Phase I Environmental Site Assessment

Cypress Creek Apartment Homes at La Porte
Northeast Quadrant of Spencer Highway and Airport Boulevard
La Porte, Harris County, Texas
February 21, 2020
Terracon Project No. 92207048

Prepared for:
Stuart Shaw Family Partnership, Ltd.
c/o Cypress Creek La Porte LP
Austin, Texas

Prepared by:
Terracon Consultants, Inc.
Houston, Texas
February 21, 2020

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Attn: Mr. Stuart Shaw
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E: consulting@bonnercarrington.com

Re: Phase I Environmental Site Assessment
Cypress Creek Apartment Homes at La Porte
Northeast Quadrant of Spencer Highway and Airport Boulevard
La Porte, Harris County, Texas
Terracon Project No. 92207048

Dear Mr. Shaw:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced site. This assessment was performed in accordance with Terracon Proposal No. P92207048 dated January 16, 2020, and was conducted consistent with the procedures included in ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The Environmental Professional has read and understands the requirements outlined in Section 11.305 Environmental Site Assessment Rules and Guidelines of the Texas Department of Housing and Community Affairs (TDHCA) 2020 Uniform Multifamily Rules. Terracon will not materially benefit from the Development in any other way than receiving a fee from performing the ESA, and the fee is in no way contingent upon the outcome of the assessment. Terracon grants the TDHCA the authority to rely on the findings of the report. Terracon also understands that the Department may publish the full report on the Department’s website, release the report in response to a request for public information and make other use of the report as authorized by law.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide other environmental, geotechnical, construction materials, and facilities services on a wide variety of projects locally, regionally and nationally. For more detailed information on all of Terrace’s services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

Jessica Kemp
Senior Staff Scientist

Thomas R. Martens
Senior Principal
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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P92207048 dated January 16, 2020, and was consistent with the procedures included in ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The Environmental Professional has read and understands the requirements outlined in Section 11.305 Environmental Site Assessment Rules and Guidelines of the Texas Department of Housing and Community Affairs (TDHCA) 2020 Uniform Multifamily Rules. The purpose of this ESA was to assist the client in developing information to identify Recognized Environmental Conditions (RECs) in connection with the site as reflected by the scope of this report. The ESA was conducted under the supervision or responsible charge of Ms. Jessica Kemp, Environmental Professional, who performed the site reconnaissance on February 7, 2020.

Findings

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use
The site is an approximate 11.5-acre tract of undeveloped land located in the northeast quadrant of Spencer Highway and Airport Boulevard in La Porte, Harris County, Texas.

Historical Information
Based on the review of the historical information, the site has consisted of undeveloped and/or agricultural land since at least the mid-1910s.

The north adjoining property consisted of undeveloped and/or agricultural land from the mid-1910s through the early 2000s when the current residential improvements were constructed. The east adjoining property consisted of undeveloped land from the mid-1910s through the late 1980s when the current church was constructed. The south adjoining property consisted of residential and/or agricultural structures from at least the mid-1910s until commercial development began in the 1970s and continued through the early 2000s. The west adjoining property consisted of undeveloped and/or agricultural land from at least the mid-1910s through the late 1960s when a pipeline easement was constructed.

Records Review
The site was not listed in the current environmental regulatory database obtained by Terracon. A review of federal and state regulatory database information identified several listed facilities within the specified search area.
Harvey & Rihn Aviation
Harvey & Rihn Aviation, located approximately 300 feet west of the site, was identified within the regulatory database as a Texas Commission on Environmental Quality (TCEQ) Industrial and Hazardous Waste (IHW) and petroleum storage tank (PST) facility. This facility is listed as an inactive conditionally exempt small quantity generator (CESQG). No information regarding the historical waste streams generated at this facility were readily available. Review of on-line TCEQ records indicate this facility operated an 8,000-gallon underground storage tank (UST) that was installed in 1978 and was permanently filled in place in 1999. No information regarding the exact location of the UST was available; however, the operational area of this facility (most likely location of the UST) is positioned at least 350 feet west of the site. Additionally, on-line TCEQ records indicate this facility currently operates a 5,000-gallon aviation gasoline aboveground storage tank (AST) that was put in place in 1999. Review of aerial photographs indicate the AST is positioned at least 430 feet west of the site. Based on the distance of operations from the site, the Harvey & Rihn Aviation facility does not constitute an REC to the site.

Terracon has reviewed 10 TAC §11.101(a)(2)(f) - Undesirable Site Features of the 2020 QAP that is detailed below:

(F) Development Sites located within 500 feet of heavy industry (i.e. facilities that require extensive use of land and machinery, produce high levels of external noise such as manufacturing plants, or maintains fuel storage facilities (excluding gas stations);

Based on the absence of apparent manufacturing and machining, Terracon does not consider this facility, that operates with a single aviation gasoline AST, to be considered a “heavy industry” facility as it pertains to subparagraph F. Based on Terracon’s understanding of the 2020 QAP, this facility does not appear to be considered an Undesirable Site Feature. Per HUD Guidelines, Terracon recommends that the only additional testing to be done is a noise study.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon distance from the site.

Terracon reviewed the on-line Railroad Commission of Texas (RRC) records (available through the RRC public GIS map viewer and related databases) to identify registered pipelines and/or oil/gas wells on or adjacent to the site. Based on the review of RRC on-line records, no registered oil/gas wells were identified on or adjacent to the site. On-line RRC records indicate a pipeline easement is located on the west adjoining property. The pipeline easement contains numerous pipelines that carry various products such as crude oil, highly volatile liquid, refined liquid products, and other gases. Various operators of the referenced pipelines were identified. While it is possible that soil and groundwater at the site have been affected by releases from the pipelines, evidence of a release was not identified. Based on this information and Terracon’s experience
investigating pipeline systems, it is our opinion that the likelihood of a release from the pipelines to have impacted the site is considered low enough not to constitute an REC to the site at this time. It should be noted that if a pipeline release were discovered, the owner/operator of the pipeline is typically responsible for associated corrective actions.

Site Reconnaissance
The site currently consists of undeveloped land. Based on the site reconnaissance, RECs were not identified associated with the current site operations.

Adjoining Properties
The site is bound to the north by residential development; to the east by Bayshore Baptist Church; to the south by Spencer Highway followed by Spencer Mini Storage and undeveloped land; and to the west by a pipeline easement. Indications of RECs were not observed with the current uses of adjoining properties.

Additional Services
Based on the authorized scope of work, Terracon conducted Texas Department of Housing and Community Affairs (TDHCA) additional scope items, which include a limited noise review, current survey review, a FEMA Flood Insurance Rate Map review, visual observation for asbestos-containing materials, lead-based paint review, lead in drinking water review, radon records review, oil/gas and chemicals review, and a Vapor Encroachment Screening.

- **Limited noise review**
  Per the Noise Guidebook, published by the U.S. Department of Housing and Urban Development (HUD), items under consideration include: all airports (civilian and military) within 15 miles of the site, all significant roads within 1,000 feet, and all railroads within 3,000 feet of the site. Spencer Highway is located adjacent south of the site. La Porte Municipal Airport is located less than 500 feet west of the site. Railroads were not identified within 3,000 feet of the site. Based on the proximity of a major roadway and airport to the site, per HUD guidelines, Terracon recommends that a noise study be conducted.

- **Current survey review**
  A site diagram, which displays the property boundaries, adjacent streets, and/or improvements on the site and surrounding properties, is provided in Appendix A as Exhibit 2.

- **FEMA Flood Insurance Map review**
  Terracon obtained a copy of the FEMA Flood Insurance Rate Map (FIRM) from the official FEMA website. Review of the FIRM Panel No. 48201C0945M (dated January 6, 2017) indicates that the majority of the site is located within Zone X (outside of the 500-year floodplain). The southwestern and a portion of the western portion of the site are located within Zone X Shaded (0.2% annual chance flood hazard).
- **Visual observation for asbestos-containing materials**
  The site consists of vacant land; therefore, testing for asbestos-containing materials (ACMs) would not be required pursuant to local, state, and federal laws.

- **Lead-based paint review**
  The site consists of vacant land; therefore, testing for lead-based paint materials would not be required pursuant to local, state, and federal laws.

- **Lead in drinking water review**
  Terracon understands that any future development would rely on the City of La Porte to provide drinking water to the site. Terracon reviewed the most recent water quality report to evaluate if water quality meets the applicable lead standard. Based on the 2018 La Porte Water Quality Report, some contaminants were identified within the drinking water; however, none of the contaminants exceeded the Maximum Contaminant Level (MCL). Lead in drinking water is often associated with lead-soldered plumbing in old structures. Since the site consisted of vacant land, no sampling for lead in drinking water was conducted for this project.

- **Radon records review**
  Based on a review of the EPA Map of Radon Zones, the site is located in EPA Zone 3, which includes counties which have a predicted average screening level of less than 2 picoCuries per liter (pCi/L). Radon testing was not conducted as part of the scope of services; additionally, Terracon does not consider future radon testing at the site to be warranted because the potential for the presence of radon is considered low (according to EPA standards).

- **Oil/gas and chemicals review**
  Using current and historical aerial photographs along with state regulatory records, Terracon searched for aboveground storage tanks (ASTs) and/or tank batteries on adjoining and nearby properties. No ASTs were identified on or adjacent to the site. However, a 5,000-gallon aviation gasoline aboveground storage tank (AST) is positioned approximately 430 feet west of the site.

  Due to the absence and/or distance of aboveground stationary containerized hazards of an explosive or fire prone nature a HUD blast zone map and calculation were not deemed necessary at this time.

- **Vapor Encroachment Screening**
  Based on the physical setting of the site and the current and historical use of the site, Vapor Encroachment Conditions (VECs) are not likely to exist at the site at this time.
Opinions and Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E 1527-13 of the Proposed Cypress Creek Apartment Homes at La Porte located in the northeast quadrant of Spencer Highway and Airport Boulevard in La Porte, Harris County, Texas, the site. RECs or Controlled RECs (CRECs) were not identified in connection with the site.

Significant Data Gaps

No significant data gaps were identified within this report.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon did not identify RECs or CRECs. As such, no additional investigation is warranted at this time.

Per HUD guidelines, Terracon recommends that a noise study be conducted.
1.0 INTRODUCTION

1.1 Site Description

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Cypress Creek Apartment Homes at La Porte</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Location/Address</td>
<td>Northeast Quadrant of Spencer Highway and Airport Boulevard La Porte, Harris County, Texas</td>
</tr>
<tr>
<td>Land Area</td>
<td>Approximately 11.5 acres</td>
</tr>
<tr>
<td>Site Improvements</td>
<td>None</td>
</tr>
<tr>
<td>Purpose of this ESA</td>
<td>TDHCA application</td>
</tr>
<tr>
<td>Anticipated Future Site Use</td>
<td>Apartment complex</td>
</tr>
</tbody>
</table>

The site location is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the La Porte, Texas USGS 7.5-minute series topographic map. A Site Diagram of the site and adjoining properties is included as Exhibit 2 of Appendix A. Acronyms and terms used in this report are described in Appendix F.

1.2 Scope of Services

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P92207048 dated January 16, 2020, and was consistent with the procedures included in ASTM E 1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The Environmental Professional has read and understands the requirements outlined in Section 11.305 Environmental Site Assessment Rules and Guidelines of the Texas Department of Housing and Community Affairs (TDHCA) 2020 Uniform Multifamily Rules. Terracon will not materially benefit from the Development in any other way than receiving a fee from performing the ESA, and the fee is in no way contingent upon the outcome of the assessment. Terracon grants the TDHCA the authority to rely on the findings of the report. Terracon also understands that the Department may publish the full report on the Department’s website, release the report in response to a request for public information and make other use of the report as authorized by law. The purpose of this ESA was to assist the client in developing information to identify Recognized Environmental Conditions (RECs) in connection with the site as reflected by the scope of this report. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews, including local government inquiries, as applicable, user-provided information, and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.
ASTM E1527-13 contains a new definition of "migrate/migration," which refers to “the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.” By including this explicit reference to migration in ASTM E1527-13, the standard clarifies that the potential for vapor migration should be addressed as part of a Phase I ESA and was considered by Terracon in evaluation of RECs associated with the site. As requested by the client, the following additional services were performed:

- Limited Noise Review
- Copy of Current Survey
- FEMA Map Review
- Visual Observations for Suspect Asbestos
- Visual Observation for Lead-Based Paint
- Lead in Drinking Water Records Review
- Radon Records Review
- Oil, Gas and Chemicals Review
- Vapor Encroachment Screening

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.
1.4 Additional Scope Limitations, ASTM Deviations and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e. evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder.

An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site’s current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Stuart Shaw Family Partnership, Ltd., Cypress Creek La Porte LP, and the Texas Department of Housing and Community Affairs (TDHCA). Use or reliance by any other party is prohibited without the written authorization of Cypress Creek La Porte LP and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and the Master Services Agreement (MSA)
between Stuart Shaw Family Partnership, Ltd. and Terracon. The limitation of liability defined in the MSA is the aggregate limit of Terracon’s liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E 1527-13 Sections 4.6 and 4.8. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E 1527-13.

1.6 Client Provided Information

Prior to the site visit, Mr. Stuart Shaw, the client's representative, provided the following user questionnaire information as described in ASTM E1527-13 Section 6.

### Client Questionnaire Responses

<table>
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<th>Client Questionnaire Item</th>
<th>Client Did Not Respond</th>
<th>Client’s Response</th>
</tr>
</thead>
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<tr>
<td>Specialized Knowledge or Experience that is material to a REC in connection with the site.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Obvious Indicators of Contamination at the site.</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Terracon’s consideration of the client provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.
2.0 PHYSICAL SETTING

Physical Setting

<table>
<thead>
<tr>
<th>Physical Setting Information</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Topography</strong> (Refer to Appendix A for an excerpt of the Topographic Map)</td>
<td></td>
</tr>
<tr>
<td>Site Elevation</td>
<td>Approximately 20-25 feet (NGVD)</td>
</tr>
<tr>
<td>Surface Runoff/Topographic Gradient</td>
<td>Relatively flat gradient generally sloping towards the southeast.</td>
</tr>
<tr>
<td>Closest Surface Water</td>
<td>A pond located approximately 0.5-mile south of the site.</td>
</tr>
</tbody>
</table>

**Soil Characteristics**

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Lake Charles clay</th>
<th>Harris County, Texas United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) Web Soil Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>The Lake Charles series consist of deep, neutral, nearly level to gently sloping clayey soils on upland prairies. These soils are clayey throughout the profile and have wide deep cracks and intersecting slickensides. They formed in alkaline marine clay. Typically, this soil is somewhat poorly drained. Surface runoff, permeability, and internal drainage are very slow. The available water capacity is high. When this soil is dry, deep, wide cracks form on the surface. Water enters rapidly through the cracks, but it enters very slowly when the soil is wet and the cracks are sealed. There is a high risk of corrosion to uncoated steel.</td>
<td></td>
</tr>
</tbody>
</table>

**Geology/Hydrogeology**

<table>
<thead>
<tr>
<th>Formation</th>
<th>Beaumont Formation</th>
<th>Geologic Atlas of Texas, Houston Sheet, 1982</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Heterogeneous formation containing interbedded layers of clay, sand, and silt.</td>
<td></td>
</tr>
<tr>
<td>Estimated Depth to First Occurrence of Groundwater</td>
<td>Approximately 25-30 feet below ground surface (bgs).</td>
<td>Texas Water Development Board (TWDB)</td>
</tr>
<tr>
<td>*Hydrogeologic Gradient</td>
<td>Not known - may be inferred to be parallel to topographic gradient (generally to the southeast).</td>
<td></td>
</tr>
</tbody>
</table>

*The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.*
3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify past uses for indications of RECs. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, Sanborn Maps

Readily available historical USGS topographic maps and selected historical aerial photographs (at approximately 10 to 15-year intervals) were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps and aerial photographs are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from GeoSearch to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above-listed Sanborn provider, Sanborn maps were not available for the site.

Topographic maps:
- La Porte, Texas, published 1916, 1"=2,000'
- La Porte, Texas, published 1920, 1"=2,640'
- Friendswood, Texas, published 1925, 1"=5,208'
- La Porte, Texas, published 1944, 1"=2,640'
- La Porte, Texas, published 1947, 1"=2,083'
- La Porte, Texas, published 1955, 1"=2,000'
- La Porte, Texas, published 1967, 1"=2,000'
- La Porte, Texas, published 1982, 1"=2,000'
- La Porte, Texas, published 1995, 1"=2,000'
- La Porte, Texas, published 2013, 1"=2,000'

Aerial photographs:
- ASCS, Photo ID# 7-127, April 11, 1944, 1"=500'
- ASCS, Photo ID# 4-63, May 25, 1953, 1"=500'
- USGS, Photo ID# 2-112, October 31, 1962, 1"=500'
- WALLACE, Photo ID# 20, 21, February 21, 1969, 1"=500'
- USGS, Photo ID# 1-26, November 12, 1974, 1"=500'
- TXDOT, Photo ID# 547, April 5, 1979, 1"=500'
- USGS, Photo ID# 511-95, January 31, 1982, 1"=500'
- TXDOT, Photo ID# 78, October 9, 1989, 1"=500'
- USGS, Photo ID# N/A, January 15, 1995, 1"=500'
- USDA, Photo ID# N/A, 2004, 1"=500'
- USDA, Photo ID# N/A, 2005, 1"=500'
- USDA, Photo ID# N/A, 2006, 1"=500'
Historical Topographic Maps and Aerial Photographs

<table>
<thead>
<tr>
<th>Direction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site</td>
<td>Undeveloped and/or agricultural land (1916-2016)</td>
</tr>
<tr>
<td>North</td>
<td>Undeveloped and/or agricultural land (1916-1995); current residential development (2004-2016)</td>
</tr>
<tr>
<td>East</td>
<td>Undeveloped and/or agricultural land (1916-1982); apparent construction activities associated with the development of the present-day church are visible (1989); gradual development of the church (1995-2004); development appears similar to present-day improvements (2005-2016)</td>
</tr>
<tr>
<td>South</td>
<td>A roadway followed by undeveloped and/or agricultural land and apparent residential and/or agricultural structures (1916-1974); a roadway followed by residential and commercial structures and vacant land (1979-1995); a roadway followed by vacant land and current commercial development (2004-2016)</td>
</tr>
<tr>
<td>West</td>
<td>Undeveloped and/or agricultural land (1916-1967); the pipeline easement is visible (1969-2016)</td>
</tr>
</tbody>
</table>

The pipeline easement located on the west adjoining property is further discussed in Section 4.3.

3.2 Historical City Directories

The Cole city directories used in this study were made available through GeoSearch (selected years reviewed: 1962-2019) and were reviewed at approximate five-year intervals. Since these references are copyright protected, reproductions are not provided in this report. Due to the current and historical undeveloped nature, a physical street address was not identified for the site.

Historical City Directories

<table>
<thead>
<tr>
<th>Direction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site</td>
<td>No addresses identified</td>
</tr>
<tr>
<td>North</td>
<td>329-357 Josh Way: no listings (1962-2003); residential listings and/or no listings (2007-2019)</td>
</tr>
</tbody>
</table>
11315 Spencer Highway: no listings (1962-1996/97); Bayshore Baptist Church, Bayshore Learning Center (2003-2019) |
| South     | 11038 Spencer Highway: residential listings (1962-1969); no listings (1975-2019)  
Phase I Environmental Site Assessment
Cypress Creek Apartment Homes at La Porte  ■  La Porte, Texas
February 21, 2020  ■  Terracon Project No. 92207048

<table>
<thead>
<tr>
<th>Direction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11226 Spencer Highway:</td>
<td>residence (1962); no listings (1967); residence (1969); no listings (1975-2019)</td>
</tr>
<tr>
<td>11234 Spencer Highway:</td>
<td>no listings (1962); residence (1967); no listings (1969); residence (1975); no listings (1981-2019)</td>
</tr>
</tbody>
</table>

Harvey & Rihn Aviation, located approximately 300 feet west of the site, was identified within the regulatory database and is further discussed in Section 4.1.

3.3 Site Ownership

Based on a review of information obtained from the Harris County Appraisal District (HCAD) online records, the site is a portion of a larger tract of land owned by Bayshore Baptist Church.

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.5 Environmental Liens and Activity and Use Limitations

While not requested by the client, the GeoSearch regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Environmental lien and activity and use limitation records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.6 Interviews Regarding Current and Historical Site Uses

The following individual was interviewed regarding the current and historical use of the site.
Subsequent to the site reconnaissance, Terracon interviewed Mr. Jason Bailey, a Deacon of Bayshore Baptist Church (the owner of the site), regarding current and historical uses of the site and potential environmental concerns associated with the site. Mr. Bailey indicated he has been associated with the site for over 30 years and, to his knowledge, the site has always consisted of undeveloped land. Mr. Bailey indicated he was not aware of any potential environmental concerns (oil/gas activity, landfilling, illegal dumping, underground storage tanks, hazardous waste storage or spills, etc.) associated with the site.

3.7 Prior Report Review

Terracon requested the client provide any previous environmental reports they are aware of for the site. Previous reports were not provided to Terracon for review.

4.0 RECORDS REVIEW

Regulatory database information was provided by GeoSearch, a contract information services company. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated, and the scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.
### Federal Databases

<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
<th>Distance (miles)</th>
<th>Listings</th>
</tr>
</thead>
<tbody>
<tr>
<td>BF</td>
<td>Brownfields Management System</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>SEMS</td>
<td>Superfund Enterprise Management System</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>SEMSARCH</td>
<td>SEMS Archived Site Inventory</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td>DNPL</td>
<td>Delisted National Priorities List</td>
<td>Site</td>
<td>0</td>
</tr>
<tr>
<td>EC</td>
<td>Federal Engineering Institutional Control Sites</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERNSTX</td>
<td>Emergency Response Notification System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LUCIS</td>
<td>Land Use Control Information System</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>RCRAGR</td>
<td>Resource Conservation &amp; Recovery Act Generator Facilities</td>
<td>0.1</td>
<td>0</td>
</tr>
<tr>
<td>RCRANGR</td>
<td>RCRA Non-Generator Facilities</td>
<td>0.1</td>
<td>0</td>
</tr>
<tr>
<td>NLRRCRAG</td>
<td>No Longer Regulated RCRA Generator Facilities</td>
<td>0.1</td>
<td>0</td>
</tr>
<tr>
<td>NLRRCRAT</td>
<td>No Longer Regulated RCRA Non-CORRACTS TSD Facilities</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>NPL</td>
<td>National Priorities List</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>PNPL</td>
<td>Proposed National Priorities List</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>RCRAC</td>
<td>RCRA - Corrective Action Facilities</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>RCRAT</td>
<td>RCRA - Treatment Storage &amp; Disposal Facilities</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

### State/Tribal Databases

<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
<th>Distance (miles)</th>
<th>Listings</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSA</td>
<td>Brownfields Site Assessments</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>CALF</td>
<td>Closed &amp; Abandoned Landfill Inventory</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>DCR</td>
<td>Dry Cleaner Registration Database</td>
<td>0.25</td>
<td>0</td>
</tr>
<tr>
<td>IHW</td>
<td>Industrial and Hazardous Waste Sites</td>
<td>0.1</td>
<td>1</td>
</tr>
<tr>
<td>IOP</td>
<td>Innocent Owner / Operator Database</td>
<td>0.25</td>
<td>0</td>
</tr>
<tr>
<td>LPST</td>
<td>Leaking Petroleum Storage Tanks</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>LUSTRO6</td>
<td>Leaking Underground Storage Tanks on Tribal Lands (Region 6 States)</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>MSWLF</td>
<td>Municipal Solid Waste Landfill Sites</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>PIHW</td>
<td>Permitted Industrial Hazardous Waste Sites</td>
<td>0.1</td>
<td>0</td>
</tr>
<tr>
<td>PST</td>
<td>Petroleum Storage Tanks</td>
<td>0.1</td>
<td>1</td>
</tr>
<tr>
<td>RRCVCP</td>
<td>Railroad Commission VCP and Brownfield Sites</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>SF</td>
<td>State Superfund</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>SPIILLS</td>
<td>Spills Listing</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>APAR</td>
<td>Affected Property Assessment Reports</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>DCRPS</td>
<td>Dry Cleaner Remediation Program Sites</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>IHWCA</td>
<td>Industrial and Hazardous Waste Corrective Action Sites</td>
<td>0.5</td>
<td>1</td>
</tr>
</tbody>
</table>
Phase I Environmental Site Assessment
Cypress Creek Apartment Homes at La Porte ■ La Porte, Texas
February 21, 2020 ■ Terracon Project No. 92207048

<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
<th>Distance (miles)</th>
<th>Listings</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSD</td>
<td>Municipal Setting Designations</td>
<td>0.25</td>
<td>0</td>
</tr>
<tr>
<td>NOV</td>
<td>Notice of Violations</td>
<td>Site</td>
<td>0</td>
</tr>
<tr>
<td>SIEC01</td>
<td>State Institutional/Engineering Control Sites</td>
<td>Site</td>
<td>0</td>
</tr>
<tr>
<td>USTR06</td>
<td>Underground Storage Tanks on Tribal Lands (Region 6 States)</td>
<td>0.1</td>
<td>0</td>
</tr>
<tr>
<td>VCP</td>
<td>Voluntary Cleanup Program</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>WMRF</td>
<td>Recycling Facilities</td>
<td>Site</td>
<td>0</td>
</tr>
</tbody>
</table>

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report included in Appendix D.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for the identified facilities. Facilities are listed in order of proximity to the subject site.

### Listed Facilities

<table>
<thead>
<tr>
<th>Facility Name and Location</th>
<th>Estimated Distance / Direction/Gradient</th>
<th>Database Listings</th>
<th>REC, CREC, or HREC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harvey &amp; Rihn Aviation</td>
<td>Approximately 300 feet / W / Up-gradient</td>
<td>IHW, PST</td>
<td>No, see discussion below</td>
</tr>
<tr>
<td>101 Airport Blvd</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>La Porte Air National Guard</td>
<td>Greater than 500 feet / W / Up- to Cross-gradient</td>
<td>IHWCA, SEMSARCH</td>
<td>No</td>
</tr>
<tr>
<td>Jason R. Mormon</td>
<td>Approximately 0.89 mile / S / Down-gradient</td>
<td>RCRAC</td>
<td>No</td>
</tr>
<tr>
<td>11101 Fairmont Pkwy</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Harvey & Rihn Aviation**

Harvey & Rihn Aviation, located approximately 300 feet west of the site, was identified within the regulatory database as a Texas Commission on Environmental Quality (TCEQ) Industrial and Hazardous Waste (IHW) and petroleum storage tank (PST) facility. This facility is listed as an inactive conditionally exempt small quantity generator (CESQG). No information regarding the historical waste streams generated at this facility were readily available. Review of on-line TCEQ records indicate this facility operated an 8,000-gallon underground storage tank (UST) that was installed in 1978 and was permanently filled in place in 1999. No information regarding the exact location of the UST was available; however, the operational area of this facility (most likely location of the UST) is positioned at least 350 feet west of the site. Additionally, on-line TCEQ records indicate this facility currently operates a 5,000-gallon aviation gasoline aboveground storage tank (AST) that was put in place in 1999. Review of aerial photographs indicate the AST is positioned at least 430 feet west of the site. Based on the distance of operations from the site, the Harvey & Rihn Aviation facility does not constitute an REC to the site.
Terracon has reviewed 10 TAC §11.101(a)(2)(f) - Undesirable Site Features of the 2020 QAP that is detailed below:

**(F) Development Sites located within 500 feet of heavy industry (i.e. facilities that require extensive use of land and machinery, produce high levels of external noise such as manufacturing plants, or maintains fuel storage facilities (excluding gas stations);**

Based on the absence of apparent manufacturing and machining, Terracon does not consider this facility, that operates with a single aviation gasoline AST, to be considered a “heavy industry” facility as it pertains to subparagraph F. Based on Terracon's understanding of the 2020 QAP, this facility does not appear to be considered an Undesirable Site Feature. Per HUD Guidelines, Terracon recommends that the only additional testing to be done is a noise study.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report did not list facilities in the unmapped section.

### 4.2 Local Agency Inquiries

<table>
<thead>
<tr>
<th>Agency Contacted/ Contact Method</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of La Porte / via on-line submission</td>
<td>The City of La Porte is unable to conduct a search for the site since the site is undeveloped land and does not have a physical address. However, the City of La Porte conducted a search for a developed property east of the site located at 11311 West Main Street. The City of La Porte response indicated that there were no records identified for this nearby address.</td>
</tr>
</tbody>
</table>

### 4.3 Local Area Knowledge

**Pipeline and Oil/Gas Well Review**

Terracon reviewed the on-line Railroad Commission of Texas (RRC) records (available through the RRC public GIS map viewer and related databases) to identify registered pipelines and/or oil/gas wells on or adjacent to the site. Based on the review of RRC on-line records, no registered oil/gas wells were identified on or adjacent to the site. On-line RRC records indicate a pipeline easement is located on the west adjoining property. The pipeline easement contains numerous pipelines that carry various products such as crude oil, highly volatile liquid, refined liquid products, and other gases. Various operators of the referenced pipelines were identified. While it is possible that soil and groundwater at the site have been affected by releases from the pipelines, evidence of a release was not identified. Based on this information and Terracon’s experience investigating pipeline systems, it is our opinion that the likelihood of a release from the pipelines
to have impacted the site is considered low enough not to constitute an REC to the site at this time. It should be noted that if a pipeline release were discovered, the owner/operator of the pipeline is typically responsible for associated corrective actions. A copy of the RRC on-line map can be found in Appendix D.

Houston-Galveston Area Council (HGAC)
The HGAC maintains a multi-county database of permitted and unpermitted closed landfills. According to the HGAC website, no closed landfills have been recorded within a half-mile of the site. A copy of the HGAC map is included in Appendix D of this report.

Zoning/Land Use Records
Review of the on-line City of La Porte Zoning Map indicates the site is zoned High Density Residential (R-3).

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site. Exhibit 2 in Appendix A is a Site Diagram of the site. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

<table>
<thead>
<tr>
<th>Site Reconnaissance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Personnel</td>
<td>Jessica Kemp</td>
</tr>
<tr>
<td>Reconnaissance Date</td>
<td>February 7, 2020</td>
</tr>
<tr>
<td>Weather Conditions</td>
<td>Clear and cool</td>
</tr>
<tr>
<td>Site Contact/Title</td>
<td>None</td>
</tr>
</tbody>
</table>

5.2 Overview of Current Site Occupants

The site is an approximate 11.5-acre tract of undeveloped land located in the northeast quadrant of Spencer Highway and Airport Boulevard in La Porte, Harris County, Texas.

5.3 Overview of Current Site Operations

The site currently consists of undeveloped land with no on-site operations.
5.4 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an “X”) are discussed in more detail following the table.

<table>
<thead>
<tr>
<th>Site Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Category</strong></td>
</tr>
<tr>
<td>Site Operations, Processes, and Equipment</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
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<tr>
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<tr>
<td></td>
</tr>
<tr>
<td>Aboveground Chemical or Waste Storage</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
## Category

### Underground Chemical or Waste Storage, Drainage or Collection Systems
- Underground storage tanks or ancillary UST equipment
- Sumps, cisterns, French drains, catch basins and/or dry wells
- Grease traps
- Septic tanks and/or leach fields
- Oil/water separators, clarifiers, sand traps, triple traps, interceptors
- Pipeline markers
- Interior floor drains

### Electrical Transformers/PCBs
- Transformers and/or capacitors
- Other equipment

### Releases or Potential Releases
- Stressed vegetation
- Stained soil
- Stained pavement or similar surface
- Leachate and/or waste seeps
- Trash, debris and/or other waste materials
- Dumping or disposal areas
- Construction/demolition debris and/or dumped fill dirt
- Surface water discoloration, odor, sheen, and/or free-floating product
- Strong, pungent or noxious odors
- Exterior pipe discharges and/or other effluent discharges

### Other Notable Site Features
- Surface water bodies
- Quarries or pits
- Wastewater lagoons
- Wells

## 6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

<table>
<thead>
<tr>
<th>Direction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>Residential development</td>
</tr>
<tr>
<td>East</td>
<td>Bayshore Baptist Church</td>
</tr>
</tbody>
</table>
7.0 ADDITIONAL SERVICES

At the direction of the client, Terracon conducted additional scope items required by the TDHCA, which included a limited noise review, current survey review, a FEMA Flood Insurance Map review, visual observation for asbestos-containing materials, lead-based paint review, lead in drinking water review, radon records review, oil/gas and chemicals review, and a Vapor Encroachment Screening.

7.1 Limited Noise Review

Per the Noise Guidebook, published by the U.S. Department of Housing and Urban Development (HUD), items under consideration include: all airports (civilian and military) within 15 miles of the site, all significant roads within 1,000 feet, and all railroads within 3,000 feet of the site.

Spencer Highway is located adjacent south of the site. La Porte Municipal Airport is located less than 500 feet west of the site. Railroads were not identified within 3,000 feet of the site. Based on the proximity of a major roadway and airport to the site, per HUD guidelines, Terracon recommends that a noise study be conducted.

7.2 Current Survey

A site diagram, which displays the property boundaries, adjacent streets, and/or improvements on the site and surrounding properties, is provided in Appendix A as Exhibit 2.

7.3 FEMA Flood Insurance Rate Map Review

Terracon obtained a copy of the FEMA Flood Insurance Rate Map (FIRM) from the official FEMA website. Review of the FIRM Panel No. 48201C0945M (dated January 6, 2017) indicates that the majority of the site is located within Zone X (outside of the 500-year floodplain). The southwestern and a portion of the western portion of the site are located within Zone X Shaded (0.2% annual chance flood hazard). A copy of the FIRM is included in Appendix D.
7.4 Visual Observations for Asbestos-Containing Materials

The site consists of vacant land; therefore, testing for asbestos-containing materials (ACMs) would be not be required pursuant to local, state, and federal laws.

7.5 Lead-Based Paint Review

The site consists of vacant land; therefore, testing for lead-based paint materials would not be required pursuant to local, state, and federal laws.

7.6 Lead in Drinking Water Records Review

Terracon understands that any future development would rely on the City of La Porte to provide drinking water to the site. Terracon reviewed the most recent water quality report (2018 City of La Porte Water Quality Report) to evaluate if water quality meets the applicable lead standard. Based on a review of the 2018 City of La Porte Water Quality Report, the City of La Porte drinking water comes from seven groundwater wells, the Gulf Coast Water Aquifer City of Houston Southeast Water Purification Plant, and the Trinity River. Based on the 2018 La Porte Water Quality Report, some contaminants were identified within the drinking water; however, none of the contaminants exceeded the Maximum Contaminant Level (MCL). A copy of the 2018 City of La Porte Water Quality Report is included in Appendix D of this report. Lead in drinking water is often associated with lead-soldered plumbing in old structures. Since the site consisted of vacant land, no sampling for lead in drinking water was conducted for this project.

7.7 Radon Records Review

Based on a review of the EPA Map of Radon Zones, the site is located in EPA Zone 3, which includes counties which have a predicted average screening level of less than 2 picoCuries per liter (pCi/L). Radon testing was not conducted as part of the scope of services; additionally, Terracon does not consider future radon testing at the site to be warranted because the potential for the presence of radon is considered low (according to EPA standards). The Radon Map can be found in Appendix D of this report.

7.8 Oil, Gas and Chemicals

The Environmental Planning Division (EPD) has developed an electronic-based assessment tool that calculates the Acceptable Separation Distance (ASD) from stationary hazards. The ASD is the distance from above ground stationary containerized hazards of an explosive or fire prone nature, to where a HUD assisted project can be located. The ASD is consistent with HUD standards of blast overpressure (0.5 psi-buildings) and thermal radiation (450 BTU/ft² - hr - people and 10,000 BTU/ft² - hr - buildings). Calculation of the ASD is the first step to assess site suitability for proposed HUD-assisted projects near stationary hazards. Additional guidance on ASDs is

Using current and historical aerial photographs along with state regulatory records, Terracon searched for aboveground storage tanks (ASTs) and/or tank batteries on adjoining and nearby properties. No ASTs were identified on or adjacent to the site. However, a 5,000-gallon aviation gasoline aboveground storage tank (AST) is positioned approximately 430 feet west of the site.

Additionally, Terracon identified a pipeline easement with several pipelines containing crude oil, highly volatile liquid, refined liquid products, and other gases located on the west adjoining property.

According to the Barrier Design Guidance for HUD Assisted Projects near Hazardous Facilities dated October 2011, Section III – Exclusion and Limitation of this Guidance: “Pipelines, such as high-pressure natural gas transmission pipelines or liquid petroleum pipelines - Pipelines that transmit hazardous substances are not considered a hazard under 24 CFR Part 51 Subpart C if they are located underground or if they comply with applicable Federal, State or local safety standards.”

Due to the absence and/or distance of aboveground stationary containerized hazards of an explosive or fire prone nature a HUD blast zone map and calculation were not deemed necessary at this time.

7.9 Vapor Encroachment Screening

Terracon conducted a Tier 1 Vapor Encroachment Screening (VES), in general accordance with the procedures included in ASTM E 2600-15, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions. The purpose of the Tier 1 VES is to evaluate whether a vapor encroachment condition (VEC) may be present at the site. A VEC is defined by ASTM as the “presence or likely presence of chemical(s) of concern (COC) vapors in the subsurface of the target property caused by the release of vapors from contaminated soil or groundwater or both either on or near the target property as identified by the Tier I procedures in the Guide.”

This purpose was pursued through use of information collected in conjunction with the ESA, including existing/planned use of the site, type of structures located on the site, surrounding property description, user information, historical and physical records review, regulatory database review, manmade or natural conduits, as applicable, and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant gaps (if identified) are evident from reviewing the applicable scope of services and the Phase I report text.
The scope of work for the Tier 1 VES does not include regulatory file reviews (other than those performed as part of the Phase I ESA) or subsurface investigations to evaluate soil, soil gas, or groundwater quality, nor does it evaluate the potential for vapor intrusion into on-site structures or assess indoor air quality.

7.9.1 Existing / Planned Use of the Site/Structures

This site consists of approximately 11.5 acres of undeveloped land. Terracon understands the future planned use of the site is to construct residential apartments.

7.9.2 Surrounding Area Description

Please refer to section 6.0.

7.9.3 User Specialized Knowledge

Please refer to Section 1.6.

7.9.4 Historical Records

Please refer to Section 3.0.

7.9.5 Regulatory Records

Terracon reviewed the regulatory database (see Section 4.0) for facilities potentially utilizing petroleum hydrocarbons within 0.1 mile of the site and facilities potentially using other volatile chemicals of concern within one-third of a mile of the site. Based on review of the regulatory database, one facility (under the name Harvey & Rihn Aviation) was identified approximately 300 feet west of the site. Based on the distance of operations from the site, the Harvey & Rihn Aviation facility does not constitute an REC to the site. This facility is discussed in further detail in Section 4.1.

7.9.6 Physical Setting Characteristics

The site is located within the Beaumont Formation, characterized as a heterogeneous formation containing interbedded layers of clay, sand, and silt. The depth to groundwater is estimated to be approximately 25-30 feet below ground surface (bgs) and the direction of groundwater flow is estimated to be towards the southeast.

7.9.7 Natural or Man-made Conduits

The site is located in a developed area of the city containing utilities along the adjoining right of way. It is possible that man-made conduits, such as utility corridors, provide a potential path for vapor migration.
7.9.8 Conclusions

The Tier 1 VES results are summarized herein, and the conclusion from the Tier I screening is presented below.

Based on the physical setting of the site and the current and historical use of the site, Vapor Encroachment Conditions (VECs) are not likely to exist at the site at this time.

8.0 DECLARATION

I, Jessica Kemp, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Jessica Kemp
Senior Staff Scientist
APPENDIX A
EXHIBIT 1 – TOPOGRAPHIC MAP
EXHIBIT 2 – SITE DIAGRAM
Cypress Creek Apartment Homes at La Porte ■ La Porte, Texas

Photo 1  Typical view of the site facing south

Photo 2  View of the northern boundary of the site facing west

Photo 3  View of the eastern boundary of the site facing south

Photo 4  View of the southern boundary of the site facing west

Photo 5  View of the western boundary of the site facing south

Photo 6  View facing north from the central portion of the site
Project No. ■ 92207048
Date Photos Taken ■ February 7, 2020

Cypress Creek Apartment Homes at La Porte ■ La Porte, Texas

Photo 7  View facing east from the central portion of the site

Photo 8  View facing south from the central portion of the site

Photo 9  View facing west from the central portion of the site

Photo 10 View of the north adjoining property

Photo 11 View of the east adjoining property

Photo 12 View of the west adjoining property
APPENDIX C
HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE
## Client/User Required Questionnaire

| Person Completing Questionnaire | Name: Stuart Shaw  
Company: Bonner Carrington  
Phone: 512-505-0603  
Email: development@bonnercarrington.com |
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<td>Site Address</td>
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</table>
| Point of Contact for Access      | Name: Dillon Shipper  
Company: Bonner Carrington  
Phone: 512-505-0604  
Email: dillon@bonnercarrington.com |
| Access Restrictions or Special Site Requirements? |  X No  
___ Yes  (If yes, please explain) |
| Confidentiality Requirements?    |  X No  
___ Yes  (If yes, please explain) |
| Current Site Owner               | Name: Richard Benefield  
Company: Bayshore Baptist Church  
Phone: 281-471-0332  
Email: |
| Current Site Operator            | Name: Same as Site Owner  
Company:  
Phone:  
Email: |
| Reasons for ESA                  | TDHCA 9% Application |
| Anticipated Future Site Use      | Apartment Home Community |
| Relevant Documents?              | Please provide Terracon copies of prior Phase I or II ESAs, Asbestos Surveys, Environmental Permits or Audit documents, Underground Storage Tank documents, Geotechnical Investigations, Site Surveys, Diagrams or Maps, or other relevant reports or documents. |

### ASTM User Questionnaire

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Relief and Brownfields Revitalization Act of 2001 (the “Brownfields Amendments”), the user must respond to the following questions. Failure to provide this information to the environmental professional may result in significant data gaps, which may limit our ability to identify recognized environmental conditions resulting in a determination that “all appropriate inquiry” is not complete. This form represents a type of interview and as such, the user has an obligation to answer all questions in good faith, to the extent of their actual knowledge.

1) Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state, or local law (40 CFR 312.25)?  
   X No  
   ___ Yes  (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

2) Did a search of recorded land title records (or judicial records where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state, or local law (40 CFR 312.26)?  
   X No  
   ___ Yes  (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)?  
   X No  
   ___ Yes  (If yes, explain below)

4) Do you have actual knowledge of a lower purchase price because contamination is known or believed to be present at the site (40 CFR 312.29)?  
   X No  
   ___ Yes  
   ___ Not applicable  (If yes or Not applicable, explain below)

5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)?  
   X No  
   ___ Yes  (If yes, explain below)

6) Based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of contamination at the site (40 CFR 312.31)?  
   X No  
   ___ Yes  (If yes, explain below)

**Comments or explanations:**

Please return this form with the signed authorization to proceed.  
Proposal No. P92207048
Cypress Creek Apartment Homes at La Porte
Northeast Quadrant of Spencer Highway & Airport Boulevard
La Porte, Harris County, Texas

Appendix C
Cypress Creek Apartment Homes at La Porte
Northeast Quadrant of Spencer Highway & Airport Boulevard
La Porte, Harris County, Texas

TOPOGRAPHIC MAP

1" = 2000'

Project Manager: JK
Drawn by: GeoSearch
Checked by: TRM
Approved by: JK

Date: 1967

File Name: 92207048

11555 Clay Road, Ste 100
Houston, Texas 77043
Cypress Creek Apartment Homes at La Porte
Northeast Quadrant of Spencer Highway & Airport Boulevard
La Porte, Harris County, Texas
Cypress Creek Apartment Homes at La Porte
Northeast Quadrant of Spencer Highway & Airport Boulevard
La Porte, Harris County, Texas
Cypress Creek Apartment Homes at La Porte
Northeast Quadrant of Spencer Highway & Airport Boulevard
La Porte, Harris County, Texas
AERIAL PHOTOGRAPH

Cypress Creek Apartment Homes at La Porte
Northeast Quadrant of Spencer Highway & Airport Boulevard
La Porte, Harris County, Texas

Project No: 92207048
Scale: 1" = 500'
File Name: USDA
Date: 2014

Appendix C
Fire Insurance Map Abstract

Target Property:
Cypress Creek at Spencer Landing
Spencer Hwy & Airport Blvd, La Porte, Harris, Texas, 77571

Prepared For:
Terracon Consultants-Houston

Order #: 141374
Job #: 336710
Project #: 92207048
Date #: 02/04/20
Date: 02/04/20

GS Job Number: 141374

Company Name: Terracon Consultants-Houston

Project Number: 92207048

Site Information: Cypress Creek at Spencer Landing
Spencer Hwy & Airport Blvd, La Porte, Harris, Texas, 77571

The collections of fire insurance maps listed below were reviewed according to the site information supplied by client. Based on the information provided, no coverage is available.

Library of Congress
University Publications of America
Other Libraries (universities, state, local, etc.).

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Radius Report

GeoLens by GeoSearch

Target Property:
Cypress Creek at Spencer Landing
   Spencer Hwy & Airport Blvd
   La Porte, Harris County, Texas 77571

Prepared For:
Terracon Consultants-Houston

Order #: 141374
Job #: 336706
Project #: 92207048
Date: 02/05/2020
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- Unlocatable Report ................................................... See Attachment  
- Zip Report ............................................................. See Attachment
This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR §312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal, state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR §312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Target Property Information
Cypress Creek at Spencer Landing
Spencer Hwy & Airport Blvd
La Porte, Texas  77571

Coordinates
Area centroid (-95.056000, 29.6662659)
22 feet above sea level

USGS Quadrangle
La Porte, TX

Geographic Coverage Information
County/Parish: Harris (TX)
ZipCode(s):
Pasadena TX: 77507
La Porte TX: 77571
### FEDERAL LISTING

#### Standard Environmental Records

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# Database Summary

## STATE (TX) LISTING

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</table>

**SUB-TOTAL** | **0** | **2** | **0** | **0** | **0** | **0** | **2** |
TRIBAL LISTING

Standard environmental records are displayed in **bold**.

<table>
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<tr>
<th>Acronym</th>
<th>Search Radius (miles)</th>
<th>TP/AP (0 - 0.02)</th>
<th>1/8 Mile (&gt; TP/AP)</th>
<th>1/4 Mile (&gt; 1/8)</th>
<th>1/2 Mile (&gt; 1/4)</th>
<th>1 Mile (&gt; 1/2)</th>
<th>&gt; 1 Mile</th>
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**SUB-TOTAL**

|                      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     |

**TOTAL**

|                      | 0  | 3  | 0  | 0  | 1  | 0  | 4  |       |

**NOTES:**

NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

www.geo-search.com  888-396-0042
Cypress Creek at
Spencer
Landing
Spencer Hwy & Airport
Blvd
La Porte, Texas
77571

Click here to access Satellite view
## Located Sites Summary

**NOTE:** Standard environmental records are displayed in **bold**.

<table>
<thead>
<tr>
<th>Map ID#</th>
<th>Database Name</th>
<th>Site ID#</th>
<th>Relative Elevation</th>
<th>Distance From Site</th>
<th>Site Name</th>
<th>Address</th>
<th>PAGE #</th>
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<tr>
<td>1</td>
<td>IHW</td>
<td>66618</td>
<td>Higher (24 ft.)</td>
<td>0.068 mi. W (359 ft.)</td>
<td>H &amp; R AVIATION</td>
<td>101 AIRPORT BLVD, LA PORTE, TX 77571</td>
<td>16</td>
</tr>
<tr>
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<td>IHWCA</td>
<td>T1611</td>
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<td>AIR NATIONAL GUARD LA PORTE</td>
<td>LA PORTE, TX</td>
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<td>PST</td>
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<td>0.068 mi. W (359 ft.)</td>
<td>272 EIS TEXAS AIR NAT GUARD</td>
<td>10731 SPENCER HWY, LA PORTE, TX 77571</td>
<td>18</td>
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<td>0.068 mi. W (359 ft.)</td>
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<td>11015 W MAIN ST, LA PORTE, TX 77571</td>
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<td>GULF CENTRAL AVIATION</td>
<td>202 N FARRINGTON BLVD, LA PORTE, TX 77571</td>
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<td>HARVEY &amp; RIHN AVIATION</td>
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<td>TRI STAR AVIATION F B O</td>
<td>10615 W MAIN ST, LA PORTE, TX 77571</td>
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<td>0.068 mi. W (359 ft.)</td>
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<td>HWY 225, LA PORTE, TX 77571</td>
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<tr>
<td>2</td>
<td>RCRAC</td>
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<td>Lower (19 ft.)</td>
<td>0.887 mi. S (4683 ft.)</td>
<td>JASON R MORMAN</td>
<td>11101 FAIRMONT PKWY, LA PORTE, TX 77571</td>
<td>38</td>
</tr>
</tbody>
</table>
Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC.

**Target Property Elevation: 22 ft.**

NOTE: Standard environmental records are displayed in **bold**.

### EQUAL/HIGHER ELEVATION

<table>
<thead>
<tr>
<th>Map ID#</th>
<th>Database Name</th>
<th>Elevation</th>
<th>Site Name</th>
<th>Address</th>
<th>Page #</th>
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<tr>
<td>1</td>
<td>IHW</td>
<td>24 ft.</td>
<td>H &amp; R AVIATION</td>
<td>101 AIRPORT BLVD, LA PORTE, TX 77571</td>
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<tr>
<td>1</td>
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<td>AIR NATIONAL GUARD LA PORTE</td>
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<td>24 ft.</td>
<td>272 EIS TEXAS AIR NAT GUARD</td>
<td>10731 SPENCER HWY, LA PORTE, TX 77571</td>
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<td>1</td>
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<td>PST</td>
<td>24 ft.</td>
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<td>202 N FARRINGTON BLVD, LA PORTE, TX 77571</td>
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<td>HARVEY &amp; RIHN AVIATION</td>
<td>101 AIRPORT BLVD, LA PORTE, TX 77571</td>
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<td>TRI STAR AVIATION F B O</td>
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### LOWER ELEVATION

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<th>Map ID#</th>
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<td>38</td>
</tr>
</tbody>
</table>


MAP ID# 1  
Distance from Property: 0.068 mi. (359 ft.) W
Elevation: 24 ft. (Higher than TP)

FACILITY INFORMATION
REGISTRATION#: 66618  
TNRCC ID #: 34384  
NAME: H & R AVIATION  
ADDRESS: 101 AIRPORT BLVD  
LA PORTE, TX 77571
CONTACT: EDIN HARVEY
PHONE: NOT REPORTED
INDUSTRIAL WASTE PERMIT #: NOT REPORTED
MUNICIPAL WASTE PERMIT #: NOT REPORTED
SIC CODE: NOT REPORTED
WASTE GENERATOR: YES
WASTE RECEIVER: NO
WASTE TRANSPORTER: NO
TRANSFER FACILITY: NO
MAQUILADORA (MEXICAN FACILITY): NO
STATUS: INACTIVE
AMOUNT OF WASTE GENERATED: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
GENERATOR TYPE: NOT REPORTED

ACTIVITIES
ACTIVITY TYPE: UNKNOWN
ACTIVITY DESCRIPTION: NOT REPORTED

Back to Report Summary
Distance from Property: 0.068 mi. (359 ft.) W
Elevation: 24 ft. (Higher than TP)

PROGRAM ID: T1611
RN NUMBER: RN104615406
NAME: AIR NATIONAL GUARD LA PORTE
ADDRESS: NOT REPORTED
LA PORTE, TX
STATUS: ACTIVE
STATUS DATE: 5/21/15
PHASE: ONGOING WORKLOAD
LOCATION DESCRIPTION:
IN HARRIS COUNTY NEAR LA PORTE

Back to Report Summary
Distance from Property: 0.068 mi. (359 ft.) W
Elevation: 24 ft. (Higher than TP)

FACTOR INFORMATION

ID#: 2706
NAME: 272 EIS TEXAS AIR NAT GUARD
ADDRESS: 10731 SPENCER HWY
            LA PORTE, TX  77571
COUNTY: HARRIS
REGION: 12
TYPE: FLEET REFUELING
BEGIN DATE: 06/10/1986
STATUS: ACTIVE
EXEMPT STATUS: NO
RECORDS OFF-SITE: NO
NUMBER OF ACTIVE UNDERGROUND TANKS: 0
NUMBER OF ACTIVE ABOVEGROUND TANKS: 1

APPLICATION INFORMATION:
RECEIVED DATE ON EARLIEST REGISTRATION FORM: 05/08/1986
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: 04/21/1986
SIGNATURE NAME & TITLE: A M STEPCHINSKI, LTCOL
ENFORCEMENT ACTION DATE: NOT REPORTED

OWNER
OWNER NUMBER: CN600396121
NAME: TEXAS MILITARY DEPARTMENT
CONTACT ADDRESS: OWNER ADDRESS NOT REPORTED
            CITY NOT REPORTED
TYPE: FEDERAL GOVERNMENT
BEGIN DATE: 06/10/1986
CONTACT ROLE: NOT REPORTED
CONTACT NAME: NOT REPORTED
CONTACT TITLE: NOT REPORTED
ORGANIZATION: NOT REPORTED
PHONE: NOT REPORTED
FAX: NOT REPORTED
EMAIL: NOT REPORTED

OPERATOR
NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION
-NO SELF-CERTIFICATION INFORMATION REPORTED-

CONSTRUCTION NOTIFICATION
NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK
TANK ID: 10
NUMBER OF COMPARTMENTS: 1
INSTALLATION DATE: 08/31/1987
REGISTRATION DATE: 05/08/1986
TANK CAPACITY (GAL): 2000
EMPTY TANK: NOT EMPTY
Petroleum Storage Tanks (PST)

STATUS: PERM FILLED IN PLACE
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: NO
PIPE DESIGN SINGLE WALL: NO

STATUS BEGIN DATE: 08/31/1987
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID: 9677
TANK ID: 10
COMPARTMENT LETTER: A
SUBSTANCES: GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): NOT REPORTED
COMPARTMENT RELEASE DETECTION: NOT REPORTED
SPILL CONTAINMENT AND OVERFILL PREVENTION: NOT REPORTED

PIPING SYSTEMS
MATERIAL: NOT REPORTED
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: NOT REPORTED
PIPING RELEASE DETECTION: NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

TANK ID: 13
INSTALLATION DATE: 08/31/1987
TANK CAPACITY (GAL): 1000
STATUS: REMOVED FROM GROUND
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: NO
PIPE DESIGN SINGLE WALL: NO
NUMBER OF COMPARTMENTS: 1
REGISTRATION DATE: 05/08/1986
EMPTY TANK: NOT EMPTY
STATUS BEGIN DATE: 02/14/1996
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS
MATERIAL:
FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID: 9678
TANK ID: 13
COMPARTMENT LETTER: A
SUBSTANCES: DIESEL
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): 1000
COMPARTMENT RELEASE DETECTION: NOT REPORTED
SPILL CONTAINMENT AND OVERFILL PREVENTION: NOT REPORTED

PIPING SYSTEMS
MATERIAL: FRP
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: NOT REPORTED
PIPING RELEASE DETECTION: NOT REPORTED

PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

TANK ID: 12
NUMBER OF COMPARTMENTS: 1
INSTALLATION DATE: 08/31/1987
REGISTRATION DATE: 05/08/1986
TANK CAPACITY (GAL): 4000
EMPTY TANK: NOT EMPTY
STATUS: REMOVED FROM GROUND
STATUS BEGIN DATE: 02/14/1996
INTERNAL PROTECTION DATE: NOT REPORTED
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN SINGLE WALL: NO
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN SINGLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS
MATERIAL: FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID: 9679
TANK ID: 12
COMPARTMENT LETTER: A
SUBSTANCES: GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): 4000
COMPARTMENT RELEASE DETECTION: NOT REPORTED
SPILL CONTAINMENT AND OVERFILL PREVENTION: NOT REPORTED

PIPING SYSTEMS
MATERIAL: FRP
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: NOT REPORTED

PIPING RELEASE DETECTION: NOT REPORTED

CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

ABOVEGROUND STORAGE TANK INFORMATION
AST ID #: 180286  MULTIPLE COMPARTMENT FLAG: NO
TANK ID: 2  REGISTRATION DATE: 05/15/1996
INSTALLATION DATE: 04/15/1996  STATUS BEGIN DATE: 04/15/1996
TANK CAPACITY (GAL): 4000  REGULATORY STATUS: FULLY REGULATED
STATUS: IN USE  SUBSTANCES: DIESEL

MATERIAL OF CONSTRUCTION
STEEL: YES  CORRUGATED METAL: NO
FIBERGLASS: NO  CONCRETE: NO
ALUMINIUM: NO

CONTAINMENT
EARTHEN DIKE: NO  CONCRETE: NO
CONTAINMENT LINER: YES  NONE: NO
STAGE I VAPOR RECOVERY: NOT REPORTED
STAGE I INSTALLATION DATE: NOT REPORTED
PETROLEUM STORAGE TANKS (PST)

MAP ID# 1

Distance from Property: 0.068 mi. (359 ft.) W
Elevation: 24 ft. (Higher than TP)

FACILITY INFORMATION
ID#: 30054
NAME: CLIFF HYDE FLYING SERVICE
ADDRESS: 11015 W MAIN ST
           LA PORTE, TX 77571
COUNTY: HARRIS
REGION: 12
TYPE: AIRCRAFT REFUELING
BEGIN DATE: 10/31/1986
STATUS: INACTIVE
EXEMPT STATUS: NO
RECORDS OFF-SITE: NO
NUMBER OF ACTIVE UNDERGROUND TANKS: 0
NUMBER OF ACTIVE ABOVEGROUND TANKS: 0

APPLICATION INFORMATION:
RECEIVED DATE ON EARLIEST REGISTRATION FORM: 05/09/1986
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: 05/07/1986
SIGNATURE NAME & TITLE: C HYDE, PRES.
ENFORCEMENT ACTION DATE: NOT REPORTED

OWNER
OWNER NUMBER: CN601102783
NAME: CLIFF HYDE FLYING SERVICE INC
CONTACT ADDRESS: OWNER ADDRESS NOT REPORTED
          CITY NOT REPORTED
TYPE: ORGANIZATION
BEGIN DATE: 10/31/1986
CONTACT ROLE: NOT REPORTED
CONTACT NAME: NOT REPORTED
CONTACT TITLE: NOT REPORTED
ORGANIZATION: NOT REPORTED
PHONE: NOT REPORTED
FAX: NOT REPORTED
EMAIL: NOT REPORTED

OPERATOR
NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION
-No self-certification information reported-

CONSTRUCTION NOTIFICATION
NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK
TANK ID: 2
INSTALLATION DATE: 01/01/1966
TANK CAPACITY (GAL): 10000
NUMBER OF COMPARTMENTS: 1
REGISTRATION DATE: 05/09/1986
EMPTY TANK: NOT EMPTY
Petroleum Storage Tanks (PST)

STATUS: REMOVED FROM GROUND
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: NO
PIPE DESIGN SINGLE WALL: NO

STATUS BEGIN DATE: 01/28/1998
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID: 72003
TANK ID: 2
COMPARTMENT LETTER: A
SUBSTANCES:
GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): 10000
COMPARTMENT RELEASE DETECTION: VAPOR MONITORING
SPILL CONTAINMENT AND OVERFILL PREVENTION: NOT REPORTED

PIPING SYSTEMS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
VAPOR MONITORING
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

TANK ID: 1
INSTALLATION DATE: 01/01/1966
TANK CAPACITY (GAL): 10000
EMPTY TANK: NOT EMPTY
STATUS: REMOVED FROM GROUND
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: NO
PIPE DESIGN SINGLE WALL: NO

NUMBER OF COMPARTMENTS: 1
REGISTRATION DATE: 05/09/1986
STATUS BEGIN DATE: 01/28/1998
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:  NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG:  NO
CORROSION PROTECTION VARIANCE:  NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID:  72004
TANK ID:  1
COMPARTMENT LETTER:  A
SUBSTANCES:  GASOLINE
OTHER SUBSTANCES:  NOT REPORTED
CAPACITY (GAL):  10000
COMPARTMENT RELEASE DETECTION:  VAPOR MONITORING
SPILL CONTAINMENT AND OVERFILL PREVENTION:  NOT REPORTED

PIPING SYSTEMS
MATERIAL:  STEEL
CORROSION PROTECTION:  NOT REPORTED
EXTERNAL CONTAINMENT:  NOT REPORTED
CONNECTORS & VALVES:  NOT REPORTED
PIPING RELEASE DETECTION:
VAPOR MONITORING
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG:  NO
CORROSION PROTECTION VARIANCE:  NO VARIANCE

ABOVEGROUND STORAGE TANK INFORMATION
NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY

Back to Report Summary
Distance from Property: 0.068 mi. (359 ft.) W
Elevation: 24 ft. (Higher than TP)

FACILITY INFORMATION

ID#: 34873
NAME: GULF CENTRAL AVIATION
ADDRESS: 202 N FARRINGTON BLVD
LA PORTE, TX 77571
COUNTY: HARRIS
REGION: 12
TYPE: UNKNOWN
BEGIN DATE: 12/10/1986
STATUS: INACTIVE
EXEMPT STATUS: NO
RECORDS OFF-SITE: NO
NUMBER OF ACTIVE UNDERGROUND TANKS: 0
NUMBER OF ACTIVE ABOVEGROUND TANKS: 0

APPLICATION INFORMATION:
RECEIVED DATE ON EARLIEST REGISTRATION FORM: 05/05/1986
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: 05/05/1986
SIGNATURE NAME & TITLE: THOMAS F HELENBERG, PRES
ENFORCEMENT ACTION DATE: NOT REPORTED

OWNER
OWNER NUMBER: CN600987135
NAME: GULF CENTRAL INC
CONTACT ADDRESS: OWNER ADDRESS NOT REPORTED
CITY NOT REPORTED
TYPE: CORPORATION/COMPANY
BEGIN DATE: 12/10/1986
CONTACT ROLE: NOT REPORTED
CONTACT NAME: NOT REPORTED
CONTACT TITLE: NOT REPORTED
ORGANIZATION: NOT REPORTED
PHONE: NOT REPORTED
FAX: NOT REPORTED
EMAIL: NOT REPORTED

OPERATOR
NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION
- NO SELF-CERTIFICATION INFORMATION REPORTED -

CONSTRUCTION NOTIFICATION
NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK

TANK ID: 1
INSTALLATION DATE: 01/01/1973
TANK CAPACITY (GAL): 5000
NUMBER OF COMPARTMENTS: 1
REGISTRATION DATE: 05/05/1986
EMPTY TANK: NOT EMPTY
Petroleum Storage Tanks (PST)

STATUS: PERM FILLED IN PLACE
STATUS BEGIN DATE: 04/16/1999
INTERNAL PROTECTION DATE: NOT REPORTED
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN SINGLE WALL: NO
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN SINGLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS

MATERIAL:
STEEL

CORROSION PROTECTION:
NOT REPORTED

EXTERNAL CONTAINMENT:
NOT REPORTED

TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS

UST COMPARTMENT ID: 89015
TANK ID: 1
COMPARTMENT LETTER: A
SUBSTANCES: GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): NOT REPORTED
COMPARTMENT RELEASE DETECTION: VAPOR MONITORING
SPILL CONTAINMENT AND OVERFILL PREVENTION: NOT REPORTED

PIPING SYSTEMS

MATERIAL: STEEL
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: NOT REPORTED

PIPING RELEASE DETECTION:
VAPOR MONITORING

PIECE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

TANK ID: 2
NUMBER OF COMPARTMENTS: 1
INSTALLATION DATE: 01/01/1973
REGISTRATION DATE: 05/05/1986
TANK CAPACITY (GAL): 5000
EMPTY TANK: NOT EMPTY
STATUS: PERM FILLED IN PLACE
STATUS BEGIN DATE: 04/16/1999
INTERNAL PROTECTION DATE: NOT REPORTED
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN SINGLE WALL: NO
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN SINGLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS

MATERIAL:
STEEL

CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE
COMPARTMENT DETAILS
UST COMPARTMENT ID: 89016
TANK ID: 2
COMPARTMENT LETTER: A
SUBSTANCES: GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): NOT REPORTED
COMPARTMENT RELEASE DETECTION: VAPOR MONITORING
SPILL CONTAINMENT AND OVERFILL PREVENTION: NOT REPORTED
PIPING SYSTEMS
MATERIAL: STEEL
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: NOT REPORTED
PIPING RELEASE DETECTION:
VAPOR MONITORING
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

ABOVEGROUND STORAGE TANK INFORMATION
NO ABOVEGROUND STORAGE TANK DATA REPORTED FOR THIS FACILITY
MAP ID# 1
Distance from Property: 0.068 mi. (359 ft.) W
Elevation: 24 ft. (Higher than TP)

FACILITY INFORMATION
ID#: 54850
NAME: HARVEY & RIHN AVIATION
ADDRESS: 101 AIRPORT BLVD
LA PORTE, TX  77571
COUNTY: HARRIS
REGION: 12
TYPE: RETAIL
BEGIN DATE: 07/22/1990
STATUS: ACTIVE
EXEMPT STATUS: NO
RECORDS OFF-SITE: NO
NUMBER OF ACTIVE UNDERGROUND TANKS: 0
NUMBER OF ACTIVE ABOVEGROUND TANKS: 1

CONTACT INFORMATION
NAME: DONNA WILLIAMS
ORGANIZATION: HARVEY & RIHN AVIATION
MAIL ADDRESS: MAILING ADDRESS NOT REPORTED
PHONE: (281) 4711675 0

APPLICATION INFORMATION:
RECEIVED DATE ON EARLIEST REGISTRATION FORM: 07/16/1990
SIGNATURE DATE ON EARLIEST REGISTRATION FORM: 06/30/1990
SIGNATURE NAME & TITLE: DEBORAH RIHN, OWNER
ENFORCEMENT ACTION DATE: NOT REPORTED

OWNER
OWNER NUMBER: CN601253792
NAME: HARVEY & RIHN AVIATION INC
CONTACT ADDRESS: OWNER ADDRESS NOT REPORTED
CITY NOT REPORTED
TYPE: ORGANIZATION
BEGIN DATE: 07/22/1990
CONTACT ROLE: NOT REPORTED
CONTACT NAME: NOT REPORTED
CONTACT TITLE: NOT REPORTED
ORGANIZATION: NOT REPORTED
PHONE: NOT REPORTED
FAX: NOT REPORTED
EMAIL: NOT REPORTED

OPERATOR
NO OPERATOR INFORMATION REPORTED

SELF-CERTIFICATION
NO SELF-CERTIFICATION INFORMATION REPORTED

CONSTRUCTION NOTIFICATION
NO CONSTRUCTION NOTIFICATION DATA REPORTED FOR THIS FACILITY

UNDERGROUND STORAGE TANK
TANK ID: 1
INSTALLATION DATE: 01/01/1978
TANK CAPACITY (GAL): 8000
NUMBER OF COMPARTMENTS: 1
REGISTRATION DATE: 07/16/1990
EMPTY TANK: NOT EMPTY
STATUS: PERM FILLED IN PLACE
STATUS BEGIN DATE: 04/16/1999
INTERNAL PROTECTION DATE: NOT REPORTED
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN SINGLE WALL: NO
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN SINGLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS
MATERIAL: FRP
CORROSION PROTECTION: FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT: NOT REPORTED

TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID: 136173
TANK ID: 1
COMPARTMENT LETTER: A
SUBSTANCES: AVIATION GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): NOT REPORTED
COMPARTMENT RELEASE DETECTION: VAPOR MONITORING
SPILL ContAINMENT AND OVERFILL PREVENTION: TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP, DELIVERY SHUT-OFF VALVE

PIPING SYSTEMS
MATERIAL: STEEL
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: NOT REPORTED

PIPING RELEASE DETECTION:
VAPOR MONITORING

PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

ABOVEGROUND STORAGE TANK INFORMATION
AST ID #: 192316 MULTIPLE COMPARTMENT FLAG: NO
TANK ID: 1 REGISTRATION DATE: 10/18/1999
TANK CAPACITY (GAL): 5000 REGULATORY STATUS: FULLY REGULATED
STATUS: IN USE SUBSTANCES: AVIATION GASOLINE

MATERIAL OF CONSTRUCTION
STEEL: YES CORRUGATED METAL: NO
FIBERGLASS: NO CONCRETE: NO
ALUMINIUM: NO
### Petroleum Storage Tanks (PST)

<table>
<thead>
<tr>
<th>Containment Feature</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthen Dike</td>
<td>No</td>
</tr>
<tr>
<td>Concrete</td>
<td>Yes</td>
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<tr>
<td>Containment Liner</td>
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<td>None</td>
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<td>Stage I Vapor Recovery</td>
<td>Not Reported</td>
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<tr>
<td>Stage I Installation Date</td>
<td>Not Reported</td>
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</tbody>
</table>

[Back to Report Summary](#)
**Petroleum Storage Tanks (PST)**

Distance from Property: 0.068 mi. (359 ft.) W  
Elevation: 24 ft. (Higher than TP)

<table>
<thead>
<tr>
<th>FACILITY INFORMATION</th>
<th>CONTACT INFORMATION</th>
</tr>
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<tbody>
<tr>
<td>ID#: 57063</td>
<td>NAME: DAN MAAROUF</td>
</tr>
<tr>
<td>NAME: TRI STAR AVIATION F B O</td>
<td>TITLE: OWNER</td>
</tr>
<tr>
<td>ADDRESS: 10615 W MAIN ST</td>
<td>ORGANIZATION: TRI STAR AVIATION F B O</td>
</tr>
<tr>
<td></td>
<td>MAIL ADDRESS: MAILING ADDRESS NOT REPORTED</td>
</tr>
<tr>
<td></td>
<td>CITY: LA PORTE, TX 77571</td>
</tr>
<tr>
<td>COUNTY: HARRIS</td>
<td>PHONE: (281) 4707827 0</td>
</tr>
<tr>
<td>REGION: 12</td>
<td></td>
</tr>
<tr>
<td>TYPE: AIRCRAFT REFUELING</td>
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</tr>
<tr>
<td>BEGIN DATE: 03/01/1980</td>
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<td>STATUS: ACTIVE</td>
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<tr>
<td>RECORDS OFF-SITE: NO</td>
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<tr>
<td>NUMBER OF ACTIVE UNDERGROUND TANKS: 0</td>
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<tr>
<td>NUMBER OF ACTIVE ABOVEGROUND TANKS: 1</td>
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<tr>
<td>APPLICATION INFORMATION:</td>
<td>RECEIVED DATE ON EARLIEST REGISTRATION FORM: 12/11/1990</td>
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<tr>
<td></td>
<td>SIGNATURE DATE ON EARLIEST REGISTRATION FORM: 12/06/1990</td>
</tr>
<tr>
<td></td>
<td>SIGNATURE NAME &amp; TITLE: CHARLES SMITH, OPER MGR</td>
</tr>
<tr>
<td></td>
<td>ENFORCEMENT ACTION DATE: NOT REPORTED</td>
</tr>
<tr>
<td>OWNER</td>
<td></td>
</tr>
<tr>
<td>OWNER NUMBER: CN600997084</td>
<td></td>
</tr>
<tr>
<td>NAME: TRI-STAR AVIATION INC</td>
<td></td>
</tr>
<tr>
<td>CONTACT ADDRESS: 10615 W MAIN ST</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>TYPE: CORPORATION/COMPANY</td>
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</tr>
<tr>
<td>BEGIN DATE: 05/12/1994</td>
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<td>CONTACT ROLE: OWNCON</td>
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</tr>
<tr>
<td>CONTACT NAME: DAN MAAROUF</td>
<td></td>
</tr>
<tr>
<td>CONTACT TITLE: NOT REPORTED</td>
<td></td>
</tr>
<tr>
<td>ORGANIZATION: TRI STAR AVIATION INC</td>
<td></td>
</tr>
<tr>
<td>PHONE: (281) 4707827 0</td>
<td></td>
</tr>
<tr>
<td>FAX: NOT REPORTED</td>
<td></td>
</tr>
<tr>
<td>EMAIL: NOT REPORTED</td>
<td></td>
</tr>
</tbody>
</table>

OPERATOR

OPERATOR NUMBER: CN600997084
NAME: TRI-STAR AVIATION INC
CONTACT ADDRESS: OPERATOR ADDRESS NOT REPORTED
CITY: LA PORTE, TX 77571
TYPE: CORPORATION/COMPANY
BEGIN DATE: 05/12/1994
CONTACT ROLE: NOT REPORTED
CONTACT NAME: NOT REPORTED
CONTACT TITLE: NOT REPORTED
ORGANIZATION: NOT REPORTED
PHONE: NOT REPORTED
FAX: NOT REPORTED
EMAIL: NOT REPORTED

SECF-CERTIFICATION
-NO SELF-CERTIFICATION INFORMATION REPORTED-

CONSTRUCTION NOTIFICATION
NOTIFICATION CONSTRUCTION ID: 29880
APPLICATION RECEIVED DATE: 07/06/2016
SCHEDULE CONSTRUCTION DATE: 08/06/2016
GENERAL DESCRIPTION OF PROPOSED CONSTRUCTION:
ABANDONMENT IN PLACE OF (1) 12,000 GALLON UNDERGROUND STORAGE TANK

UNDERGROUND STORAGE TANK
TANK ID: 2
INSTALLATION DATE: 03/01/1980
TANK CAPACITY (GAL): 12000
STATUS: PERM FILLED IN PLACE
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: YES
PIPE DESIGN SINGLE WALL: YES
NUMBER OF COMPARTMENTS: 1
REGISTRATION DATE: 12/11/1990
EMPTY TANK: NOT EMPTY
STATUS BEGIN DATE: 09/01/2016
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN DOUBLE WALL: NO
PIECE DESIGN DOUBLE WALL: NO
TANK DETAILS
MATERIAL:
FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE
COMPARTMENT DETAILS
UST COMPARTMENT ID: 155604
TANK ID: 2
COMPARTMENT LETTER: A
SUBSTANCES: NOT REPORTED
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): NOT REPORTED
COMPARTMENT RELEASE DETECTION: GROUNDWATER MONITORING,SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL
SPILL CONTAINMENT AND OVERFILL PREVENTION: TIGHT-FILL FITTING CONTAINER/BUCKET/SPUMP,FACTORY - BUILT
SPILL CONTAINER/BUCKET/SPUMP,DELIVERY SHUT-OFF VALVE,FLOW RESTRICTOR VALUE
PIPE SYSTEMS
MATERIAL: STEEL
CORROSION PROTECTION: CATHODIC PROTECTION - FIELD INSTALLATION
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
TRIENNIAL TIGHTNESS TEST (FOR SUCTION/GRAVITY PIPING), SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: YES
CORROSION PROTECTION VARIANCE: NO VARIANCE

TANK ID: 2
INSTALLATION DATE: 03/01/1980
TANK CAPACITY (GAL): 12000
STATUS: IN USE
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: YES
PIPE DESIGN SINGLE WALL: YES

TANK DETAILS
MATERIAL: FRP
CORROSION PROTECTION:
FRP TANK OR PIPING (NONCORRODIBLE)
EXTERNAL CONTAINMENT: NOT REPORTED

COMPARTMENT DETAILS
UST COMPARTMENT ID: 155604
COMPARTMENT LETTER: A
SUBSTANCES: AVIATION JET FUELS
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): NOT REPORTED
COMPARTMENT RELEASE DETECTION: GROUNDWATER MONITORING, SIR (STAT. INVENTORY RECONCILIATION) & INVENTORY CONTROL
SPILL CONTAINMENT AND OVERFILL PREVENTION: TIGHT-FILL FITTING CONTAINER/Bucket/BUCKET/SUMP, FACTORY - BUILT SPILL CONTAINER/BUCKET/SUMP, DELIVERY SHUT-OFF VALVE, FLOW RESTRICTOR VALUE

PIPING SYSTEMS
MATERIAL: STEEL
CORROSION PROTECTION:
CATHODIC PROTECTION - FIELD INSTALLATION
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: NOT REPORTED

ORDER# 141374    JOB# 336706
TANK ID: 3
INSTALLATION DATE: 01/01/1950
TANK CAPACITY (GAL): 8000
STATUS: PERM FILLED IN PLACE
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: YES
PIPE DESIGN SINGLE WALL: NO

NUMBER OF COMPARTMENTS: 1
REGISTRATION DATE: 12/11/1990
EMPTY TANK: NOT EMPTY
STATUS BEGIN DATE: 05/12/1994
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS
MATERIAL: STEEL
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID: 155605
TANK ID: 3
COMPARTMENT LETTER: A
SUBSTANCES: AVIATION GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): NOT REPORTED
COMPARTMENT RELEASE DETECTION: GROUNDWATER MONITORING
SPILL CONTAINMENT AND OVERFILL PREVENTION: NOT REPORTED

PIPE DESIGN SINGLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK ID: 4
INSTALLATION DATE: 01/01/1965
TANK CAPACITY (GAL): 1950
STATUS: PERM FILLED IN PLACE
INTERNAL PROTECTION DATE: NOT REPORTED
TANK DESIGN SINGLE WALL: YES
PIPE DESIGN SINGLE WALL: NO

NUMBER OF COMPARTMENTS: 1
REGISTRATION DATE: 12/11/1990
EMPTY TANK: NOT EMPTY
STATUS BEGIN DATE: 01/01/1981
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS
MATERIAL: NOT REPORTED
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: NOT REPORTED
PIPE DESIGN SINGLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE
PETROLEUM STORAGE TANKS (PST)

MATERIAL:
STEEL
CORROSION PROTECTION:
NOT REPORTED
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

COMPARTMENT DETAILS
UST COMPARTMENT ID: 155606
TANK ID: 4
COMPARTMENT LETTER: A
SUBSTANCES: GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): NOT REPORTED
COMPARTMENT RELEASE DETECTION: NOT REPORTED
SPILL CONTAINMENT AND OVERFILL PREVENTION: NOT REPORTED

PIPING SYSTEMS
MATERIAL: NOT REPORTED
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES:
NOT REPORTED
PIPING RELEASE DETECTION:
NOT REPORTED
PIPE COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

TANK ID: 1
INSTALLATION DATE: 08/01/1955
TANK CAPACITY (GAL): 8000
EMPTY TANK: NOT EMPTY
STATUS: PERM FILLED IN PLACE
STATUS BEGIN DATE: 05/12/1994
INTERNAL PROTECTION DATE: NOT REPORTED
REGULATORY STATUS: FULLY REGULATED
TANK DESIGN SINGLE WALL: YES
TANK DESIGN DOUBLE WALL: NO
PIPE DESIGN SINGLE WALL: NO
PIPE DESIGN DOUBLE WALL: NO

TANK DETAILS
MATERIAL:
STEEL
CORROSION PROTECTION:
EXTERNAL DIELECTRIC COATING/LAMINATE/TAPE/WRAP
EXTERNAL CONTAINMENT:
NOT REPORTED
TANK COMPLIANCE FLAG
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE
COMPARTMENT DETAILS
UST COMPARTMENT ID: 155607
TANK ID: 1
COMPARTMENT LETTER: A
SUBSTANCES: AVIATION GASOLINE
OTHER SUBSTANCES: NOT REPORTED
CAPACITY (GAL): NOT REPORTED
COMPARTMENT RELEASE DETECTION: GROUNDWATER MONITORING
SPILL CONTAINMENT AND OVERFILL PREVENTION: TIGHT-FILL FITTING CONTAINER/BUCKET/SUMP, DELIVERY SHUT-OFF VALVE

PIPING SYSTEMS
MATERIAL: NOT REPORTED
CORROSION PROTECTION: NOT REPORTED
EXTERNAL CONTAINMENT: NOT REPORTED
CONNECTORS & VALVES: NOT REPORTED
PIPE COMPLIANCE FLAG: NOT REPORTED
CORROSION PROTECTION COMPLIANCE FLAG: NO
CORROSION PROTECTION VARIANCE: NO VARIANCE

ABOVEGROUND STORAGE TANK INFORMATION
AST ID #: 173806 MULTIPLE COMPARTMENT FLAG: NO
TANK ID: 1 REGISTRATION DATE: 12/11/1990
INSTALLATION DATE: 12/01/1994 STATUS BEGIN DATE: 12/01/1994
TANK CAPACITY (GAL): 5000 REGULATORY STATUS: FULLY REGULATED
STATUS: IN USE SUBSTANCES: AVIATION GASOLINE

MATERIAL OF CONSTRUCTION
STEEL: YES CORRUGATED METAL: NO
FIBERGLASS: NO CONCRETE: NO
ALUMINIUM: NO

CONTAINMENT
EARTHEN DIKE: NO CONCRETE: YES
CONTAINMENT LINER: NO NONE: NO
STAGE I VAPOR RECOVERY: NOT REPORTED
STAGE I INSTALLATION DATE: NOT REPORTED
FACILITY INFORMATION

EPA ID#: TX0211899335
SITE ID#: 0604360
NAME: LA PORTE AIR NATIONAL GUARD STATION
ADDRESS: HWY 225
LA PORTE, TX 77571
COUNTY: HARRIS
FEDERAL FACILITY: FEDERAL FACILITY
NPL: NOT ON THE NPL
NON NPL STATUS: NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION
SUPERFUND SITE INFORMATION: CLICK HERE

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

<table>
<thead>
<tr>
<th>ACTION DESCRIPITIONS</th>
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<tbody>
<tr>
<td>DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.</td>
</tr>
<tr>
<td>PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.</td>
</tr>
<tr>
<td>VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.</td>
</tr>
</tbody>
</table>

Back to Report Summary
MAP ID# 2

Distance from Property: 0.887 mi. (4,683 ft.) S
Elevation: 19 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: TXD087612834
NAME: JASON R MORMAN
ADDRESS: 11101 FAIRMONT PKWY
         LA PORTE, TX 77571
CONTACT NAME: JASON MORMAN
CONTACT ADDRESS: PO BOX 188
                 SEABROOK TX 77586-0188
CONTACT PHONE: 281-471-3541
NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 12/19/2003

CERTIFICATION

CERTIFICATION NAME: JASON MORMAN
CERTIFICATION TITLE: OWNER
CERTIFICATION SIGNED DATE: 09/12/2013

CERTIFICATION NAME: JASON R MORMAN
CERTIFICATION TITLE: ENV MGR
CERTIFICATION SIGNED DATE: 08/09/2012

CERTIFICATION NAME: JASON R MORMAN
CERTIFICATION TITLE: AUTHORIZED AGENT
CERTIFICATION SIGNED DATE: 03/01/2002

INDUSTRY CLASSIFICATION (NAICS)

213112 - SUPPORT ACTIVITIES FOR OIL AND GAS OPERATIONS
48411 - GENERAL FREIGHT TRUCKING, LOCAL
562998 - ALL OTHER MISCELLANEOUS WASTE MANAGEMENT SERVICES
81149 - OTHER PERSONAL AND HOUSEHOLD GOODS REPAIR AND MAINTENANCE

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: NON-GENERATOR
LAST UPDATED DATE: 08/14/2016

SUBJECT TO CORRECTIVE ACTION UNIVERSE: YES
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: YES
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: NO
NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: NO
CORRECTIVE ACTION WORKLOAD UNIVERSE: YES

IMPORTER: NO
UNDERGROUND INJECTION: NO
MIXED WASTE GENERATOR: NO
UNIVERSAL WASTE DESTINATION FACILITY: NO
RECYCLER: NO
TRANSFER FACILITY: NO
TRANSPORTER: NO
USED OIL FUEL BURNER: NO
ONSITE BURNER EXEMPTION: NO
USED OIL PROCESSOR: NO
FURNACE EXEMPTION: NO
USED OIL FUEL MARKETER TO BURNER: NO
USED OIL REFINER: NO
SPECIFICATION USED OIL MARKETER: NO
USED OIL TRANSFER FACILITY: NO
USED OIL TRANSPORTER: NO

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

04/20/2015 GME GROUNDWATER MONITORING EVALUATION
04/16/2007 FRR FINANCIAL RECORD REVIEW
10/03/2003 NRR NON-FINANCIAL RECORD REVIEW
05/28/2003 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
03/04/2003    SNN    NOT A SIGNIFICANT NON-COMPLIER
02/27/2001    NRR    NON-FINANCIAL RECORD REVIEW
02/16/2001    FCI    FOCUSED COMPLIANCE INSPECTION
11/30/2000    GME    GROUNDWATER MONITORING EVALUATION
03/07/2000    CSE    COMPLIANCE SCHEDULE EVALUATION
12/14/1999    CEI    COMPLIANCE EVALUATION INSPECTION ON-SITE
09/23/1998    NRR    NON-FINANCIAL RECORD REVIEW
05/13/1998    FRR    FINANCIAL RECORD REVIEW
05/13/1998    SNY    SIGNIFICANT NON-COMPLIER
02/27/1997    CEI    COMPLIANCE EVALUATION INSPECTION ON-SITE
03/27/1993    CEI    COMPLIANCE EVALUATION INSPECTION ON-SITE
04/23/1992    CEI    COMPLIANCE EVALUATION INSPECTION ON-SITE
03/26/1991    CEI    COMPLIANCE EVALUATION INSPECTION ON-SITE
01/24/1991    GME    GROUNDWATER MONITORING EVALUATION
04/20/1990    CEI    COMPLIANCE EVALUATION INSPECTION ON-SITE
07/10/1989    CEI    COMPLIANCE EVALUATION INSPECTION ON-SITE
07/30/1988    NRR    NON-FINANCIAL RECORD REVIEW
07/08/1988    FCI    FOCUSED COMPLIANCE INSPECTION
03/22/1988    CEI    COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS
05/28/2003    XXS    STATE STATUTE OR REGULATION
02/16/2001    XXS    STATE STATUTE OR REGULATION
03/07/2000    XXS    STATE STATUTE OR REGULATION
12/14/1999    XXS    STATE STATUTE OR REGULATION
05/13/1998    264.H    TSD - FINANCIAL REQUIREMENTS
05/13/1998    265.F    TSD IS-GROUND-WATER MONITORING
05/13/1998    XXS    STATE STATUTE OR REGULATION
03/27/1993    262.A    GENERATORS - GENERAL
03/27/1993    264.S    TSD - CORRECTIVE ACTION FOR SWMUS
03/27/1993    XXS    STATE STATUTE OR REGULATION
03/26/1991    264.A    TSD - GENERAL
01/24/1991    XXS    STATE STATUTE OR REGULATION
04/20/1990    264.A    TSD - GENERAL
04/20/1990    XXS    STATE STATUTE OR REGULATION
07/10/1989    XXS    STATE STATUTE OR REGULATION
03/22/1988    264.A    TSD - GENERAL
03/22/1988    264.G    TSD - CLOSURE/POST-CLOSURE
03/22/1988    265.F    TSD IS-GROUND-WATER MONITORING
03/22/1988    XXS    STATE STATUTE OR REGULATION

ENFORCEMENTS
06/26/2003    120    WRITTEN INFORMAL
03/07/2000    110    VERBAL INFORMAL
12/14/1999    110    VERBAL INFORMAL
10/14/1999    310    FINAL 3008(A) COMPLIANCE ORDER
10/07/1999  124  NOTICE OF NONCOMPLIANCE LETTER
01/22/1999  210  INITIAL 3008(A) COMPLIANCE
10/05/1998  141  NOT REPORTED
06/14/1993  120  WRITTEN INFORMAL
05/13/1993  141  NOT REPORTED
03/27/1993  110  VERBAL INFORMAL
07/09/1992  120  WRITTEN INFORMAL
05/09/1991  110  VERBAL INFORMAL
06/11/1990  120  WRITTEN INFORMAL
05/10/1990  110  VERBAL INFORMAL
08/10/1989  120  WRITTEN INFORMAL
12/01/1988  310  FINAL 3008(A) COMPLIANCE ORDER
08/05/1988  210  INITIAL 3008(A) COMPLIANCE

HAZARDOUS WASTE

D001  IGNITABLE WASTE
D002  CORROSIVE WASTE
D003  REACTIVE WASTE
D004  ARSENIC
D005  BARIIUM
D006  CADMIUM
D007  CHROMIUM
D008  LEAD
D009  MERCURY
D010  SELENIUM
D011  SILVER
D012  ENDRIN (1,2,3,4,10,10-HEXACHLORO-1,7-EPOXY-1,4,4A,5,6,7,8,8A-OCTAHYDRO-1,4-ENDO, ENDO-5,8-DIMETH-ANO-NAPHTHALENE)
D013  LINDANE (1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE, GAMMA ISOMER)
D014  METHOXYCHLOR (1,1,1-TRICHLORO-2,2-BIS [PMETHOXYPHENYL]ETHANE)
D015  TOXAPHENE (C10 H10 CL8, TECHNICAL CHLORINATED CAMPHENE, 67-69 PERCENT CHLORINE)
D016  2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)
D017  2,4,5-TP SILVEX (2,4,5-TRICHLOROPHENOXYPROPIONIC ACID)
D019  CARBON TETRACHLORIDE
D028  1,2-DICHLOROETHANE
D039  TETRACHLOROETHYLENE
D040  TRICHLOROETHYLENE
F001  THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:
TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

QUENCHING BATH RESIDUES FROM OIL BATHS FROM METAL HEAT TREATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

SPENT CYANIDE SOLUTIONS FROM SLAT BATH POT CLEANING FROM METAL HEAT TREATING OPERATIONS.

QUENCHING WASTEWATER TREATMENT SLUDGES FROM METAL HEAT TREATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

BOTTOM SEDIMENT SLUDGE FROM THE TREATMENT OF WASTEWATERS FROM WOOD PRESERVING PROCESSES THAT USE CREOSOTE AND/OR PENTACHLOROPHENOL.

WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF CHROME YELLOW AND ORANGE PIGMENTS.

WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF MOLYBDATE ORANGE PIGMENTS.

WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF ZINC YELLOW PIGMENTS.

WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF CHROME GREEN PIGMENTS.

WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF IRON BLUE PIGMENTS.

OVEN RESIDUE FROM THE PRODUCTION OF CHROME OXIDE GREEN PIGMENTS.

DISTILLATION BOTTOMS FROM THE PRODUCTION OF ACETALDEHYDE FROM ETHYLENE.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>K010</td>
<td>DISTILLATION SIDE CUTS FROM THE PRODUCTION OF ACETALDEHYDE FROM ETHYLENE.</td>
</tr>
<tr>
<td>K011</td>
<td>BOTTOM STREAM FROM THE WASTEWATER STRIPPER IN THE PRODUCTION OF ACRYLONITRILE.</td>
</tr>
<tr>
<td>K013</td>
<td>BOTTOM STREAM FROM THE ACETONITRILE COLUMN IN THE PRODUCTION OF ACRYLONITRILE.</td>
</tr>
<tr>
<td>K014</td>
<td>BOTTOMS FROM THE ACETONITRILE PURIFICATION COLUMN IN THE PRODUCTION OF ACRYLONITRILE.</td>
</tr>
<tr>
<td>K015</td>
<td>STILL BOTTOMS FROM THE DISTILLATION OF BENZYL CHLORIDE.</td>
</tr>
<tr>
<td>K016</td>
<td>HEAVY ENDS OR DISTILLATION RESIDUES FROM THE PRODUCTION OF CARBON TETRACHLORIDE.</td>
</tr>
<tr>
<td>K017</td>
<td>HEAVY ENDS (STILL BOTTOMS) FROM THE PURIFICATION COLUMN IN THE PRODUCTION OF EPICHLOROHYDRIN.</td>
</tr>
<tr>
<td>K018</td>
<td>HEAVY ENDS FROM THE FRACTIONATION COLUMN IN ETHYL CHLORIDE PRODUCTION.</td>
</tr>
<tr>
<td>K019</td>
<td>HEAVY ENDS FROM THE DISTILLATION OF ETHYLENE DICHLORIDE IN ETHYLENE DICHLORIDE PRODUCTION.</td>
</tr>
<tr>
<td>K020</td>
<td>HEAVY ENDS FROM THE DISTILLATION OF VINYL CHLORIDE IN VINYL CHLORIDE MONOMER PRODUCTION.</td>
</tr>
<tr>
<td>K021</td>
<td>AQUEOUS SPENT ANTIMONY CATALYST WASTE FROM FLUOROMETHANE PRODUCTION.</td>
</tr>
<tr>
<td>K022</td>
<td>DISTILLATION BOTTOM TARS FROM THE PRODUCTION OF PHENOL/ACETONE FROM CUMENE.</td>
</tr>
<tr>
<td>K023</td>
<td>DISTILLATION LIGHT ENDS FROM THE PRODUCTION OF PHTHALIC ANHYDRIDE FROM NAPHTHALENE.</td>
</tr>
<tr>
<td>K024</td>
<td>DISTILLATION BOTTOMS FROM THE PRODUCTION OF PHTHALIC ANHYDRIDE FROM NAPHTHALENE.</td>
</tr>
<tr>
<td>K025</td>
<td>DISTILLATION BOTTOMS FROM THE PRODUCTION OF NITROBENZENE BY THE NITRATION OF BENZENE.</td>
</tr>
<tr>
<td>K026</td>
<td>STRIPPING STILL TAILS FROM THE PRODUCTION OF METHYL ETHYL PYRIDINES.</td>
</tr>
<tr>
<td>K027</td>
<td>CENTRIFUGE AND DISTILLATION RESIDUES FROM TOLUENE DIISOCYANATE PRODUCTION.</td>
</tr>
<tr>
<td>K028</td>
<td>SPENT CATALYST FROM THE HYDROCHLORINATOR REACTOR IN THE PRODUCTION OF 1,1,1-TRICHLOROETHANE.</td>
</tr>
<tr>
<td>K029</td>
<td>WASTE FROM THE PRODUCT STEAM STRIPPER IN THE PRODUCTION OF 1,1,1-TRICHLOROETHANE.</td>
</tr>
<tr>
<td>K030</td>
<td>COLUMN BOTTOMS OR HEAVY ENDS FROM THE COMBINED PRODUCTION OF TRICHLOROETHYLENE AND PERCHLOROETHYLENE.</td>
</tr>
<tr>
<td>K031</td>
<td>BY-PRODUCT SALTS GENERATED IN THE PRODUCTION OF MSMA AND CACODYLIC ACID.</td>
</tr>
<tr>
<td>K032</td>
<td>WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF CHLORDANE.</td>
</tr>
<tr>
<td>K033</td>
<td>WASTEWATER AND SCRUB WATER FROM THE CHLORINATION OF CYCLOPENTADIENE IN THE PRODUCTION OF CHLORDANE.</td>
</tr>
<tr>
<td>K034</td>
<td>FILTER SOLIDS FROM THE FILTRATION OF HEXACHLOROCYCLOPENTADIENE IN THE PRODUCTION OF CHLORDANE.</td>
</tr>
<tr>
<td>K035</td>
<td>WASTEWATER TREATMENT SLUDGES GENERATED IN THE PRODUCTION OF CREOSOTE.</td>
</tr>
<tr>
<td>K036</td>
<td>STILL BOTTOMS FROM TOLUENE RECLAMATION DISTILLATION IN THE PRODUCTION OF DISULFOTON.</td>
</tr>
<tr>
<td>K037</td>
<td>WASTEWATER TREATMENT SLUDGES FROM THE PRODUCTION OF DISULFOTON.</td>
</tr>
<tr>
<td>K038</td>
<td>WASTEWATER FROM THE WASHING AND STRIPPING OF PHORATE PRODUCTION.</td>
</tr>
<tr>
<td>K039</td>
<td>FILTER CAKE FROM THE FILTRATION OF DIETHYLPHOSPHORODITHIOIC ACID IN THE PRODUCTION OF PHORATE.</td>
</tr>
<tr>
<td>K040</td>
<td>WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF PHORATE.</td>
</tr>
<tr>
<td>K041</td>
<td>WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF TOXAPHENE.</td>
</tr>
<tr>
<td>K042</td>
<td>HEAVY ENDS OR DISTILLATION RESIDUES FROM THE DISTILLATION OF TETRACHLOROBENZENE IN THE PRODUCTION OF 2,4,5-T.</td>
</tr>
<tr>
<td>K043</td>
<td>2,6-DICHLOROPHENOL WASTE FROM THE PRODUCTION OF 2,4-D.</td>
</tr>
<tr>
<td>K044</td>
<td>WASTEWATER TREATMENT SLUDGES FROM THE MANUFACTURING AND PROCESSING OF EXPLOSIVES.</td>
</tr>
<tr>
<td>K045</td>
<td>SPENT CARBON FROM THE TREATMENT OF WASTEWATER CONTAINING EXPLOSIVES.</td>
</tr>
<tr>
<td>K046</td>
<td>WASTEWATER TREATMENT SLUDGES FROM THE MANUFACTURING, FORMULATION, AND LOADING OF LEAD-BASED INITIATING COMPOUNDS.</td>
</tr>
<tr>
<td>K047</td>
<td>PINK/RED WATER FROM TNT OPERATIONS.</td>
</tr>
<tr>
<td>K048</td>
<td>DISSOLVED AIR FLOTATION (DAF) FLOAT FROM THE PETROLEUM REFINING INDUSTRY.</td>
</tr>
<tr>
<td>K049</td>
<td>SLOP OIL EMULSION SOLIDS FROM THE PETROLEUM REFINING INDUSTRY.</td>
</tr>
<tr>
<td>K050</td>
<td>HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY.</td>
</tr>
<tr>
<td>K051</td>
<td>API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY.</td>
</tr>
</tbody>
</table>
K052  TANK BOTTOMS (LEADED) FROM THE PETROLEUM REFINING INDUSTRY.
K053
K054
K055
K056
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K058
K059
K060  AMMONIA STILL LIME SLUDGE FROM COKING OPERATIONS.
K061  EMISSION CONTROL DUST/SLUDGE FROM THE PRIMARY PRODUCTION OF STEEL IN ELECTRIC FURNACES.
K062  SPENT PICKLE LIQUOR FROM STEEL FINISHING OPERATIONS OF PLANTS THAT PRODUCE IRON OR STEEL.
K064  ACID PLANT BLOWDOWN SLURRY/SLUDGE RESULTING FROM THE THICKENING OF BLOWDOWN SLURRY FROM PRIMARY COPPER PRODUCTION.
K065  SURFACE IMPOUNDMENT SOLIDS CONTAINED IN AND DREDGED FROM SURFACE IMPOUNDMENTS AT PRIMARY LEAD SMELTING FACILITIES.
K066  SLUDGE FROM TREATMENT OF PROCESS WASTEWATER AND/OR ACID PLANT BLOWDOWN FROM PRIMARY ZINC PRODUCTION.
K067
K068
K069  EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.
K071  BRINE PURIFICATION MUDS FROM THE MERCURY CELL PROCESS IN CHLORINE PRODUCTION, IN WHICH SEPARATELY PREPURIFIED BRINE IS NOT USED.
K073  CHLORINATED HYDROCARBON WASTE FROM THE PURIFICATION STEP OF THE DIAPHRAGM CELL PROCESS USING GRAPHITE ANODES IN CHLORINE PRODUCTION.
K078
K079
K081
K082
K083
K084
K085
K086
K087
K088
K089
K090
K091

UNIVERSAL WASTE

<table>
<thead>
<tr>
<th>WASTE TYPE</th>
<th>ACCUMULATED WASTE ON-SITE</th>
<th>GENERATED WASTE ON-SITE</th>
<th>SOURCE TYPE</th>
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<tbody>
<tr>
<td>BATTERIES</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>ANNUAL/BIENNIAL REPORT</td>
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<tr>
<td>LAMPS</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>ANNUAL/BIENNIAL REPORT</td>
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<tr>
<td>PESTICIDES</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>ANNUAL/BIENNIAL REPORT</td>
</tr>
<tr>
<td>MERCURY CONTAINING EQUIPMENT</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>ANNUAL/BIENNIAL REPORT</td>
</tr>
</tbody>
</table>
CORRECTIVE ACTION AREA (RELEASE)

AREA NAME: AIR: GROUNDWATER: SOIL: SURFACE WASTE:

ENTIRE FACILITY: ----- ----- ----- ----- 
ZVI-EISB: ----- ----- Y ----- 

CORRECTIVE ACTION EVENT

CA EVENT CODE: CA300
EVENT DESCRIPTION: CMS WORKPLAN APPROVED
EVENT SEQUENCE NUMBER: 1
EVENT RESPONSIBLE AGENCY: STATE
ACTUAL DATE OF EVENT: 11/19/2019
ORIGINAL SCHEDULE DATE OF EVENT: NOT REPORTED
NEW SCHEDULE DATE OF EVENT: NOT REPORTED

-----------------------
CA EVENT CODE: CA150
EVENT DESCRIPTION: INVESTIGATION WORKPLAN APPROVED
EVENT SEQUENCE NUMBER: 1
EVENT RESPONSIBLE AGENCY: STATE
ACTUAL DATE OF EVENT: 11/30/2012
ORIGINAL SCHEDULE DATE OF EVENT: NOT REPORTED
NEW SCHEDULE DATE OF EVENT: NOT REPORTED

-----------------------
CA EVENT CODE: CA400
EVENT DESCRIPTION: REMEDY DECISION
EVENT SEQUENCE NUMBER: 1
EVENT RESPONSIBLE AGENCY: STATE
ACTUAL DATE OF EVENT: 02/14/2006
ORIGINAL SCHEDULE DATE OF EVENT: NOT REPORTED
NEW SCHEDULE DATE OF EVENT: NOT REPORTED

-----------------------
CA EVENT CODE: CA550RC
EVENT DESCRIPTION: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
EVENT SEQUENCE NUMBER: 1
EVENT RESPONSIBLE AGENCY: STATE
ACTUAL DATE OF EVENT: 02/14/2006
ORIGINAL SCHEDULE DATE OF EVENT: NOT REPORTED
NEW SCHEDULE DATE OF EVENT: NOT REPORTED

-----------------------
CA EVENT CODE: CA725YE
EVENT DESCRIPTION: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
EVENT SEQUENCE NUMBER: 1
EVENT RESPONSIBLE AGENCY: STATE
ACTUAL DATE OF EVENT: 03/23/2005
<table>
<thead>
<tr>
<th>CA EVENT CODE</th>
<th>EVENT DESCRIPTION</th>
<th>EVENT SEQUENCE NUMBER</th>
<th>EVENT RESPONSIBLE AGENCY</th>
<th>ACTUAL DATE OF EVENT</th>
<th>ORIGINAL SCHEDULE DATE OF EVENT</th>
<th>NEW SCHEDULE DATE OF EVENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA750YE</td>
<td>RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE</td>
<td>1</td>
<td>STATE</td>
<td>03/23/2005</td>
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<td>CA075HI</td>
<td>CA PRIORITIZATION-HIGH CA PRIORITY</td>
<td>1</td>
<td>EPA</td>
<td>02/24/1992</td>
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<td>CA050</td>
<td>RFA COMPLETED</td>
<td>1</td>
<td>EPA</td>
<td>11/16/1988</td>
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<td>CA070NO</td>
<td>DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT NECESSARY</td>
<td>1</td>
<td>STATE</td>
<td>11/16/1988</td>
<td>NOT REPORTED</td>
<td>NOT REPORTED</td>
</tr>
</tbody>
</table>

[Back to Report Summary](#)
Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found
CDL  Clandestine Drug Laboratory Locations

The U.S. Department of Justice ("the Department") provides this information as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

EC  Federal Engineering Institutional Control Sites

This database includes site locations where Engineering and/or Institutional Controls have been identified as part of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. The data displays remedy component information for Superfund decision documents issued in fiscal years 1982-2017, and it includes final and deleted NPL sites as well as sites with a Superfund Alternative Approach (SAA) agreement in place. The only sites included that are not on the NPL, proposed for NPL, or removed from proposed NPL, are those with an SAA Agreement in place. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ERNSTX  Emergency Response Notification System

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

HMIRSR06  Hazardous Materials Incident Reporting System

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.
ICIS  
Integrated Compliance Information System (formerly DOCKETS)
VERSION DATE: 09/21/19

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

LUCIS  
Land Use Control Information System
VERSION DATE: 09/01/06

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

MLTS  
Material Licensing Tracking System
VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements. Disclaimer: Due to agency regulations and policies, this database contains applicant/licensee location information which may or may not be related to the physical location per MLTS site.

PADS  
PCB Activity Database System
VERSION DATE: 09/14/18

PADS identifies generators, transporters, commercial storers and/or brokers and disposers of Polychlorinated Biphenyls (PCB) who are required to notify the U.S. Environmental Protection Agency of such activities.

RCRASC  
RCRA Sites with Controls
VERSION DATE: 11/22/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.
The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete. Please refer to the SEMSLIENS database as source of current data.

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.
### Environmental Records Definitions - FEDERAL

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTPST</td>
<td>Historical Gas Stations</td>
<td>NR</td>
</tr>
</tbody>
</table>

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRDS</td>
<td>Mineral Resource Data System</td>
<td>03/15/16</td>
</tr>
</tbody>
</table>

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSHA</td>
<td>Mine Safety and Health Administration Master Index File</td>
<td>09/20/19</td>
</tr>
</tbody>
</table>

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>USUMTRCA</td>
<td>Uranium Mill Tailings Radiation Control Act Sites</td>
<td>03/04/17</td>
</tr>
</tbody>
</table>

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALTFUELS</td>
<td>Alternative Fueling Stations</td>
<td>09/24/19</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEMAUST</td>
<td>FEMA Owned Storage Tanks</td>
<td>12/01/16</td>
</tr>
</tbody>
</table>
This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

**ICISCLEANERS** Integrated Compliance Information System Drycleaners
VERSION DATE: 09/21/19

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The U.S. Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments. The following Primary SIC Codes are included in this data: 7211, 7212, 7213, 7215, 7216, 7217, 7218, and/or 7219; the following Primary NAICS Codes are included in this data: 812320, 812331, and/or 812332.

**RCRAGR06** Resource Conservation & Recovery Act - Generator
VERSION DATE: 12/30/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

**RCRANGR06** Resource Conservation & Recovery Act - Non-Generator
VERSION DATE: 12/30/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 6 includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

**BF** Brownfields Management System
VERSION DATE: 10/15/19

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment.
This database included tribal brownfield sites.

DNPL Delisted National Priorities List
VERSION DATE: 10/18/19

This database includes sites from the United States Environmental Protection Agency’s Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

DOD Department of Defense Sites
VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites
VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities
VERSION DATE: 12/30/19

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

NMS Former Military Nike Missile Sites
VERSION DATE: 12/01/84
This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970’s. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

ODI
Open Dump Inventory
VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An “open dump” is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT
Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities
VERSION DATE: 12/30/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS
Superfund Enterprise Management System
VERSION DATE: 10/21/19

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH
Superfund Enterprise Management System Archived Site Inventory
VERSION DATE: 10/22/19

www.geo-search.com  888-396-0042

Order# 141374  Job# 336706  53 of 62
The U.S. Environmental Protection Agency’s (EPA) Superfund Enterprise Management System Archived Site Inventory (List 8R Archived) replaced the CERCLIS NFRAP reporting system in 2015. This listing reflects sites at which the EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program.

### SMCRRA
**Surface Mining Control and Reclamation Act Sites**

Version Date: 11/26/19

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

### FUSRAP
**Formerly Utilized Sites Remedial Action Program**

Version Date: 03/04/17

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

### NLRRRCRAC
**No Longer Regulated RCRA Corrective Action Facilities**

Version Date: 12/30/19

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

### NPL
**National Priorities List**

Version Date: 10/18/19

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

### PNPL
**Proposed National Priorities List**

Version Date: 10/18/19

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal...
Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities
VERSION DATE: 12/30/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

RCRASUBC Resource Conservation & Recovery Act - Subject to Corrective Action Facilities
VERSION DATE: 12/30/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

RODS Record of Decision System
VERSION DATE: 10/18/19

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.
LANDAPP   Land Application Permits
VERSION DATE: 06/03/19

Texas Land Application Permits are a requirement from the Texas Commission on Environmental Quality for any domestic facility that disposes of treated effluent by land application such as surface irrigation, evaporation, drainfields or subsurface land application.

LIENS   TCEQ Liens
VERSION DATE: 06/06/18

Liens filed upon State and/or Federal Superfund Sites by the Texas Commission on Environmental Quality.

SIEC01   State Institutional/Engineering Control Sites
VERSION DATE: 08/20/19

The Texas Risk Reduction Program (TRRP) requires the placement of institutional controls (e.g., deed notices or restrictive covenants) on affected property in different circumstances as part of completing a response action. In its simplest form, an institutional control (IC) is a legal document that is recorded in the county deed records. In certain circumstances, local zoning or ordinances can serve as an IC. This listing may also include locations where Engineering Controls are in effect, such as a cap, barrier, or other engineering device to prevent access, exposure, or continued migration of contamination. The sites included on this list are regulated by various programs of the Texas Commission on Environmental Quality (TCEQ).

SPILLS   Spills Listing
VERSION DATE: 09/19/19

This Texas Commission on Environmental Quality database includes releases of hazardous or potentially hazardous materials into the environment.

STCV   Salt Caverns for Petroleum Storage
VERSION DATE: 09/01/06

The salt caverns for petroleum storage database is provided by the Railroad Commission of Texas.

TIERII   Tier I I Chemical Reporting Program Facilities
VERSION DATE: 12/31/12

The Texas Tier II Chemical Reporting Program in the Department of State Health Services (DSHS) is the state repository for EPCRA-required Emergency Planning Letters (EPLs), which are one-time notifications to the state from facilities that have certain extremely hazardous chemicals in specified amounts. The Program is also the state repository for EPCRA/state-required hazardous chemical inventory reports called Texas Tier Two Reports.
This data contains those facility reports for the 2005 through the 2012 calendar years. Please contact the Texas Commission on Environmental Quality Tier II Chemical Reporting Division as the current source for this data, due to confidentiality and safety reasons details such as the location and capacity of on-site hazardous chemicals is only available to local emergency planning agencies, fire departments, and/or owners.

WMRF  Recycling Facilities
VERSION DATE: 11/01/12

This listing of recycling facilities is provided by the Texas Commission on Environmental Quality's Recycle Texas Online service. The company information provided in this database is self-reported. Since recyclers post their own information, a facility or company appearing on the list does not imply that it is in compliance with TCEQ regulations or other applicable laws. This database is no longer maintained and includes the last compilation of the program participants before the Recycle Texas Online program was closed.

PST  Petroleum Storage Tanks
VERSION DATE: 10/01/19

The Petroleum Storage Tank database is administered by the Texas Commission on Environmental Quality (TCEQ). Both Underground storage tanks (USTs) and Aboveground storage tanks (ASTs) are included in this report. Petroleum Storage Tank registration has been a requirement with the TCEQ since 1986.

NOV  Notice of Violations
VERSION DATE: 02/24/16

This database containing Notice of Violations (NOV) is maintained by the Texas Commission on Environmental Quality. An NOV is a written notification that documents and communicates violations observed during an inspection to the business or individual inspected.

RWS  Radioactive Waste Sites
VERSION DATE: 07/11/06

This Texas Commission on Environmental Quality database contains all sites in the State of Texas that have been designated as Radioactive Waste sites.

DCR  Dry Cleaner Registration Database
VERSION DATE: 10/01/19

The database includes dry cleaning drop stations and facilities registered with the Texas Commission on Environmental Quality.
### IHW
**Industrial and Hazardous Waste Sites**
**VERSION DATE: 05/02/19**

Owner and facility information is included in this database of permitted and non-permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.

### IOP
**Innocent Owner / Operator Database**
**VERSION DATE: 08/20/19**

Texas Innocent Owner / Operator (IOP), created by House Bill 2776 of the 75th Legislature, provides a certificate to an innocent owner or operator if their property is contaminated as a result of a release or migration of contaminants from a source or sources not located on the property, and they did not cause or contribute to the source or sources of contamination. The IOP database is maintained by the Texas Commission on Environmental Quality.

### MSD
**Municipal Setting Designations**
**VERSION DATE: 01/16/19**

The Texas Commission on Environmental Quality (TCEQ) defines an MSD as an official state designation given to property within a municipality or its extraterritorial jurisdiction that certifies that designated groundwater at the property is not used as potable water, and is prohibited from future use as potable water because that groundwater is contaminated in excess of the applicable potable-water protective concentration level. The prohibition must be in the form of a city ordinance, or a restrictive covenant that is enforceable by the city and filed in the property records. The MSD property can be a single property, multi-property, or a portion of property. TCEQ Disclaimer: This data is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

### PIHW
**Permitted Industrial Hazardous Waste Sites**
**VERSION DATE: 05/02/19**

Owner and facility information is included in this database of all permitted industrial and hazardous waste sites. Industrial waste is waste that results from or is incidental to operations of industry, manufacturing, mining, or agriculture. Hazardous waste is defined as any solid waste listed as hazardous or possesses one or more hazardous characteristics as defined in federal waste regulations. Permitted IHW facilities are regulated under 30 Texas Administrative Code Chapter 335 in addition to federal regulations. The IHW database is maintained by the Texas Commission on Environmental Quality.
<table>
<thead>
<tr>
<th>Database</th>
<th>Description</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>APAR</td>
<td>Affected Property Assessment Reports</td>
<td>04/05/19</td>
</tr>
<tr>
<td>BSA</td>
<td>Brownfields Site Assessments</td>
<td>08/01/19</td>
</tr>
<tr>
<td>CALF</td>
<td>Closed &amp; Abandoned Landfill Inventory</td>
<td>11/01/05</td>
</tr>
<tr>
<td>DCRPS</td>
<td>Dry Cleaner Remediation Program Sites</td>
<td>09/01/19</td>
</tr>
<tr>
<td>IHWCA</td>
<td>Industrial and Hazardous Waste Corrective Action Sites</td>
<td>07/09/19</td>
</tr>
</tbody>
</table>

As regulated by the Texas Commission on Environmental Quality, an Affected Property Assessment Report is required when a person is addressing a release of chemical of concern (COC) under 30 TAC Chapter 350, the Texas Risk Reduction Program (TRRP). The purpose of the APAR is to document all relevant affected property information to identify all release sources and COCs, determine the extent of all COCs, identify all transport/exposure pathways, and to determine if any response actions are necessary. The Texas Administrative Code Title 30 §350.4(a)(1) defines affected property as the entire area (i.e. on-site and off-site; including all environmental media) which contains releases of chemicals of concern at concentrations equal to or greater than the assessment level applicable for residential land use and groundwater classification.

The Brownfields Site Assessments database is maintained by the Texas Commission on Environmental Quality (TCEQ). The TCEQ, in close partnership with the U.S. Environmental Protection Agency (EPA) and other federal, state, and local redevelopment agencies, and stakeholders, is facilitating cleanup, transferability, and revitalization of brownfields through the development of regulatory, tax, and technical assistance tools.

The Texas Commission on Environmental Quality, under a contract with Texas State University, and in cooperation with the 24 regional Council of Governments (COGs) in the State, has located over 4,000 closed and abandoned municipal solid waste landfills throughout Texas. This listing contains "unauthorized sites". Unauthorized sites have no permit and are considered abandoned. The information available for each site varies in detail and this historical information is not updated. Please refer to the specific regional COG for the most current information.

This list of DCRP sites is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ, the Dry Cleaner Remediation Program (DCRP) establishes a prioritization list of dry cleaner sites and administers the Dry Cleaning Remediation fund to assist with remediation of contamination caused by dry cleaning solvents.

This database is provided by the Texas Commission on Environmental Quality (TCEQ). According to the TCEQ,
the mission of the industrial and hazardous waste corrective action program is to oversee the cleanup of sites contaminated from industrial and municipal hazardous and industrial nonhazardous wastes. The goals of this program are to: Ensure that sites are assessed and remediates to levels that protect human health and the environment; Verify that waste management units or facilities are taken out of service and closed properly; and to Facilitate revitalization of contaminated properties.

<table>
<thead>
<tr>
<th>LPST</th>
<th>Leaking Petroleum Storage Tanks</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERSION DATE: 12/13/19</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The Leaking Petroleum Storage Tank listing is derived from the Petroleum Storage Tank (PST) database and is maintained by the Texas Commission on Environmental Quality. This listing includes aboveground and underground storage tank facilities with reported leaks.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MSWLFP</th>
<th>Municipal Solid Waste Landfill Sites</th>
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<tbody>
<tr>
<td>VERSION DATE: 09/06/19</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The municipal solid waste landfill database is provided by the Texas Commission on Environmental Quality. This database includes active landfills and inactive landfills, where solid waste is treated or stored.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RRCVCP</th>
<th>Railroad Commission VCP and Brownfield Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERSION DATE: 04/18/19</td>
<td></td>
</tr>
<tr>
<td></td>
<td>According to the Railroad Commission of Texas, their Voluntary Cleanup Program (RRC-VCP) provides an incentive to remediate Oil &amp; Gas related pollution by participants as long as they did not cause or contribute to the contamination. Applicants to the program receive a release of liability to the state in exchange for a successful cleanup.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VCP</th>
<th>Voluntary Cleanup Program Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERSION DATE: 08/20/19</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The Texas Voluntary Cleanup Program (VCP) provides administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas. Since all non-responsible parties, including future lenders and landowners, receive protection from liability to the state of Texas for cleanup of sites under the VCP, most of the constraints for completing real estate transactions at those sites are eliminated. As a result, many unused or underused properties may be restored to economically productive or community beneficial uses. The VCP database is maintained by the Texas Commission on Environmental Quality.</td>
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</table>

<table>
<thead>
<tr>
<th>SF</th>
<th>State Superfund Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERSION DATE: 01/16/19</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The state Superfund program mission is to remediate abandoned or inactive sites within the state that pose an unacceptable risk to public health and safety or the environment, but which do not qualify for action under the</td>
</tr>
</tbody>
</table>
federal Superfund program (NPL - National Priority Listing). As required by the Texas Solid Waste Disposal Act, Texas Health and Safety Code, Chapter 361, the Texas Commission on Environmental Quality identifies and evaluates these facilities for inclusion on the state Superfund registry. This listing includes any recent developments and the anticipated action for these sites as documented in the annual state Superfund registry publication of the Texas Register as well as the Superfund Webpage on the TCEQ website.
<table>
<thead>
<tr>
<th>Database Code</th>
<th>Description</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>USTR06</td>
<td>Underground Storage Tanks On Tribal Lands</td>
<td>10/01/19</td>
</tr>
</tbody>
</table>

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

<table>
<thead>
<tr>
<th>Database Code</th>
<th>Description</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUSTR06</td>
<td>Leaking Underground Storage Tanks On Tribal Lands</td>
<td>10/01/19</td>
</tr>
</tbody>
</table>

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

<table>
<thead>
<tr>
<th>Database Code</th>
<th>Description</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ODINDIAN</td>
<td>Open Dump Inventory on Tribal Lands</td>
<td>11/08/06</td>
</tr>
</tbody>
</table>

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

<table>
<thead>
<tr>
<th>Database Code</th>
<th>Description</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDIANRES</td>
<td>Indian Reservations</td>
<td>01/01/00</td>
</tr>
</tbody>
</table>

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.
Request #2020-52

Terracon is currently conducting an Environmental Site Assessment (ESA) on a property located in La Porte. I would like to request via the Freedom of Information Act and the Texas Open Records Act records pertaining to the following facility: 11311 W. Main Street La Porte, Texas 77571 Key Map: 539Z Project No. 92207048 Specific information pertaining to permits for fuel or chemical storage, i.e. (subsurface features; Septic License) environmental health related complaints, and/or notices of violations recorded during inspections on or immediately adjacent to the site or any information pertaining to any hazardous material spill responses on or adjacent to this location would be helpful in Terracon's evaluation. Terracon acknowledges there may be processing costs associated with this search for which we will be responsible. Please call me at (713) 690-8989 prior to copying any information, so we may ascertain an approximate cost or to set an appointment to review the files (if possible). Written responses can be faxed to (713) 690-2055. Thank you for your timeliness in this matter.

Submitted
Mon, Feb 03, 2020

Status
Submitted

Email
Julian.Smith@terracon.com

Description
Terracon is currently conducting an Environmental Site Assessment (ESA) on a property located in La Porte. I would like to request via the Freedom of Information Act and the Texas Open Records Act records pertaining to the following facility: 11311 W. Main Street La Porte, Texas 77571 Key Map: 539Z Project No. 92207048 Specific information pertaining to permits for fuel or chemical storage, i.e. (subsurface features; Septic License) environmental health related complaints, and/or notices of violations recorded during inspections on or immediately adjacent to the site or any information pertaining to any hazardous material spill responses on or adjacent to this location would be helpful in Terracon's evaluation. Terracon acknowledges there may be processing costs associated
with this search for which we will be responsible. Please call me at (713) 690-8989 prior to copying any information, so we may ascertain an approximate cost or to set an appointment to review the les (if possible). Written responses can be faxed to (713) 690-2055. Thank you for your timeliness in this matter.

Phone
713-690-8989

Name
Julian Smith

State
Texas

Zip
77043

Delivery
Yes

City
Houston

Address
11555 Clay Road

Requested Documents

<table>
<thead>
<tr>
<th>File</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No documents have been added</td>
<td></td>
</tr>
</tbody>
</table>

Rows per page: 10
Hello, Julian Smith.

**Request Number: 2020-52**

The City of La Porte has no records responsive to this request.

Therefore, the City of La Porte is closing its files on this request.

Sincerely,

Sharon Harris
Deputy City Secretary
City Secretary's Office | City of La Porte
P: 281.470.5029 A: 604 W Fairmont Pkwy
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.
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 2/18/2020 at 9:34:34 AM 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.

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.
This map is not intended to determine if a home in a given zone should be tested for radon. Homes with elevated levels of radon have been found in all three zones. All homes should be tested, regardless of zone designation.

IMPORTANT: Consult the publication entitled “Preliminary Geologic Radon Potential Assessment of Texas” (USGS Open-file Report 93-292-F) before using this map. http://energy.cr.usgs.gov/radon/grpinfo.html This document contains information on radon potential variations within counties. EPA also recommends that this map be supplemented with any available local data in order to further understand and predict the radon potential of a specific area.

http://www.epa.gov/radon/zonemap.html
The City of La Porte's drinking water is monitored and tested in accordance with State and Federal regulations, and meets or exceeds all Texas Commission on Environmental Quality and Environmental Protection Agency requirements. The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases radioactive material. It can also pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

**Microbial Contaminants**, such as viruses or bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

**Inorganic Contaminants**, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

**Organic Contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, storm water, and septic systems.

**Pesticides and Herbicides**, which may come from a variety of sources, such as agriculture, urban storm water runoff and residential uses.

**Radioactive Contaminants**, which can be naturally-occurring or be the result of oil and gas production or mining activities.

### Definitions

- **ppm** - parts per million (equal to milligrams per liter)
- **ppb** - parts per billion (equal to micrograms per liter)
- **pCi/l** - picocuries per liter (a measure of radioactivity)
- **NTU** - Nephelometric Turbidity Units (a measure of turbidity)

**Maximum Residual Disinfectant Level (MRDL)** - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG)** - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**Maximum Contaminant Level (MCL)** - The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

**Maximum Contaminant Level Goal (MCLG)** - The level of a contaminant in drinking water below which there is no known or suspected risk to health. MCLG's allow for a margin of safety.

**Action Level** - The concentration of a contaminant, which if exceeded, triggers treatment or other requirements which a water system must follow.

**Coliform Bacteria** - A group of bacteria found in the air, soil and in plants. Water of satisfactory bacteriological quality must be free of coliform organisms. Fecal coliform indicates a serious health concern since these are associated with sewage and animal wastes.

**Level 1 Assessment** - A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria were found.

Special Notice for the Elderly, Infants, Cancer Patients, people with HIV/AIDS or other immune problems:

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; those who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care provider. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800) 426-4791.

The table on the reverse side will show the amounts in which some contaminants were found in the drinking water. No maximum contaminant level was exceeded and there were no violations of drinking water standards. All data presented is from the most recent testing done in accordance with the regulations.
Unregulated Contaminants

<table>
<thead>
<tr>
<th>Year</th>
<th>Constituent</th>
<th>Highest Level at any Sampling Point</th>
<th>Range of Detected Levels</th>
<th>MCL</th>
<th>MCLG</th>
<th>Unit of Measure</th>
<th>Reason for Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>Barium</td>
<td>0.0522</td>
<td>0.0417 - 0.0522</td>
<td>2</td>
<td>2</td>
<td>ppm</td>
<td>Discharge of drilling wastes, metal refineries and erosion of natural deposits</td>
</tr>
<tr>
<td>2018</td>
<td>Fluoride</td>
<td>0.440</td>
<td>0.210 - 0.440</td>
<td>4</td>
<td>4</td>
<td>ppm</td>
<td>Water additive which promotes strong teeth- erosion of natural deposits; discharge from fertilizer and aluminum factories</td>
</tr>
<tr>
<td>2018</td>
<td>Nitrate</td>
<td>1.010</td>
<td>0.320 - 1.010</td>
<td>10</td>
<td>10</td>
<td>ppm</td>
<td>Erosion of natural deposits; runoff from fertilizer use and leaching from septic tanks</td>
</tr>
<tr>
<td>2018</td>
<td>Cyanide</td>
<td>30.00</td>
<td>0.00 - 30.00</td>
<td>200</td>
<td>200</td>
<td>ppb</td>
<td>Discharge from steel/ metal factories; Discharge from plastic and fertilizer factories</td>
</tr>
<tr>
<td>2017</td>
<td>Gross Beta Emitters</td>
<td>6.3</td>
<td>4.0 - 6.3</td>
<td>*50</td>
<td>0</td>
<td>pCi/L</td>
<td>Decay of natural and man-made deposits</td>
</tr>
<tr>
<td>2017</td>
<td>Radium-228</td>
<td>1.13</td>
<td>0.00 - 1.13</td>
<td>*5</td>
<td>0</td>
<td>pCi/L</td>
<td>Decay of natural and man-made deposits</td>
</tr>
</tbody>
</table>

* The MCL for beta particles is 4 mrem per year. The EPA considers 50 pCi/L to be the level of concern for beta particles.

Organics

<table>
<thead>
<tr>
<th>Year</th>
<th>Constituent</th>
<th>Highest Average of any Sampling Point</th>
<th>Range of Detected Levels</th>
<th>MCL</th>
<th>MCLG</th>
<th>Unit of Measure</th>
<th>Possible Source of Constituent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>Atrazine</td>
<td>0.2000</td>
<td>0.1100 - 0.2000</td>
<td>3</td>
<td>3</td>
<td>ppb</td>
<td>Runoff from herbicide used on row crops</td>
</tr>
<tr>
<td>2018</td>
<td>Simazine</td>
<td>0.0800</td>
<td>0.0000 - 0.0800</td>
<td>4</td>
<td>4</td>
<td>ppb</td>
<td>Runoff from herbicide</td>
</tr>
</tbody>
</table>

Disinfection By—Products

<table>
<thead>
<tr>
<th>Year</th>
<th>Constituent</th>
<th>Average of all Sampling Points</th>
<th>Range of Detected Levels</th>
<th>MCL</th>
<th>MCLG</th>
<th>Unit of Measure</th>
<th>Possible Source of Constituent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>Trihalomethanes</td>
<td>31.44</td>
<td>18.40 - 41.50</td>
<td>80</td>
<td>0</td>
<td>ppb</td>
<td>By-product of drinking water chlorination</td>
</tr>
<tr>
<td>2018</td>
<td>Haloacetic Acids</td>
<td>27.61</td>
<td>19.40 - 40.30</td>
<td>60</td>
<td>0</td>
<td>ppb</td>
<td>By-product of drinking water chlorination</td>
</tr>
</tbody>
</table>

Lead and Copper

<table>
<thead>
<tr>
<th>Year</th>
<th>Constituent</th>
<th>The 90th Percentile</th>
<th>Number of Sites Exceeding Action Level</th>
<th>Action Level</th>
<th>Unit of Measure</th>
<th>Possible Source of Constituent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>Lead</td>
<td>2.430</td>
<td>0</td>
<td>15</td>
<td>ppb</td>
<td>Erosion of natural deposits; Corrosion of household plumbing systems; leaching from wood preservatives</td>
</tr>
<tr>
<td>2016</td>
<td>Copper</td>
<td>0.395</td>
<td>0</td>
<td>1.3</td>
<td>ppm</td>
<td>Erosion of natural deposits; Corrosion of household plumbing systems; leaching from wood preservatives</td>
</tr>
</tbody>
</table>

Turbidity

<table>
<thead>
<tr>
<th>Year</th>
<th>Constituent</th>
<th>Highest Single Measurement</th>
<th>Lowest Monthly % of Samples meeting Limits</th>
<th>Turbidity Limits</th>
<th>Unit of Measure</th>
<th>Source of Constituent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>Turbidity</td>
<td>0.100</td>
<td>100%</td>
<td>0.300</td>
<td>NTU</td>
<td>Soil Runoff</td>
</tr>
</tbody>
</table>

Disinfection

<table>
<thead>
<tr>
<th>Year</th>
<th>Constituent</th>
<th>Annual Average All Sampling Points</th>
<th>Range of Detected Levels</th>
<th>MRDL</th>
<th>MRDLG</th>
<th>Unit of Measure</th>
<th>Source of Constituent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>Chlorine and</td>
<td>2.41</td>
<td>0.30 - 3.50</td>
<td>4</td>
<td>4</td>
<td>ppm</td>
<td>Disinfectant used to control microbial contaminants</td>
</tr>
<tr>
<td></td>
<td>Chloramine Disinfectant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Coliform

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessments to identify and correct any problems that were found during these assessments.

During the past year we were required to conduct one Level 1 assessment. One Level 1 assessment was completed. In addition, we were required to take one corrective action and we completed the one required action.

Unregulated Contaminants

<table>
<thead>
<tr>
<th>Year</th>
<th>Constituent</th>
<th>Average of all Sampling Points</th>
<th>Range of Detected Levels</th>
<th>Unit of Measure</th>
<th>Reason for Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>Chloroform</td>
<td>21.650</td>
<td>13.700 - 28.400</td>
<td>ppb</td>
<td>Unregulated Contaminants are those for which EPA has not established drinking water standards. The purpose of Unregulated Contaminant monitoring is to assist EPA in determining their occurrence in drinking water and whether future regulation is warranted. For additional information and data visit <a href="http://www.epa.gov/safewater/ucmr/ucmr2/index/html">http://www.epa.gov/safewater/ucmr/ucmr2/index/html</a>, or call the Safe Drinking Water Hotline at (800) 426-4791.</td>
</tr>
<tr>
<td></td>
<td>Bromodichloromethane</td>
<td>8.113</td>
<td>4.700 - 11.900</td>
<td>ppb</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dibromochloromethane</td>
<td>1.675</td>
<td>0.000 - 3.100</td>
<td>ppb</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bromochloracetic Acid</td>
<td>5.481</td>
<td>3.400 - 8.300</td>
<td>ppb</td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX E
CREDENTIALS
JESSICA KEMP  
SENIOR STAFF SCIENTIST

PROFESSIONAL EXPERIENCE
Ms. Kemp serves as a Senior Staff Scientist in Terracon’s Houston, Texas office. Her responsibilities include performing Phase I Environmental Site Assessments (ESAs) for industrial, commercial, and residential facilities. This process includes site reconnaissance, ordering regulatory database reports and obtaining and reviewing historical resources including interviews, aerial photographs, topographic maps, historical city directories and Sanborn fire insurance maps. Ms. Kemp has performed numerous ESAs on projects throughout the Houston and the surrounding area. The ESAs also include extensive knowledge and identification of distinctive features associated with recognized environmental conditions.

Ms. Kemp has also performed bulk asbestos sampling in numerous facilities to satisfy state and federal regulations for public, commercial, and industrial buildings in Texas.

In addition, Ms. Kemp has provided assistance on Phase II ESAs, industrial and construction Storm Water Pollution Prevention Plans (SWPPP), and Spill Prevention, Control, and Countermeasures (SPCC).

PROJECT EXPERIENCE

ABF Freight – Texas
Assisted with the site reconnaissance for compliance assessments of key elements of the Clean Water Act and evaluated applicability of SWPPPs at the sites for ABF Freight.

Bayou Widening Project – Pasadena, Texas
Performed a Phase I ESA on an approximately 3,350 linear foot existing bayou and the 38 parcels located along the bayou as part of a deepening and widening project. The Phase I ESA was conducted consistent with the procedures included in ASTM E 1527-13. The purpose of the ESA was to assist the client in developing information to identify RECs. Project duties undertaken included project initiation, the site visit, analysis of data, and preparation of the report.

City of Houston – Houston, Texas
Performed several Phase I ESAs on sites that were formerly used as gasoline stations for the City of Houston as part of the Brownfield Redevelopment Program. The Phase I ESAs were conducted consistent with the procedures included in ASTM E 1527-13. Project duties included project initiation, performance of a Phase I ESA site visit, analysis of data, and preparation of the report.

Performed SPCC site reconnaissance at 12 fleet maintenance facilities in the City of Houston and prepared SPCCs or letters where SPCCs were not applicable and provided them to the client.

Performed construction SWPPP site reconnaissance at a remediation project for the City of Houston. Prepared inspection reports, updated the site maps, and maintained the SWPPP for the project.

Education
Bachelor of Science, Geography (Environmental and Resource Studies), Texas State University, 2011

Certifications
Texas Department of State Health Services, Asbestos Inspector, License No. 603563
Comprehensive Storm Water Compliance and Inspection Training for Construction Sites, May 2014

Work History
Terracon, April 2014-Present
Phase Engineering, Inc., Environmental Technical Writer, February 2012-April 2014
**Downtown City Blocks – Houston, Texas**
Performed a Phase I ESA on a site that consisted of seven City of Houston Blocks in the downtown business district that were developed with several high-rise office / retail buildings and parking garages. The site and surrounding properties had been developed back to the 1890s and were listed within numerous databases. Review of files associated with numerous investigations conducted on the site and the surrounding properties was conducted as part of the Phase I ESA. Project duties included project initiation, performance of a Phase I ESA site visit, interviews, analysis of data, and preparation of the reports.

**Independent School Districts – Texas**
Performed Phase I ESAs on several properties for proposed development by independent school districts in Harris, Humble, Montgomery, New Caney, and Brazoria Counties. Project duties included project initiation, performance of a Phase I ESA, interviews, analysis of data, and preparation of the report.

**Marine Fuel Oil Terminal Facility – Houston, Texas**
Performed a Phase I ESA for a 306-acre marine fuel oil terminal facility in Houston, Texas. The site had been in operation as a terminal for over 40 years and had been listed within the IHW Corrective Action (IHWCA), Groundwater Contamination Cases (GWCC), Spills, Emergency Response Notification System (ERNS), and Comprehensive Environmental Response Compensation & Liability Information System (CERCLIS) databases. Review of files associated with numerous on-site investigations was conducted as part of the Phase I ESA. Project duties included project initiation, performance of a Phase I ESA site visits, analysis of data, and preparation of the report.

**Former and Current Oil/Gas Exploration Sites – Texas**
Performed Phase I ESAs on numerous sites that had operated with numerous oil and gas wells and associated tank batteries. The Phase I ESAs were conducted consistent with the procedures included in ASTM E 1527-13. Project duties included project initiation, performance of a Phase I ESA site visit, analysis of data, and preparation of the report.

**Proposed Multi-Family Development – Texas**
Performed Phase I ESAs on several properties that had a planned development as multi-family housing community. The Phase I ESAs were performed according to the Texas Department of Housing & Community Affairs (TDHCA) Environmental Site Assessment Rules and Guidelines. Project duties included project initiation, performance of a Phase I ESA site visit, interviews, analysis of data, and preparation of the report.

**Right-of-Way – Harris and Galveston Counties, Texas**
Performed Phase I ESAs along roadways in Katy and League City, Texas as part of roadway widening projects. Project duties included project initiation, performance of Phase I ESA site visits, analysis of data, and preparation of the reports.

**Steel Mill – Vidor, Texas**
Performed a Phase I ESA for a 542.5-acre steel mill facility in Vidor, Texas. The site had been in operation as a steel mill for over 40 years and had been listed within the IHWCA, Spills, ERNS, and leaking petroleum storage tank (LPST) databases. Review of files associated with numerous on-site investigations was conducted as part of the Phase I ESA. Project duties included project initiation, performance of a Phase I ESA site visit, interviews, analysis of data, and preparation of the report.
THOMAS R. MARTENS, P.G.
SENIOR PRINCIPAL, ENVIRONMENTAL DEPARTMENT MANAGER

PROFESSIONAL EXPERIENCE
Mr. Martens has over 30 years experience in environmental services and is manager of environmental services for Terracon's Houston region. His experience involves management and technical oversight of a wide range of environmental projects, including environmental site assessments, environmental site investigations, corrective actions, remediation, underground storage tank (UST) system management, regulatory compliance, asbestos, industrial hygiene and natural resource services.

Mr. Martens has provided these services for multiple client business sectors, including oil and gas, industrial/manufacturing, commercial, transportation, institutional, and public (local, state and federal). He serves as a national account manager for selected oil and gas, industrial/manufacturing, commercial clients.

PROJECT EXPERIENCE

Environmental Site Assessments (ESAs)
Performs and manages thousands of ESAs nationwide for industrial, commercial, residential, and oil and gas properties. Understands facility operating systems; state and federal regulations; and fate and transport of chemicals through air, soil, surface water and groundwater. He is experienced in the performance of ESAs under the All Appropriate Inquiry rules (ASTM 1527-13), and meets the requirements of an Environmental Professional as defined by this rule.

Environmental Site Investigations (ESIs)
Performs and manages ESIs nationwide. Investigates environmental conditions in soils, surface water and groundwater as a result of releases from a variety of sources, including petroleum pipelines, petroleum exploration and production activities, salt water disposal wells, service stations, dry cleaners, and a wide range of industrial and manufacturing operations. Specializes in collection and interpretation of data to pursue regulatory closure through state and federal programs including the Texas Commission on Environmental Quality (TCEQ), Texas Risk Reduction Program (TRRP), TCEQ Voluntary Cleanup Program (VCP) and Innocent Owner/Operator Program (IOP), Texas Railroad Commission (RRC), and the Texas Department of State Health Services (TDSHS).

Remediation Services
Performs corrective action and remediation services for site closure through several regulatory agencies. Evaluates appropriate closure remedies through data interpretation, modeling and an understanding of remedial technologies and regulations. Applied remedial technologies include excavation and disposal, chemical stabilization, soil-vapor extraction systems, phase-separated hydrocarbon removal, chemical oxidation and reduction systems, and monitored natural attenuation.

Education
Bachelor of Science, Petroleum Engineering, 1986, University of Texas-Austin
Graduate Studies, Environmental Engineering, University of Texas-Austin

Registrations
Professional Geologist: Texas, No. 1615
Engineer-in-Training (EIT): Texas
TDSHS Licensed Asbestos Inspector/ Management Planner, No. 20-5026

Certifications
TCEQ Corrective Action Project Manager, No. CAPM01150
EPA Accredited Asbestos Inspector/Management Planner
OSHA 40-Hour Hazardous Waste Operations and Emergency Response

Affiliations
Society of Petroleum Engineers
Texas Association of Environmental Professionals
Society of American Military Engineers (SAME); Environmental Committee Chair (2004-2006), Director (2006-2009), Scholarship Chair (2009-2016); Member of the Year (2016); President Elect (2017); President (2018)

Pipeliners Association of Houston

Work History
Terracon, Environmental Services Manager, 1994-present
Southwest Research Institute, Research Scientist, 1987-1989
Asbestos, Indoor Air Quality (IAQ) and Industrial Hygiene (IH) Services
Performs and manages asbestos, IH and IAQ consulting services of oil/gas, industrial, institutional and commercial facilities. Services included surveys, inspections, management plans and abatement services related to asbestos-containing materials, mold, lead-based paint, drinking water, radon, noise, workplace chemical exposure, and indoor air quality concerns.

Regulatory Compliance
Performs and manages compliance assessments related to hazardous and solid wastes, storage tanks, air emissions, spill control, and stormwater discharge at commercial, industrial, manufacturing and oil/gas facilities. Assisted clients in preparation of associated plans, permits and recordkeeping.

Environmental Planning, Natural/Cultural Resources
Performs and manages hundreds of projects associated with environmental and natural resources, including NEPA screens, environmental assessments (EAs), categorical exclusions (CEs), Section 106 submittals, threatened/endangered species assessments, archeological/cultural resource assessments, and wetland consulting services.

UST Management Services
Performs and manages compliance reviews for UST systems in Texas. The compliance reviews include physical inspections of tank systems, release detection records review, tank tightness testing, and tank hold observation well testing. He managed a project involving the removal, replacement or upgrades of over 100 UST systems for the City of Houston. The scope of services for the project included compliance reviews, preparations of plans, specifications and bidding documents, and construction oversight.

Hazardous Materials Assessments
Performs and manages hazardous materials assessments on a wide range of facilities, including buildings, petroleum production sites (including offshore production platforms), pipeline stations, telecommunication towers, ships and bridges. Assesses materials include chemical storage, asbestos, paint, polychlorinated biphenyls (PCBs), mercury switches, and fluorocarbons.
APPENDIX F
DESCRIPTION OF TERMS AND ACRONYMS
### Description of Selected General Terms and Acronyms

<table>
<thead>
<tr>
<th>Term/Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACM</td>
<td>Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining). Regulatory agencies have generally defined ACM as a material containing greater than one (1) percent asbestos, however some states (e.g. California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable. Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.</td>
</tr>
<tr>
<td>AHERA</td>
<td>Asbestos Hazard Emergency Response Act</td>
</tr>
<tr>
<td>AST</td>
<td>Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.</td>
</tr>
<tr>
<td>BGS</td>
<td>Below Ground Surface</td>
</tr>
<tr>
<td>Brownfields</td>
<td>State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.</td>
</tr>
<tr>
<td>BTEX</td>
<td>Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.</td>
</tr>
<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.</td>
</tr>
<tr>
<td>CERCLIS</td>
<td>Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.</td>
</tr>
<tr>
<td>CESQG</td>
<td>Conditionally Exempt Small Quantity Generators</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
</tbody>
</table>
### Description of Selected General Terms and Acronyms

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<tr>
<td>CREC</td>
<td>Controlled Recognized Environmental Condition is defined in ASTM E1527-13 as “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report.”</td>
</tr>
<tr>
<td>DOT</td>
<td>U.S. Department of Transportation</td>
</tr>
<tr>
<td>EPA</td>
<td>U.S. Environmental Protection Agency</td>
</tr>
<tr>
<td>ERNS</td>
<td>Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.</td>
</tr>
<tr>
<td>ESA</td>
<td>Environmental Site Assessment</td>
</tr>
<tr>
<td>FRP</td>
<td>Fiberglass Reinforced Plastic</td>
</tr>
<tr>
<td>Hazardous Substance</td>
<td>As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).</td>
</tr>
<tr>
<td>Hazardous Waste</td>
<td>This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a “solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.”</td>
</tr>
<tr>
<td>HREC</td>
<td>Historical Recognized Environmental Condition is defined in ASTM E1527-13 as “a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition.”</td>
</tr>
<tr>
<td>IC/EC</td>
<td>A listing of sites with institutional and/or engineering controls in place. IC include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.</td>
</tr>
<tr>
<td>ILP</td>
<td>Innocent Landowner/Operator Program</td>
</tr>
<tr>
<td>LQG</td>
<td>Large Quantity Generators</td>
</tr>
<tr>
<td>LUST</td>
<td>Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.</td>
</tr>
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### Description of Selected General Terms and Acronyms

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<td><strong>MCL</strong></td>
<td>Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.</td>
</tr>
<tr>
<td><strong>MSDS</strong></td>
<td>Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA’s Hazard Communication Standard.</td>
</tr>
<tr>
<td><strong>NESHAP</strong></td>
<td>National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.</td>
</tr>
<tr>
<td><strong>NFRAP</strong></td>
<td>Facilities where there is “No Further Remedial Action Planned,” as more particularly described under the Records Review section of this report.</td>
</tr>
<tr>
<td><strong>NOV</strong></td>
<td>Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.</td>
</tr>
<tr>
<td><strong>NPDES</strong></td>
<td>National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.</td>
</tr>
<tr>
<td><strong>NPL</strong></td>
<td>The NPL is the EPA’s database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.</td>
</tr>
<tr>
<td><strong>OSHA</strong></td>
<td>Occupational Safety and Health Administration or Occupational Safety and Health Act.</td>
</tr>
<tr>
<td><strong>PACM</strong></td>
<td>Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.</td>
</tr>
<tr>
<td><strong>PCB</strong></td>
<td>Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.</td>
</tr>
<tr>
<td><strong>pCi/L</strong></td>
<td>picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.</td>
</tr>
<tr>
<td><strong>PLM</strong></td>
<td>Polarized Light Microscopy (see ACM section of the report, if included in the scope of services).</td>
</tr>
<tr>
<td><strong>PST</strong></td>
<td>Petroleum Storage Tank. An AST or UST that contains a petroleum product.</td>
</tr>
<tr>
<td><strong>Radon</strong></td>
<td>A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building’s construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor “action level” concentration for residential structures is 4.0 pCi/l.</td>
</tr>
<tr>
<td><strong>RCRA</strong></td>
<td>The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.</td>
</tr>
<tr>
<td><strong>RCRA</strong></td>
<td>The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing “corrective action”. A “corrective action” order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.</td>
</tr>
<tr>
<td><strong>RCRA</strong></td>
<td>The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.</td>
</tr>
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<td>RCRA Violators List</td>
<td>RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.</td>
</tr>
<tr>
<td>RCRIS</td>
<td>Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.</td>
</tr>
<tr>
<td>REC</td>
<td>Recognized Environmental Conditions are defined by ASTM E1527-13 as &quot;the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment. <em>De minimis</em> conditions are not recognized environmental conditions.&quot;</td>
</tr>
<tr>
<td>SCL</td>
<td>State “CERCLIS” List (see SPL /State Priority List, below).</td>
</tr>
<tr>
<td>SPCC</td>
<td>Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.</td>
</tr>
<tr>
<td>SPL</td>
<td>State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State “CERCLIS” List.</td>
</tr>
<tr>
<td>SOQ</td>
<td>Small Quantity Generator</td>
</tr>
<tr>
<td>SWF/LF</td>
<td>State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.</td>
</tr>
<tr>
<td>TPH</td>
<td>Total Petroleum Hydrocarbons</td>
</tr>
<tr>
<td>TRI</td>
<td>Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.</td>
</tr>
<tr>
<td>USACE</td>
<td>United States Army Corps of Engineers</td>
</tr>
<tr>
<td>USC</td>
<td>United States Code</td>
</tr>
<tr>
<td>USGS</td>
<td>United States Geological Survey</td>
</tr>
<tr>
<td>USNRCS</td>
<td>United States Department of Agriculture-Natural Resource Conservation Service</td>
</tr>
<tr>
<td>UST</td>
<td>Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-13, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).</td>
</tr>
<tr>
<td>VCP</td>
<td>State and/or Tribal facilities included as Voluntary Cleanup Program sites.</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compound</td>
</tr>
</tbody>
</table>
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<tr>
<td>Wetlands</td>
<td>Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The <em>Corps of Engineers Wetlands Delineation Manual</em> (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present. The federal Clean Water Act which regulates “waters of the US,” also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U.S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.</td>
</tr>
</tbody>
</table>