TX 77536-2616

PEREZ JESSE L
133 IRENE ST
DEER PARK TX 77536

VALLE PRISCILLA
201 IRENE ST
DEER PARK TX 77536-2644

JOHNSON BILLY R
125 IRENE ST
DEER PARK TX 77536-2642

GUERRA CASANDRA G
209 IRENE ST
DEER PARK TX 77536-2644

WILSON SHERILL ANITA
238 MAXIE ST
DEER PARK TX 77536-2657

GUAJARDO BRYAN JAY
234 MAXIE ST
DEER PARK TX 77536-2657

TANNER J S
230 MAXIE ST
DEER PARK TX 77536-2657

LOPEZ DONATO JR
5910 JARBROOK DR
HOUSTON TX 77087-5304

VELAZQUEZ URIEL
222 MAXIE ST
DEER PARK TX 77536-2657

MARTINEZ JAE L Y
218 MAXIE ST
DEER PARK TX 77536-2657

LOPEZ EDUARDO
214 MAXIE ST
DEER PARK TX 77536-2657

ALANIZ IGNACIO A
210 MAXIE ST
DEER PARK TX 77536-2657

HARRIS PAIGE
PO BOX 890031
HOUSTON TX 77289-0031

NEIDIG KEVIN S & MONICA
202 MAXIE ST
DEER PARK TX 77536-2657

MORLEY KAREN SUE
217 W 2ND ST
DEER PARK TX 77536-2607

PUENTE AGUSTIN
220 W 1ST ST
DEER PARK TX 77536-2604

GEORGE STACEY & DAVID
216 W 1ST ST
DEER PARK TX 77536-2604

BILLINGHAM EDWARD RONALD
212 W 1ST ST
DEER PARK TX 77536-2604

RAO HOLDINGS LLC
PO BOX 1896
DEER PARK TX 77536-1896

TEXAS PETROLEUM GROUP LLC
#253
11111 WILCREST GREEN DR STE
100
HOUSTON TX 77042-4739

TEXAS PETROLEUM GROUP
LLC #253
11111 WILCREST GREEN DR
STE 100
HOUSTON TX 77042-4739

Labels for Mailed Notice (Attachment I.G.2)

PERMIT NO. 50099
SHELL USA, INC.

WILKINSON DAVID N & BRANDY
109 E 1ST ST
DEER PARK TX 77536-2701

SUAREZ ROBERTO
113 E 1ST ST
DEER PARK TX 77536-2701

SUAREZ JOEL C & MAGDALENA
119 E 1ST ST
DEER PARK TX 77536-2701

GARZA JESUS S & TANZIE FAITH
125 E 1ST ST
DEER PARK TX 77536-2701

JOHNSON LARRY D & JULIA
129 E 1ST ST
DEER PARK TX 77536-2701

GHAFOOR RASHID
201 E 1ST ST
DEER PARK TX 77536-2703

LOTT BILLY R
11101 N P ST
LA PORTE TX 77571-9343

BEASLEY DANNY
211 E 1ST ST
DEER PARK TX 77536-2703

VALENCIA VILLA LIMITED
PARTNERSHIP
1414 S RICHEY # 15
PASADENA TX 77502-1852

TOP ONE HOUSING LLC
9597 JONES RD STE 967
HOUSTON TX 77065-4815

CURRENT OWNER
PO BOX 1113
DEER PARK TX 77536-1113

THOMAS SIDNEY S
9004 TRI CITY BEACH RD
BAYTOWN TX 77523-8258

RAWLS TIM
305 E HIGHLINE
DEER PARK TX 77536-4170

THORP DANIEL RAY
114 E 1ST ST
DEER PARK TX 77536-2702

PETERSON ERIC L
120 E 1ST ST
DEER PARK TX 77536-2702

NARANJO RICHARD ANTHONY
126 E 1ST ST
DEER PARK TX 77536-2702

CORNEJO ERIC
130 E 1ST ST
DEER PARK TX 77536-2702

LOPEZ ARACELI B
3308 DARLING AVE
PASADENA TX 77503-1324

DELACRUZ LUCERO
206 E 1ST ST
DEER PARK TX 77536-2704

CLARK JONATHAN ANDREW
LEWIS
214 E 1ST ST
DEER PARK TX 77536-2704

HERNANDEZ ERICK L
222 E 1ST ST
DEER PARK TX 77536-2704

HUANG SHOUJIAN
9907 WILLOWBRIDGE PARK BLVD
HOUSTON TX 77064-8830

STEVEN L COWART
INVESTMENTS LLC SERIES A
416 EMERSON ST
HOUSTON TX 77006-4507

PETROVIC DINO
234 E 1ST ST
DEER PARK TX 77536-2704

ALVARADO ABEL D
302 E 1ST ST
DEER PARK TX 77536-2706

HERNANDEZ MARCELINO
10802 W JEWEL BEND LN
HOUSTON TX 77075-2121

SANCHEZ YADIRA
312 E 1ST ST
DEER PARK TX 77536-2706

CLARK JANETH L & JULIAN L
4231 NOBLE OAK RL
HOUSTON TX 77059

JOY INVESTMENT INC
RETIRMENT PLAN
6443 FAIRMONT PKWY STE 140
#188
PASADENA TX 77505-4359

Labels for Mailed Notice (Attachment I.G.2)

PERMIT NO. 50099
SHELL USA, INC.

MORALES RAMIRO
330 E 1ST ST
DEER PARK TX 77536-2706

PAINTER THORNTON S &
ASHLEIGH ELIZABETH
325 E 2ND ST
DEER PARK TX 77536-2729

GLOOR EDWINA A
406 E 1ST ST
DEER PARK TX 77536-2708

GARCIA JESSE JR
410 E 1ST ST
DEER PARK TX 77536-2708

CORRERA HERIBERTO
414 E 1ST ST
DEER PARK TX 77536-2708

TODARO FELIX
418 E 1ST ST
DEER PARK TX 77536-2708

DIAZ DIANA
802 IVY AVE
DEER PARK TX 77536-3220

SURADA JARRETT F
430 E 1ST ST
DEER PARK TX 77536-2708

BURKE RHODA
119 W 6TH ST
DEER PARK TX 77536-2625

CITY OF DEER PARK
PO BOX 700
DEER PARK TX 77536-0700

CITY OF DEER PARK
PO BOX 700
DEER PARK TX 77536-0700

CITY OF DEER PARK
PO BOX 700
DEER PARK TX 77536-0700

DEER PARK ISD
2800 TEXAS AVE
DEER PARK TX 77536-4797

DEER PARK ISD
2800 TEXAS AVE
DEER PARK TX 77536-4797

GSL PARTNERS SUB 51 LLC
5858 WESTHEIMER RD STE 800
HOUSTON TX 77057-5777

GSL PARTNERS SUB 51 LLC
5858 WESTHEIMER RD STE 800
HOUSTON TX 77057-5777

GSL PARTNERS SUB 51 LLC
5858 WESTHEIMER RD STE 800
HOUSTON TX 77057-5777

NNN REIT INC
450 S ORANGE AVE STE 900
ORLANDO FL 32801-3339

NNN REIT INC
450 S ORANGE AVE STE 900
ORLANDO FL 32801-3339

WELCOME INDUSTRIAL SUB 20
LLC
5858 WESTHEIMER RD STE 800
HOUSTON TX 77057-5777

JERZY II LLC
301 CARDINAL RUN APT 311
HOUSTON TX 77077-0022

DEER PARK REFINING LP
5900 HIGHWAY 225
DEER PARK TX 77536-2434

FELDYS LLC
9601 KATY FWY STE 470
HOUSTON TX 77024-1348

SOLIS MARIA E
318 LINDA ST
DEER PARK TX 77536-2653

LOPEZ HILDA
230 ROBIN ST
DEER PARK TX 77536-2659

ESPINOZA ANGELA
1010 SHORE ACRES BLVD
DEER PARK TX 77536

WHEELER CLIFFORD W
238 W 3RD ST
DEER PARK TX 77536-2616

KELEASE PROPERTIES 4 LTD
6604 BAYWAY DR
BAYTOWN TX 77520-1718

MICHELLI SHANNON
2602 PICKERTON DR
DEER PARK TX 77536-5850

Part B, Section I.H

The revised and signed Core Data Form is included.

Item I.H – 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
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 604542012		RN 100211879

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		XX/XX/2024	
<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)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Shell USA, Inc.					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
0001320306		11312998906		13-1299890	008090938
11. Type of Customer:		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
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		<input type="checkbox"/> Other:	
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:		PO Box 4525			
City		Houston		State	TX
ZIP		77210		ZIP + 4	
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
18. Telephone Number			19. Extension or Code		20. Fax Number (if applicable)

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
<input type="checkbox"/> New Regulated Entity <input checked="" type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
Shell Deer Park Chemicals								
23. Street Address of the Regulated Entity: (No PO Boxes)	5900 Highway 255							
	City	Deer Park	State	TX	ZIP	77536	ZIP + 4	2434
24. County	Harris							

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

25. Description to Physical Location:										
26. Nearest City						State			Nearest ZIP Code	
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>										
27. Latitude (N) In Decimal:						28. Longitude (W) In Decimal:				
Degrees	Minutes		Seconds		Degrees	Minutes		Seconds		
29	42		55		95	7		34		
29. Primary SIC Code (4 digits)		30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)			32. Secondary NAICS Code (5 or 6 digits)			
2821		2865		325211			424690			
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)										
34. Mailing Address:	5900 Highway 225									
	City	Deer Park	State	TX	ZIP	77536	ZIP + 4	2434		
35. E-Mail Address:										
36. Telephone Number			37. Extension or Code			38. Fax Number (if applicable)				
(713) 246-7301						() -				

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 checked="" type="checkbox"/> Industrial Hazardous Waste
				50099
<input 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
<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 checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input checked="" type="checkbox"/> Other:
	WQ0000402			See attachment

SECTION IV: Preparer Information

40. Name:	Nicole Roper	41. Title:	Environmental Team Lead
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(713) 246-7278		() -	

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:	Shell USA, Inc.	Job Title:	General Manager
Name (In Print):	Nathan Levin	Phone:	(713) 246- 6952
Signature:		Date:	6-27-24

Part B, Section II Facility Siting Criteria

Part B, Section III Facility Management

Part B, Section IV Waste and Waste Analysis

These sections have not changed since the last 2022/2023 Class 3 modification and **are not included.**

Part B, Section V Engineering Reports

In addition to past reports that were part of the 2022/2023 Class 3 modification, a new engineering plan *2025 West SET Front End Upgrade Conceptual Cap Modification Plan* has been added.

V. Engineering Reports

Provide all Part B responsive information in Appendix V. When preparing the physical format organize your submittal using the [Format of Hazardous Waste permit Application and Instructions](#).

For multiple units provide an include all Part B responsive information in a separate Appendix for each unit.

The engineering report represents the conceptual basis for the storage, processing, or disposal units at the hazardous waste management (HWM) facility. It should include calculations and other such engineering information as may be necessary to follow the logical development of the facility design. Plans and specifications are an integral part of the report. They should include construction procedures, materials specifications, dimensions, design capacities relative to the volume of wastes (as appropriate), and the information required by 40 CFR 270.14(b)(8), 270.14(b)(10). Since these reports may be incorporated into any issued permit, the report should not include trade names, manufacturers, or vendors of specific materials, equipment, or services unless such information is critical to the technical adequacy of the material. Technical specifications and required performance standards are sufficient to conduct a technical review. For landfills, surface impoundments, and waste piles, a Construction Quality Assurance Plan, which considers the guidance in EPA publication 530-SW-85-014, Minimum Technology Guidance on Double Liner Systems for Landfills and Surface Impoundments; Design, Construction, and Operation, and/or EPA/600/R-93/182, Quality Assurance And Quality Control For Waste Containment Facilities, should be submitted.

For facilities which will receive wastes from off-site sources, the engineering report must also contain information on the units which will manage these off-site wastes in accordance with 30 TAC 335.45(a).

Certain ancillary components or appurtenant devices must be addressed in the Part B application. These include but are not limited to sumps, pipelines, ditches, and canals. The technical information and the level of detail required will vary with the nature, scope, and location of the ancillary component. At a minimum they should be included in descriptions of piping and process flow. More information may be required. A single area containing a large number of ancillary components or a remote appurtenant device in an unusually sensitive location may warrant some specific permit requirements. All ancillary components must be included in calculating closure cost estimates.

In each of the unit-specific sections, describe precautions taken to prevent accidental commingling of incompatible wastes. If reactive or ignitable wastes are to be managed, or if incompatible wastes are deliberately commingled, provide information to ensure that precautions are taken to avoid danger due to:

- generation of extreme heat or pressure, fire, explosion, or violent reaction;
- production of uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health;
- production of uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion;
- damaging the structural integrity of the device or facility containing the waste; or
- threatening human health or the environment by any other means.

Comprehensive consideration should be given to ensure that the facility is designed in accordance with good public health and hazardous waste management practices. The application will be evaluated primarily for the aspects of design covered by the regulations. Nothing in any approval is intended to relieve the facility owner or operator of any liabilities or responsibilities with respect to the design, construction, or operation of the project.

A. General Engineering Reports

1. General Information

Complete Table V.A. - Facility Waste Management Handling Units listing all past, current or proposed units. *[Indicate units' status as Active, Closed, Inactive (built but not yet managing waste), Proposed (not yet built), Never Built, Transferred, or Post-Closure. Indicate appropriate units for Capacity information.]* **Note for renewals and modifications involving adding or dropping units from the permit:** List all TCEQ Permit Unit Numbers that have been assigned previously as in a current permit Attachment D -Authorized Facility Units table and do not reuse or reassign permit numbers for units that have been replaced, closed, removed from the permit, or transferred to other ownership. All Notice of Registration (NOR) Numbers must match the State of Texas Environmental Electronic Reporting System (STEERS) and may not be reused for replacement units.

Provide an overall plan view of the entire facility. Identify each hazardous or industrial solid waste management unit (container storage area, tank, incinerator, etc.) to be permitted in relation to its location and the type of waste managed in that unit. Also provide a plan view at an appropriate scale to clearly show the location of all hazardous waste management units to be permitted on one or more 8 1/2" x 14" sheets. Indicate on this plan view how the design or operation provides for buffer zones or waste segregation as appropriate for incompatible, ignitable, or reactive wastes.

Submit a topographic map or maps of the facility which clearly shows the information specified in 40 CFR 270.14(b)(19), 270.14(c)(3), and 270.14(d)(1)(i) (for large HWM facilities, the TCEQ will allow the use of other scales on a case-by-case basis). Please note that the term "facility" includes all contiguous land, structures, other appurtenances, and improvements on the land for storing, processing, or disposing of hazardous and industrial solid waste.

2. Features to Mitigate Unsuitable Site Characteristics

For all new hazardous waste management storage and/or processing facilities or areal expansions of existing hazardous waste management storage and/or processing facilities, include in the engineering report design, construction, and operational information specified in 30 TAC 335.204(a)(1) and (a)(3) through (9).

3. Construction Schedules

- a. In order to meet the required design standards, extensive retrofitting of some facilities may be required. In the worst case, the applicant may elect to close certain operations rather than comply with the RCRA standards. Thus, the permit may specify a schedule of compliance requiring the accomplishment of given tasks within specific time frames. As required, indicate an appropriate schedule(s) of compliance in this application. The schedule should provide for facility compliance as soon as possible and in accordance with 40 CFR 270.33(a)(2) and 270.33(b).

- b. For commercial hazardous waste management facilities, permit applications (new, renewal, or interim status applications), major amendments, and Class 3 modifications must include a construction schedule. A construction schedule must be submitted even if the application does not include an addition of units or a revision to permitted units. This schedule should comply with the requirements of 30 TAC 305.149.
- 4. Provide detailed plans and specifications which when, accompanied by the engineering report, will be sufficiently detailed and complete to allow the Executive Director to ascertain whether the facility will be constructed and operated in compliance with all pertinent permitting requirements. Engineering plans and specifications must be prepared under the supervision of and sealed by a licensed Professional Engineer, with current license, along with the Registered Engineering Firm's name and Registration Number as required by the Texas Engineering Practice Act. For some facilities, plans in the form of a standard piping and instrumentation diagram will be sufficient. Overall dimensions and materials of construction must be shown.

B. Container Storage Areas - RESERVED

- 1. Provide an engineering report which includes all of the information specified in 40 CFR 264.170-264.173, 264.175-264.177, and 270.15.
Complete Table V.B - Container Storage Areas and list the container storage areas covered by this application to be permitted. List the N.O.R. unit number, the rated capacity or size of each unit (including the maximum number of each type of container to be stored at each unit and total maximum capacity of all types wastes stored in the unit), the areal dimensions, containment volume, aisle space requirements, whether ignitable, reactive, or incompatible waste will be stored in each unit, and whether processing will occur within the unit.
- 2. Container storage areas must have a containment system that is capable of collecting and holding spills, leaks, and precipitation. In addition to the requirements of 40 CFR 270.15, the design report should include the following:
 - a. Capacity of the containment relative to the number and volume of containers to be stored; in addition, for unenclosed areas, the amount of rainfall collected prior to removal. The TCEQ recommends using a 25-year, 24-hour rainfall event for this extra capacity; and
 - b. Run-on into the containment system must be prevented, or a collection system with sufficient excess capacity must be provided. If run-on is collected within the containment system, delineate the area(s) from which run-on is collected. The 25-year, 24-hour rainfall event should be used to calculate the excess capacity.
- 3. **Wastes Containing No Free Liquids**
With the exception of 40 CFR 264.175(d), storage areas that hold only wastes that do not contain free liquids need not have a containment system, provided that compliance with 40 CFR 264.175(c) is demonstrated. This demonstration must be submitted as part of the application and must include:
 - a. test procedures and results or other documentation or information to show that the wastes do not contain free liquids; and
 - b. a description of how the storage area is designed or operated to drain and remove liquids or how containers are kept from contact with standing

liquids.

4. Managing Ignitable or Reactive Wastes

If a container storage area will manage ignitable or reactive waste, as indicated on Table V.B, provide in the engineering report drawings demonstrating compliance with the buffer zone requirement of 40 CFR 264.17 and 264.176.

5. Managing Incompatible Wastes

If a container storage area will manage incompatible waste, as indicated on Table V.B, provide in the engineering report a description of the procedures used to ensure compliance with 40 CFR 264.17 and 264.177.

6. Managing Nonhazardous Wastes and/or Universal Wastes

If a container storage area will manage nonhazardous wastes, and/or universal wastes in addition to hazardous waste, provide a description of all types of wastes managed in the engineering report and procedures used to ensure compliance with 40 CFR 264 Subpart I.

C. Tanks and Tank Systems - RESERVED

Provide an engineering report which includes all of the information specified in 40 CFR 264.190-264.194, 264.196, 264.198-264.199, and 270.16.

1. For inclusion into a permit, complete Table V.C - Tanks and Tank Systems and list the tanks covered by this application to be permitted. List the N.O.R. unit number, whether the unit is for storage and/or processing, the waste managed in each unit, the rated capacity of each unit, overall dimensions of each unit, containment volume, and whether ignitable, reactive, or incompatible waste will be stored in each unit.
2. For inclusion into a permit, complete Table V.C - Tanks and Tank Systems and list the tanks covered by this application to be permitted. List the N.O.R. unit number, whether the unit is for storage and/or processing, the waste managed in each unit, the rated capacity of each unit, overall dimensions of each unit, containment volume, and whether ignitable, reactive, or incompatible waste will be stored in each unit.
3. If a tank will manage incompatible waste, as indicated on Table V.C, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.17 and 264.199.
4. Submit written assessments that were reviewed and certified by an independent, qualified licensed Professional Engineer that attests to the structural integrity and suitability of handling the hazardous waste for each tank system, as required under 40 CFR 264.191-264.192 for existing tanks which do not have secondary containment meeting the standards of 40 CFR 264.193. The engineer signing the written assessment must make the certification specified in 40 CFR 270.11(d). The certification must be sealed by a licensed Professional Engineer, with current license, along with the Registered Engineering Firm's name and Registration Number as required by the Texas Engineering Practice Act.

5. If a tank has been de-rated or if the permitted capacity is otherwise different from the design capacity, specify any such change(s) in the engineering report.

Provide in the report any additional information for tanks and tank systems as specified in the above regulatory citations including: specifics of leak, spill, and unfit for use systems responses; assessments of tank systems; new tank systems or components; overfill control and prevention; special requirements for ignitable and/or reactive wastes; incompatible wastes; air emissions control; detection of leaks into secondary containment; ancillary equipment; and plans and specifications individually sealed by a licensed professional engineer with current Texas registration with the Registered Engineering Firm's name and Registration number.

D. Surface Impoundments

For Surface Impoundments Closed as a Landfill

1. Provide as-built plans and specifications for the final cover system, individually for each unit that is sealed, signed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number would satisfy this requirement; Other as-built plans and specifications for the unit may be submitted upon request.
2. Complete Table V.D.1 - Surface Impoundments and list the surface impoundments, covered by this application, to be permitted. List the waste(s) managed in each unit and the rated capacity or size of each unit.
3. Complete Table V.D. 6. - Surface Impoundment Liner System for each surface impoundment to be permitted.

For Proposed or Active Surface Impoundments

Provide an engineering report which includes all of the information specified in 30 TAC 305.50(a)(6), 335.168, 335.169, and 40 CFR 264.19, 264.220, 264.221, 264.222, 264.223, 264.226(a) and (c), 264.227, 264.229-264.231, and 270.17.

For storage surface impoundments at a new hazardous waste management facility or which are part of an areal expansion of an existing hazardous waste management facility, include in the engineering report design, construction, and operational information specified in 30 TAC 335.204(d). For any surface impoundment to be closed as a landfill (where wastes will remain after closure of the impoundment) at a new hazardous waste management facility or which are part of an areal expansion of an existing hazardous waste management facility, include in the engineering report design, construction, and operational information specified in 30 TAC 335.204(e).

For all impoundments, include in the report the following information.

1. Complete Table V.D.1 - Surface Impoundments and list the surface impoundments, covered by this application, to be permitted. List the waste(s) managed in each unit and the rated capacity or size of each unit.
2. If a surface impoundment will manage ignitable or reactive waste, as indicated on Table V.D.1., describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.17 and 264.229.
3. If a surface impoundment will manage incompatible waste, as indicated on Table V.D.1., describe in the engineering report the procedures used to ensure

compliance with 40 CFR 264.17 and 264.230.

4. If a surface impoundment will manage F020, F021, F022, F023, F026, and F027 waste, as indicated on Table V.D.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.231.
5. Describe the surface impoundment. Detailed plan view and cross-sectional drawings of the surface impoundment should be included with the engineering report.
6. Freeboard
Specify the minimum freeboard to be maintained and the basis of the design to prevent overtopping resulting from normal or abnormal operations; overfilling; wind and wave action; rainfall; run-on; malfunctions of level controllers, alarms, and other equipment; and human error. Show that adequate freeboard will be available to prevent overtopping from a 100-year, 24-hour storm. [40 CFR 264.221(g)]
If the impoundment is inflow sensitive, it should be equipped with a high-level alarm based on a different level sensor than that used for automatic control.
7. Waste Flow
Describe the means that will be used to immediately shut off the flow of waste to the impoundment to prevent overtopping or in the event of liner failure, and include appropriate detailed drawings.
If the surface impoundment is a flow-through facility describe the flow of waste, including a hydraulic profile.
8. Dike Construction
 - a. If dikes are used, [download](#) the dike design and materials of construction engineering certification from the attachments [list](#) the following certification as part of the engineering report:
 - b. The structural integrity of the dike system must be certified by a qualified Professional Engineer before a permit is issued. If the impoundment is not being used, the dike licensed system must be certified before it can be put into use. The certification must be sealed by a licensed Professional Engineer, with current license, along with the Registered Engineering Firm's name and Registration Number as required by the Texas Engineering Practice Act.
 - c. A report shall accompany the dike certification which summarizes the activities, calculations, and laboratory and field analyses performed in support of the dike certification. Describe the design basis used in construction of the dikes. Provide the following analyses as attachments to the engineering report (A Quality Assurance Project Plan <QAPP> should be included in the report to ensure that each analysis is performed appropriately):
 - (1) Slope Stability Analysis
 - (2) Hydrostatic and Hydrodynamic Analysis
 - (3) Storm Loading
 - (4) Rapid Drawdown
 - d. Earthen dikes should have a protective cover to minimize wind and water erosion and to preserve the structural integrity of the dike. Describe the

protective cover used and describe its installation and maintenance.

9. Containment System

We suggest that the applicant use available recognized guidance documents, such as EPA publication 530-SW-85-014, which provide design guidance for liner systems. The applicant is strongly encouraged to test each synthetic liner after installation by an electrical leak location test, such as the electric field method described in EPA Technical Guidance Document EPA/600/R-93/182, Quality Assurance and Quality Control for Waste Containment Facilities, or an equivalent method, such as those found in ASTM publications, and approved by the Executive Director. Construction above the liner may not proceed until any detected leaks are sealed.

- a. Complete Table V.D. 6. - Surface Impoundment Liner System for each surface impoundment to be permitted.
- b. In the engineering report, describe the design, installation and operation of liner and leak detection components. The description must demonstrate that the liner and leak detection system will prevent discharge to the land, and ground and surface water. Include the following analyses as attachments to the engineering report (A QAPP should be included in the report to ensure that each analysis is performed appropriately):

For artificial liners:

- (1) Seaming method
- (2) Surface preparation method
- (3) Tensile Strength
- (4) Impact Resistance
- (5) Compatibility Demonstration
- (6) Foundation Design (including Settlement Potential, Bearing Capacity and Stability, and Potential for Bottom Heave Blow-out)

For soil liners:

- (1) Waste Migration Analysis (based on head, porosity, and permeability) for the most mobile and least attenuated waste constituents
- (2) Atterberg Limits, % passing a #200 sieve, and Permeability
- (3) Moisture Content
- (4) Standard Proctor Density, Compaction Data

For leachate collection systems:

- (1) Pipe Material and Strength
- (2) Pipe Network Spacing and Grading
- (3) Collection Sump(s) Material and Strength
- (4) Drainage Media Specifications and Performance
- (5) Analyses showing that pipe and pipe perforation size will prevent clogging and allow free liquid access to the pipe.
- (6) Compatibility Demonstration
- (7) Capacity of System
 - (a) rate of leachate removal
 - (b) capacity of sumps
 - (c) thickness of mounding and maximum hydraulic head

- c. Specify the liner system installation date and expected lifetime of liner system (years).
 - d. Specify whether the liner is chemically resistant to the waste and how this resistance was determined. Attach any tests or documentation to the engineering report.
 - e. Submit a quality assurance/quality control plan for all components to demonstrate that all components will be properly installed and will perform to design specifications.
 - f. Submit a Response Action Plan that proposes actions to be taken if the Action Leakage Rate for the surface impoundment exceeds. At a minimum the Response Action Plan must include the requirements of 40 CFR 264.223.
10. Surface impoundments that receive waste on or after May 8, 1985 (or for newly-regulated units, the effective date of the new RCRA regulation) into new units and/or lateral expansions or replacements of existing units must meet the minimum technological requirements of the Hazardous and Solid Waste Amendments of 1984, unless an appropriate waiver is granted by the Commission. The owner or operator of each new surface impoundment unit for which the construction commences after January 29, 1992, or each lateral expansion of an existing surface impoundment unit where construction commences after July 29, 1992, or replacement of an existing surface impoundment unit that commence reuse after July 29, 1992 must install two or more liners and leachate collection and removal system unless commission approves alternate design or operating practices. Plans and specifications for both new and existing surface impoundments must demonstrate conformity with 30 TAC 335.168 and 40 CFR 264.221
11. Run-on Diversion
- Describe in detail how the surface impoundment system will manage stormwater run-on away from the surface impoundment. Stormwater run-on must be diverted away from a surface impoundment. Use at least a 100-year, 24-hour rainfall event in the design and analysis of diversion structures. Where dikes are used to divert run-on, they must be protected from erosion. Include all analyses used to calculate run-on volumes.
12. The Commission may approve an alternate design or operating practice for a surface impoundment if the owner or operator demonstrates that such design or operating practices, together with location characteristics [40 CFR 264.221(d)]:
- a. Will prevent the migration of hazardous constituents into the groundwater or surface water at least as effectively as the liners and leachate collection and removal system required by 40 CFR 264.221; and
 - b. Will allow detection leaks of hazardous constituents through the top liner at least as effectively.
13. Exemption from Double-Liner Requirements for Monofills [264.221(e)]
- Owners or operators of hazardous waste surface impoundment monofills will be exempted from the double-liner requirements if the Commission finds, based on a demonstration by the owner or operator, that alternative design and

operating practices, together with location characteristics are at least as effective as a double liner in preventing migration of hazardous constituents to the groundwater or surface water. If an exemption is sought, submit detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous constituents into the groundwater or surface water at any future time.

E. Waste Piles - RESERVED

This section applies to owners or operators of industrial solid waste facilities that store or process hazardous waste in piles. A hazardous waste pile that will be closed with wastes left in place must be managed as a landfill. Existing portions of waste piles are those areas that were listed on the original Part A and on which wastes have been lawfully placed.

For Waste Piles Closed as a Landfill

1. Provide as-built plans and specifications for the final cover system, individually for each unit that is sealed, signed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number would satisfy this requirement; Other as-built plans and specifications for the unit may be submitted upon request.
2. Complete Table V.E.1 - Waste Piles and list the waste piles covered by this application. List the waste managed in each unit and the rated capacity or size of the unit.
3. Complete Table V.E. 3 - Waste Pile Liner System and specify the type of containment/liner system.

Provide an engineering report which includes all of the information specified in 30 TAC 335.170 and 40 CFR 264.19, 264.250, 264.251, 264.252-264.253, 264.254(a) and (c), 264.256, 264.257, 264.259, and 270.18.

For waste piles at a new hazardous waste management facility or which are part of any areal expansion of an existing hazardous waste management facility, include in the engineering report design, construction, and operational information specified in 30 TAC 335.204(c).

For all waste piles, include in the report the following information.

1. For inclusion into a permit, complete Table V.E.1 - Waste Piles and list the waste piles covered by this application. List the waste managed in each unit and the rated capacity or size of the unit.
2. If a waste pile will manage ignitable or reactive waste, as indicated on Table V.E.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.17 and 264.256.
3. If a waste pile will manage incompatible waste, as indicated on Table V.E.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.17 and 264.257.
4. If a waste pile will manage F020, F021, F022, F023, F026, and F027 waste, as indicated on Table V.E.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.259.

5. Describe the waste pile, including any structure surrounding or enclosing the waste pile.

6. Containment System

We suggest that the applicant use available recognized guidance documents, such as EPA publication 530-SW-85-014, which provide design guidance for liner systems. The applicant is strongly encouraged to test each synthetic liner after installation by an electrical leak location test, such as the electric field method described in EPA Technical Guidance Document EPA/600/R-93/182, Quality Assurance and Quality Control for Waste Containment Facilities, or an equivalent method, such as those found in ASTM publications, and approved by the Executive Director. Construction above the liner may not proceed until any detected leaks are sealed.

- a. For inclusion into a permit, complete Table V.E. 3 - Waste Pile Liner System and specify the type of containment/liner system.
- b. In the engineering report, describe the design, installation, construction, and operation of the liner and leachate collection system. The description must demonstrate that containment systems will prevent discharge to the land, surface water, or groundwater. Include the following analyses as attachments to the engineering report, when applicable to the containment system being described (A QAPP should be included in the report to ensure that each analysis is performed appropriately):

For artificial liners:

- (1) Seaming method
- (2) Surface preparation method
- (3) Tensile Strength
- (4) Impact Resistance
- (5) Compatibility Demonstration
- (6) Foundation Design (including Settlement Potential, Bearing Capacity and Stability, and Potential for Bottom Heave Blow-out)

For soil liners:

- (7) Waste Migration Analysis (based on head, porosity, and permeability) for the most mobile and least attenuated constituents.
- (8) Atterberg Limits, % passing a #200 sieve, and Permeability
- (9) Moisture Content
- (10) Standard Proctor Density, Compaction Data

For leachate detection, collection, and removal system:

- (11) Capacity of system
 - (a) rate of leachate removal
 - (b) capacity of sumps
 - (c) thickness of mounding and maximum hydraulic head
- (12) Pipe Material and Strength
- (13) Pipe Network Spacing and Grading
- (14) Collection Sump(s) Material and Strength
- (15) Drainage Media Specifications and Performance

- (16) Analysis showing that pipe and perforation size will prevent clogging and allow free liquid access to the pipe.
 - (17) Compatibility Demonstration
 - c. Containment/liner system installation date and expected lifetime of liner system (years).
 - d. Specify whether the containment/liner system is chemically resistant to the waste and how this resistance was determined. Attach any tests or documentation to the engineering report.
 - e. Submit a quality assurance/quality control plan for all components to demonstrate that all components will be properly installed and will perform to design specifications.
 - f. Submit a Response Action Plan that proposes actions to be taken if the Action Leakage Rate for the waste pile exceeds. At a minimum the Response Action Plan must include the requirements of 40 CFR 264.253.
7. Wind Dispersal [30 TAC 335.170(j)]
- Waste piles containing hazardous waste which could be subject to dispersal by wind must be covered or otherwise managed so that wind dispersal is minimized. Describe practices to control wind dispersal (e.g., cover or frequent wetting) of the hazardous waste.
8. Run-on Diversion [30 TAC 335.170(g)]
- Describe in detail the measures used to control and divert run-on from the unit. The owner or operator must design, construct, operate, and maintain a run-on control system capable of preventing flow onto the active portion of the pile during peak discharge from at least a 100-year, 24-hour storm.
- Include all analyses used to calculate: flow rates; run-on volume and depth; and back-water calculations for the ditches on plant property.
- Any tanks or basins associated with the run-on control systems must be emptied or otherwise managed expeditiously after a storm to maintain the design capacity of the system. [30 TAC 335.170(i)]
9. Run-off Control [30 TAC 335.170(h)]
- Describe in detail the measures used to control run-off from the unit. Include all analyses used to calculate the run-off volumes.
- The owner or operator must design, construct, operate, and maintain a run-off management system to collect and control at least the water volume resulting from a 100-year, 24-hour storm.
- Collection and holding facilities (e.g., tanks or basins) associated with the run-off control systems must be emptied or otherwise managed expeditiously after storms to maintain the design capacity of the system. [30 TAC 335.170(i)]
10. Give a description of design and operating procedures to properly manage and/or dispose of any residuals (e.g., leachate) that may be generated during waste management. Describe the management process and any equipment used.
11. Provide a description and list of all equipment and procedures used to place the

waste in or on the waste pile, and how the liner surface will be exposed for inspection, if necessary. A containment system must be protected from plant growth which could puncture any component of the system.

12. Exemption from Liner and Leachate Collection Requirements

The Commission may approve an alternate design or operating practice for a waste pile if the owner or operator demonstrates that such design or operating practices, together with location characteristics [40 CFR 264.251(d)]:

- a. Will prevent the migration of hazardous constituents into the groundwater or surface water at least as effectively as the liners and leachate collection and removal system; and
- b. Will allow detection leaks of hazardous constituents through the top liner at least as effectively.

13. Exemption from Groundwater Monitoring under 40 CFR 264.250(c)

A waste pile may be exempt from groundwater monitoring if the following standards are met:

- a. The waste pile (including its underlying liners) must be located entirely above the seasonal high water table; and
- b. The waste pile is inside or under a structure that provides protection from precipitation so that neither run-off nor leachate is generated, provided that:
 - (1) Liquids or materials containing free liquids are not placed in the pile;
 - (2) The waste pile is protected from surface water run-on by the structure or in some other manner;
 - (3) The waste pile is designed and operated to control dispersal of the waste by wind, where necessary, by means other than wetting; and
 - (4) The waste pile will not generate leachate through decomposition or other reactions; or
- c. The waste pile must have a leachate collection and removal system above the top liner; and
- d. Underlayment:
 - (1) either:
 - (a) The waste pile must be underlain by two liners, which are designed and constructed in a manner that prevents the migration of liquids into or out of the space between the liners and a leak detection system which must be designed, constructed, maintained, and operated between the liners to detect any migration of liquids into the space between the liners; and
 - (b) A demonstration must be made that there is a low potential for migration of liquid from the waste pile to the uppermost aquifer during the life of the waste pile (including the closure period). The owner or operator must base any predictions made on assumptions that maximize the rate of liquid migration;

- (2) or:
- (a) The waste pile must be underlain by a liner (base) that is designed, constructed, and installed in a manner that prevents the migration of liquids or waste beyond the liner; and
 - (b) The wastes in the waste pile must be removed periodically, and the liner must be inspected for deterioration, cracks, or other conditions that may result in leaks. The frequency of inspection will be specified in the inspection plan and must be based on the potential for the liner (base) to crack or otherwise deteriorate under the conditions of operation (e.g., waste type, rainfall, loading rates and subsurface stability).

The liner(s) used to satisfy V.D.13.d. must be of sufficient strength and thickness to prevent failure due to puncture, cracking, tearing, or other physical damage from equipment used to place waste in or on the pile or to clean and expose the liner surface for inspection.

F. Land Treatment Units - RESERVED

Provide an engineering report which includes all of the information specified in 30 TAC 305.50(a)(6), 335.171, 335.172, 40 CFR 264.270-264.272, 264.273, 264.276, 264.278, 264.279, 264.281-264.283, and 270.20 for each land treatment unit.

For land treatment units at a new hazardous waste management facility or which are part of an areal expansion of an existing hazardous waste management facility, include in the engineering report design, construction, and operational information specified in 30 TAC 335.204(b).

For all land treatment units, include in the report the following information.

1. Complete Tables V.F.1 - Land Treatment Units and V.F.2 - Land Treatment Unit Capacity and list the land treatment units covered by this application. List the waste(s) managed in each unit and the rated capacity or size of the unit. If different wastes are placed on separate portions of the land treatment area, each portion is considered a land treatment unit, and requires a separate summary form and engineering report.

The treatment zone is defined as the soil area of the unsaturated zone of a land treatment unit within which hazardous constituents are degraded, transformed, or immobilized. In this section, specify the depth of the treatment zone. The maximum depth of the treatment zone for new land treatment units must be [40 CFR 264.271(c)]:

- a. No more than 1.5 meters (5 feet) from the surface; and
 - b. More than 1 meter (3 feet) above the seasonal high water table.
2. If a land treatment unit will manage ignitable or reactive waste, as indicated on Table V.F.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.17 and 264.281.
 3. If a land treatment unit will manage incompatible waste, as indicated on Table V.F.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.17 and 264.282.

4. If a land treatment unit will manage F020, F021, F022, F023, F026 and F027 waste, as indicated on Table V.F.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.283.
5. Describe the land treatment unit. The report shall include all the information requested in this section including drawings. At a minimum, a plan view and cross-section of the unit should be included with the engineering report.
6. Complete Table V.F.3. - Land Treatment Principal Hazardous Constituents and list the wastes for which the treatment demonstration will be made and the principal hazardous constituents in each waste. Specify in the report the data sources to be used to make the demonstration such as laboratory data, field data, operating data, literature, or other.
7. Run-on Diversion

Describe in detail the measures used to control run-on and divert run-on from the unit. Include all the analyses used to calculate the run-on volumes.

The owner or operator must design, construct, operate, and maintain a run-on control system capable of preventing flow onto the active portion of the land treatment unit during peak discharge from a 100-year, 24-hour storm. [30 TAC 335.171(3)]

Collection holding facilities (e.g., tanks or basins) associated with the run-on control system must be emptied or otherwise managed expeditiously after storms to maintain the design capacity of the system. [30 TAC 335.171(5)].
8. Run-off Control

Describe in detail the measures used to control the run-off from the unit, and minimize hazardous constituents in the run-off, include all the analyses used to calculate the run-off volumes.

The owner or operator must design, construct, operate and maintain a run-off management system to collect and control at least the water volume resulting from a 100-year, 24-hour storm. [30 TAC 335.171(4)]

Collection and holding facilities (e.g., tanks or basins) associated with run-off control systems must be emptied or otherwise managed expeditiously after storms to maintain design capacity of the system. [30 TAC 335.171(5)]
9. Wind Dispersal

The owner or operator of a land treatment unit containing hazardous waste which could be subject to dispersal by wind must cover or otherwise manage the land treatment unit so that wind dispersal is minimized. Describe practices to control wind dispersal (e.g., cover or frequent wetting) of the hazardous waste. [30 TAC 335.171(6)]
10. Treatment Demonstration

A description of the treatment demonstration required under 40 CFR 264.272 and 270.20(a) shall be included with the engineering report. If the owner or operator intends to conduct field tests or laboratory analyses in order to make the demonstration, he must obtain a treatment or disposal permit.

11. The owner or operator must establish an unsaturated zone monitoring program in accordance with 40 CFR 264.278 and a detailed monitoring program must be included in the application.

12. Food Chain Crops [40 CFR 264.276]

Several conditions must be satisfied if food-chain crops are to be grown in or on the treatment zone. A demonstration must be prepared similar to the one described in the Treatment Demonstration and submitted at least 90 days prior to the planting of crops. The demonstration need not be submitted with this application. However, a description of the demonstration must be included as part of the engineering report. This demonstration may be combined with the Treatment Demonstration description, as some of the information required is identical.

G. Landfills - RESERVED

For Closed Landfills

1. Provide as-built plans and specifications for the final cover system, individually each unit that is sealed, signed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and Registration Number would satisfy this requirement; Other as-built plans and specifications for the unit may be submitted upon request.
2. Complete Table V.G.1 - Landfills and list the landfills (and number of cells, if applicable) covered by this application. List the waste(s) managed in each unit and the rated capacity or size of the unit. If wastes are segregated in some manner, list the cell number in which wastes are placed next to each waste type.
3. Complete Table V.G.3. - Landfill Liner System and specify the type of liner used for the landfill.
4. Complete Table V.G.4. - Landfill Leachate Collection System used for the landfill.

Provide an engineering report which includes all of the information specified in 30 TAC 305.50(a)(5), (6), (9), (10), and (12), 335.173, 40 CFR 264.19, 264.300, 264.301, 264.302, 264.303(a), 264.304, 264.309, 264.312, 264.313, 264.315-264.317, and applicable requirements of 270.21. The text of the report should be written to supplement engineering plans, specifications, and test results necessary to provide a detailed description of how the landfill will comply with these standards.

For landfills at a new hazardous waste management facility or which are part of an areal expansion of an existing hazardous waste management facility, include in the engineering report design, construction, and operational information specified in 30 TAC 335.204(e).

For all landfills, include in the report the following information.

1. Complete Table V.G.1 - Landfills and list the landfills (and number of cells, if applicable) covered by this application. List the waste(s) managed in each unit and the rated capacity or size of the unit. If wastes are segregated in some manner, list the cell number in which wastes are placed next to each waste type.
2. If a landfill will manage ignitable or reactive waste, as indicated on Table V.G.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.17 and 264.312.

3. If a landfill will manage incompatible waste, as indicated on Table V.G.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.17 and 264.313.
4. If a landfill will manage F020, F021, F022, F023, F026, and F027 waste, as indicated on Table V.G.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.317.
5. Describe the landfill. A plan view and cross-section of the landfill should be included with the engineering report. As appropriate, detailed plan, elevation, cross-section of landfill containment facilities shall be included with the report.
6. Containment System

We suggest that the applicant use available recognized guidance documents, such as EPA publication 530-SW-85-014, which provide design guidance for liner systems. The applicant is strongly encouraged to test each synthetic liner after installation by an electrical leak location test, such as the electric field method described in EPA Technical Guidance Document EPA/600/R-93/182, Quality Assurance and Quality Control for Waste Containment Facilities, or an equivalent method, such as those found in ASTM publications, and approved by the Executive Director. Construction above the liner may not proceed until any detected leaks are sealed.

- a. Complete Table V.G.3. - Landfill Liner System and specify the type of liner used for the landfill.
- b. In the engineering report, describe the design, installation, construction, and operation of the liner and leachate collection system. The description must demonstrate that the liner system will prevent discharge to the land, groundwater, and surface water. The following analyses should be included as attachments to the engineering report (A QAPP should be included in the report to ensure that each analysis is performed appropriately):

For artificial liners:

- (1) Seaming method
- (2) Surface preparation method
- (3) Tensile Strength
- (4) Impact Resistance
- (5) Compatibility Demonstration
- (6) Foundation Design (including Settlement Potential, Bearing Capacity and Stability, and Potential for Bottom Heave Blow-out)

For soil liners:

- (7) Waste Migration Analysis (based on head, porosity, and permeability) for the most mobile and least attenuated waste constituents
- (8) Atterberg Limits, % passing a #200 sieve, and Permeability
- (9) Moisture Content
- (10) Standard Proctor Density, Compaction Data

For Leachate Collection System

For incorporation into the permit, complete Table V.G.4. - Landfill Leachate Collection System and Table V.G.5 - Landfill Soil Specifications used for the

landfill.

- (11) Capacity of the system:
 - (a) rate of leachate removal
 - (b) capacity of sumps
 - (c) thickness of mounding and maximum hydraulic head
 - (12) Pipe Material and Strength
 - (13) Pipe Network Spacing and Grading
 - (14) Collection Sump(s) Material and Strength
 - (15) Drainage Media Specifications and Performance
 - (16) Analyses showing that pipe and pipe perforation size will prevent clogging and allow free liquid access to the pipe.
 - (17) Compatibility Demonstration
 - c. State whether the liner system components are chemically resistant to the waste and how this resistance was determined. Attach any tests or documentation to the engineering report.
 - d. Provide a quality assurance/quality control plan for all components to demonstrate that all components will be properly installed and will perform to design specifications.
 - e. Whether the leachate collection components are chemically resistant to the waste and how this resistance was determined. Attach any tests or documentation to the engineering report.
 - f. Provide a Response Action Plan that proposes actions to be taken in the case of exceedance of the landfill Action Leakage Rate. At a minimum the Response Action Plan must include the requirements of 40 CFR 264.304.
7. For Dikes:
- a. Slope Stability Analysis;
 - b. Hydrostatic and Hydrodynamic Analyses
 - c. Ability to withstand scouring from leaking liner.
8. Landfills that receive waste on or after May 8, 1985 (or for newly-regulated units, the effective date of the new RCRA regulation) into new units and/or lateral expansions or replacements of existing units must meet the minimum technological requirements of the Hazardous and Solid Waste Amendments of 1984, unless an appropriate waiver is granted by the Commission. The owner or operator of each new landfill unit for which the construction commences after January 29, 1992, or each lateral expansion of an existing landfill unit where construction commences after July 29, 1992, or replacement of an existing landfill unit that commence reuse after July 29, 1992 must install two or more liners and leachate collection and removal system unless commission approves alternate design or operating practices. Plans and specifications for both new and existing landfills must demonstrate conformity with 30 TAC 335.173 and 40 CFR 264.301(c).
9. Site Development Plan
- Describe the methods used to deposit waste in the landfill. This description should include rate of waste deposition, waste segregation, average lift size, maximum lift, average cell or trench size, maximum cell or trench size, and other information necessary to depict how the landfill will be developed. Do not

include liner or leachate collection system information, closure information, or handling of special wastes. This will be included elsewhere in the report.

10. Run-on Control [30 TAC 335.173(g)]

The owner or operator must design, construct, operate, and maintain a run-on control system capable of preventing flow onto the active portion of the landfill during peak discharge from at least a 100-year, 24-hour storm.

In the engineering report, include the following analyses:

- a. Run-on volume and depth calculations from the peak discharge of the 100-year, 24-hour storm; and
- b. For ditches on the plant property, back-water calculations.

Collection and holding facilities (e.g., tanks or basins) associated with the run-on control system must be emptied or otherwise managed expeditiously. [30 TAC 335.173(i)]

11. Run-off Control [30 TAC 335.173(h)]

The owner or operator must design, construct, operate, and maintain a run-off management system to collect and control the water volume resulting from a 100-year, 24-hour storm.

Include all analyses used to calculate run-off volumes.

Collection and holding facilities (e.g., tanks or basins) associated with run-off control systems must be emptied or otherwise managed expeditiously after storms to maintain design capacity of the system. [30 TAC 335.173(i)]

12. Wind Dispersal [30 TAC 335.173(j)]

If the landfill contains any particulate matter which may be subject to wind dispersal, the owner or operator must cover or otherwise manage the landfill to minimize wind dispersal. Based upon the characteristics of the material to be landfilled describe the likelihood of wind dispersal occurring. Describe in detail any method and/or control mechanism used to prevent wind dispersal.

13. Liquid Waste

If liquid waste or waste containing free liquids is to be stabilized and then placed in the landfill, the procedures used to stabilize the waste must be described in the engineering report. The waste must be treated prior to landfilling using a treatment technology that does not solely involve the use of a material that functions primarily as a sorbent. Provide supporting documentation to verify that an appropriate stabilization procedure is used to comply with 30 TAC 335.175.

14. The Commission may approve an alternate design or operating practice for a landfill if the owner or operator demonstrates that such design or operating practices, together with location characteristics [40 CFR 264.301(d)]:

- a. Will prevent the migration of hazardous constituents into the groundwater or surface water at least as effectively as the liners and leachate collection and removal system; and
- b. Will allow detection leaks of hazardous constituents through the top liner at

least as effectively.

15. Exemption from Double-Liner Requirements for Monofills [264.301(e)]

Owners or operators of hazardous waste monofills will be exempted from the double-liner requirements if the Commission finds, based on a demonstration by the owner or operator, that alternative design and operating practices, together with location characteristics are at least as effective as a double liner in preventing migration of hazardous constituents to the groundwater or surface water. If an exemption is sought, submit detailed plans and engineering and hydrogeologic reports, as appropriate, describing alternate design and operating practices that will, in conjunction with location aspects, prevent the migration of any hazardous constituents into the groundwater or surface water at any future time.

16. Above-grade Benefits

The engineering report must evaluate the benefits, if any, associated with the construction of the landfill above existing grade at the proposed site, the costs associated with the above-grade construction, and the potential adverse effects, if any, which would be associated with the above-grade construction. [TX. Health and Safety Code 361.108]

17. Feasibility Study - Applicable to New Hazardous Waste Landfills or Areal Expansions of Existing Hazardous Waste Landfill

In accordance with the Health and Safety Code Section 361.106 and 30 TAC Section 335.205(a)(2), provide a feasibility study demonstrating that there is no practical, economic, and feasible alternative that is reasonably available to manage the types and classes of hazardous wastes to be disposed of at a proposed new hazardous waste landfill or the areal expansion of an existing hazardous waste landfill.

H. Incinerators - RESERVED

Engineering Report for Combustion Units

For hazardous waste combustion unit which are subject to regulation by 40 CFR Part 63, Subpart EEE, the requirements 30 TAC Chapter 305 and Subchapters I and Q do not apply when the unit becomes subject to Resource Conservation and Recovery Act (RCRA) permit requirements after October 12, 2005 (i.e., new unit), or no longer apply when an owner or operator of an existing hazardous waste management unit demonstrates compliance with the air emission standards and limitations in 40 Code of Federal Regulations (CFR) Part 63, Subpart EEE, except for the following:

1. Those provisions the Executive Director determines are necessary to comply with 40 CFR §264.345(a) and 40 CFR §264.345(c) for Phase I sources or 40 CFR §266.102(e)(1) and (2)(iii) for Phase II sources if the permittee or applicant elects to comply with any of the options listed in 40 CFR §270.235(a) to minimize emissions of toxic compounds from startup, shutdown, and malfunction events;
2. Those standards and associated requirements for particulate matter, hydrogen chloride and chlorine gas, and non-mercury metals that a Phase II area source elects to comply with in 40 CFR §§266.105, 266.106, and 266.107;
3. Those standards for particulate matter in 40 CFR 264.343(c) remain in effect for a Phase I source incinerator that elects to comply with the alternative to the

particulate matter standard under 40 CFR 63.1206(b)(14) and 63.1219(e); and

4. Those provisions that the Executive Director may apply in 30 TAC Chapter 305, Subchapters I and Q, on a case-by-case basis. The Executive Director may require a permittee or an applicant to submit information in order to establish permit conditions under §305.50(a)(15) or (16) and §305.127(1)(B)(iii) or (4)(A) (i.e., risk-based permit conditions).

For hazardous waste combustion units subject to regulation by 40 CFR Part 63, Subpart EEE, some of the information requested in Sections V.H and V.I. will not be applicable for new units or existing units which have submitted a Notification of Compliance in accordance with 40 CFR 63.1207(j) and 63.1210(d), received a Finding of Compliance pursuant to 40 CFR 63.1206(b)(3), and have the associated RCRA permit conditions removed from the permit. Information which is not applicable or no longer applicable should not be included in the Part B application.

[Please note that the TCEQ will require a Finding of Compliance be made prior to modifying the permit by deleting redundant operating parameter limits and standards for the combustion units. Until such time as the permit is modified to delete the redundant RCRA-based operating parameter limits and standards in the permit or the permit is terminated or revoked, the permittee must comply with the RCRA-based conditions specified in the permit. More stringent risk-based permit conditions will remain in the RCRA permit.]

For the exceptions listed in Items 1.-4., the owner and operator must provide the applicable information requested in the Part B permit application and any additional information required by the Executive Director to establish permit conditions.

As applicable, provide an engineering report which includes all of the information specified in 30 TAC 305.171-305.176, 40 CFR 264.340, 264.342-264.346, 264.347(a), and 270.19. In addition, the Executive Director may require additional information to address the requirements in 30 TAC 305.50(a)(15).

Note: Please review the information provided in the section above entitled "Engineering Report for Combustion Units" and 40 CFR 270.19(e) to determine applicability of standards and associated requirements in 40 CFR Part 264, Subpart O. If the permit contains risk-based permit conditions, please ensure that all applicable supporting information is included in the engineering report.

1. Complete Table V.H.1 - Incinerators and list the incinerators covered by this application and list the waste managed in each unit.
2. Complete Table V.H.2 - Incinerator Permit Conditions, Monitoring, and Automatic Waste Feed Cutoff Systems for each Incinerator.
3. Complete Table V.H.3 - Maximum Constituents Feed Rate for each Incinerator.
4. Complete Table V.H.4 - Maximum Allowable Emission Rates for each Incinerator.
5. For use during the shakedown period, the trial burn period and the period after completion of the initial trial burn, complete Table V.H.5 - Incinerator Permit Conditions, Monitoring, and Automatic Waste Feed Cutoff-Short-Term Operation for each new or modified Incinerator.
6. If an incinerator will manage reactive or incompatible waste, as indicated on Table V.H.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.17.
7. If an incinerator will manage F020, F021, F022, F023, F026, and F027 waste, as

indicated on Table V.H.1, the DRE requirement is 99.9999%.

8. If a trial burn for a modified unit and Comprehensive Performance Test under 40 CFR Part 63, Subpart EEE (HWC MACT) (for all new and modified units) will be performed, designate one or more of the 40 CFR 261 Appendix VIII organic compounds present in the wastes to be incinerated as Principal Organic Hazardous Constituents (POHCs). Selection will be based upon the degree of difficulty of incineration of these compounds and upon their concentration or mass in the waste feed. These POHCs will be used to determine the destruction and removal efficiency (DRE) specified in the performance standards of 40 CFR 264.343 and HWC MACT. In addition, complete Table V.H.8 - Principal Organic Hazardous Constituents.
 9. Submit a Quality Control/Quality Assurance Plan for all sampling, analysis, and monitoring activities which will occur in conjunction with the trial burn.
 10. As applicable, facilities with existing permits may request that the Executive Director to address permit conditions that minimize emissions from startup, shutdown, and malfunction events in accordance with the options under 40 CFR 270.235 when requesting the removal of permit conditions that are no longer applicable according to 30 TAC 305.175. Please provide the relevant information needed to process the requested option to minimize emissions identified in 40 CFR 270.235(1)(a)(i)-(iii). (30 TAC 305.176)
- I. Boilers and Industrial Furnaces - RESERVED

Engineering Report for Combustion Units

For hazardous waste combustion unit which are subject to regulation by 40 CFR Part 63, Subpart EEE, the requirements 30 TAC Chapter 305 and Subchapters I and Q do not apply when the unit becomes subject to Resource Conservation and Recovery Act (RCRA) permit requirements after October 12, 2005 (i.e., new unit), or no longer apply when an owner or operator of an existing hazardous waste management unit demonstrates compliance with the air emission standards and limitations in 40 Code of Federal Regulations (CFR) Part 63, Subpart EEE, except for the following:

1. Those provisions the Executive Director determines are necessary to comply with 40 CFR §264.345(a) and 40 CFR §264.345(c) for Phase I sources or 40 CFR §266.102(e)(1) and (2)(iii) for Phase II sources if the permittee or applicant elects to comply with any of the options listed in 40 CFR §270.235(a) to minimize emissions of toxic compounds from startup, shutdown, and malfunction events;
2. Those standards and associated requirements for particulate matter, hydrogen chloride and chlorine gas, and non-mercury metals that a Phase II area source elects to comply with in 40 CFR §§266.105, 266.106, and 266.107;
3. Those standards for particulate matter in 40 CFR 264.343(c) remain in effect for a Phase I source incinerator that elects to comply with the alternative to the particulate matter standard under 40 CFR 63.1206(b)(14) and 63.1219(e); and
4. Those provisions that the Executive Director may apply in 30 TAC Chapter 305, Subchapters I and Q, on a case-by-case basis. The Executive Director may require a permittee or an applicant to submit information in order to establish permit conditions under §305.50(a)(15) or (16) and §305.127(1)(B)(iii) or (4)(A) (i.e., risk-based permit conditions).

For hazardous waste combustion units subject to regulation by 40 CFR Part 63, Subpart EEE, some of the information requested in Sections V.H and V.I. will not be applicable for new units or existing units which have submitted a Notification of Compliance in accordance with 40 CFR 63.1207(j) and 63.1210(d), received a Finding of Compliance pursuant to 40 CFR 63.1206(b)(3), and have the associated RCRA permit conditions removed from the permit. Information which is not applicable or no longer applicable should not be included in the Part B application.

[Please note that the TCEQ will require a Finding of Compliance be made prior to modifying the permit by deleting redundant operating parameter limits and standards for the combustion units. Until such time as the permit is modified to delete the redundant RCRA-based operating parameter limits and standards in the permit or the permit is terminated or revoked, the permittee must comply with the RCRA-based conditions specified in the permit. More stringent risk-based permit conditions will remain in the RCRA permit.]

For the exceptions listed in Items 1.-4., the owner and operator must provide the applicable information requested in the Part B permit application and any additional information required by the Executive Director to establish permit conditions.

As applicable, provide an engineering report which includes all of the information specified in 30 TAC 305.50(a)(13), 305.571-573, 40 CFR 266.100 and 266.102 (as incorporated by reference in 30 TAC 335.221 through 335.225), 266.104-266.112, and 270.22. In addition, the Executive Director may require additional information to address the requirements in 30 TAC 305.50(a)(15).

Note: Please review the information provided in the section above entitled "Engineering Report for Combustion Units" and 40 CFR 270.22 to determine applicability of standards and associated requirements in 40 CFR Part 266, Subpart H. Area sources that elect to comply with the standards and associated requirements of 40 CFR 266.105, 266.106, and 266.107 should address those elected standards and requirements in the engineering report. If the permit contains risk-based permit conditions, please ensure that all applicable supporting information is included in the engineering report.

1. Complete Table V.I.1 - Boilers and Industrial Furnaces and list the boilers and/or industrial furnaces covered by this application to be permitted and list the waste managed in each unit.
2. Complete Table V.I.2 - Boiler and Industrial Furnace Permit Conditions, Monitoring, and Automatic Waste Feed Cutoff Systems for each unit.
3. Complete Table V.I.3 - Maximum Constituent Feed Rate for each unit.
4. Complete Table V.I.4 - Maximum Allowable Emission Rates for each unit.
5. For use during the shakedown period, trial burn period and the period after completion of the initial trial burn, complete Table V.I.5 - Boiler and Industrial Furnace Permit Conditions, Monitoring, and Automatic Waste Feed Cutoff Systems-Short-Term Operation for each new or modified unit.
6. If a boiler or industrial furnace will manage reactive or incompatible waste, as indicated on Table V.I.1, describe in the engineering report the procedures used to ensure compliance with 40 CFR 264.17.
7. If a boiler and industrial furnace will manage F020, F021, F022, F023, F026, and F027 waste, as indicated on Table V.I.1, the DRE requirement is 99.9999%.
8. If a trial burn for modified units and Comprehensive Performance Test under 40 CFR Part 63, Subpart EEE (HWC MACT) (for all new and modified units) will be performed, designate one or more of the 40 CFR 261 Appendix VIII organic compounds present in the wastes to be incinerated as Principal Organic Hazardous Constituents (POHCs). Selection will be based upon the degree of difficulty of incineration of these compounds and upon their concentration or mass in the waste feed. These POHCs will be used to determine the destruction and removal efficiency (DRE) specified in the performance standards of 40 CFR 266.104 and HWC MACT. In addition, complete Table V.I.8 - Principal Organic Hazardous Constituents.
9. Submit a Quality Control/Quality Assurance Plan for all sampling, analysis, and monitoring activities.
10. As applicable, facilities with existing permits may request that the Executive Director to address permit conditions that minimize emissions from startup, shutdown, and malfunction events in accordance with the options under 40 CFR 270.235 when requesting the removal of permit conditions that are no longer applicable according to 30 TAC 305.571(b). Please provide the relevant information needed to process the requested option to minimize emissions identified in 40 CFR 270.235(1)(a)(i)-(iii). [30 TAC 305.572(a)(6)]

J. Drip Pads - RESERVED

Provide an engineering report which includes all of the information specified in 40 CFR 264.570-573 and 270.26

1. Complete Table V.J.1. - Drip Pads and list the drip pads, covered by this application, to be permitted. List the N.O.R. unit number, the waste managed in each unit, the rated capacity of each unit, and the overall dimensions of the unit (including perimeter curb or berm height) that will be in contact with the waste.
2. For either new drip pads or existing drip pads for which the owner/operator elects to comply with the synthetic liner requirement of 40 CFR 264.573(b), please complete Table V.J.2. - Drip Pad Synthetic Liner System.
3. In the engineering report, describe the design, installation, construction, and operation of the liner and leakage collection system. The description must demonstrate that the liner system will prevent discharge to the land, groundwater, and surface water. The following analyses should be included as attachments to the engineering report (A QAPP should be included in the report to ensure that each analysis is performed appropriately):

For artificial liners:

- a. Seaming method
- b. Surface preparation method
- c. Tensile Strength
- d. Impact Resistance
- e. Compatibility Demonstration
- f. Foundation Design (including Settlement Potential, Bearing Capacity and Stability, and Potential for Bottom Heave Blow-out)

For Leakage Collection System

- g. Capacity of the system:
 - (1) rate of leachate removal
 - (2) capacity of sumps
 - (3) thickness of mounding and maximum hydraulic head
- h. Pipe Material and Strength
- i. Pipe Network Spacing and Grading
- j. Collection Sump(s) Material and Strength
- k. Drainage Media Specifications and Performance
- l. Analyses showing that pipe and pipe perforation size will prevent clogging and allow free liquid access to the pipe.
- m. Compatibility Demonstration

K. Miscellaneous Units - RESERVED

A miscellaneous unit is a unit other than a container, tank, incinerator, boiler, industrial furnace, landfill, surface impoundment, waste pile, underground injection well, land treatment area, drip pad, or unit eligible for an R, D & D permit that is used to process, store, or dispose of hazardous waste.

For each miscellaneous unit for which an operating permit is sought, provide an engineering report which includes all of the information specified in 40 CFR 264.600-264.602, and 270.23.

1. Complete Table V.K - Miscellaneous Units and list the miscellaneous units covered by this application. List the waste managed in each unit and the rated capacity or size of the unit. If the information requested is not applicable, an explanation must be submitted.
2. Provide any other information which is descriptive of the relationship between the miscellaneous unit and the environment. Application information may include design requirements of 30 TAC 305 and 335, 40 CFR Part 264 Subparts I through O, and Part 270 that are appropriate for the miscellaneous unit or portions of the unit being permitted.
3. For a unit which involves combustion, please provide emissions data or a trial burn plan. Tables V.H.1-5 for incinerators or Tables V.I.1-5 for boilers and industrial furnaces may be adapted as appropriate to provide operation, monitoring, and emission information for a miscellaneous combustion unit.

L. Containment Buildings - RESERVED

Complete Table V.L. - Containment Buildings and list the containment buildings covered by this application to be permitted. List the N.O.R. unit number, whether the unit is for storage and/or processing, the waste or debris managed in each unit, the rated capacity of each unit, and the overall dimensions of the unit (including containment wall height) that will be in contact with the waste or debris.

Appendix V.A

General Engineering Report

Addendum V.A – Addendum to Appendix V.A General Engineering Reports, October 2022

**Addendum V.A – General Engineering Evaluation Regarding Flooding, FEMA
Panels 48201C0910M and 48201C093M, Effective 1/6/2017**

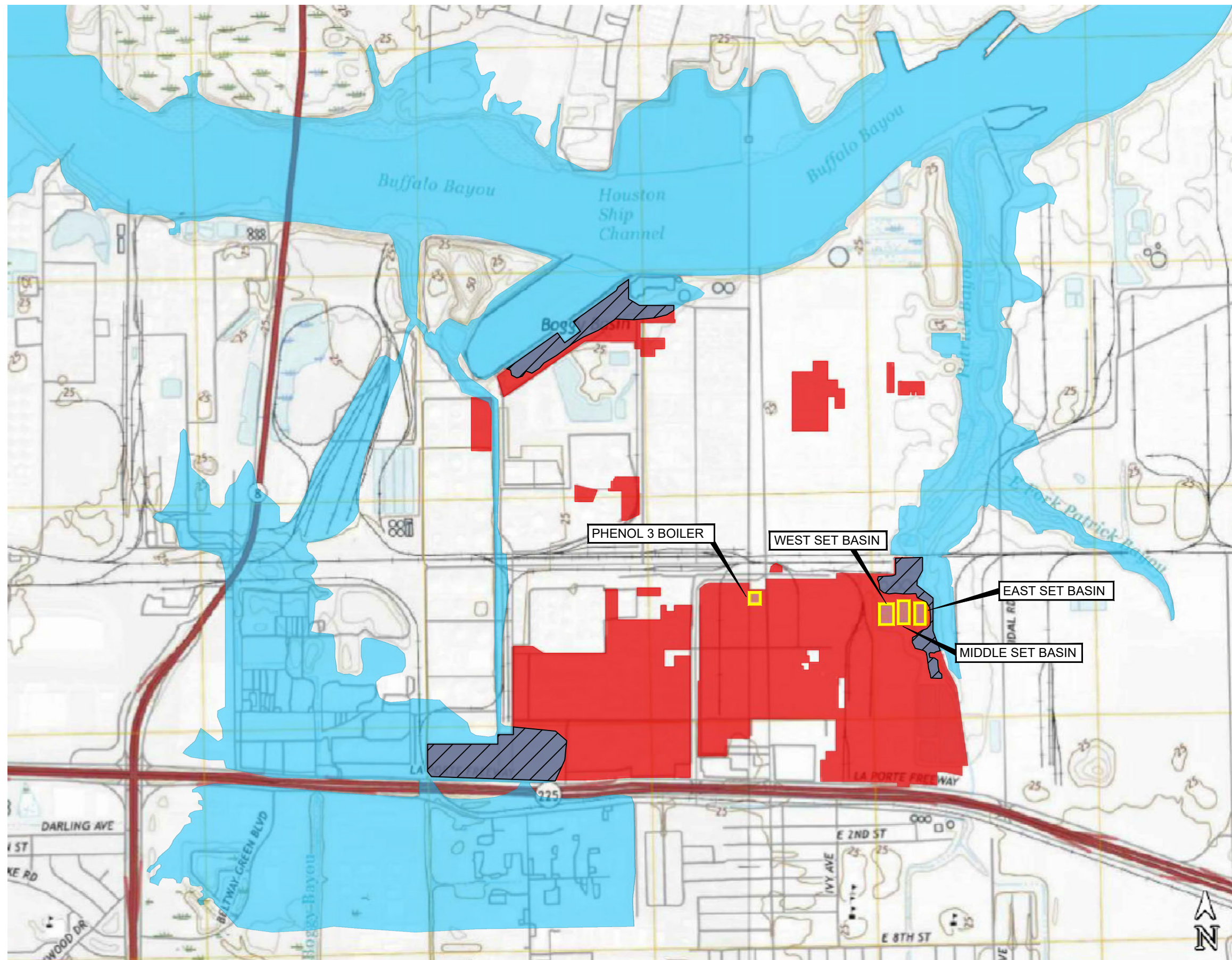
Shell Chemical – East SET Aeration Basin: Per the revised permitted facility map depicting the limits of FEMA floodplain zone AE (100-year floodplain) and the enlargement of the current FIRM (48201C0930M, effective 1/6/2017) for the area, the edge of the 100-yr floodplain does come very close to the eastern and southern edges and northeast corner of the East SET Basin. Accordingly, 100-yr floodwaters do not flow into or impact into the basin.

Based on the above, Shell Chemical does not propose at this time to implement any improvements at the facility to enhance flood protection of East SET Aeration Basin. Shell Chemical will, however, continue to monitor local and regional developments with regard to flood control and protection measures and evaluate opportunities to improve flood protection at the facility.


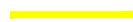
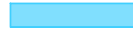



James Isensee, P.E.
State of Texas
License No. 63740

October 10, 2022
Date



LEGEND

-  SHELL DEER PARK CHEMICALS PERMITTED FACILITY
-  PERMITTED BOUNDARY
-  DEPICTS LIMITS OF FEMA FLOODPLAIN ZONE AE (100-YEAR FLOODPLAIN). DATA FROM FEMA PANELS 48201C0910M AND 48201C0930M, EFFECTIVE 1/6/2017
-  FLOODPLAIN ZONE OVERLAYS THE FACILITY

EAST SET BASIN
INACTIVE
1.4 ACRES

MIDDLE SET BASIN
CLOSED
1.5 ACRES

WEST SET BASIN
CLOSED
1.6 ACRES

PHENOL 3 BOILER
INACTIVE
0.4 ACRES



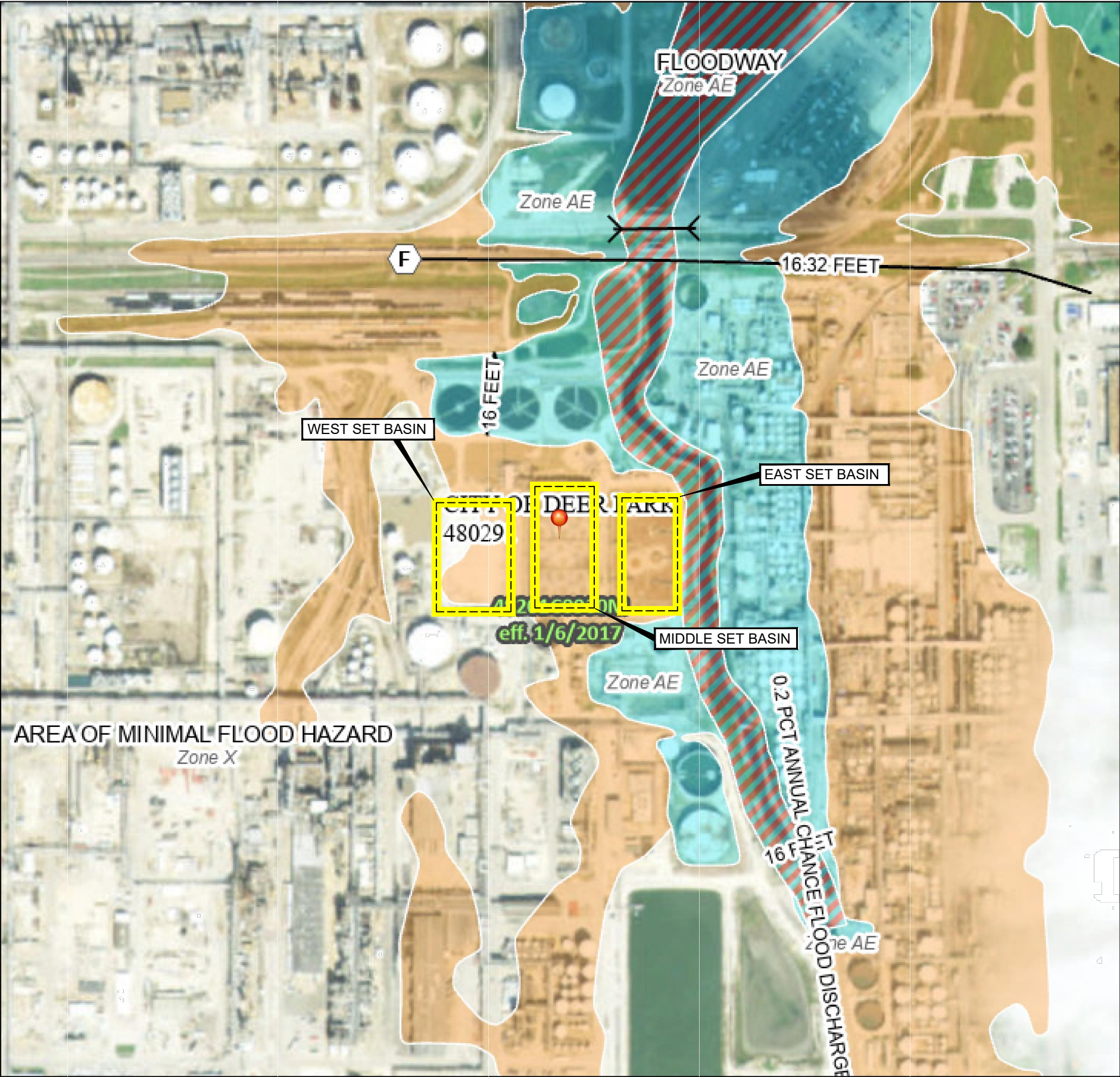
SHELL OIL
DEER PARK, TEXAS

PROJ. NO.: 216077 | DATE: 9/08/22 | FILE: Shell Oil-B22

PERMITTED FACILITY MAP



4801 Southwest Parkway
Parkway II, Suite 150
Austin, Texas 78735
TBPE No. 1298



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

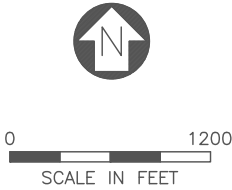
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/3/2022 at 2:41 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



EAST SET BASIN
INACTIVE
1.4 ACRES

MIDDLE SET BASIN
CLOSED
1.5 ACRES

WEST SET BASIN
CLOSED
1.6 ACRES



SHELL OIL
DEER PARK, TEXAS

PROJ. NO.: 221217 | DATE: 5/15/24 | FILE: 117-RPS221217

FIRMETTE 100-YEAR FLOOD MAP



4801 Southwest Parkway
Parkway II, Suite 150
Austin, Texas 78735
TBPE No. 1298

Table V.A. - Facility Waste Management Handling Units

TCEQ Permit Unit No. ¹	Unit Name	NOR No. ¹	Unit Description ³	Capacity	Unit Status ²
2	East SET Basin	038	Surface Impoundment	4,100,000 gallons	Active
3	Middle SET Basin	039	Surface Impoundment	4,100,000 gallons	Closed as Landfill
4	West SET Basin	040	Surface Impoundmen	5,500,000 gallons	Closed as Landfill
8	Phenol 3 BIF	179	Boiler	9,540 lbs/hr feed rate	Active
1*	Site 102 Landfill	NA*	Closed landfill, above grade, surface area not to exceed 2.3 acres, total excavated volume not to exceed 65,000 cubic yards	52,392 cubic yards waste volume at closure	Transferred. Closed as Landfill
2*	Site 104 MTR Landfill Cells 1, 2, and 3	NA* NA*	Secure landfill above grade consisting of 3 cells, total surface area of all cells not to exceed 17.0 acres, total capacity not to exceed 338,000 cubic yards. Cells 2 and 3 constructed. Cell 1 proposed.	338,000 cubic yards (all cells combined)	Transferred. Closed as Landfill Except for Cell 1 which is Proposed.
3*	Waste Pile	NA*	Waste pile, total capacity of 4,825 cubic feet, authorized for storage and stabilization of wastes	4,825 cubic feet	Transferred. Inactive.
4*	Beltway Runoff Lagoon	NA*	Surface Impoundment	16,700 cubic yards	Transferred. Closed as Landfill
5*	Site 101 Landfill	NA*	Landfill	454,560 cubic yards	Transferred. Closed as Landfill
6*	Site 103 Landfill	NA*	Landfill	195,000 cubic yards	Transferred. Closed as Landfill

TCEQ Permit Unit No. ¹	Unit Name	NOR No. ¹	Unit Description ³	Capacity	Unit Status ²
7*	Decant Pond	NA*	Surface Impoundment	8,000,000 gallons	Transferred. Closed as Landfill

1. Permitted Unit No. and NOR No. cannot be reassigned to new units or used more than once and all units that were in the Attachment D of a previously issued permit must be listed.

2. Unit Status options: Active, Closed, Inactive (built but not managing waste), Proposed (not yet built), Never Built, Transferred, Post-Closure.

3. If a unit has been transferred, the applicant should indicate which facility/permit it has been transferred to in the Unit Description column of Table V.A.

* These units were transferred to Deer Park Refining Limited Partnership (DPRLP) in 2022. The TCEQ Permit Unit No. represents the unit number used during the 2022 DPRLP permit application. The historic TCEQ NOR # was not available.

Appendix V.D (See Volume II)

Surface Impoundment Engineering Reports

This permit modification is to request that SCLP be allowed to build over the West South Effluent Treater (West SET or west basin) Basin (TCEQ Permit Unit No. 5; NOR 152) for the purposes of upgrading and expanding existing SET front end. This unit was Certified Closed in December 2017 and accepted as closed as a landfill by the TCEQ on February 13, 2018.

This modification will not alter the East SET and Middle SET, thus, those engineering reports are not include.

Although information pertaining to a “surface impoundment closed as a landfill” would be provided in Appendix V.G – Landfills, the information pertaining to the inactive and closed SET Basins is provided in Appendix V.D to be consistent with the 2022/2023 Renewal Application.

Engineering Plan-2025 West Set Front End Upgrade Conceptual Cap Modification Plan, June 2024

INCLUDED AND THE FOCUS OF THIS PERMIT MODIFICATION

Engineering Report – East SET Basin (From the 2022 Class 3 Application for the Shell Oil Company, Deer Park Complex) **NOT INCLUDED**

Closure Certifications – Middle **NOT INCLUDED**

Closure Certifications - West SET Basins **INCLUDED AS PART OF CAP MODIFICATION PLAN NOTED ABOVE**

Table V.D.1 – Surface Impoundments **INCLUDED**

Table V.D.6 – Surface Impoundment Liner System **INCLUDED**

***Engineering Plan-2025 West Set Front End Upgrade Conceptual Cap
Modification Plan, June 2024***

Appendix V.D

Surface Impoundments Engineering Reports

Table V.D.1 – Surface Impoundments

Table V.D.6 – Surface Impoundment Liner System

Replacement Tables

Table V.D.1. - Surface Impoundments

Permit Unit No.	Surface Impoundment	N.O.R. No.	Waste Nos ¹	Rated Capacity	Dimensions ²	Distance from lowest liner to groundwater	Action Leakage Rate of (if Required)	Unit will manage Ignitable, Reactive, Incompatible, or F20, F021, F022, F023, F026, and F027 Waste (state all that apply)	Unit Status
2	Activated Sludge Biotreater (SET) East Basin	38	4	4.1 MM gals	Length=342' Width=192' Depth=16.5	7'	Not Required	NA	Inactive
3	Activated Sludge Biotreater (SET) Middle Basin	39	4	4.1 MM gals	Length=342' Width=192' Depth=16.5	7'	Not Required	NA	Closed as Landfill
4	Activated Sludge Biotreater (SET) West Basin	40	4	4.1 MM gals	Length=342' Width=192' Depth=16.5	7'	Not Required	NA	Closed as Landfill

¹from Table IV.B, first column

²Dimensions should be provided as average length, width and depth, also include the surface acreage for the unit

Table V.D.6. - Surface Impoundment Liner System

Surface Impoundment	Primary Liner			Secondary Liner			Clay Liner		
	Material	Permeability (cm/sec)	Thickness	Material	Permeability (cm/sec)	Thickness	Material	Permeability (cm/sec)	Thickness
Activated Sludge Biotreater (SET) West Basin	Concrete lined interior slope (top 10ft of slope)	10E-4	6"	-	-	-	Clay	<1X10E-7 >1X10E-9	4 ft. plus

Part B, Section VI

This section has not changed since the last 2022/2023 Class 3 modification and **is not included.**

Part B, Section VII Closure and Post Closure Plans

Table VII.E.2 – Permitted Unit Post-Closure Cost Summary has been updated for inflation and is included.

VII. Closure and Post-Closure Plans

Provide all Part B responsive information in Appendix VII. When preparing the physical format organize your submittal using the [Format of Hazardous Waste permit Application and Instructions](#).

For multiple units provide an include all Part B responsive information in a separate Appendix for each unit.

Submit a full closure plan and post-closure plan, if applicable, which contains all the information required by 30 TAC 335.8, 335.169, 335.172, 335.174, 335.177, 335.178, 335.551-335.569, 30 TAC Chapter 350, 40 CFR 264.112, 264.118, 264.178, 264.197, 264.228, 264.258, 264.280, 264.310, 264.351, 264.575, 264.601, 264.603, 264.1102, 270.14(b)(13), 270.17(f), 270.18(h), 270.20(f), 270.21(e), 270.23(a)(2) & (3), and 270.26(c)(16) where applicable. The owner of property on which an existing disposal facility is located must also submit documentation that a notation has been placed in the deed to the facility that will in perpetuity notify any potential purchasers of the property that the land has been used to manage hazardous wastes and its use is restricted (see 30 TAC 335.5). For hazardous waste disposal units that were closed before submission of the application, the applicant should submit documentation to show that plats and notices required under 40 CFR 264.116 and 264.119 have been filed.

A. Closure

This section applies to the owners and operators of all hazardous waste management facilities to be permitted. The applicant must close the facility in a manner that minimizes need for further maintenance and controls, or eliminates, to the extent necessary to protect human health and the environment, the post-closure release of hazardous waste, hazardous constituents, leachate, contaminated rainfall, or waste decomposition products to the groundwater, surface waters, or to the atmosphere.

The facility type and type of unit to be closed can determine the level of detail sufficient for a closure plan.

For each unit to be permitted, complete Table VII.A. - Unit Closure and list the facility components to be decontaminated, possible methods of decontamination, and possible methods of disposal of wastes and waste residues generated during unit closure. All ancillary components must be included in calculating closure cost estimates.

Additionally, if the applicant plans to close a surface impoundment in accordance with 30 TAC 335.169(a)(1) and the impoundment does not comply with the liner requirements of 30 TAC Section 335.168(a) then the closure plan for the impoundment must include both a plan for complying with 30 TAC 335.169(a)(1) and a contingent plan for complying with 30 TAC 335.169(a)(2).

Guidance on design of a closure cap and final cover for landfills is given in TCEQ Technical Guideline No. 3, and EPA publication 530-SW-85-014 presents guidance on construction quality assurance of liner construction.

If a waste pile does not comply with the liner requirements of 30 TAC Section 335.170(a)(1) then the closure plan for the waste pile must include both a plan for complying with 40 CFR 264.258(a) and a contingent plan for complying with 40 CFR 264.258(b).

The final certification of closure of a land treatment unit may be prepared by an independent licensed Professional Geoscientist in lieu of an independent licensed Professional Engineer. [30 TAC 335.172(b)]

B. Closure Cost Estimate (including contingent closure) [30 TAC 335.178, 40 CFR 264.142]

This section applies to owners or operators of all hazardous waste facilities, except state and federal agencies. A detailed estimate, in current dollars, of the cost of closing the facility should be included in the report. The cost estimate must include the cost of closure at the point in the facilities operating life when the extent and manner of its operation would make closure the most expensive. The TCEQ has published Technical Guideline No. 10, Closure and Post-Closure Cost Estimates, for calculating closure costs which should be consulted. Closure costs should be developed on the basis of abandonment of the site at full capacity and closure activities to be conducted by a third party with no operable on-site equipment. The costs for closing each unit must be detailed.

1. If closure costs are based on contractor bids, the applicant should submit a copy of the bid specification and each contractor's response.
2. If closure costs are based on a detailed analysis, the applicant should submit details of item costs and number of each item, and details of costs for equipment rental, third party labor and supervision, transportation, analytical costs, etc. Provide an itemized cost on Table VII.B. - Unit Closure Cost Estimate for a complete, third party permitted facility closure.

As units are added or deleted from these tables through future permit amendments or modifications, the remaining itemized unit costs should be updated for inflation when re-calculating the revised total cost in current dollars.

3. The closure plan may propose on-site disposal of wastes, residues, etc. during closure of a unit, and this may be executed if on-site capacity exists in other units during closure of a unit. However, the cost estimate for closure must be based on off-site shipment and disposal during closure of all wastes, waste residues, wastes generated by decontamination, contaminated stormwater, and leachate.
4. For each surface impoundment, waste pile, or tank system required to have a contingent closure plan, the cost for closure under the contingent closure plan should be detailed, as well as the cost of proposed closure. The more expensive of the cost of the proposed closure of a unit versus the cost of the contingent closure of the unit should be used in the total facility closure cost estimate.

C. Post-closure

This section applies to owners or operators of all hazardous waste disposal facilities. This section also applies to certain waste piles, tanks and surface impoundments from which the owner or operator intends to remove wastes at closure but which are required to have contingent post-closure plans.

For Landfills, and Waste Piles, Surface Impoundments, and Tanks Closed as a Landfill

1. Provide as-built plans and specifications for the final cover system, individually for each unit that is sealed, signed and dated by a licensed professional engineer with current Texas registration along with the Registered Engineering Firm's name and

Registration Number would satisfy this requirement; Other as-built plans and specifications for the unit may be submitted upon request.

2. Complete the following tables, as applicable:

a. Complete Table V.G.1 - Landfills and list the landfills (and number of cells, if applicable) covered by this application. List the waste(s) managed in each unit and the rated capacity or size of the unit. If wastes are segregated in some manner, list the cell number in which wastes are placed next to each waste type.

b. Table V.G.3. - Landfill Liner System and specify the type of liner used for the landfill.

c. Table V.G.4. - Landfill Leachate Collection System used for the landfill.

d. Table V.E.1 - Waste Piles and list the waste piles covered by this application. List the waste managed in each unit and the rated capacity or size of the unit.

e. Table V.E. 3 - Waste Pile Liner System and specify the type of containment/liner system.

f. Table V.D.1 - Surface Impoundments and list the surface impoundments, covered by this application, to be permitted. List the waste(s) managed in each unit and the rated capacity or size of each unit.

g. Table V.D. 6. - Surface Impoundment Liner System for each surface impoundment to be permitted.

h. Table V.C. Tanks and Tank Systems.

Post-closure care of each hazardous waste management unit must continue for 30 years after the date of completing closure of the unit and must consist of monitoring and reporting of the groundwater monitoring systems in addition to the maintenance and monitoring of waste containment systems. Continuation of certain security requirements may be necessary after the date of closure. Post-closure use of property on or in which hazardous waste remains after closure must never be allowed to disrupt the integrity of the containment system. In addition, submit the following information.

1. The post-closure care plan for a landfill or of a surface impoundment, waste pile, miscellaneous unit, or tank system closed with wastes or waste constituents left in place, or closed under a contingent closure plan, must demonstrate compliance with 30 TAC 335.174(b).
2. The name, address, and phone number of the person or office to contact about the disposal facility during the post-closure period; and
3. A discussion of the future use of the land associated with each unit.
4. For landfills, surface impoundments, waste piles, and land treatment areas closed under interim status, submit the required documentation of 40 CFR 270.14(b)(14).
5. Landfills, surface impoundments, waste piles and land treatment areas that received hazardous wastes after July 26, 1982 or for which closure was certified after January 26, 1983 must be included in post-closure care plans unless they have been determined to have closed by removal equivalent to the closure standards in 40 CFR 264 Subpart G. If such a demonstration has been made pursuant to 40 CFR 270.1(c)(5), but an equivalency determination has not been

made, please submit a copy of the demonstration documentation. If an equivalency determination has been made pursuant to 40 CFR 270.1(c)(6), applicant should submit a copy of the determination. Complete Table VII.C.5. - Land-Based Units Closed Under Interim Status for all land based units closed under interim status.

D. Post-closure Cost Estimate [40 CFR 264.144]

This section regarding post-closure cost estimate applies to owners or operators of all hazardous waste disposal facilities, except state and federal agencies, and certain waste piles, tank systems, and surface impoundments from which the owner or operator intends to remove wastes at closure, but which are required to have contingent closure and post-closure plans. A detailed estimate, in current dollars, of the annual cost of monitoring and maintenance of the facility in accordance with the applicable post-closure regulations must be included in the report. The TCEQ has published Technical Guideline No. 10 for calculating post-closure costs, which should be consulted. Costs should be developed in detail for 30 years of post-closure care activities to be conducted by a third party, for each applicable unit.

1. The applicant should submit details of item costs and number of each item for off-site disposal of leachate and bailed monitor well water, labor and supervision, monitor well sampling and analyses, inspection and repair of the cap(s), mowing and re-seeding of the vegetative cover, maintaining site security, etc. Provide an itemized cost estimate on Table VII.D. - Unit Post-Closure Cost Estimate for complete, third party permitted facility post-closure care.
2. As units are added or deleted from these tables through future permit amendments or modifications, the remaining itemized unit costs should be updated for inflation when re-calculating the revised total cost in current dollars.
3. Total annual cost of post-closure care for the facility including costs of contingent post-closure care should be multiplied by 30 years.

E. Closure and Post-Closure Cost Summary

Please Complete [Table VII.E.1. - Permitted Unit Closure Cost Summary](#)

Please Complete [Table VII.E.2. - Permitted Unit Post-Closure Cost Summary](#)

General Facility Post-Closure Information

The name, address, and phone number of the person or office to contact about the disposal facility during the post-closure period is:

Nicole Roper
Environmental Team Lead
Shell USA, Inc.
5900 highway 2500
Houston, Texas, 77536-2434
713.246.7278
Email: [REDACTED]

Future land use for the permitted units will be industrial and will continue to support post-closure care activities.

Permitted units under post-closure include:

- Activated Sludge Biotreater (South Effluent Treater) East Basin (Appendix VII.C.3)

Appendix VII.E

Closure and Post-Closure Cost Summary

Table VII.E.2 – Permitted Unit Post-Closure Cost Summary

Note: East, West, and Middle SET Basins adjusted for inflation from \$411,365.00 (2021 dollars) to \$456,006.00 (2023 dollars) utilizing TCEQ inflation factors website https://www.tceq.texas.gov/agency/financial/financial-assurance/annual_inflation_factors.html.

Table VII.E.2. - Permitted Unit Post-Closure Cost Summary

Existing Unit Closure Cost Estimate	
Unit	Cost
East, West and Middle SET Basins	\$456,006.00
Phenol 3 Boiler - N/A	
Total Existing Unit Post-Closure Cost Estimate ¹	\$456,006.00

Proposed Unit Post-Closure Cost Estimate	
Unit	Cost
N/A	
Total Proposed Unit Post-Closure Cost Estimate	

1. As units are added or deleted from these tables through future permit amendments or modifications, the remaining itemized unit costs should be updated for inflation when re-calculating the revised total cost in current dollars.

Note: East, West, and Middle SET Basins adjusted for inflation from \$411,365.00 (2021 dollars) to \$456,006.00 (2023 dollars) utilizing TCEQ inflation factors website https://www.tceq.texas.gov/agency/financial/financial-assurance/annual_inflation_factors.html.

Part B, Section VIII Confidential Material - RESERVED

**This section has not changed since the last 2022/2023
Class 3 modification and **is not included**.**

Part B, Section VIII Financial Assurance

This section has not changed since the last 2022/2023 Class 3 modification and **is not included**. However, this section will be updated as necessary if required by the TCEQ financial assurance section.

Part B, Section IX Releases from Solid Waste Units and Corrective Action

Part B, Section X Air Emission Standards

Part B, XI Compliance Plan

**These sections have not changed since the last
2022/2023 Class 3 modification and **are not included**.**

XII. Hazardous Waste Permit Application Fee

Provide all Part B responsive information in Appendix XII. When preparing the physical format organize your submittal using the [Format of Hazardous Waste permit Application and Instructions](#).

In accordance with 30 TAC 305.53, complete Tables XII.A. - Hazardous Waste Units (For Application Fee Calculations) and XII.B. - Hazardous Waste Permit Application Fee Worksheet. Use the following information in calculating your fee. The application fee will be non-refundable once an initial review of the application has been completed. The applicant's fees are subject to evaluation by the technical staff of the Texas Commission on Environmental Quality (TCEQ). However, the TCEQ reserves the right to assess further fees as may be necessary.

- A. The minimum permit application fee for a permit or a permit renewal for each hazardous waste facility to be used for Storage, Processing, Disposal, or Closure/Post-Closure Care (disposal has already occurred) of hazardous waste shall be \$2,000, plus notice fee, and the maximum shall be \$50,000, calculated according to these instructions:
1. Process Analysis - \$1,000.00.
 2. Management/Facility Analysis - \$500.00.
 3. A facility unit(s) analysis of \$500 per unit is charged for the following:
 - a. each cell of a landfill (note that multiple cells that are identical in type and use are subject to a single \$500 fee);
 - b. tanks and container storage areas (note that multiple tanks and container storage areas that are identical in type and use are subject to a single \$500 fee)
 - c. identical in type and use means the following:
 - (1) made of the same material and same design;
 - (2) the same size/capacity within + 10%;
 - (3) store the same waste (as identified by USEPA hazardous waste number - 40 CFR 261 Subparts C & D); and
 - (4) have the same management characteristics (e.g., storage only).
 - d. Each incinerator, boiler/industrial furnace unit, surface impoundment, waste pile, land treatment unit, drip pad, miscellaneous unit, or containment building.
 4. Site Evaluation - \$100 per acre of surface used for hazardous waste management up to 300 acres. No additional fee thereafter. This shall be calculated as any acreage which will be permitted to manage hazardous waste. This shall include, for example, the entire area within the secondary containment of a tank farm, the area within a fence that surrounds individual units (other than the facility fence), or the area defined by the toe of the dike surrounding a landfill or impoundment, etc.
 5. An applicant shall also include with each initial application a fee of \$50 to be applied toward the cost of providing the required notice. An additional notice

fee of \$15 is required with each application for renewal.

B. The application fee for a major amendment or a Class 2 or 3 modification to a hazardous waste permit for operation, closure, or post-closure care is subject to the fees listed below:

1. A management/facility analysis fee of \$500.
2. The notice fee is \$50.
3. If a unit is added or a unit area is expanded for any purpose, \$100 per additional acre is assessed, until the total additional acreage reaches 300 acres.
4. If one or more of the following reports are added or are significantly revised, the process analysis fee of \$1000 is assessed:
 - a. waste analysis plan;
 - b. site-specific or regional geology report;
 - c. site-specific or regional geohydrology report;
 - d. groundwater and/or unsaturated zone monitoring;
 - e. closure and/or post-closure care plan; or
 - f. RCRA Facility Assessments (RFAs), or corrective action reports;
 - g. Alternate Concentration Limit (ACL) demonstration or Development of Protective Concentration Limits (PCLs);
 - h. Regulated Unit Facility Assessment, Corrective Action (CA) work plans or reports for Regulated Units; and/or
 - i. RCRA Facility Investigation (RFI)/Affected Property Assessment (APA), Remedy Selection, Corrective Measure Implementation (CMI)/Remedial Action Plan for solid waste management units, and/or areas of concern;
 - j. Facility Operations Area (FOA).
5. A unit analysis fee of \$500 per unit is assessed if any of the following occur:
 - a. if a unit is added (even if identical to units already in place, using the criteria discussed in A.3 above);
 - b. if there are design changes in an existing unit; or
 - c. if a unit status changes from closure to post-closure care;
 - d. Changes in the number, location, depth, or design of wells approved in compliance plan or a permit (unless it is a replacement well);
 - e. Changes in point of compliance and compliance monitoring program;
 - f. Changes in Groundwater Protection Standards, indicator parameters, Alternate Concentration Limits or Protective Concentration Limits; and/or
 - g. Changes in corrective action program.

C. The application fee for a minor amendment, a Class 1, or a Class 1¹ modification of a

hazardous waste permit is \$100 plus the notice fee of \$50.

Part B, Section XII Closure and Post Closure Plans

Table V.A – Hazardous Waste Units for Application Fee Calculations and Table XII.B – Hazardous Waste Permit Application Fee Worksheet have been updated for the purposes of the application and are included. The required fee is being submitted to the TCEQ cashier under separate cover.

Appendix XII

Hazardous Waste Permit Application Fee

Table XII.A. – Hazardous Waste Units (For Application Fee Calculations)

Table XII.B. - Hazardous Waste Permit Application Fee Worksheet

Table XII.A. - Hazardous Waste Units (For Application Fee Calculations)

Verbal Description of Unit	Rated Capacity	Surface Acreage ¹	# of Unit Types ²	Identical Unit Justification ³
West SET Basin		1.7	1	Basin now closed
		Total 1.7	Total 1	
			Remove Last Row	Add Row

Permit No. 50099
Permittee: Shell USA, Inc.

Table XII.B. - Hazardous Waste Permit Application Fee Worksheet

Name of Facility: _____ Shell USA, Inc., Shell Deer Park Chemicals

Solid Waste Registration Number: _____ 3007

1. Process Analysis - \$1,000..... \$ _____ 1,000

2. Facility Management Analysis - \$500... \$ _____ 500

3. Unit Analysis - _____¹ units @ \$500 per unit..... \$ _____ 500

4. Site Evaluation - _____^{1.7} acres @ \$100 per acre..... \$ _____ 170

(Maximum of 300 acres)

5. Minor amendment, Class 1, or Class 1¹ modification - \$100..... \$ _____

6. Cost of Providing Notice - \$50 (+ \$15 for a renewal) \$ _____ 65

Pay This Amount

Total \$ _____ **\$2,235.00**

Make Checks Payable To:

Texas Commission on Environmental Quality - Fund
549 (*your canceled check will be your receipt*)

Complete And Return With Payment To:

Texas Commission on Environmental
Quality Financial Administration Division -
MC 214 P.O. BOX 13088
Austin, Texas 78711-3088

The applicant's fees are subject to evaluation by the technical staff of the Texas Commission on Environmental Quality (TCEQ). However, the TCEQ reserves the right to assess further fees as may be necessitated.

Please do not submit a photocopy of the check (or equivalent transaction submittal) with your application packet but provide only the following account information:

Check No.	Date of Check	Check Amount
197261022	07/02/2024	\$2,235.00

