TGE RESOURCES, INC.

Environmental, Engineering, Building Sciences, Industrial Hygiene & Remediation Services

Phase I Environmental Site Assessment

Payless Auto Sales, Repossession, and Auto Repair 29805
Pacific Highway South Federal Way, King County, Washington
TGE Project No.: R13411.01

Prepared for:

MultiCare Health System, a Washington nonprofit corporation 315
Martin Luther King Jr. Way
Tacoma, Washington 98415-0299

August 17, 2017

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Texas HUB
City of Houston SBE, WBE, DBE
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August 17, 2017

MultiCare Health System, a Washington nonprofit corporation
315 Martin Luther King Jr. Way
Tacoma, Washington 98415-0299

RE: Phase I Environmental Site Assessment

Payless Auto Sales, Repossession, and Auto Repair
29805 Pacific Highway South
Federal Way, King County, Washington
TGE Project No.: R13411.01

Dear Sir or Madam:

TGE Resources, Inc. ("TGE") has completed a Phase I Environmental Site Assessment at the above referenced Property. This report includes results of our Findings from visual reconnaissance, historical land use review, records and regulatory review.

We appreciate the opportunity to be of service to you and PhiloWilke Partnership on this project. Should you have questions about information in this report or if we can be of further assistance, please contact us.

Very truly yours,

TGE Resources, Inc.

Robin D. Franks, P.G., CHMM, RSO
President, TGE Resources, Inc.

RDF/LM

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ACRONYMS/ABBREVIATIONS

AAI	All Appropriate Inquiries
AMSD	Approximate Minimum Search Distance
ASTM	American Society of Testing and Materials
AULs	Activity and Use Limitations
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CFR	Code of Federal Regulations
COC	Chemical of Concern
CREC	Controlled Recognized Environmental Condition
DCF	Dry Cleaning Facility
EDR	Environmental Data Resources, Inc.
EPCRA	Emergency Planning and Community Right to Know Act (a.k.a. SARA Title III)
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FBG	Feet Below Grade
FOIA	Freedom of Information Act
FR	Federal Register
HREC	Historical Recognized Environmental Condition
IC	Institutional Controls
LLP	Landowner Liability Protections (under the Brownfields Amendments)
LQG	Large Quantity Generator
LUST/LPST	Leaking Underground Storage Tank/Leaking Petroleum Storage Tank
MG/KG	Milligrams per Kilogram
MG/L	Milligrams per Liter
MWR	Municipal Waste Registration
NAICS	North American Industry Classification System
NCP	National Contingency Plan
NFRAP	No Further Action Planned
NG	Non-Generator
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities Listing
NSC	Non-Scope Consideration
PCBs	Polychlorinated Biphenyls
PRP	Potentially Responsible Party
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
ROC	Records of Communication
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
SHWS	State Hazardous Waste “Sites”
SIC	Standard Industrial Classification
SQG	Small Quantity Generator
TGE	TGE Resources, Inc.
TPH	Total Petroleum Hydrocarbon
TSDF	Hazardous Waste Treatment, Storage or Disposal Facility
USC	United States Code
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
USFWS	United States Fish and Wildlife Service
UST/PST	Underground Storage Tank/Petroleum Storage Tank
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound

1.0 SUMMARY

TGE Resources, Inc. ("TGE") has completed a Phase I Environmental Site Assessment (ESA) of Payless Auto Sales, Repossession, and Auto Repair located at 29805 Pacific Highway South in Federal Way, King County, Washington (hereinafter referred to as the "Site" or "Property"), pursuant to American Society of Testing and Materials (ASTMs) *"Standard Practice for [ESAs]: Phase I [ESA] Process"* (E1527-13). Also, as per the United States Environmental Protection Agency (USEPA; 40 Code of Federal Regulation [CFR] Part 312), use of the referenced ASTM Process is intended to satisfy requirements for conducting *"all appropriate inquiries"* (aka, AAI) under the Comprehensive Environmental Response, Compensation and Liability Act (or "CERCLA").

According to King County Appraisal District (CAD) information, the Property is comprised of two parcels (referenced herein as Tract A and Tract B) comprising a reported 1.72 acres (74,887 square feet) of land. Site improvements consist of a 6,350 square-foot, partial two-story, commercial office and repair facility that was constructed in 1970. At the time of Site reconnaissance, which was undertaken on July 19, 2017, the Property was in use as improved commercial real estate. Access to portions of the Property (western area and west service bay) were not provided to TGE for inspection during Site reconnissance, per Site sources, access in this area is controlled by the federal government.

Based on review of previous Phase I and Phase II reports prepared by others, the eastern portion of the Property (along Pacific Highway South) was developed as a fueling station/restaurant in the 1920s with historic use of underground (fuel) storage tanks (USTs). The historic fueling station/restaurant reportedly ceased operation by the late 1960s and the former structure was demolished. However, four USTs, a septic system, and a basement level (automotive repair area) were discovered in connection with the former fueling station structure and were subsequently excavated in 1993 and 2000. During excavations, petroleum impacted soil was reported to the State (under LUST/VCP program). This finding/condition was granted case closure (by the State) in 2001, per State case files. Per historical aerial photographs, from the 1940s to the 1950s, the southern and western portions of the Property appeared to have been largely undeveloped. However a historic topographic map dated 1956 depicts the western Site limits and adjoining land west with "depressions". An unpaved road traversing southeast from the northern Site limits appears to terminate within the southeast Site limits per a 1965 aerial photograph, and denuded vegetation and/or clearing of land is evident within the Site; surface cover removal and/or Site grading is evident in the 1968 aerial photograph. The current subject building was reportedly constructed within the southern portion of the Property in the late 1960s/early 1970s; it initially operated as "Rental Mart" (an equipment rental/repair facility). Rental Mart historically operated with at least one diesel UST and dispenser, which were recorded as removed from the ground in 1993. Figures provided within prior ESA reports indicated the presence of a historic septic system, sumps and former hazardous materials storage areas in connection with the subject building. A "greenhouse" (and associated structures) is identified per historical resources/files during the early 1990s (removed by 2000) within the northwest portion of the Site. Per a 2000 Phase I ESA prepared by others, Rental Mart ceased operation within the Property in the late 1990s and the Property was vacant at the time of the prior assessment. Per city directory publications, the Property operated as "United Rentals" during at least 2001 and "Fort Inc.", in 2007. Per Appraisal District information reviewed, the Property was sold by Union Bank to American Drug Stores, Inc. in 2001, private individuals in 2002 and 2005, and to the current owner in 2007 (Nixlexi LLC). Since transfer of ownership, the Property has operated as a used car sales facility (Payless), an auto repair facility, and a repossession facility (portions controlled by the federal government).

To complete this Practice, TGE successfully performed four prescriptive components of the ASTM standard (Records Review, Site Reconnaissance, Interviews, and Evaluation); in doing so, TGE has satisfied the Phase I ESA Process (or "Practice") such that "Findings", "Opinion" and "Conclusions" could be prepared. Limiting conditions, scope deletions/deviations, or data gaps, if any (realized while undertaking the Practice) are listed within Section 10.0 of this report and the materiality of each Limiting Condition summarized. Additions to the Practice (if any), such as Property assessment for "Non-scope considerations" (NSCs), or any Property characterization (testing) performed is summarized within Sections 8.0 and 9.0 of this report, respectively.

Findings/Opinions

"Findings", which collectively encompass known or suspect *Recognized Environmental Conditions ("RECs"); Controlled Recognized Environmental Conditions ("CRECs"); Historical Recognized Environmental Conditions ("HRECs"); and (of far lesser circumstance and not summarized in this section), "de minimis conditions"* (as per ASTM E1527-13) are listed immediately below. Based upon the materiality of "Findings", consideration of other relevant information gathered is summarized herein; and in TGE's professional judgment, corresponding "Opinion" is provided that Findings are (or are not) current RECs, CRECs, or HRECs.

Finding	Opinion
Historic Site use from the 1920s through the 1990s that involved retail fuel storage and sales; auto repair; equipment rental/repair/service; a greenhouse operation; and placement of fill with unknown character – all of which included either recorded and/or inferred use of hazardous substances and/or petroleum products with the potential to adversely impact the Site.	Summarized historic Site use; an absence of details specific to final removal of likely sub-slab waste holding units (tanks, sumps, separators, septic systems, etc.); the unknown presence of fuel storage tanks, tank piping systems, and other operational equipment; as well as the presence of non-characterized fill across the Site (which may be located within Client's proposed pathway of new construction) represent a cumulative **REC** in connection with the Property.
Current Site use with an auto repair/service/vehicle holding operation (from which TGE was partially restricted access for inspection) with the reported use of hazardous substances and/or petroleum products with the potential to adversely impact the Site.	Current Site use (as well as the realized data gap specific to limited Site inspection) is/rises to the definition of a **REC** in connection with the Property.
Per regulatory records reviewed, adjoining land north has operated as a fueling station since at least the mid-1930s with concurrent use of USTs. In addition, land within 350 feet northwest of the Site has operated as a dry cleaning facility (for at least 13 years).	Prior/current near Property use is a **REC** in connection with the Site.
Historic use of adjoining land west as a gravel pit/quarry from at least the 1940s through the 1980s.	Given an absence of information regarding operations and closure (reclamation/backfill) of the quarry/borrow pit, which may have included landfilling of materials of unknown character and possible hazardous materials/hazardous waste management, as well as an open cleanup site identified ("Redondo Oil Pit"), historic operation of adjoining land west is a **REC** in connection with the Property.

Conclusions/Recommendations

TGE has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of Payless Auto Sales, Repossession, and Auto Repair located at 29805 Pacific Highway South, Federal Way, King County, Washington. Any exceptions to, or deletions from, this Practice are described in Section 10.0 of this report. This assessment has revealed no evidence of RECs (including CRECs) in connection with the Property except for the following. As appropriate, TGE provides the following recommendation(s), per the Client-specified scope of work and objectives of this assessment.

Conclusion	Recommendation(s)
Past and current Site operations, as well as operations in the Site vicinity (retail fuel operation, dry cleaner, and quarry/borrow pit) over the preceding 60 years may have resulted in a past release of hazardous substances and/or petroleum products to the Site.	Complete a thorough Site inspection (areas where access was not previously allowed) in order to complete the AAI Phase I investigative process; this work would precede performance of Site soil, soil vapor, and/or groundwater testing to characterize the Site for hazardous substances and/or petroleum products.

Summary of Non-Scope Considerations (NSCs)

The following NSC(s), as well as associated recommendations, was/were identified in connection with the assessment that may (or may not) represent potential Business Environmental Risks (BERs) in connection with the Site.

NSCs	Recommendation(s)
The suspect/presumed presence of asbestos within building materials at the Property.	The performance of an asbestos and lead-based paint survey sufficient to characterize building materials such that the materials may be managed in place or removed in accordance with applicable local, state and federal law prior to any renovation and/or demolition of the Site building.
The observed presence of suspect lead-based paint in poor (peeling) condition within bays.	

Compliance

The following issues of apparent non-compliance (and/or deviation from Best Management Practices [BMPs]) were identified in connection with the Property at the time of the Site assessment.

Issue	Recommendation(s)
Operation of repair/maintenance activities within/near the subject building, with the presence and/or accumulation of hazardous substances and/or petroleum products, as well as contingent management of sumps and/or other subsurface features (a potential closed UST within Bay 2).	Require that hazardous substances and/or petroleum products be removed by the current owner/operator and that any sumps/subsurface equipment be cleaned and evacuated with related documentation of such activity retained (and conveyed to appropriate parties) in connection with any hazardous materials or petroleum products.
Per subsurface investigations conducted by others within the Property, significant fill material, debris, and other materials were found within Site soils to at least 17 feet below ground surface.	The potential for the presence of significant geotechnically unsuitable material, which may be encountered during building construction and require regulated and/or excavation/disposal in consideration of the financial impact that unsuitable fill may have (especially if pre-construction removal is required) for proposed new construction.

This report section does not include all relevant information presented within the full report text and its attachments, which formed professional Opinion as summarized herein. Therefore, the assessment report should be considered by the reader in its entirety.

2.0 SCOPE & PURPOSE

MultiCare Health System, a Washington nonprofit corporation ("MHS"), defined as the "User" for purposes of this Practice, authorized TGE to perform a Phase I ESA of Payless Auto Sales, Repossession, and Auto Repair located at 29805 Pacific Highway South in Federal Way, King County, Washington, pursuant to ASTM Standard Practice for ESAs (E1527-13), and in accordance with USEPA Standards and Practices for AAI published on April 15, 2013 with an effective date of November 1, 2006 (and as amended August 15, 2013). The User is the party seeking to make use of ASTM Practice E1527-13 to complete an ESA of the Property. The User has specific obligations in successful application of this Practice, as defined per the Standard; while the User is also afforded exclusive "User Reliance" (unless otherwise specified herein) with respect to this report's Findings, Opinion, Conclusions and Recommendations (if any).

2.1 Purpose/Objectives

The purpose of the assessment is to satisfy AAI *"into the previous ownership and uses of the Property consistent with good commercial and customary practice"* and to identify "RECs", "HRECs", "CRECs", *and "de minimis conditions"* (if any) in connection with the commercial real estate, "Site" or "Property". Once AAI is complete, the User may satisfy requirements to qualify for one of the four (4) "Affirmative Defenses to CERCLA" (or Superfund) liability: "*Third Party*", *"Innocent Landowner"*, *"Contiguous Property Owner"*, or *"Bona Fide Prospective Purchaser"* (hereinafter, known as the *"Landowner Liability Protections"* or "LLPs"). This Practice, constituting AAI is defined within 42 United States Code (USC) §9601(35) (B). Given coordinated efforts between drafters of this Federal statute and those involved in drafting and executing industry practice through a recognized standard (ASTM), compliant/complete use of ASTM E1527-13 fulfills the necessary standard of care, unless otherwise stated herein by the Environmental Professional (EP). For reference, definitions for REC, HREC, CREC and a *de minimis* condition, as taken from these relevant sources are provided below.

- A REC is *"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; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not [RECs]."*

- A HREC is *"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 use criteria established by a regulatory authority, without subjecting the Property to any required controls."*

- A CREC results *"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 *de minimis* condition *"generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."*

2.2 Scope of Services

Per the Practice, the ESA shall have four components as follows:

- Records Review;
- Site Reconnaissance;
- Interviews; and
- Evaluation (Report).

TGE was engaged by its Client in accordance with its duly executed/authorized agreement (TGE Project No. R13411.01) and in compliance with TGE's Contract Terms.

2.3 Additional and NSC Services

This Practice does not include sampling or testing of materials (i.e. soil, water, air, or building materials). Such testing would only be conducted as "Additional Services"; if included herein, results of such work would be incorporated into Section 9.0 of this report. Additionally, and only if specifically directed to do so by Client/User, TGE investigated the Property for certain NSCs that are not considered in the CERCLA definition of hazardous substances (42 USC § 9601.14) nor specifically required per the Practice. If performed, a summary of NSC assessment is found within Section 8.0 of this report.

2.4 Significant Assumptions

This assessment was prepared for Property as described within Section 3.0 of this ESA and, as such, meets the definition of "Site Specific" per ASTM E1527-13 (4.2.3). Moreover, execution of this Practice assumes that no environmental assessment can "*truly eliminate uncertainty*" regarding the potential for RECs in connection with the Property, is not exhaustive, and recognizes "*that the level of inquiry is variable*." Finally, this Practice and the resulting report assumes application of ASTM "Principles" as an integral part of the engagement, which includes (but is not necessarily limited to) the EP exercising discretion and judgment with respect to the work.

2.5 Reliance

This report is intended for the sole use and reliance of the specified "User" (MHS) who engaged TGE to prepare this report. The scope of services performed may not be appropriate to satisfy the needs of additional parties. Any unauthorized use or reuse of report Findings, Opinion, Conclusions, or Recommendations (if any) is prohibited and at the risk of said party.

2.6 User Provided Information

To effectively implement this Practice, the "User" is endowed with certain responsibilities. The User is defined (in part) as the party seeking to use Practice E1527-13 to complete an environmental assessment of the Property. User responsibilities include communication with the EP (in discussion and interview via a questionnaire). To the extent information is actually known by or available, the User was to be asked the following prior to Site reconnaissance.

- Actual knowledge and proof (by copy) of any judicial records for environmental liens or activity and use limitations (AULs) encumbering the Property;
- specialized knowledge or experience material to RECs at the Property or in connection with the Property;
- if applicable, the reason for a significantly lower purchase price due to environmental factors as compared to its fair market value;
- commonly known or reasonably ascertainable information within the local community material to RECs in connection with the Property;

- knowledge as to the presence or likely presence of releases to the Property and whether obvious; and
- the reason for conducting the assessment.

User's corporate policy does not specify completion of the ASTM E1527-13 Phase I ESA User Questionnaire.

As received (if applicable), a completed copy of the User Questionnaire is included in Appendix A of this report. In the event the User was not knowledgeable of the Site and/or declined (or was unable) to complete the User Questionnaire, TGE may have provided the form (in whole or in part) to certain Non-Users; or persons with "actual knowledge" of the Property in order to obtain Site history, to access helpful documents, and/or to gain other useful information in connection with the Site, if any.

2.6.1 Helpful Documents Obtained/Facilitated by User

Also as specified within the User Questionnaire, and prior to Site reconnaissance, TGE requested the following list of helpful documents (via the proposed scope of work as authorized by User). If documents were received from Client/User as requested, such documents are referenced with Section 4.0 and provided within Appendix A of this report:

- Prior ESA Reports;
- Environmental Compliance Audit Reports;
- Environmental Permits;
- Registrations for Tanks (Above and Underground);
- Registrations for Underground Injection Systems;
- Safety Data Sheets (SDSs);
- Community Right-to-Know Plan;
- Safety Plans (Spill Prevention, Control and Countermeasure [SPCC], Facility Response and Contingency);
- Reports Regarding Hydrogeologic Conditions on the Property or Surrounding Area;
- Notices or Correspondence from any Local, State or Federal Agency Relating to Past or Current Violations of Environmental Laws Respecting the Property (or Related to Environmental Matters or Liens);
- Hazardous Waste Generator Notices or Reports;
- Geotechnical Studies;
- Risk Assessments;
- Recorded AULs;
- Knowledge of (and documents to support) any Pending, Threatened or Past Litigation Relevant to Hazardous Substances or Petroleum Products in, on or from the Property;
- Knowledge of (and any documents to support) any Pending, Threatened or Past Administrative Proceedings Relevant to Hazardous Substances or Petroleum Products in, on or from the Property; and
- Knowledge of (and any documents to support) any Notices from any Governmental Entity Regarding any Possible Violation of Environmental Laws or Possible Liability Relating to Hazardous Materials or Petroleum Products.

2.6.2 Prior Assessment Usage

In an effort to avoid undertaking duplicative assessment procedures, information included within prior ESAs (if any), may have been utilized by TGE (and summarized herein) provided that such information was generated as a result of procedures that met or exceeded requirements of this Practice; and determined changes and/or update to operations reported within the previous reports (if any).

3.0 SITE DESCRIPTION

Information included within this report Section was obtained from certain publically available sources only as pertaining to the Site and its general vicinity characteristics. Relevant Appraisal District records are contained within Appendix A of this report and a current topographic map depicting the general Site location is presented as Figure 1. Property boundaries have been diagrammatically estimated upon Figure 2 and details shown on Figure 3. Client-provided Site maps/figures are included as Figure 4.

3.1 Location and Legal Description

Site Location				
Site Location	Address	29805 Pacific Highway South, Federal Way, King County, Washington.		
	Relative Location	Located at the southwest corner (SWC) of the intersection of Pacific Highway South and South Dash Point Road.		
Geographic Location	Longitude	122.3127	Latitude	47.3352
Legal Description	Tract A	*"Por Nw 1/4 Of Nw 1/4 Of Sw 1/4 Ly Wly Of Pacific Hwy South & Sly Of Sly Mgn Of Desmoines - Pierce Co Road No 988 Less Wly 30 Ft For Road & Less Por For Rd As Per Sec06-2-01388-3knt, King County, Washington."*		
	Tract B	*"N 100 Ft As Meas On W Ln Of Beg At Pt 30 Ft E & 329 Ft N Of Sw Cor Of Nw 1/4 Of Sw 1/4 Th E 241.13 Ft M/L To W Ln Of Pac Hwy Th N Alg Sd W Ln Of Hwy 329.57 Ft Th W 234.86 Ft To Pt 30 Ft E Of W Ln Of Nw 1/4 Of Sw 1/4 Th S 329.91 Ft To Pob - Less Por For Rd As Per Sec 06-2-01388-3knt, King County, Washington."*		
Survey/Plat Map	While an official survey/plat map was not provided to TGE, a plan depicting future Site features/development was provided to TGE and is included within Appendix A.			

3.2 Site and Vicinity General Characteristics

The Site is located within a combined mixed-use, commercial/residential area situated in north Federal Way, King County, Washington. Per Federal Way zoning information reviewed online, the Site is positioned within an area designated as "community business (BC)". Per City Code (19.220.070), hospital facilities, convalescent centers, and/or nursing homes are allowed in this zone subject to specific design and construction requirements.

3.3 Current Uses of the Property

The Property is currently in use as commercial real estate and operating as an auto sales, repossession, and auto repair facility. North American Industry Classification System (NAICS) and/or Standard Industrial Classification (SIC) codes were not provided by Site sources given non-industrial use of the Property. Further information as related to Property use and observations are included within later sections of this report.

3.4 Descriptions of Roads, Structures, Other Improvements and Utilities

3.4.1 Roads

Public thoroughfares on the Property, as well as adjoining the Site (roads, streets and parking facilities) at the time of the assessment were recorded as follows:

Direction	Roads, Streets and Parking Facilities
Site	N/A
North	South Dash Point Road
East	Pacific Highway South
South	N/A
West	16th Avenue South

3.4.2 Site Structures and Other Improvements

Site details/improvements as described within CAD information and/or as observed at the time of Site reconnaissance are detailed in the table below.

Address	Acres (Square Feet)	Improvements	Approx. Square Footage	Construction Date	Description
29805 Pacific Highway South	1.72 (74,887)	Tract A Sales Offices and Repair Area	6,350 square-foot	1970	Pre-fab construction with a concrete foundation (no basement) and corrugated metal walls
		Tract B Parking/Sales Area	N/A	N/A	N/A

4.0 USER PROVIDED RESPONSE

4.1 Helpful Documents

The following list of documents, responsive to TGE's request for information, were (or were not) provided or facilitated to TGE by User or Site occupant as detailed below. Provided documents (if any and as pertinent) are discussed within other report sections.

Type of Helpful Document	Provided by User (✔ if Yes)
Prior ESA Reports	–
Environmental Compliance Audit Reports	–
Environmental Permits	–
Registrations for Tanks (Above and Underground)	–
Registrations for Underground Injection Systems	–
Safety Data Sheets (SDSs)	–
Community Right-to-Know Plan	–
Safety Plans	–
Reports Regarding Hydrogeologic Conditions on the Property or Surrounding Area	–
Notices or Correspondence	–
Hazardous Waste Generator Notices or Reports	–
Geotechnical Studies	–
Risk Assessments	–
Recorded AULs	–
Knowledge of (and documents to support) any Pending, Threatened or Past Litigation	–
Knowledge of (and any documents to support) any Pending, Threatened or Past Administrative Proceedings	–
Knowledge of (and any documents to support) any Notices from any Governmental Entity	–
Other Pertinent Information	✔

4.2 Environmental Liens or AULs

The User did not make an environmental lien search available to support this Practice; therefore, per the Client scope-of-work, TGE obtained a lien search, which was conducted by Texas Environmental Research (TER) in Rockwall, Texas to determine the presence of environmental liens and/or AULs that may have been filed against the Property. The search included transactions filed in King County, effective July 14, 2017. Environmental liens, encumbrances, or activity and use limitations were not found in records reviewed. A copy of the environmental lien search is included in Appendix A of this report.

4.3 Specialized Knowledge

User did not provide information pertaining to specialized knowledge or experience related to the Property or nearby commercial real estate.

4.4 Valuation Reduction for Environmental Issues

User did not provide information pertaining to the purchase price for this Property (if applicable) that reasonably reflects less than the fair market value of the Property; nor did the User provide information pertaining to knowledge of a lower purchase price because of known hazardous substances or petroleum products in connection with the Property.

4.5 Commonly Known or Reasonably Ascertainable Information

User did not provide information pertaining to commonly known or reasonably ascertainable information in connection with the Property that assisted TGE in identifying conditions indicative of the presence of hazardous substances or petroleum products in connection with threatened releases such as past uses or chemical spills in connection with the Property; or any environmental clean-ups that have taken place at the Property.

4.6 Degree of Obviousness

User did not provide information pertaining to obvious indicators that pointed to the presence or likely presence of hazardous substances or petroleum products at the Property.

4.7 Owner, Property Manager, and Occupant Information

4.7.1 Property Owner

Per title records, appraisal district information and/or publically available information, the Property owner of the Site subject to this ESA at the time of the assessment was “Niklexi L.L.C..”

4.7.2 Property Manager

Not applicable to this assessment.

4.7.3 Occupant Information

The Property was occupied by Payless Auto Sales, Repossession, and Auto Repair, a used car dealership, a repossession company, and auto repair facility via lease agreement.

4.8 Reason for Performing Phase I

This ESA was performed in connection with a Client-driven requirement to evaluate the environmental condition of the Property prior to pre-purchase loan origination.

5.0 RECORDS REVIEW

Standard Federal, State and Tribal Environmental Record Sources were reviewed pursuant to Approximate Minimum Search Distances ("AMSDs") as prescribed in this Practice. The complete database report obtained from Environmental Data Resources, Inc. (EDR), as summarized in this section, is presented in Appendix B ("Regulatory Listings") of this report. Regulatory records were reviewed to determine if the Site or any facility within the AMSDs are, or have been, subject to regulatory action by agencies relevant to the Practice. The EDR list of "Orphan/Unmappable Sites" was also reviewed; these are locations that have poor or inadequate address information yet were "mapped" within the AMSD.

With regard to Findings and subsequent Opinion rendered herein (Section 11) with respect to Regulatory Database Listings summarized below, TGE evaluated and considered the materiality of each listing to the analysis of RECs in connection with the Property. TGE's judgment is based on the analysis of Site and area-specific features and characteristics (i.e. topography, hydrogeology, distance of a listing from the Site, etc.), as well as an analysis of potential and/or known chemicals of concern (and associated chemical properties) with respect to the Site. Regulatory listings representative of "Findings" for purposes of this assessment, if any, are identified in Section 11 of this report.

5.1 Standard and Additional Environmental Record Sources (Federal, State and Local)

"Standard environmental record" databases, as well as additional record sources to enhance/supplement the standard environmental record sources, were researched for Federal, State, Tribal and Local listed facilities. This report section includes multiple acronyms that are specified and described within Acronyms/Abbreviations and/or Definitions (Section 15.0) of this report.

5.1.1 Federal, State, Tribal and Local Agency Records Review

The following is a summary of Federal and State, as well as tribal/local listed facilities within Standard AMSDs, unless otherwise noted.

Record Source	Site & AMSD[1]	No. of Fac. Listed	Site ✔ if "Listed"	Adj. Land ✔ if "Listed"	Record Source	Site & AMSD[1]	No. of Fac. Listed	Site ✔ if "Listed"	Adj. Land ✔ if "Listed"
Standard Federal Agency Review					**Standard State & Tribal Agency Review**				
NPL	1.0	0	—	—	CSCSL (CERCLIS)	1.0	11	✔	✔
Delisted NPL	0.5	0	—	—					
CERCLIS	0.5	0	—	—	MWR	0.5	0	–	—
CERCLIS NFRAP	0.5	0	—	—	LUST/LPST[4]	0.5	2	✔	—
RCRA[2]	0.5-1.0	0	—	—	USTs/PSTs/ASTs	Adj.	2	✔	✔
RCRA Generators[3]	Adj.	0	—	—	AULs	0.5	0	—	—
ERNS	Site	0	—	—	VCP	0.5	2	✔	✔
					Brownfields	0.5	0	–	—
Additional Federal/State/Local Review									
Closed Landfills[5]	Adj.	0	—	—	AllSites[5]	Adj.	3	✔	✔
MSD	0.5	0	—	—	TRIS	Site	0	—	—
IOP	Site	0	—	—	Tier II	Site	0	—	—
Spills	Site	0	—	—	DCF	0.125	0	—	—
FINDS	Site	1	✔	—	FUDS	0.5	0	—	—

(1) AMSD is listed as measured from the nearest Property boundary.
(2) Includes RCRA CORRACTS (1.0 mile) and/or RCRA non-CORRACTS TSD (0.5 miles) facilities.
(3) Includes RCRA LQGs, RCRA SQGs, CESQGs and RCRA NGs.
(4) Listing of a "LUST/LPST" facility and summary herein does not necessarily indicate that the current or previous tank system(s) are understood to "leak" at this time. Once a LUST/LPST designation is assigned for any particular facility that designation remains associated with the real property address, regardless of whether the case file has been "closed" or remains in process.
(5) Washington's AllSites database is a compilation of data on all the state and delegated federal remediation programs operated by the Washington State Department of Ecology.

5.1.2 Summary of Federal and State Regulatory Records

Following review of Standard/Additional Environmental Record Sources, the following businesses or commercial real estate locations (if any) have been determined material to the conduct of this investigation. If material to this Practice, further summary is provided herein (as determined available) within Section 5.1.3, Regulatory Agency File Review. Additional facilities listed within the prescribed AMSD (determined not to be pertinent Federal and State-listed facilities), as well as associated property details, can be viewed in Appendix B.

Relative Location	Facility Name & Address	Distance & Topographic Gradient Relative to Property		Regulatory Listing (ID)	Discussion
		Distance[(1)] (feet)	Topo. Gradient		
Site	Rental Marts 29805 Pacific Highway South	N/A		UST (6523)	**USTs**: Four USTs (contents not reported) capacity not specified; yet reported to be between 111 to 1,100 gallons. **Installation Date**: 1964 **Status**: Two USTs removed from the ground (1996) and two USTs closed in place (1996).
				LUST (4709 & 6523)	**Contaminate:** "Petroleum products" **Status:** Final Report (June 1994)
				VCP/CSCSL (5427)	**Contaminants:** Not reported **Completion:** No further action required (2001)
				FINDS/ AllSites (110015540388/7222592)	**Registration Type:** UST, LUST, VCP.

Relative Location	Facility Name & Address	Distance & Topographic Gradient Relative to Property		Regulatory Listing (ID)	Discussion
		Distance[(1)] (feet)	Topo. Gradient		
North	Shell/Jumps Union/ 29625 Pacific Highway South	160	Down	UST (8504)	**Historic USTs:** Three USTs (contents not reported) capacity not specified; yet reported to be between 111 to 1,100 gallons. **Installation Date:** Not reported. **Status:** Removed from the ground (1999). **Current USTs:** Three double-walled tanks and lines (contents not reported); capacity reported to be between 10,000 to 19,999 gallons. **Installation Date:** 1995 **Status**: Operational
				VCP/CSCSL/LUST/AllSites (6688/65401)	**Contaminants:** Not reported **Completion:** No further action required (2006)
				ICIS/ECHO (110015415139)	**Enforcement Type:** RCRA for UST **Action:** Administrative-formal **Date:** 2009
	Sacajawea Healthcare for Pets 1530 S Dash Point Road	235	Down	AllSites (18602)	**Registration:** Hazwaste
East	Not Listed	N/A	N/A	N/A	N/A
South	Not Listed	N/A	N/A	N/A	N/A
West	Redondo Oil Pit King County 16th Ave South & Sw Dash	Adjoining	Cross to Down	AllSites/ CSCSL (2200)	**Contaminants:** Petroleum Products-Unspecified and Polycyclic Aromatic Hydrocarbons **Status:** Awaiting cleanup

1) Assumes adjoining land unless otherwise noted and indicates approximate operational distance from the Site boundary.

Per EDR database information reviewed, a "historic cleaner" (Marine Hill Cleaners) was identified within 350 feet northwest of the Site (1520 S Dash Point Road) from 2001 to 2014. A historic "auto" facility (Sid & Jans Auto Repair) was also listed approximately 300 feet east of the Site limits (29810 18th St. South) from 1987-1996.

5.1.3 Regulatory Agency File Review

Although the Site or adjoining facility/land were identified within one or more of the standard environmental records sources, purchase/access of additional agency file materials (beyond that summarized herein) was not necessary in TGE's professional opinion; nor likely to prove useful in execution of this Practice. Files acquired from the WA Department of Ecology are provided in Appendix F of this report.

Site

Site files provided by the WA Department of Ecology was specifically limited to a UST Removal Report dated July 26, 1993 (prepared by Hazcon) for the "Rental Mart" facility for the benefit of The Bank of California; a Phase II ESA dated February 21, 2001 (prepared by ATC) of the "29805 Pacific Highway South" property for the benefit of Union Bank of California; an Underground Storage Tank Site Assessment report dated February 16, 2001 (prepared by ATC) for the "Ruth Evans Trust Site" for the benefit of Union Bank; a Phase I ESA dated June 13, 2000 (prepared by Kleinfelder) for "Vacant Commercial Property" for the benefit of Union Bank of California; and a UST Tank Removal Report dated March 1993 (prepared by Nowicki & Associates, Inc.[NAI]) for "Federal Way Rental Mart" for the benefit of the Bank of California.

Based on the NAI report (1993), the Property was in operation as "Rental Mart"; wherein a historic "tire shop" was reported on the property "facing Pacific Highway". One 5,000-gallon gasoline UST and dispenser were said to have been removed from the Property (February 9, 1993) from the former "demolished structure" (reportedly adjoining a septic tank). A concrete pad and abandoned piping were also observed in this area; however, NAI determined this equipment to be associated with a "UST which had been removed many years ago". Soil with gasoline odor was reportedly observed along the west side of the tank. Upon removal of the tank and dispenser, five soil samples collected from the excavation were reportedly analyzed for gasoline range TPH and BTEX. Concentrations of gasoline range TPH were found in stockpiled soils from 203 mg/kg to 1,050 mg/kg. However, samples collected from the excavation did not report COCs above method detection limits. Lead analysis was also performed for stockpiled soils, with concentrations reported below regulatory action levels. Confirmation of removal of stockpiled soils was not provided within the closure report. Groundwater was reportedly "not encountered" during excavations.

Based on the Hazcon report (July 26, 1993), Rental Mart reportedly operated with a 500-gallon diesel UST and dispenser (positioned north of the subject building) that was installed between the 1960s and the early 1970s. The UST, piping and dispenser/island, were reportedly removed from the ground on June 25, 1993. Four soil samples (SW-1 to SW-4) were reportedly collected (one from each of the sidewalls); one from the pit floor (B1); and three from the stockpiled soils. Two of the sidewall soil samples and all three stockpile samples were reportedly "composited" for laboratory analysis. Soil samples analyzed for diesel range TPH found concentrations from below method detection limits to 140 mg/kg (SW-4), which was said to have been below applicable MTCA Method A Soil Cleanup Levels (200 mg/kg). Concentrations of diesel range TPH in stockpiled soil was found at 490 mg/kg, and stockpiled soils were removed off-Site as "Class III waste". The terminal depth of excavation was reportedly eight feet below the ground surface and groundwater was not encountered.

Per the Phase I ESA prepared by Kleinfelder (June 13, 2000), portions of the Property were developed with a gasoline service station/restaurant that operated within the eastern Site limits from the 1920s to 1960s; however, information was not known specific to potential historic USTs (which may have been installed pre-registration mandate) on the Site. The subject building was reportedly constructed in 1970 and was utilized as a Rental Mart (later known as "40-Rentals") from initial construction until business closure in the late 1990s. At the time Kleinfelder's Phase I ESA inspection, several 55-gallon drums of used oil, and significant petroleum staining on concrete was observed around referenced drums and within service bays; and also four sumps were observed, which reportedly discharged to "the storm drain system". Although several off-Site sources of potential contamination were detailed within the Site vicinity, Kleinfelder determined that "none of the identified sites are likely to have impacted the site" and that given Senate Bill 7900 "a site that overlies a plume of contaminated groundwater is not strictly liable for that contamination"; "area-wide" cleanup liability was not identified. However, given site findings the following recommendations were provided in the 2000 Phase I ESA:

- *"Require the recent property tenant to remove and dispose of drums of waste oil and paints remaining on the subject property in accordance with applicable local, state and federal regulations;*
- *Complete a geophysical survey of the site in order to further assess the presence of USTs or septic tanks that may be present from the former gasoline station;*
- *Complete subsurface soil and possibly groundwater sampling in the areas adjacent to the two*

collection sumps located within the on-Site structure, in the location of the former gasoline and diesel tanks removed in 1993, and in the location of the pump dispenser collated at the former gasoline station; and

- *Contract a utility locating firm to confirm that the sumps are connected to the storm water system."*

Per regulatory information reviewed, the King County Redondo Oil Pit was determined to be 0.03 miles west of the subject property (current location of Sacajawea Park) and was determined to be "hydraulically cross-gradient" from the Site. Per Kleinfelder's review of historic resources, adjoining land west historically operated with "quarry activity" from the 1930s until developed as a park in the 1960s (reported location of the Redondo Oil Pit).

Suspected asbestos containing materials (popcorn ceiling texture, color tile, and interior wallboard) were observed by Kleinfelder to be in "good condition" and an asbestos survey was recommended prior to redevelopment and/or demolition. In addition, lead-based paint was suspected given the apparent age of the Site building.

In consideration of findings of the 2000 Phase I ESA, a Phase II subsurface investigation was performed by ATC. The Phase II included performance of a geophysical survey on September 19, 2000, which identified three anomalies within the Property. Anomaly #1 (approximately 50 feet north of the northeast corner of the subject building); anomaly #2 thought to be potential piping associated with a previously reported septic tank (along the eastern Site limits); and anomaly #3 (along the northwest Site limits) was thought to be a potential UST. Additionally, the sump drainage system was "confirmed" and demarcated. The three anomaly areas were excavated and metal auto parts (5 to 8 feet below grade) were found in areas 1 and 3; and one UST was found in area 2. Following the geophysical survey, ten soil borings (B-1 to B-10) were advanced (between 4 to 16 feet below grade) throughout the Property in areas of suspect former tankholds, a suspect former septic area, an asphalt-patched area, near sumps, and within the area of former drum storage. Soil samples were collected and analyzed for either diesel range TPH, gasoline range TPH, VOCs, metals, total lead or a combination thereof. The subsurface soil profile (to a depth of 16 feet below grade) was determined to be "non-native fill material", given the observed presence of demolition debris (concrete, car parts, tires, and wood) in the boreholes. Based on analytical results reported, referenced COCs were not characterized in soil above method detection limits; or if found, concentrations were found below regulatory action levels for MTCA Method A (unrestricted use). Given findings of the referenced Phase II, ATC recommended removal/closure of the 750-gallon UST.

A UST was discovered during the 2000 Phase II and ATC mobilized to the Property to perform tank removal activities; however, upon excavation of the 750-gallon UST (referenced as T-1), two additional USTs (referenced as T-2 and T-3) were discovered near the former fueling station. Capacities of the tanks were reported to be between 300 to 750-gallons (a discrepancy in capacities was noted in the report). Additionally, a buried "basement" portion of the former service station building (thought to be an auto repair area) was found filled with "concrete debris, trash and imported fill". Referenced materials, along with tires and a septic system were reportedly removed from the ground during excavation. Additionally, several buried pipes were encountered at depths of approximately 14 to 17 feet below the ground surface (exact configuration and use of this piping was unknown). A petroleum "sludge" was observed on concrete associated with the former service station basement and the concrete (and presumably sludge) removed from the ground. Following excavation, soil samples were collected and additional excavations were reportedly conducted until confirmation soil samples were reported below MTCA regulatory thresholds for petroleum hydrocarbons. Contaminated material was reportedly removed for off-Site disposal. Excavations were said to have been backfilled with "screened pit run and gravel" and "non-impacted soil" from the UST removal project. Groundwater was determined to be greater than 45 feet below the ground surface; however, during excavation, a "seasonal perched zone" was said encountered between 14 to 16 feet below the ground surface.

As related to excavation/removal associated with the historic Site fueling/service station, the Property was entered into the State VCP program. A letter from the WA Department of Ecology dated May 17, 2001 stated that “no further action” was required to achieve UST case closures. Additionally, the Site LUST listing was said to be closed.

Adjoining Land North

Per file information received/reviewed as available from the WA Department of Ecology, adjoining land north was historically developed with a store and two sheds/garages prior to 1936; and redeveloped as a UNOCAL fueling station in the late 1960s/early 1970s. Steel tanks associated with UNOCAL were replaced with “composite” tanks in 1989. Historic USTs were reportedly said removed in 1989 and 1990/1991 and a petroleum hydrocarbon release impacting soil beneath the USTs and former automotive repair facility was reported to the State. Three new USTs were installed within adjoining land north in 1995 (current tank systems) and currently operating as a Shell branded station.

Per a Report of Remedial Actions dated April 10, 1991, a used oil tank and two gasoline USTs were removed from this adjoining land in 1990 along with product piping, dispensers, and a vapor well point. Over-excavation of soil was performed in connection with local contamination from the used oil tank; and soil samples did not contain petroleum hydrocarbons or gasoline constituents above method detection limits or regulatory action levels. Stockpiled soils were said to have been removed for off-site disposal.

A Limited Phase II was performed within adjoining land north in 2001 to assess the current tank system. Soil borings were advanced within adjoining land north between 5 to 18 feet below the ground surface. One boring was reportedly advanced to 30 feet below grade; however, groundwater was not encountered. Soil samples collected were said analyzed for gasoline range TPH and BTEX; yet not found in soil above method detection limits or, if found such COCs were reported below applicable regulatory thresholds. Based on results of the Limited Phase II a new release was not determined to have occurred. Groundwater was reportedly not encountered in any of the borings within adjoining land north (greatest depth 33 feet below the ground surface). However, based on regional hydrology, the direction of groundwater flow was presumed to trend in a northwest direction.

A report dated 2005 summarized previous efforts and requested closure of the tanks and LUST case from the State under the VCP program. Per a letter from the WA Department of Ecology dated January 28, 2006, closure concurrence was received and “no further action” was required for this specific request. The LUST case was reportedly removed from the state database.

5.1.4 Pipeline and Hazardous Materials Safety Administration (PHMSA)

A “plot map” indicating the location of all recorded wells and pipelines was obtained for the Site (and immediately surrounding areas) from the Pipeline and Hazardous Materials Safety Administration (PHMSA). As represented within the map, historical/current oil or gas exploration and/or pipelines were not identified on-Site, abutting Site limits, or on immediately surrounding properties, unless otherwise tabulated below.

5.1.5 User/Occupant Provided Information

The following is a discussion/summary of pertinent documents as provided to TGE for review. Copies of these reports/documents are included within Appendix A or have been provided to User under separate cover (with reference of such delivery and the method used provided in Appendix A).

Document Name	Information and/or Discussion/Summary of Relevant Environmental Conditions & Findings
Other	
A proposed Site plan was provided by the Client documenting intended Site use and development, dated February 2017 and is included within Appendix A.	

5.2 Physical Setting Sources

In addition to the most current Topographic Map that includes the Property (Figure 1 of this report), TGE obtained useful sources to provide information about the geologic, hydrogeologic, hydrologic, and topographic characteristics of the Site. Below referenced physical setting sources are detailed on map(s) included in Appendix C.

5.2.1 Physiography

Physiography	
Elevation	Approximately 426 feet above mean sea level.
Topographic Gradient	Published natural surface drainage for the area is toward the northwest.
Closest natural surface water body	Per published topographic map information, unnamed creek, located approximately 1,000 feet north of the Property.

5.2.2 Flood Zone

Flood Zone	
Zone	"Zone X - unshaded" – Area determined to be outside the 500 year flood plain in an area designated as a "low flood risk."

5.2.3 Geology

Geology	
Formation	The Site appears to overlie the Pleistocene-age younger glacial drift (Qg1).
Description	"Younger glacial drift, undivided. Till, outwash, and associated deposits; sorted and unsorted sand, gravel, silt, and clay. Includes some alluvium."
Fault Lines	Fault lines were not researched/available from publically available/ascertainable resources for the Site or within the Property vicinity.

Soil Characteristics	
Type	Alderwood gravelly sandy loam, 8 to 15 percent (AgC).
Description	Site soil(s) are listed as "hydric soils" within the U.S. Department of Agriculture-Natural Resources Conservation Service Hydric Soils List for King County. Soil descriptions are provided in Appendix C.

5.2.4 Hydrogeology

Hydrogeology	
Primary Aquifer	Vashon recessional outwash unit.
Hydrogeologic Gradient and Estimated Depth to Groundwater	Based on a review of publicly available and reasonably ascertainable documents (topographic maps, state well reports, and/or subsurface investigations conducted within the Site or immediate vicinity by TGE or others) the known or inferred hydrogeologic gradient is toward the northwest. Known or inferred depth to groundwater is approximately 45-50feet below grade (fbg).

5.3 Historic Use Information

The objective of obtaining and reviewing historical use information is to "*develop a history of the previous uses of the Property and surrounding area to help identify the likelihood of past uses having led to RECs [including CRECs] and HRECs in connection with the Property*." To this end, and by using Standard Historical Sources, TGE attempted to research all obvious Property use from the present, back to the Property's first developed use; or back to 1940, whichever is earlier. Similar to that investigation performed for the Site, information sources that proved useful for the stated objective were likewise used in the conduct of this assessment with respect to historical use of adjoining land; in that historical Property use sources may reveal information in connection with commercial real estate in the surrounding area.

To complete this objective, TGE reviewed only as many of the Standard Historical Sources as necessary (and as reasonably ascertainable and likely to be useful) and accomplished this task in five (5) year increments with the use of the following sources (indicated with a "✓" below):

Source/Year	2010	2000	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900
Aerial Photographs†	✔	✔	✔	✔	✔	✔	✔	✔				
Fire Insurance Maps												
Historic Topographic Maps	✔		✔	✔*	✔*	✔*	✔*					
Local Street Directories‡	✔	✔	✔	✔	✔							
Recorded Land Title Records												
Other*	In addition to the User, TGE requested information from the Property Owner and the Key Site Manager (KSM) prior to Site reconnaissance and/or while conducting Site reconnaissance. Useful information (if any) is summarized within Section 6.0 (Site Reconnaissance) and/or included within record of communication (ROC) forms included in Appendix C.											

† As deemed necessary, historical maps (aerial photographs and topographic maps) were reviewed online (historicaerials.com) and/or at the local library. If such historical maps were determined to be useful/pertinent (as discussed in Section 5.3.1), the appropriate "✓" is noted with a "*". Historical maps reviewed online and/or at the local library, as applicable, are not available for reproduction.

‡ EDR searches selected national collections of business directories and collects listings of potential gas station/filling station/service stations and/or dry cleaning facilities. If such historical information was determined to be useful/pertinent (as discussed in Section 5.4.1), the appropriate "✓" is noted with a "*" and such information is also included within Appendix B.

* Other than those sources previously listed, from time to time other sources of information may become available that are "credible to a reasonable person" and may identify past uses of the Property. Per the Practice, this category includes, but is not limited to miscellaneous maps, newspaper archives, internet sites, community organizations, local libraries, historical societies, current owners or occupants of neighboring land, or records in the files and/or personal knowledge of the Property.

Copies of the above-referenced historical documents as available and pertinent to this assessment are included in Appendix D of this report (unless otherwise not available for reproduction). City directory publications were reviewed and the King County library in Auburn, WA and the Tacoma Public Library in Tacoma, WA. Streets and/or addresses were not found in city directory publications reviewed prior to the 1970s decade.

5.3.1 Use History Summary

Following is a tabulated historical use summary for the Site and adjoining land. Local street directory information detailed below only indicates if occupants were listed within respective city directories reviewed and does not denote the absence of a listed occupant.

Address	Occupant Information per Local Street Directories (Year)	Description
Site		
29805 Pacific Highway South	Not listed (1976-1977) Rental Marts (1981-1985) Green Connection Greenhouse and Rental Marts (1991) 40 Rentals/Penske Truck Leasing (1997) United Rentals (2001) Fort Inc. (2007) Western International Recovery Bureau (2011) Payless Auto Mart, Auto Repair, and WIRB Inc. (2016)	Based on review of previous Phase I and Phase II reports prepared by others, the eastern portion of the Property (along Pacific Highway South) was developed as a fueling station/restaurant in the 1920s with historic use of underground (fuel) storage tanks (USTs). The historic fueling station/restaurant reportedly ceased operation by the late 1960s and the former structure was demolished. However, four USTs, a septic system, and a basement level (automotive repair area) were discovered in connection with the former fueling station structure and were subsequently excavated in 1993 and 2000. During excavations, petroleum impacted soil was reported to the State (under LUST/VCP program). This finding/condition was granted case closure (by the State) in 2001, per State case files. Per historical aerial photographs, from the 1940s to the 1950s, the southern and western portions of the Property appeared to have been largely undeveloped. However a historic topographic map dated 1956 depicts the western Site limits and adjoining land west with “depressions”. An unpaved road traversing southeast from the northern Site limits appears to terminate within the southeast Site limits per a 1965 aerial photograph, and denuded vegetation and/or clearing of land is evident within the Site; surface cover removal and/or Site grading is evident in the 1968 aerial photograph. The current subject building was reportedly constructed within the southern portion of the Property in the late 1960s/early 1970s; it initially operated as “Rental Mart” (an equipment rental/repair facility). Rental Mart historically operated with at least one diesel UST and dispenser, which were recorded as removed from the ground in 1993. Figures provided within prior

Address	Occupant Information per Local Street Directories (Year)	Description
29651 Pacific Highway South*	Not listed (1976-2016)	ESA reports indicated the presence of a historic septic system, sumps and former hazardous materials storage areas in connection with the subject building. A “greenhouse” (and associated structures) is identified per historical resources/files during the early 1990s (removed by 2000) within the northwest portion of the Site. Per a 2000 Phase I ESA prepared by others, Rental Mart ceased operation within the Property in the late 1990s and the Property was vacant at the time of the prior assessment. Per city directory publications, the Property operated as “United Rentals” during at least 2001 and “Fort Inc.”, in 2007. Per Appraisal District information reviewed, the Property was sold by Union Bank to American Drug Stores, Inc. in 2001, private individuals in 2002 and 2005, and to the current owner in 2007 (Nixlexi LLC). Since transfer of ownership, the Property has operated as a used car sales facility (Payless), an auto repair facility, and a repossession facility (portions controlled by the federal government).
North		
29625 Pacific Highway South	Jump’s Union Gas Station (1981-1991) Deli and Town Pump BP (1997) Deli and Town Shell (2001) FW Deli Mart (2007) Not listed (2011-2016)	Dash Point Road South has bound the northern Site limits since at least the 1940s. Per State file information reviewed, adjoining land north of Dash Point Road operated as a fueling/service station with concurrent use of USTs since at least the mid-1930s. Initial USTs were reportedly removed from the ground in 1989 and a second tank system installed. At the time of tank removal, a release of petroleum hydrocarbon (impacted soil) was reported; a second tank system was also removed in 1991. Adjoining land north apparently remained vacant until redevelopment as a Shell branded fueling station in the mid-1990s (current improvements).

Address	Occupant Information per Local Street Directories (Year)	Description
East		
29645 18th Avenue South	Address not researched.	Based on review of historic aerial photographs and previous reports by others, Pacific Highway South has bound the eastern Site limits since at least the 1920s. Adjoining land east of Pacific Highway appeared to be forested per aerial photographs from the 1940s through the 1980s; with development of current apartment buildings by 1990. Since initial development, adjoining land east has been in use for multi-family occupancy.
South		
29815 Pacific Highway South	Not listed (1976-1981) Federal Way Motel (1985-2001) Not listed (2007) Federal Way Motel (2011) Cheap Heating and Air Conditioning and Federal Way Motel (2016)	Abutting land south appears to have been forested land from at least the 1940s until commercial development of the Federal Way Motel by the mid-1980s (per aerial photograph review). Based on Site reconnaissance, adjoining land south remains in operation as the Federal Way Motel.
West		
1401 South Dash Point Road	Not listed (1976-2016)	Per historic aerial photographs and/or topographic maps from the 1940s through the 1970s, S. 16th has bound the western Site limits since at least the 1940s. Adjoining land beyond S. 16th was utilized as a gravel pit/quarry until redeveloped as a school and Sacajawea Park by at least 1978 (current improvements).

*Reported or likely historic address.

Per regulatory database information, a location in the Site vicinity was identified as the “Redondo Oil Pit” for a past release of petroleum hydrocarbons and polycyclic aromatic hydrocarbons (dates not reported); however, state financed cleanup remains “pending”. Documentation to definitively identify the location of this facility (with respect to Site boundaries and distance) was not found within records reviewed.

6.0 SITE RECONNAISSANCE

Partial Site reconnaissance was performed on July 19, 2017, by Ms. Lori McKinnon, Project Manager, with TGE. Ms. Rachel Brown, with Western International Recovery Bureau, provided TGE such partial access to the Property and accompanied TGE during the Site visit. The weather on the day of the Site visit was sunny with a temperature in the 90s; visibility was clear. Photographic documentation is provided in Appendix E.

6.1 Methodology

Unless otherwise summarized herein, the Property was first observed from all surrounding adjoining public roads. A walk-through of all accessible portions of the Property was then conducted. Current and past (if evident) uses of the Property, adjoining land, and the general area surrounding the Site were documented. The topography of the Property was also noted, particularly with regard to potential migration pathways of hazardous substances or petroleum products, if present. Visual reconnaissance of adjoining land was limited to areas that were readily observable from the Property or from public access roads.

6.2 Uses and Conditions

The Site setting was investigated in such a manner as to identify current and past use of hazardous substances or petroleum products in connection with the Property. A summary of uses and conditions of the Property as observed during Site reconnaissance is provided below to the extent that such use/conditions were visually and/or physically observable, or reported by Site sources; or included in records reviewed as part of this assessment.

6.2.1 General Site Setting

Current Uses of Adjoining Properties				
Direction	Observations	Evidence of a Release(1)		Discussion/Summary
		No	Yes	
North	South Dash Point Road, beyond which is a Shell fuel station.	–	✔	Refer to Section 5.1.3 of this report for further discussion of VCP 5427.
East	Pacific Highway South, beyond which is The Overlook Apartments residential community.	✔	–	N/A
South	Federal Way Motel.	✔	–	N/A
West	16th Avenue South, beyond which is Sacajawea Park.	–	✔	Historic gravel/quarry pit associated with adjoining land west.
Evidence of Past Land Uses of Adjoining Properties		✔	–	N/A
Current or Past Land Uses in the Surrounding Area		–	✔	Refer to Section 5.1.3 of this report for further discussion of VCP 79813564.
Geologic, Hydrologic, and Topographic Conditions		✔	–	N/A
1) Evidence of a release (physically or visibly observed/reported) of hazardous substances or petroleum products in connection with listed equipment/materials (including surficial staining, pools of liquid, and/or stressed vegetation [if any]) is discussed in other report sections.				

6.3 Interior and Exterior Property Use Observations

Unless otherwise summarized herein, TGE assessed the interior of Site improvements as well as surrounding Site areas across the Property with respect to visually or physically observed/obvious use that would have involved the presence, treatment, storage, disposal, or generation of hazardous substances or petroleum products on the Property as summarized below. Specific information regarding interior/exterior general features/divisions, is summarized in the table below and/or depicted upon Figure 3. At the time of Site reconnaissance, access to the western Site limits was not provided (access restricted). Per Site sources, access to this area of the Property is controlled by the federal government.

Current Uses of the Property
The Property is currently operating as Payless Auto Sales, Repossession, and Auto Repair; a used car dealership, a repossession company, and an auto repair facility. The subject building is divided into a used car sales office, a two-story repossession office, and four repair bays. However, at the time of Site observation, the first two bays were utilized for storage by the repossession company; the third bay was utilized for auto repair services; and the fourth bay was inaccessible (however, reportedly utilized for storage). The remaining portions of the Property were utilized for vehicle storage. A canopy north of the repair bay is reportedly utilized for carwash/detail activities (waste water discharges onto the ground surface). Access to the Property is provided via driveways located along the eastern Site perimeter.

Site Observations		Visually/Physically Observed/Reported		Discussion/Summary
		No	Yes	
Storage Tanks (historic/current)		–	✔	Refer to Section 5.1.3 of this report for further discussion of historic Site USTs.
Drums/Containers (5-gallon capacity and greater)		–	✔	Drums and containers with a capacity of five gallons or greater were observed and are detailed with Section 6.3.2.
Known or Potential Soil/Surface Water/Groundwater Contamination		–	✔	Refer to Section 5.1.2 of this report for further discussion of LUSTs 4709 & 6523 and VCP 5427.
Roads: used as a conduit for disposal of hazardous substances or petroleum products.		–	✔	Per previous subsurface investigation and geotechnical investigation within the Site limits, significant fill material, concrete debris, and other materials have been found up to 17 feet below grade within the Property.
Evidence of Past Site Land Use		–	✔	Numerous cuts in asphalt surfacing and concrete were observed within the subject building and parking areas, indicative of former Site use.
Utilities	Potable Water Supply			City of Federal Way
	Sewage Disposal System			City of Federal Way; however, historic septic systems have reportedly been utilized within the Property. Specific information regarding removal of all septic systems was not found.

6.3.1 Storage Tanks (UST/PST/AST)

Per regulatory database information for the Site, the Property is recorded as a historic UST facility (refer to Section 5.0) for the historic operation of USTs. Although not specifically reported within previous assessments conducted by others, an area within the subject building was observed with covered fill ports and/or vents (Bay 2). Site sources were unable to identify the use/purpose of these specific features; and the

Site is not recorded with use of operational USTs. ASTs were not observed within the Site during limited Site reconnaissance.

6.3.2 Drums and Other Containers

TGE did not observe hazardous substances and/or petroleum products associated with current Site operations at the time of the assessment with the exception of those containers detailed within the table below; to the extent such products were contained within vessels of five-gallons or more.

No. of Containers/ Container Material/ Capacity (Volume)	Contents (Hazard Constituent)	Use	Location (interior/ exterior), Position and Secondary Containment	Evidence of a Release
3 plastic 5-gallon container(s) (partially full)	New Oil (petroleum products)	Maintenance	Bay 2 (interior) on concrete with no secondary containment	No
4 plastic 5-gallon container(s) (partially full)	Paint (hazardous substances)	Maintenance	Bay 2 (interior) on concrete with no secondary containment	No
Numerous plastic 5-gallon container(s) (partially full)	New/Used Oil (petroleum products)	Maintenance	Bay 3 (interior) on concrete with no secondary containment	Yes-material staining on concrete
Three plastic 55-gallon container(s) (partially full)	Coolant (petroleum products)	Maintenance	Bay 3 (interior) on concrete with no secondary containment	Yes-material staining on concrete
One plastic tote(s) (partially full)	Used Oil (petroleum products)	Maintenance	Bay 3 (interior) on concrete with no secondary containment	Yes-material staining on concrete
One metal 55-gallon drum	Solid waste	Maintenance	Bay 3 (interior) on concrete with no secondary containment	No
One metal 55-gallon drum	Solid waste	Maintenance	Bay 3 (exterior/no cover) on the ground surface with no secondary containment	No

As observed at the time of the Site visit, above-referenced containers/materials within Bay 3 were found without appropriate labeling and were observed in poor condition. Additionally, material staining was observed on the concrete floor (surface) within Bay 3. Containers noted within Bay 2 were observed to be in good physical condition and did not appear to be leaking. Containers of five-gallons or less of hazardous substances and/or petroleum products were observed within service bays and/or along the exterior of the Property, which included minor quantities of cleaning supplies, oil, spray paint, gasoline/diesel fuel (less than 5-gallon containers), and lubricants. In addition, the repair bay (Bay 3) was observed with the use of one cold-parts washer (solvent bath parts washer), which is reportedly managed by Site personnel on an as needed basis.

Interior and Exterior Observations			
	Visually/Physically Observed/Reported		Discussion/Summary
	No	Yes	
Strong, pungent, or noxious odors (Unusual) Odors: indicative of hazardous substances or petroleum products	✔	–	N/A
Pools of Liquid: standing surface water indicative of hazardous substances or petroleum products	–	✔	N/A
PCBs	–	✔	The presence of PCBs in association with Site transformers is suspect. Responsibility for management of the transformers lies with the energy provider. In addition, PCBs are suspected in historic operation or use of sumps, compressor equipment, and light ballasts in connection with the subject building.
Paint Booth, Spray Rigs (etc.)	✔	–	N/A
Pits, Ponds, or Lagoons: pits, ponds, lagoons, farm tanks, swamps, lakes, rivers, springs, surface impoundments, etc.	✔	–	N/A
Exterior Stained Soil/Pavement or discoloration on any surface	–	✔	Material staining was observed on concrete and asphalt near Bay 3.
Stressed Vegetation from something other than insufficient water	✔	–	N/A
Solid Waste: buried on-Site and/or areas that are apparently filled or graded by non-natural causes (including fill material of unknown origin).	–	✔	As previously reported (by others) within a prior subsurface investigation within the Property, significant fill material and/or other waste-like materials were found (reported) within the Property to a depth of at least 17 feet below grade.

Interior and Exterior Observations			
	Visually/Physically Observed/Reported		Discussion/Summary
	No	Yes	
Solid Waste Management: municipal waste, cardboard, metal shavings, swarf, non-containerized debris.	–	✔	The municipal waste dumpster observed at the Property is reportedly removed by a third-party contractor (Waste Management) for off-Property disposal/management of waste. Exterior areas near the dumpster appeared generally free of non-containerized trash and debris, with the exception of accumulated tires, pallets, car parts, and other materials near a canopy north of the subject building. Site sources were unable to provide documentation or response regarding removal of used oil, scrap metal, spent batteries, and/or other materials associated with automotive repair operations (making disposal of such materials via the dumpster suspect).
Wastewater/Stormwater	–	✔	As discussed within previous reports prepared for the Site, four sumps are present in association with the subject building, which may discharge into the sanitary sewer or surface/storm sewer system. The discharge point of a sump observed within Bay 3 was not field located; however, a pipe was observed exterior of the Bay 3. Sumps reported within Bay 4 and west of Bay 4 were not field located (given that access to this area was not provided to TGE).
Sumps, Cisterns, or Subsurface Interceptor Devices: oil/water separators, grease traps, grit traps, lift stations, trenches, sumps	–	✔	Material staining was observed around a sump within Building 3. Site sources were unable to provide information regarding routine inspection/cleanout of Site sumps.
Wells: potable, monitor, observation, injection, dry	✔	–	N/A
Septic Systems	–	✔	A historic septic system was reported north of the subject building within prior reports prepared by others. Documentation regarding removal of the septic system was not found within records reviewed.
Air Emissions	✔	–	N/A

Interior and Exterior Observations			
	Visually/Physically Observed/Reported		Discussion/Summary
	No	Yes	
Patched Asphalt/Concrete Areas: indicating potential fueling islands or indicative of former UST systems	–	✔	Although specific patched asphalt was not observed in connection with historic UST areas, patched asphalt was observed within the north-central Site limits. Likely in an area of former excavation and/or trenching. Additionally, concrete holes, indicative of former fencing was observed within the northern Site limits.
Railroad Spurs	✔	–	N/A
Radiological Equipment	✔	–	N/A
Farm Waste: Feed lots spoils, manure stockpiles, etc.	✔	–	N/A
Current/Historic Pesticide/Herbicide Use	–	–	N/A
Oil/Gas Well Exploration/Refinery Activities	✔	–	N/A
Heating/Cooling Ventilation Systems	–	✔	Central HVAC fueled by electricity.
Interior Stains or Corrosion except for staining from water.	–	✔	Heavy oily staining was observed along concrete surfaces associated with Bay 3 auto repair operations.
Interior Drains and Sumps: that are NOT in a kitchen or restroom	–	✔	Refer above for discussion of Site sumps.
Basements and/or subsurface vaults	–	✔	A historic basement was reported within the former fueling station structure positioned within the northeast Site limits. Per prior reports reviewed, remnants of a concrete foundation can be found in this area of the Property.

6.4 Site Reconnaissance Observations Relevant to this Report (and RECs)

Site observations did not appear relevant to potential environmental conditions (PECs) within the Property, with the exception of historic operations involving the use of underground storage tanks with documented release of “petroleum product” to the environment, as well as prior use of the Site for automotive repair operations and the reported presence of fill material of unknown origin.

6.5 Vapor Encroachment Condition (VEC) Potential

Given historic/current Site and adjoining operations (auto repair, fueling stations, gravel/quarry operations, etc.); vapor intrusion or encroachment conditions cannot be ruled out without additional assessment.

7.0 INTERVIEWS

The objective of conducting interviews is to obtain information indicating RECs in connection with the Property as may be ascertained from past and present Property owners, as well as from state and/or local government officials.

7.1 Interviews with Past and Present Owners and Occupants

The content of questions asked of the Property owner, Key Site Manager (KSM) and/or User were formed in an attempt to obtain information about uses and conditions as observed and as described in Section 6.0 of this report. TGE made reasonable attempts to interview occupants of the Property who possessed knowledge of its current and past use history. Refer to Section 4.0, Section 5.0, Section 6.0 and/or within record(s) of communication (ROCs) included in Appendix C for details/interview content for the following interviewees, as tabulated below in preparation of this assessment report.

Interview Target		KSM*	Property Owner	Occupant/ Operator**	User
Interviewee (Position/Company)		N/A	Niklexi L.L.C.	Ms. Rachel Brown Western International Recovery Bureau	MHS
Duration of Occupancy (Years)		N/A	N/A	3	N/A
Contact Details		N/A	N/A	Phone: 253-568-9920	N/A
Medium		N/A	N/A	Personal Interview	N/A
Timing with Respect to Site Visit†		N/A	N/A	During	N/A
Helpful Documents Requested/ Provided (Section 2.0/4.0)		N/A	N/A	Yes	N/A
Answers Complete/In Good Faith to the Extent of Their Knowledge		N/A	N/A	Yes	N/A
Incomplete Answers		N/A	N/A	No	N/A
Proceedings Involving the Property	Litigation‡	N/A	N/A	No	N/A
	Administrative proceedings‡	N/A	N/A	No	N/A
	Notices from governmental entity regarding violation of environmental laws or possible liability‡	N/A	N/A	No	N/A

* Defined as a person with "good knowledge" of the uses and physical characteristics of the Property, per the ASTM Standard.

** A reasonable attempt was made to interview a representative of each occupant of the Property and/or major occupants (if greater than five). For multi-family residential properties (as applicable), only non-residential occupants were interviewed.

† Date(s) of Site visit: July 19, 2017.

‡ Pending, threatened, or past concerns relating to hazardous substances or petroleum products.

7.1.1 Findings of Interview(s) with Past and Present Owners and Occupants

TGE was unable to obtain information necessary to comply with this Practice and meet Interview objectives. Specifically, information regarding current management of hazardous substances and/or petroleum products was not provided (manifests, bills of lading,etc.) and Site sources were unable to identify ports and a vent within Bay 2.

7.2 Interviews with State and/or Local Government Officials

TGE contacted the following agencies to obtain local government records responsive to this Practice. Correspondence records (or Records of Communication), if any, are provided in Appendix C of this report

Interview Target*	Fire Department	Health Agency	Hazardous Waste Disposal Agency	Building/ Groundwater Use Permit Agency
Interviewee (Position)	King County Sheriff's Office	King County	N/A	Ms. Kristen Davis WA Department of Ecology Central Records
Medium: Contact Details	Web Request for Information Submittal	Web Request for Information Submittal	N/A	Email: krid461@ecy.wa.gov
Timing with Respect to Site Visit†	After	After	N/A	Before/After
Answers Complete/In Good Faith to the Extent of Their Knowledge	N/A	N/A	N/A	Yes
Incomplete Answers‡	Yes	Yes	N/A	No

* Interviews conducted as part of current assessment efforts were conducted to determine changes and/or updates to operations reported within previous reports (if any).
† Date(s) of Site visit: July 19, 2017.
‡ Reasonable attempts may have been made to interview parties in connection with incidents associated with hazardous materials at the Site; yet a timely response may not have been reasonably ascertainable.

7.2.2 Findings of Interview(s) with State and/or Local Government Officials

Local/Regional Government Agency(1)	Interview/Record Content (if any)
Fire Department	N/A
Health Agency	N/A
Hazardous Waste Disposal Agency (Environmental/Pollution Department)	N/A
Building/Groundwater Use Permit Agency	State file information provided is summarized in Section 5.0 of this report.

Local/Regional Government Agency[1]	Interview/Record Content (if any)
1.	Information received from State and/or local agency officials is attached hereto if received within 20 *"calendar days"* from the date of TGE's notice to proceed; follow-on information received thereafter will be forwarded as an addendum (if deemed significant, sufficiently useful, accurate, and complete in the discretion of TGE).
2.	Data gap(s) realized due to a lack of or inability to obtain information from above listed State and/or local government officials (as applicable) is detailed within Section 10.0.
N/A	Not applicable given that a response was not received or information was not requested.

Following reasonable attempts to obtain information from State and/or local government officials pertinent to the Property with regard to use, treatment, storage, disposal of or generation of hazardous substances or petroleum products on the Property, TGE was unable to ascertain information relevant to the Property. However, incomplete or partial answers from certain above-listed agencies does not make interviews with State and/or Local Government incomplete, per Section 11.8 of the ASTM E1527-13 Practice.

7.3 Interview(s) with Other Sources

Other than those State/local agencies listed above, additional State/local government agencies, as well as other sources of information (i.e. community organizations; historical societies; current/historical owners/occupants of neighboring land; and/or personal knowledge of the Property) may have been solicited to determine past uses of the Property; and/or accessed to identify RECs in connection with the Property. Such information, as applicable and as obtained per this Practice, is detailed within Section 5.0 and Section 6.0; and/or detailed within ROC forms included in Appendix C.

8.0 SUMMARY OF NON-SCOPE CONSIDERATIONS

8.1 Non Scope Considerations

Summary Table of NSCs		
Asbestos-Containing Building Materials (ACBMs)		✔ if "Yes"
Visual Survey	Original construction date of Site structure(s) pre-asbestos regulation (constructed prior to 1981).	✔
	Presumed/assumed Asbestos-Containing Materials (ACMs).	✔
	Spray-applied surfacing observed during Site reconnaissance.	✔
	Damaged suspect ACBMs (physical condition) observed during Site reconnaissance.	–
Physical Survey	ACM survey performed concurrent with the Phase I ESA.	–
Previous Reports	ACM Survey(s) provided by User or Site sources.	–
	Asbestos Abatement(s) documents provided by User or Site sources.	–
	OSHA Work Practices Program Manual for ACBMs provided by User or Site sources.	–
Lead-Based Paint (LBP)		
Visual Survey	Original construction date of Site structure(s) pre-lead based paint regulation (constructed prior to 1978/1979).	✔
	Painted surfaces appeared problematic in physical appearance (peeled or cracked) during Site reconnaissance.	✔
Physical Survey	LBP survey performed concurrent with the Phase I ESA.	–
Previous Reports	LBP Survey(s) provided by User or Site sources.	–
	LBP Abatement(s) provided by User or Site sources.	–
	OSHA Work Practices Program Manual for LBP provided by User or Site sources.	–
Evidence of Mold or Conditions Conducive to Mold		
Visual Survey	Water damaged building materials (greater than ten contiguous square feet) observed during Site reconnaissance.	–
	Mold damaged building materials (greater than ten contiguous square feet) observed during Site reconnaissance	–
	Biological debris (including dust) associated with building mechanical system(s) observed during Site reconnaissance.	–
	Surrounding land use representative of an imminent threat of impact to the indoor environment with respect to biological growth observed during Site reconnaissance.	–
Radon		
Radon	Potentially elevated radon levels (greater than 4.0 pCi/L) per EPA State specific radon information reviewed.	–
	Radon testing performed concurrent with the Phase I ESA.	–
Wetlands		
Visual Survey	Evidence of inundation by standing water observed during Site reconnaissance.	–
	Presence of vegetation commonly associated with designated wetlands observed during Site reconnaissance.	–
Physical Setting Source	Wetlands depicted within the limits of the Property per the USFWS Wetlands Map included in Appendix C of this report.	–

Summary Table of NSCs		
Potential for Endangered Species		
Visual Survey	Evidence of endangered species observed during Site reconnaissance.	–
Physical Setting Source	Endangered species habitat depicted within the limits of the Property per Washington Department of Fish and Wildlife map included in Appendix C of this report.	–

Spray-applied surfacing ("pop-corn" texture) was observed on the ceiling within the used car sales area and office areas.

Although not identified on-Site, per the WA Department of Ecology Critical Habitat Map, a critical water habitat area (wetlands) was identified within 700 feet southeast of the Site limits.

8.2 Summary of Non-Scope Considerations (NSCs)

The following NSC(s), as well as associated recommendations, was/were identified in connection with the assessment that may (or may not) represent potential Business Environmental Risks (BERs) in connection with the Site.

NSCs	Recommendation(s)
The suspect/presumed presence of asbestos within building materials at the Property.	The performance of an asbestos and lead-based paint survey sufficient to characterize building materials such that the materials may be managed in place or removed in accordance with applicable local, state and federal law prior to any renovation and/or demolition of the Site building.
The observed presence of suspect lead-based paint in poor (peeling) condition within bays.	

8.3 Compliance

The following issues of apparent non-compliance (and/or deviation from Best Management Practices [BMPs]) were identified in connection with the Property at the time of the Site assessment.

Issue	Recommendation(s)
Operation of repair/maintenance activities within/near the subject building, with the presence and/or accumulation of hazardous substances and/or petroleum products, as well as contingent management of sumps and/or other subsurface features (a potential closed UST within Bay 2).	Require that hazardous substances and/or petroleum products be removed by the current owner/operator and that any sumps/subsurface equipment be cleaned and evacuated with related documentation of such activity retained (and conveyed to appropriate parties) in connection with any hazardous materials or petroleum products.
Per subsurface investigations conducted by others within the Property, significant fill material, debris, and other materials were found within Site soils to at least 17 feet below ground surface.	The potential for the presence of significant geotechnically unsuitable material, which may be encountered during building construction and require regulated and/or excavation/disposal in consideration of the financial impact that unsuitable fill may have (especially if pre-construction removal is required) for proposed new construction.

9.0 ADDITIONAL SERVICES

TGE was not retained to conduct “Additional Services” for this report.

10.0 LIMITING CONDITIONS, DELETIONS & DEVIATIONS, DATA GAPS

10.1 Limiting Conditions

As introduced within Section 2.0 of this report, certain obstructions may be documented during Property reconnaissance that limit visual/physical inspection of the Property such as adjacent buildings, bodies of water, surface cover (any type of pavement) as well as other physical constraints such as rain or snow. Unless otherwise specified below, TGE did not realize material Limiting Conditions during conduct of this assessment with the exception of the following:

- Portions of Property were covered with improvements, paving, and/or vehicles/equipment that precluded direct inspection of the ground surface.

- TGE was not provided access to Bay 4 and the western Site limits for inspection during Site reconnaissance.

10.2 Deletions and Deviations

Should Client have imposed modifications to the ASTM/AAI work scope (such that required elements of the Practice were omitted), any such deletions or deviations were to be summarized (and are specified below). TGE was to consider the materiality of any such scope deletion or deviation and discuss the adverse impact realized to effective execution of the Practice and contingent impact to Opinion rendered herein. Unless otherwise specified below, TGE was not requested to limit or deviate from the Practice in the conduct of this assessment.

10.3 Data Failure/Data Gaps

As discussed in Section 2.0 of this report, a lack of or inability to obtain certain information required per this Practice, despite good faith efforts may result in data gaps to the report. Failure to achieve historical research objectives may cause “data failure” (a type of data gap) and possibly result in a REC in connection with the Site; especially if the data gap is material (in consideration of other compelling Findings of the assessment). Data gaps (if any) are listed below and referenced (only if material to the assessment) in Section 12.0 of this report.

- Although historical information for this assessment dated back to the 1920s, TGE was unable to research the Property to vacant, undeveloped land.

- Site sources were unable to provide specific information regarding current management of hazardous substances and/or petroleum products in the in form of manifests and/or bills of lading.

- The Federal Way Fire Department and King County were unresponsive to information requests.

- The ASTM E1527-13 Phase I ESA User Questionnaire was not returned to TGE in complete form.

10.4 Outcome of Limiting Conditions, Deletions, Deviations and Data Failure/Data Gaps

Limiting condition(s), deletion(s), deviation(s), and/or data failure(s)/data gap(s) as listed above (if any) did not result in Practice objectives being impacted for this ESA with the exception of the following:

- an absence of operational information regarding current management of hazardous substances and/or petroleum products is a data gap/data failure that rises to the definition of a REC in connection with the Property; and

- TGE’s inability to inspect portions of the Site is a significant data gap that that rises to the definition of a REC in connection with the Property.

11.0 FINDINGS AND OPINIONS

As introduced within Section 2.0 of this report, the following Findings were revealed in connection with this ESA and as defined as per ASTM E1527-13. Contingent/related Opinion is also provided herein as required per the scope of work with language as to the rational used to execute this Practice.

Finding	Opinion
Historic Site use from the 1920s through the 1990s that involved retail fuel storage and sales; auto repair; equipment rental/repair/service; a greenhouse operation; and placement of fill with unknown character – all of which included either recorded and/or inferred use of hazardous substances and/or petroleum products with the potential to adversely impact the Site.	Summarized historic Site use; an absence of details specific to final removal of likely sub-slab waste holding units (tanks, sumps, separators, septic systems, etc.); the unknown presence of fuel storage tanks, tank piping systems, and other operational equipment; as well as the presence of non-characterized fill across the Site (which may be located within Client's proposed pathway of new construction) represent a cumulative **REC** in connection with the Property.
Current Site use with an auto repair/service/vehicle holding operation (from which TGE was partially restricted access for inspection) with the reported use of hazardous substances and/or petroleum products with the potential to adversely impact the Site.	Current Site use (as well as the realized data gap specific to limited Site inspection) is/rises to the definition of a **REC** in connection with the Property.
Per regulatory records reviewed, adjoining land north has operated as a fueling station since at least the mid-1930s with concurrent use of USTs. In addition, land within 350 feet northwest of the Site has operated as a dry cleaning facility (for at least 13 years).	Prior/current near Property use is a **REC** in connection with the Site.
Historic use of adjoining land west as a gravel pit/quarry from at least the 1940s through the 1980s.	Given an absence of information regarding operations and closure (reclamation/backfill) of the quarry/borrow pit, which may have included landfilling of materials of unknown character and possible hazardous materials/hazardous waste management, as well as an open cleanup site identified ("Redondo Oil Pit"), historic operation of adjoining land west is a **REC** in connection with the Property.

12.0 CONCLUSIONS & RECOMMENDATIONS

12.1 Conclusions & Recommendations

TGE has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of Payless Auto Sales, Repossession, and Auto Repair located at 29805 Pacific Highway South, Federal Way, King County, Washington. Any exceptions to, or deletions from, this Practice are described in Section 10.0 of this report. This assessment has revealed no evidence of RECs (including CRECs) in connection with the Property except for the following. As appropriate, TGE provides the following recommendation(s), per the Client-specified scope of work and objectives of this assessment.

Conclusion	Recommendation(s)
Past and current Site operations, as well as operations in the Site vicinity (retail fuel operation, dry cleaner, and quarry/borrow pit) over the preceding 60 years may have resulted in a past release of hazardous substances and/or petroleum products to the Site.	Complete a thorough Site inspection (areas where access was not previously allowed) in order to complete the AAI Phase I investigative process; this work would precede performance of Site soil, soil vapor, and/or groundwater testing to characterize the Site for hazardous substances and/or petroleum products.

13.0 REFERENCES

13.1 Physical Setting Sources

The following sources were used in the preparation of this document with regard to the physical setting of the Site:

- USGS 7.5 minute Topographic Map, Poverty Bay, Washington Quadrangle (2014);
- US Department of Agriculture Soil Conservation Service Soil Survey of King County, Washington;
- U.S. Department of the Interior | U.S. Geological Survey, Ask MRData, Last Modified: 27 October 2015;
- Regulatory Database - EDR, Shelton, Connecticut; and
- Flood Zone Map – Flood Insights (www.floodinsights.com).

13.2 Historical Use Information

The following sources were used in the preparation of this document with regard to historical use of the Site:

- Aerial Photographs – EDR, Shelton, Connecticut; and Google Earth;
- Historical City Directories – King County Public Library, Auburn, WA and Tacoma Public Library, Tacoma, WA;
- Historical Topographic Maps – TNRIS, a division of the TWDB and historicaerials.com; and
- Environmental Lien Search – Texas Environmental Research (TER), Rockwall, Texas.

13.3 Additional Records Sources

Additional information referenced in this report was obtained from the following sources:

- CAD records;
- King County;
- King County Sheriff's Office;
- EPA website (Radon Map);
- National Pipeline Mapping Service (NPMS);
- WA Department of Ecology;
- WA Fish and Wildlife Priority Habitat and Species Mapper; and
- US Fish and Wildlife, internet wetland database.

14.0 SIGNATURES AND QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

14.1 Statement of the Environmental Professionals

By execution below on the date indicated, "we declare that, to the best of our professional knowledge and belief, we meet the definition [of an EP] as defined in §312.l0 of 40 CPR § 312" (as summarized from the statute), and as specified within ASTM E-1537-13 guidance, Section X2.1); and "have the specific qualifications based on education, training, and experience to assess [the] Property of the nature, history, and setting of the [Site]," as well as to exercise professional judgment to develop Opinions and Conclusions regarding conditions indicative of releases or threatened releases on, at, in or to the Property, sufficient to meet the objectives and performance factors of the Practice. "We have developed and performed [the AAI] in conformance with the standards and practices set forth in 40 CFR Part 312."

Lori McKinnon
Project Manager

Robin D. Franks, P.G., CHMM, RSO
President

August 17, 2017

14.2 Resumes of Environmental Professionals

Robin D. Franks - President
Ms. Franks holds dual BS degrees in Geology and Biology; and a MS in Geology. She is a TX- Licensed PG (TX 875), a CHMM (3725) with multiple other credentials and qualifications all in good standing. Her experience spans more than twenty-five years in assessment of commercial real estate; as well as characterization, clean-up and closure within the commercial, industrial, oil and gas and healthcare industries, to name a few. Her experience encompasses compliance auditing, oil and gas real estate assessment and remediation, underground storage tank project management, asbestos consulting, lead-based paint management and industrial hygiene/indoor environmental quality consulting including mold/fungus assessment, testing and remediation. Additional expertise includes litigation support and client representation with regard to environmental matters.

Lori McKinnon ï Project Manager
Ms. McKinnon possesses the educational background and over ten years of experience in the field commercial real estate due diligence to offer a wide array of field, technical and managerial experience to conduct ESAs, compliance audits, and asbestos surveys. Ms. McKinnon is charged with performance and management of projects from initiation to execution; performance of field surveys; collection, review and reduction of historical and regulatory data; sample collection; and coordination of projects related to risk assessment/management; and senior review of project deliverables.

15.0 DEFINITIONS

Abandoned property: property that can be presumed to be deserted, or an intent to relinquish possession or control (surrender rights) given the general disrepair or lack of activity.

Aboveground Storage Tanks (ASTs): facilities that own or operate state-registered /ASTs.

Activity and Use Limitations (AULs): legal or physical restrictions (i.e. IC and/or EC) or limitations on the use of, or access to a facility: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. AULs database includes both EC/IC that specify the allowed conditions and prohibited uses for a particular facility to protect human health and the environment.

Actual knowledge: the knowledge actually possessed by an individual (a real person), rather than an entity.

Adjoining land: any real property or properties (other than street, road, or other public thoroughfare) the border of which is contiguous or partially contiguous with the Property.

Aerial photographs: photographs taken from an aerial platform with sufficient resolution to allow identification of development and activities of areas encompassing the Property.

All Appropriate Inquiries (AAI): that inquiry constituting all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined in CERCLA, 42 U.S.C §9601(35)(B), that will qualify a party to a commercial real estate transaction for one of the threshold criteria for satisfying the LLPs to CERCLA liability (42 U.S.C §9601(35)(A) & (B), §9607(b)(3), §9607(q); and §9607(r)), assuming compliance with other elements of the defense.

Approximate Minimum Search Distance (AMSD): the area for which records must be obtained and reviewed measured from the nearest Property boundary.

Bona fide prospective purchaser liability protection: a person may qualify as a bona fide prospective purchaser if, among other requirements, such person made "AAI into the previous ownership and uses of the facility in accordance with generally accepted good commercial and customary standards and practices." Knowledge of contamination resulting from AAI would not generally preclude this liability protection. A person must make AAI on or before the date of purchase. The facility must have been purchased after January 11, 2002.

Brownfields: identified as land that is being addressed/remediated for redevelopment under USEPA grant monies.

Building department records: records indicating permission of the local government to construct, alter, or demolish improvements on the Property.

Business Environmental Risk (BER): a risk which can have a material environmental or environmentally-driven impact on the business associated with the current/planned use of the Property.

Comprehensive Environmental Response and Liability Information System (CERCLIS): Comprehensive Environmental Response Compensation and Liability Act (CERCLA) investigations are conducted by the USEPA to determine if a facility has the potential for releasing hazardous substances into the environment.

CERCLIS No Further Action Planned (NFRAP): facilities that have been removed from the CERCLIS database (i.e. no contamination was found, contamination was removed quickly without NPL listing; or the contamination was not of severity to require Federal Superfund action).

Commercial real estate: any real property (except a dwelling or Property with no more than four dwelling units exclusively for residential use) including real property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes.

Commercial real estate transaction: a transfer of title to or possession of real property or receipt of a security interest in real property (excluding an individual dwelling or building containing fewer than five dwelling units) including real property purchased or leased by persons or entities in the business of building or developing dwelling units.

Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS): the list of sites compiled by EPA that EPA has investigated or is currently investigating for potential hazardous substance contamination for possible inclusion on the National Priorities List.

Construction debris: concrete, brick, asphalt, and other such building materials discarded in the construction of a building or other improvement to the Property.

Contaminated public wells: public wells used for drinking water that have been designated by a government entity as contaminated (or unsafe to drink) by hazardous substances.

Contiguous property owner liability protection: a person may qualify if, among other requirements, such person owns real property that is contiguous to, and that is or may be contaminated by hazardous substances from other real property that is not owned by that person. Furthermore, such person conducted AAI at the time of acquisition of the Property and did not know or have reason to know that the Property was or could be contaminated by a release or threatened release from the contiguous land.

Controlled Recognized Environmental Condition (CREC): a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

CORRACTS list: a list maintained by EPA of hazardous waste treatment, storage, or disposal (TSD) facilities and other RCRA-regulated facilities (due to past interim status or storage of hazardous waste beyond 90 days) that have been notified by the USEPA to undertake corrective action under RCRA.

Data failure: a failure to achieve the historical research objectives even after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful.

Data gap: a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information.

Delisted NPL: the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establish the criteria that the USEPA uses to delete facilities from the NPL; in accordance with 40 CFR 300.425. (e), facilities may be deleted from the NPL where no further response is appropriate.

De minimis condition: a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Demolition debris: concrete, brick, asphalt, and other such building materials discarded in the demolition of a building or other improvement to the Property.
Drum: a container (typically, but not necessarily, holding 55 gal (208 L) of liquid) that may be used to store

hazardous substances or petroleum products.

Dry wells: underground areas used for drainage, to control storm runoff, for the collection of spilled liquids (intentional and non-intentional) and wastewater disposal (often illegal).

Due diligence: the process of inquiring into the environmental characteristics of a parcel of commercial real estate or other conditions, usually in connection with a commercial real estate transaction.

Dwelling: structure or portion thereof used as a residence.

Engineering Controls (EC): physical (modifications/engineering) control (i.e., capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in soil/groundwater. EC is a type of AUL.

Environment: shall have the same meaning as the definition of environment in CERCLA 42 U.S.C. § 9601(8)).

Environmental compliance audit: the investigative process to determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations.

Environmental lien: a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 U.S.C. §§9607(l) & 9607(r) and similar state or local laws.

Environmental Professional (EP): a person meeting the education, training, and experience requirements as set forth in 40 CFR §312.10(b).

Environmental Site Assessment (ESA): the process by which a person or entity seeks to determine if a particular parcel of real property (including improvements) is subject to RECs.

Emergency Response Notification System (ERNS): list of reported CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity, as maintained at the National Response Center (NRC).

Facility Index System/Facility Registry System (FINDS): includes several permit, registration, and enforcement databases maintained by the EPA, as well as the applicable State agency.

Federal Register (FR): publication of the United States government published daily (except for federal holidays and weekends) containing all proposed and final regulations and some other activities of the federal government. When regulations become final, they are included in the Code of Federal Regulations (CFR), as well as published in the Federal Register.

Fill dirt: dirt, soil, sand, or other earth, that is obtained off-site, that is used to fill holes or depressions, create mounds, or otherwise artificially change the grade or elevation of real property; excludes material that is used in limited quantities for normal landscaping activities.

Fire insurance maps: maps produced for private companies that indicate uses of properties at specified dates and that encompass the Property.

Formerly Used Defense Sites (FUDS): facilities that the US Army Corp of Engineers is actively working on; or, will take necessary cleanup actions to address.

Good faith: the absence of any intention to seek an unfair advantage or to defraud another party; an honest and sincere intention to fulfill one's obligations in the conduct or transaction concerned.

Hazardous substance: a substance defined as a hazardous substance pursuant to CERCLA 42 U.S.C. §9601(14), as interpreted by EPA regulations and the courts:"

Hazardous waste: any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of RCRA, as amended, (42 U.S.C. §6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. §§6901-6992k) has been suspended by Act of Congress).

Hazardous waste/contaminated facilities: facilities on which a release has occurred, or is suspected to have occurred, of any hazardous substance, hazardous waste, or petroleum products, and that release or suspected release has been reported to a government entity.

Historical Recognized Environmental Condition (HREC): 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 use criteria established by a regulatory authority, without subjecting the Property to any required controls (for example, property use restrictions, AULs, ICs, or ECs).

Innocent Owner/Operator Program (IOP): represents an innocent owner or operator with land contaminated as a result of a release or migration of contaminants from an off-Site source where the use of the Site did not cause or contribute to the source(s) of contamination.

Institutional Controls/Engineering Controls (IC/EC): databases maintained by a federal, state or local environmental agency for purposes of tracking facilities that may contain residual contamination and AULs.

Innocent landowner defense: a person may qualify as one of three types of innocent landowners: (i) a person who "did not know and had no reason to know" that contamination existed on the Property at the time the purchaser acquired the property; (ii) a government entity which acquired the Property by escheat, or through any other involuntary transfer or acquisition, or through the exercise of eminent domain authority by purchase or condemnation; and (iii) a person who "acquired the facility by inheritance or bequest."

Institutional Controls (IC): a legal or administrative restriction (for example, "deed restrictions," restrictive covenants, easements, or zoning) on the use of, or access to, a r facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. An IC is a type of AUL.

Interviews: address questions to be asked of past and present owners, operators, and occupants of the property and questions to be asked of local government officials.

Key Site Manager (KSM): the person identified by the owner or operator of a property as having good knowledge of the uses and physical characteristics of the Property.

Landfill: a place, location, tract of land, area, or premises used for the disposal of solid wastes (garbage dump, trash dump, or similar term) as defined by state solid waste regulations.

Landowner Liability Protections (LLPs): these protections include the bona fide prospective purchaser liability protection, contiguous property owner liability protection, and innocent landowner defense from CERCLA liability.

Local government agencies: those agencies of municipal or county government having jurisdiction over the Property.

Local street directories: directories published by private (or sometimes government) sources that show ownership, occupancy, and/or use by reference to street addresses.

Leaking Underground Storage Tank (LUST)/Leaking Underground Petroleum Storage Tank (LPST): facilities that own or operate state-registered “leaking” USTs/PSTs/ASTs.

Major occupants: those tenants, subtenants, or other persons or entities each of which uses at least 40% of the leasable area of the property or any anchor tenant when the Property is a shopping center.

Municipal Settings Designations (MSD): a state designation given to a Property within a municipality 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.

Material threat: a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the EP, is threatening and might result in impact to public health or the environment.

Migrate/migration: refers to the movement of hazardous substances or petroleum products in any form, including, solid and liquid at the surface or subsurface, and vapor in the subsurface.

Municipal Waste Registration (MWR): inventory of solid waste disposal facilities and landfills.

National Contingency Plan (NCP): the National Oil and Hazardous Substances Pollution Contingency Plan, found at 40 C.ER. Part 300, is the EPA's blueprint on how hazardous substances are to be cleaned up pursuant to CERCLA.

National Priorities Listing (NPL): facilities that have been assessed by the USEPA and determined to represent a possible threat to public health or the environment.

Obvious: that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer while visually or physically observing the Property.

Occupants: those tenants, subtenants, or other persons or entities using the Property or portion thereof.

Operator: the person responsible for the overall operation of a facility.

Other historical sources: any source or sources that are credible to a reasonable person and that identify past uses of the Property.

Owner: generally the fee owner of record of the property.

Petroleum exclusion: the exclusion from CERCLA liability: "The term (hazardous substance) does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas)."

Petroleum products: crude oil or any fraction (refers to certain distillates of crude oil, including gasoline, kerosene, diesel oil, jet fuels, and fuel oil, pursuant to Standard Definitions of Petroleum Statistics) thereof which is not otherwise specifically listed or designated as a hazardous substance under Subparagraphs (A) through (F) of 42 U.S.C. § 9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

Petroleum Storage Tanks (PSTs): facilities that own or operate state-registered PSTs (a.k.a. USTs).

Physical setting sources: sources that provide information about the geologic, hydrogeologic, hydrologic, or topographic characteristics of the Property.

Pits, ponds, or lagoons: man-made or natural depressions in a ground surface that are likely to hold liquids or sludge containing hazardous substances or petroleum products.

Practically reviewable: information that is practically reviewable means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the Property without the need for extraordinary analysis of irrelevant data.

Property: the real property that is the subject of the ESA. Real property includes buildings and other fixtures and improvements located on the Property and affixed to the land.

Property tax files: the files kept by the local jurisdiction where the Property is located and may include records of past ownership, appraisals, maps, sketches, photos, or other information that is reasonably ascertainable and pertaining to the property.

Publicly available: access to the information by anyone upon request.

Resource Conservation and Recovery Act (RCRA): facilities are designated as a RCRA Notifier if activity includes the generation, treatment, and/or TSD of hazardous waste. The Corrective Action Report (CORRACTS) identifies hazardous waste handlers with RCRA corrective action activities. RCRA non-CORRACTS TSD facilities treat store and/or dispose of regulated waste that has not been subject to corrective action.

RCRA Conditionally Exempt Small Quantity Generators (CESQGs): facilities that generate less than 100 kg of hazardous waste per month.

RCRA Large Quantity Generators (LQGs): facilities that generate over 1,000 kilograms (kg) of hazardous waste per month.

RCRA Non-Generators (NGs): facilities that historically generated hazardous wastes, yet terminated (the process or operations).

RCRA Small Quantity Generators (SQGs): facilities that generate less than 1,000 kg but more than 100 kg of hazardous waste per month.

Reasonably ascertainable: information that is (1) publicly available, (2) obtainable from its source within reasonable time and cost constraints, and (3) practically reviewable.

Recognized Environmental Conditions (RECs): the presence or likely presence of any hazardous substances or petroleum products in, on, or to a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

Records of emergency release notifications (EPCRA): requires facilities to notify their local emergency planning committee and state emergency response commission of any release beyond the facility's boundary of any reportable quantity of any extremely hazardous substance.

Release: a release of any hazardous substance or petroleum product shall have the same meaning as the definition of "release" in CERCLA 42 U.S.C. § 9601(22)).

Report: the written report prepared by the EP and constituting part of a "Phase I ESA."

Safety Data Sheet (SDS): written or printed material concerning a hazardous substance which is prepared by chemical manufacturers, importers, and employers for hazardous chemicals pursuant to OSHA's Hazard Communication Standard, 29 C.ER. §1910.1200.

Site visit: the visit to the Property during which observations are made.

Solid waste disposal facility (landfill): a place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations.

Solvent: a chemical compound that is capable of dissolving another substance and may itself be a hazardous substance.

Standard physical setting source: a current USGS 7.5 Minute Topographic Map (if any) showing the area on which the Property is located.

State Hazardous Waste “Sites” (SHWS): State equivalent of NPL/CERCLIS.

Sump: a pit, cistern, cesspool, or similar receptacle where liquids drain, collect, or are stored.

Toxic Release Inventory System (TRIS): facilities that release toxic chemicals to the air, water, and land in reportable quantities under SARA Title III Section 313.

Tier II: a listing of facilities that store or manufacture hazardous materials and submit a chemical inventory report.

Underground injection: the emplacement or discharge of fluids into the subsurface by means of a well, improved sinkhole, sewage drain hole, subsurface fluid distribution system or other system, or groundwater point source.

Underground Storage Tank (UST): any tank, including 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.

User: the party seeking to use Practice E1527 to complete an ESA of the Property.

Visually and/or physically observed: observations made by vision while walking through the Property and the structures located on it and observations made by the sense of smell, particularly observations of noxious or foul odors.

Voluntary Cleanup Program (VCP): the VCP was established to provide administrative, technical and legal incentives to encourage the cleanup of contaminated commercial real estate.

Wastewater: water that (1) is or has been used in an industrial or manufacturing process, (2) conveys or has conveyed sewage, or (3) is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant.

Zoning/land use records: indicates the uses permitted by the local government in particular zones within its jurisdiction.

FIGURES

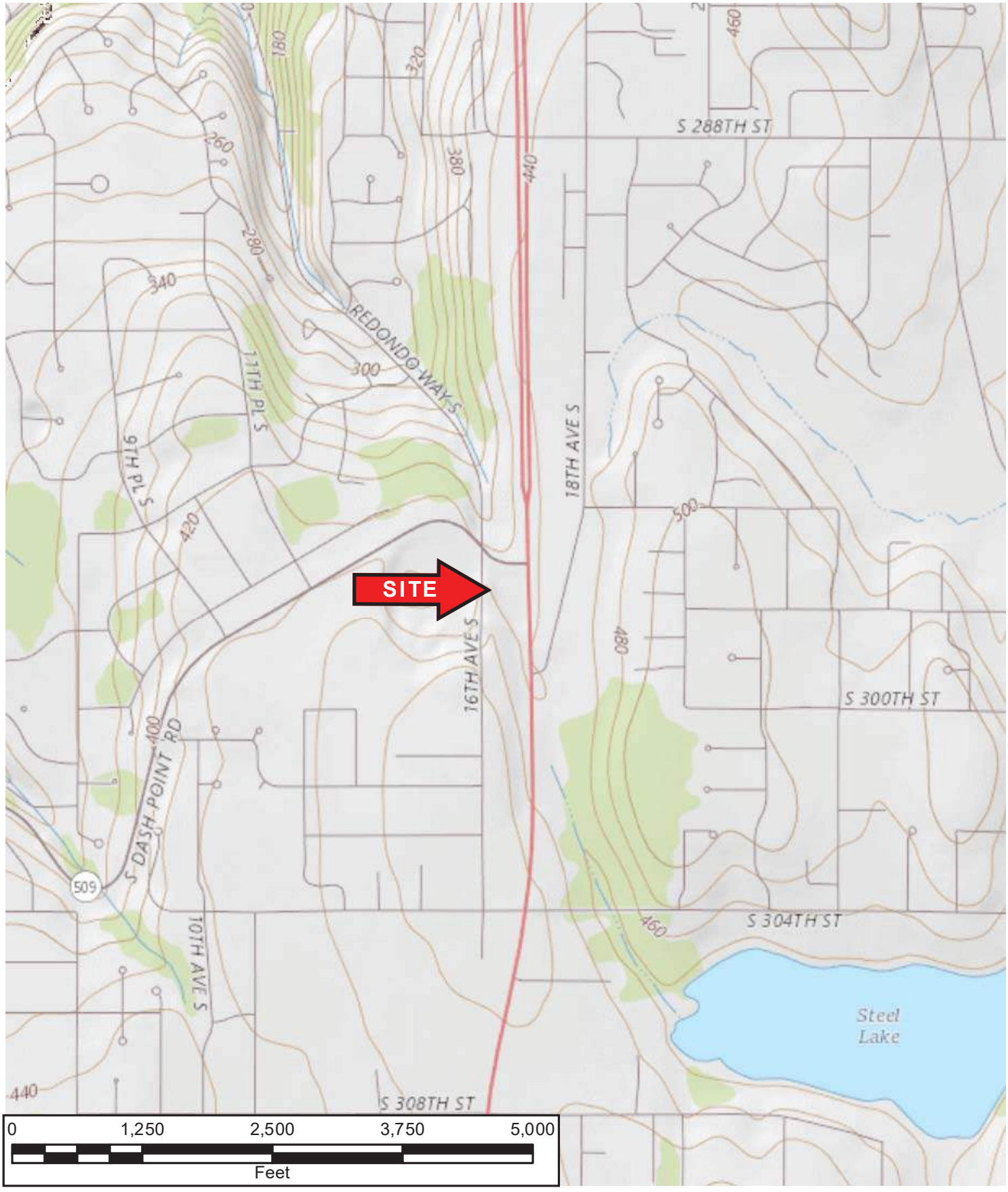
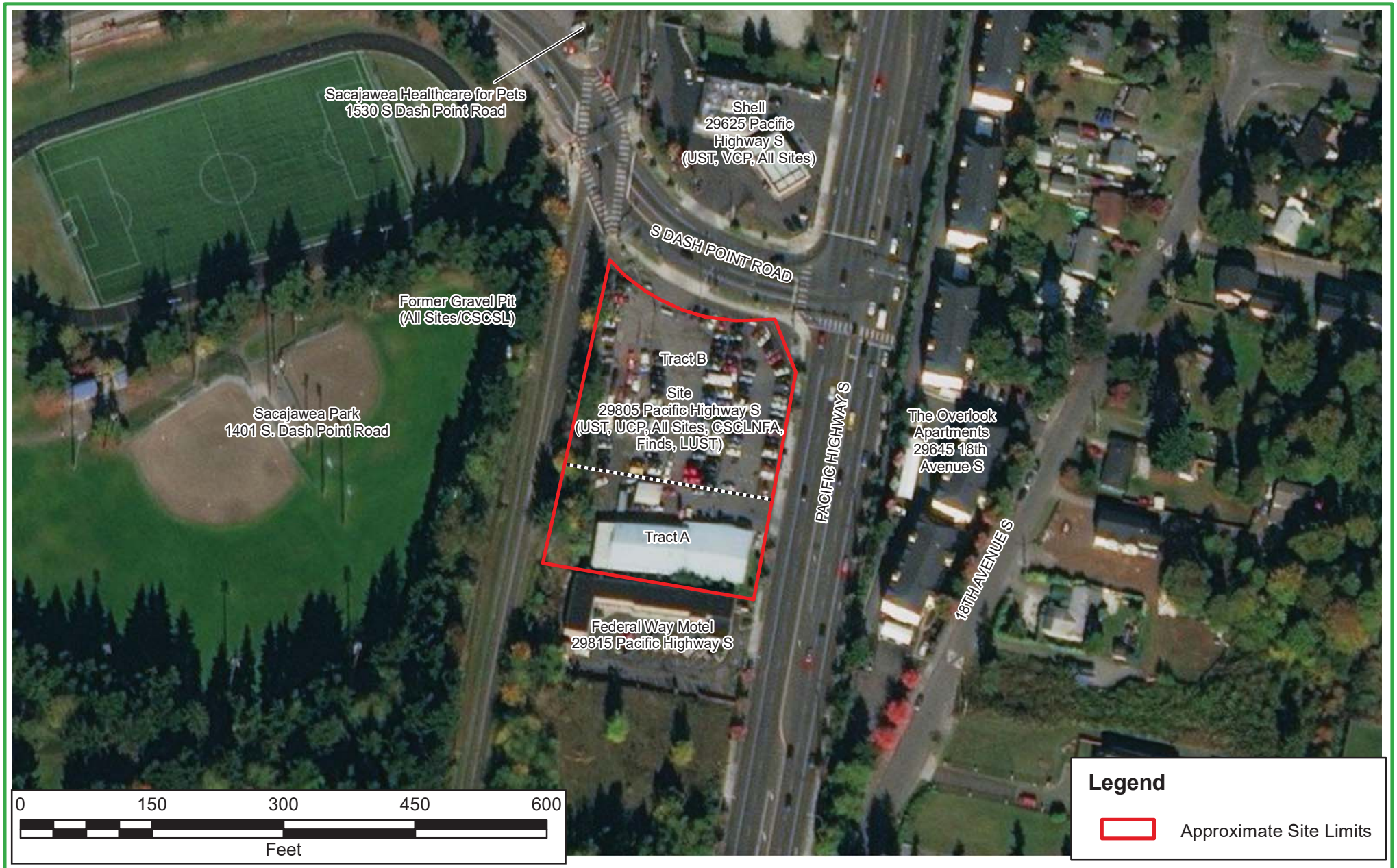


Figure 1
Site Location Map
TGE Project No.: R13411.01

TGE RESOURCES, INC.
8048 Northcourt Road
Houston, Texas 77040

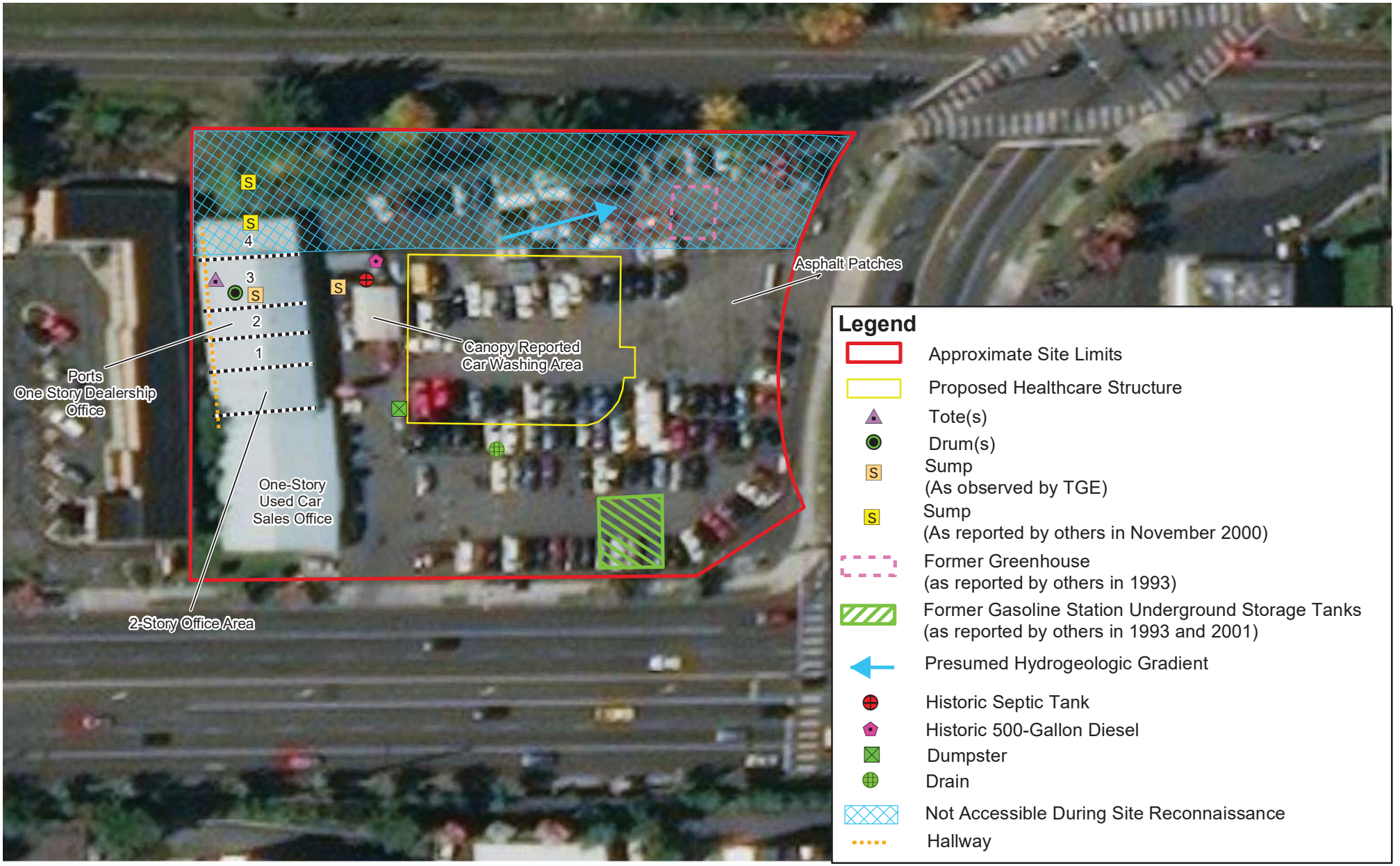
Topographic Map
USGS 7.5 Minute Series Topographic Map
Poverty Bay, Washington Quadrangle
2014



TGE Project No.: R13411.01

TGE RESOURCES, INC.
8048 Northcourt Road
Houston, Texas 77040

Figure 2
Site Vicinity Map



TGE Project No.: R13411.01

TGE RESOURCES, INC.
8048 Northcourt Road
Houston, Texas 77040

Figure 3
Site Details Map

Parking Requirements:

Parking Required:
Medical Office: 1 per 300 s.f. = **32 spaces**
Accessible Spaces Required: **2 spaces**

Parking Provided - Scheme 2		
Regular Spaces	Accessible Spaces	Total Spaces
58	4	62

TGE Project No.: R13411.01
Figure 4

Emerus - Star Lake

Proposed Site Plan
Scheme 2

1" = 30'-0"
0 15' 30' 60'

Not for regulatory approval, bidding, or construction
By: Greg Johnson, AIA
WA Reg. No.: 11803
Date: 28 February 2017

28 February 2017

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Philo Wilke Partnership

APPENDIX A

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New Search | Property Tax Bill | Map This Property | Glossary of Terms | Area Report | Print Property Detail

PARCEL DATA

Parcel	042104-9157
Name	NIKLEXI LLC
Site Address	29805 PACIFIC HWY S 98003
Geo Area	55-10
Spec Area	
Property Name	40 RENTALS

Jurisdiction	FEDERAL WAY
Levy Code	1205
Property Type	C
Plat Block / Building Number	
Plat Lot / Unit Number	
Quarter-Section-Township-Range	SW-4 -21-4

Legal Description

N 100 FT AS MEAS ON W LN OF BEG AT PT 30 FT E & 329 FT N OF SW COR OF NW 1/4 OF SW 1/4 TH E 241.13 FT M/L TO W LN OF PAC HWY TH N ALG SD W LN OF HWY 329.57 FT TH W 234.86 FT TO PT 30 FT E OF W LN OF NW 1/4 OF SW 1/4 TH S 329.91 FT TO POB - LESS POR FOR RD AS PER SCC 06-2-01388-3KNT
PLat Block:
Plat Lot:

LAND DATA

Highest & Best Use As If Vacant	COMMERCIAL SERVICE
Highest & Best Use As Improved	PRESENT USE
Present Use	Service Building
Land SqFt	23,486
Acres	0.54

Percentage Unusable	
Unbuildable	NO
Restrictive Size Shape	NO
Zoning	BC
Water	WATER DISTRICT
Sewer/Septic	PUBLIC
Road Access	PUBLIC
Parking	ADEQUATE
Street Surface	PAVED

Views

Rainier	
Territorial	
Olympics	
Cascades	
Seattle Skyline	
Puget Sound	
Lake Washington	
Lake Sammamish	
Lake/River/Creek	
Other View	

Waterfront

Waterfront Location	
Waterfront Footage	0
Lot Depth Factor	0
Waterfront Bank	
Tide/Shore	
Waterfront Restricted Access	
Waterfront Access Rights	NO
Poor Quality	NO
Proximity Influence	NO

Designations

Historic Site	
Current Use	(none)
Nbr Bldg Sites	
Adjacent to Golf Fairway	NO
Adjacent to Greenbelt	NO
Other Designation	NO
Deed Restrictions	NO
Development Rights Purchased	NO
Easements	NO
Native Growth Protection Easement	NO
DNR Lease	NO

Nuisances

Topography	
Traffic Noise	
Airport Noise	
Power Lines	NO
Other Nuisances	NO

Problems

Water Problems	NO
Transportation Concurrency	NO
Other Problems	NO

Environmental

Environmental	NO

BUILDING

Building Number	1
Building Description	RENTAL MARTS
Number Of Buildings Aggregated	1
Predominant Use	RETAIL STORE (353)
Shape	Rect or Slight Irreg
Construction Class	PREFAB STEEL
Building Quality	LOW/AVERAGE
Stories	1

ADVERTIS

Building Gross Sq Ft	6,350
Building Net Sq Ft	6,350
Year Built	1970
Eff. Year	1975
Percentage Complete	100
Heating System	SPACE HEATERS
Sprinklers	No
Elevators	

Picture of Building 1

Section(s) Of Building Number: 1

Section Number	Section Use	Description	Stories	Height	Floor Number	Gross Sq Ft	Net Sq Ft
1	RETAIL STORE (353)		1	9		3,350	3,350
2	GARAGE, STORAGE (326)		1	14		2,250	2,250

Section Feature(s) Of Section Number: 2

Feature Type	Gross Sq Ft	Net Sq Ft
MEZZANINES-OFFICE (761)	750	750

TAX ROLL HISTORY

Account	Valued Year	Tax Year	Omit Year	Levy Code	Appraised Land Value ($)	Appraised Imps Value ($)	Appraised Total Value ($)	New Dollars ($)	Taxable Land Value ($)	Taxable Imps Value ($)	Taxable Total Value ($)	Tax Value Reason
042104915709	2017	2018		1205	469,700	68,700	538,400	0	469,700	68,700	538,400	
042104915709	2016	2017		1205	469,700	56,700	526,400	0	469,700	56,700	526,400	
042104915709	2015	2016		1205	469,700	34,800	504,500	0	469,700	34,800	504,500	
042104915709	2014	2015		1205	469,700	34,800	504,500	0	469,700	34,800	504,500	
042104915709	2013	2014		1205	422,700	94,400	517,100	0	422,700	94,400	517,100	
042104915709	2012	2013		1205	469,700	76,900	546,600	0	469,700	76,900	546,600	
042104915709	2011	2012		1205	469,700	79,700	549,400	0	469,700	79,700	549,400	
042104915709	2010	2011		1205	469,700	77,100	546,800	0	469,700	77,100	546,800	
042104915709	2009	2010		1205	469,700	1,000	470,700	0	469,700	1,000	470,700	
042104915709	2008	2009		1205	469,700	65,400	535,100	0	469,700	65,400	535,100	
042104915709	2007	2008		1205	375,700	66,600	442,300	0	375,700	66,600	442,300	
042104915709	2006	2007		1205	258,300	115,000	373,300	0	258,300	115,000	373,300	
042104915709	2005	2006		1205	164,600	118,600	283,200	0	164,600	118,600	283,200	
042104915709	2004	2005		1205	164,600	118,100	282,700	0	164,600	118,100	282,700	
042104915709	2003	2004		1205	164,600	135,700	300,300	0	164,600	135,700	300,300	
042104915709	2002	2003		1205	164,600	137,300	301,900	0	164,600	137,300	301,900	
042104915709	2001	2002		1205	164,600	106,700	271,300	0	164,600	106,700	271,300	
042104915709	2000	2001		1205	164,600	128,000	292,600	0	164,600	128,000	292,600	
042104915709	1999	2000		1205	164,600	128,000	292,600	0	164,600	128,000	292,600	
042104915709	1998	1999		1205	164,600	128,000	292,600	0	164,600	128,000	292,600	
042104915709	1997	1998		1205	0	0	0	0	164,600	128,000	292,600	
042104915709	1996	1997		1205	0	0	0	0	164,600	128,000	292,600	
042104915709	1994	1995		1205	0	0	0	0	164,600	128,000	292,600	
042104915709	1992	1993		1205	0	0	0	0	164,600	128,000	292,600	
042104915709	1990	1991		1205	0	0	0	0	129,300	97,500	226,800	
042104915709	1988	1989		3490	0	0	0	0	129,300	92,200	221,500	
042104915709	1986	1987		3490	0	0	0	0	129,300	92,200	221,500	
042104915709	1984	1985		3490	0	0	0	0	106,600	98,800	205,400	
042104915709	1982	1983		3490	0	0	0	0	115,300	106,900	222,200	

SALES HISTORY

Excise Number	Recording Number	Document Date	Sale Price	Seller Name	Buyer Name	Instrument	Sale Reason

2324990	20071217001008	11/29/2007	$1,550,000.00	LARSON RICHARD P+KAY A	NIKLEXI LLC	Statutory Warranty Deed	None
2128008	20050602001356	5/31/2005	$1,220,000.00	LEE SONG HWEE+KIL JA LEE	LARSON RICHARD P	Warranty Deed	None
1932077	20030103001940	12/30/2002	$742,500.00	AMERICAN DRUG STORES INC	LEE SONG HWEE+KIL JA	Special Warranty Deed	None
1839435	20010831001589	8/6/2001	$1,900,000.00	UNION BANK OF CALIFORNIA N A	AMERICAN DRUG STORES INC	Fiduciary Deed	None
1735298	20000208000416	1/28/2000	$0.00	EVANS RUTH M	UNION BANK OF CALIFORNIA	Quit Claim Deed	Trust

REVIEW HISTORY

PERMIT HISTORY

HOME IMPROVEMENT EXEMPTION

New Search | Property Tax Bill | Map This Property | Glossary of Terms | Area Report | Print Property Detail

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New Search | Property Tax Bill | Map This Property | Glossary of Terms | Area Report | Property Detail

PARCEL

Parcel Number	042104-9033
Name	NIKLEXI LLC
Site Address	
Legal	POR NW 1/4 OF NW 1/4 OF SW 1/4 LY WLY OF PACIFIC HWY SOUTH & SLY OF SLY MGN OF DES MOINES - PIERCE CO ROAD NO 988 LESS WLY 30 FT FOR ROAD & LESS POR FOR RD AS PER SCC 06-2-01388-3KNT

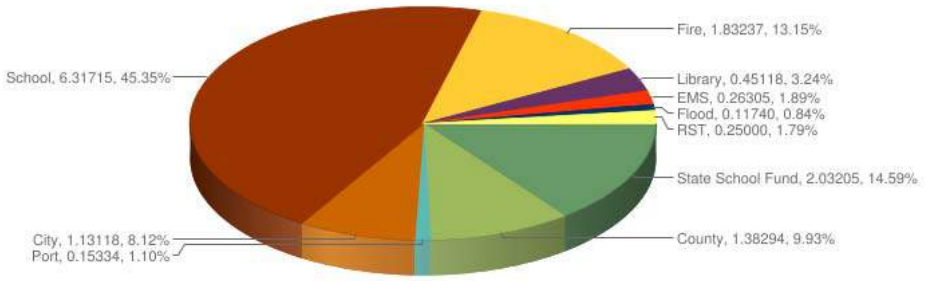
BUILDING 1

Year Built	
Building Net Square Footage	
Construction Class	
Building Quality	
Lot Size	51401
Present Use	Vacant(Commercial)
Views	No
Waterfront	

Current Picture

TOTAL LEVY RATE DISTRIBUTION

Tax Year: 2017 **Levy Code:** 1205 **Total Levy Rate:** $13.93066 **Total Senior Rate:** $7.19505



52.09% Voter Approved

Click here to see levy distribution comparison by year.

TAX ROLL HISTORY

Valued Year	Tax Year	Appraised Land Value ($)	Appraised Imps Value ($)	Appraised Total ($)	Taxable Land Value ($)	Taxable Imps Value ($)	Taxable Total ($)
2016	2017	1,028,000	0	1,028,000	1,028,000	0	1,028,000
2015	2016	1,028,000	0	1,028,000	1,028,000	0	1,028,000
2014	2015	1,028,000	0	1,028,000	1,028,000	0	1,028,000
2013	2014	925,200	0	925,200	925,200	0	925,200
2012	2013	1,028,000	0	1,028,000	1,028,000	0	1,028,000
2011	2012	1,028,000	0	1,028,000	1,028,000	0	1,028,000
2010	2011	1,028,000	0	1,028,000	1,028,000	0	1,028,000
2009	2010	1,028,000	0	1,028,000	1,028,000	0	1,028,000
2008	2009	1,028,000	0	1,028,000	1,028,000	0	1,028,000
2007	2008	822,400	0	822,400	822,400	0	822,400
2006	2007	565,400	0	565,400	565,400	0	565,400
2005	2006	574,900	0	574,900	574,900	0	574,900
2004	2005	574,900	0	574,900	574,900	0	574,900
2003	2004	574,900	0	574,900	574,900	0	574,900
2002	2003	470,000	0	470,000	470,000	0	470,000
2001	2002	470,000	0	470,000	470,000	0	470,000
2000	2001	470,000	0	470,000	470,000	0	470,000
1999	2000	470,000	0	470,000	470,000	0	470,000

ADVERTISEMENT

1998	1999	470,000	0	470,000	470,000	0	470,000
1997	1998	0	0	0	470,000	0	470,000
1996	1997	0	0	0	365,800	0	365,800
1994	1995	0	0	0	365,800	0	365,800
1992	1993	0	0	0	365,800	0	365,800
1990	1991	0	0	0	313,600	0	313,600
1988	1989	0	0	0	313,600	0	313,600
1986	1987	0	0	0	313,600	0	313,600
1984	1985	0	0	0	263,400	0	263,400
1982	1983	0	0	0	284,800	0	284,800

ADVERTISEMENT

ADVERTISEMENT

PARCEL

Parcel Number	042104-9157
Name	NIKLEXI LLC
Site Address	29805 PACIFIC HWY S 98003
Legal	N 100 FT AS MEAS ON W LN OF BEG AT PT 30 FT E & 329 FT N OF SW COR OF NW 1/4 OF SW 1/4 TH E 241.13 FT M/L TO W LN OF PAC HWY TH N ALG SD W LN OF HWY 329.57 FT TH W 234.86 FT TO PT 30 FT E OF W LN OF NW 1/4 OF SW 1/4 TH S 329.91 FT TO POB - LESS POR FOR RD AS PER SCC 06-2-01388-3KNT

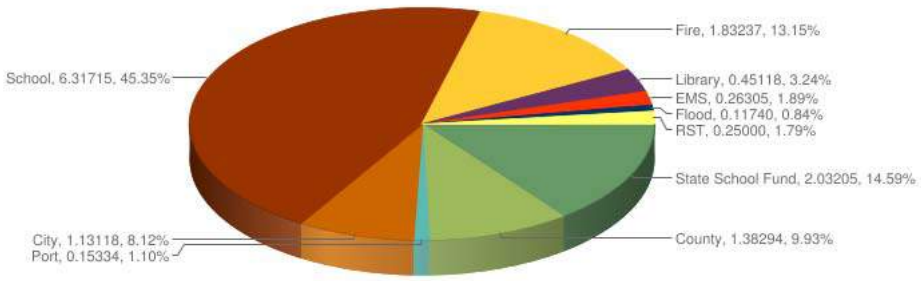
BUILDING 1

Year Built	1970
Building Net Square Footage	6350
Construction Class	PREFAB STEEL
Building Quality	LOW/AVERAGE
Lot Size	23486
Present Use	Service Building
Views	No
Waterfront	

ADVERTISEMENT

TOTAL LEVY RATE DISTRIBUTION

Tax Year: 2017 **Levy Code:** 1205 **Total Levy Rate:** $13.93066 **Total Senior Rate:** $7.19505



52.09% Voter Approved

Click here to see levy distribution comparison by year.

TAX ROLL HISTORY

Valued Year	Tax Year	Appraised Land Value ($)	Appraised Imps Value ($)	Appraised Total ($)	Taxable Land Value ($)	Taxable Imps Value ($)	Taxable Total ($)
2016	2017	469,700	56,700	526,400	469,700	56,700	526,400
2015	2016	469,700	34,800	504,500	469,700	34,800	504,500
2014	2015	469,700	34,800	504,500	469,700	34,800	504,500
2013	2014	422,700	94,400	517,100	422,700	94,400	517,100
2012	2013	469,700	76,900	546,600	469,700	76,900	546,600
2011	2012	469,700	79,700	549,400	469,700	79,700	549,400
2010	2011	469,700	77,100	546,800	469,700	77,100	546,800
2009	2010	469,700	1,000	470,700	469,700	1,000	470,700
2008	2009	469,700	65,400	535,100	469,700	65,400	535,100
2007	2008	375,700	66,600	442,300	375,700	66,600	442,300
2006	2007	258,300	115,000	373,300	258,300	115,000	373,300
2005	2006	164,600	118,600	283,200	164,600	118,600	283,200

2004	2005	164,600	118,100	282,700	164,600	118,100	282,700
2003	2004	164,600	135,700	300,300	164,600	135,700	300,300
2002	2003	164,600	137,300	301,900	164,600	137,300	301,900
2001	2002	164,600	106,700	271,300	164,600	106,700	271,300
2000	2001	164,600	128,000	292,600	164,600	128,000	292,600
1999	2000	164,600	128,000	292,600	164,600	128,000	292,600
1998	1999	164,600	128,000	292,600	164,600	128,000	292,600
1997	1998	0	0	0	164,600	128,000	292,600
1996	1997	0	0	0	164,600	128,000	292,600
1994	1995	0	0	0	164,600	128,000	292,600
1992	1993	0	0	0	164,600	128,000	292,600
1990	1991	0	0	0	129,300	97,500	226,800
1988	1989	0	0	0	129,300	92,200	221,500
1986	1987	0	0	0	129,300	92,200	221,500
1984	1985	0	0	0	106,600	98,800	205,400
1982	1983	0	0	0	115,300	106,900	222,200

ADVERTISEMENT

King County Districts and Development Conditions for parcel 0421049157

print

Parcel number	0421049157	Drainage Basin	Lower Puget Sound - DM/Fed Way
Address	29805 PACIFIC HWY S	Watershed	Central Puget Sound
Jurisdiction	Federal Way	WRIA	Duwamish-Green (9)
Zipcode	98003	PLSS	SW - 4 - 21 - 4
Kroll Map page	703	Latitude	47.33505
Thomas Guide page	745	Longitude	-122.31231

King County Electoral districts

Voting district	FED 30-3018	Fire district	South King Fire and Rescue
King County Council district	District 7, Pete von Reichbauer (206) 477-1007	Water district	does not apply
		Sewer district	does not apply
Congressional district	9	Water & Sewer district	Lakehaven Water and Sewer District
Legislative district	30	Parks & Recreation district	does not apply
School district	Federal Way #210	Hospital district	does not apply
Seattle school board district	does not apply (not in Seattle)	Rural library district	Rural King County Library System
District Court electoral district	Southwest		

King County planning and critical areas designations*

King County zoning	NA, check with jurisdiction	Urban Unincorporated Status	does not apply
		Rural town?	No
Development conditions	None	Water service planning area	Lakehaven Utility District
Comprehensive Plan	does not apply	Transportation Concurrency Management	does not apply
Urban Growth Area	Urban	Forest Production district?	No
Community Service Area	does not apply	Agricultural Production district?	No
Community Planning Area	Federal Way	Snoqualmie Valley watershed improvement district?	No
Coal mine hazards?	Check with jurisdiction	Critical aquifer recharge area?	None mapped
Erosion hazards?	Yes	Wetlands at this parcel?	Check with jurisdiction
Landslide hazards?	Check with	Within the Tacoma Smelter	Under 20 ppm

Related resources

King County Assessor: eReal Property Report
King County Assessor: Quarter Section Map (PDF format requires Acrobat)
King County DPER: Permit Applications Report (for unincorporated areas only)
King County Treasury Operations: Property Tax Information for this property
King County Recorders Office: Scanned images of plats.
King County Recorders Office: Scanned images of surveys and other map documents.
Seattle/King County Public Health: Septic system as-built documents.
Open iMap to this property
Open Parcel Viewer to this property

Search

Address or parcel number: Search Reset

search by condo name

example address: 201 S Jackson St | example parcel number: 0942000860

King County Districts and Development Conditions for parcel 0421049033

print

Parcel number	0421049033	Drainage Basin	Lower Puget Sound - DM/Fed Way
Address	Not Available	Watershed	Central Puget Sound
Jurisdiction	Federal Way	WRIA	Duwamish-Green (9)
		PLSS	SW - 4 - 21 - 4
Zipcode	98003	Latitude	47.33566
Kroll Map page	703	Longitude	-122.31274
Thomas Guide page	745		

King County Electoral districts

Voting district	FED 30-3018	Fire district	South King Fire and Rescue
King County Council district	District 7, Pete von Reichbauer (206) 477-1007	Water district	does not apply
		Sewer district	does not apply
Congressional district	9	Water & Sewer district	Lakehaven Water and Sewer District
Legislative district	30	Parks & Recreation district	does not apply
School district	Federal Way #210	Hospital district	does not apply
Seattle school board district	does not apply (not in Seattle)	Rural library district	Rural King County Library System
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King County zoning	NA, check with jurisdiction	Urban Unincorporated Status	does not apply
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Comprehensive Plan	does not apply	Transportation Concurrency Management	does not apply
Urban Growth Area	Urban	Forest Production district?	No
Community Service Area	does not apply	Agricultural Production district?	No
Community Planning Area	Federal Way	Snoqualmie Valley watershed improvement district?	No
Coal mine hazards?	Check with jurisdiction	Critical aquifer recharge area?	None mapped
Erosion hazards?	Yes	Wetlands at this parcel?	Check with jurisdiction
Landslide hazards?	Check with	Within the Tacoma Smelter	Under 20 ppm

Related resources

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Open iMap to this property

Open Parcel Viewer to this property

Search

Address or parcel number: Search Reset

search by condo name

example address: 201 S Jackson St | example parcel number: 0942000860

King County

The information included on this map has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a survey product. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of King County.

Date: 7/13/2017

N

King County
GIS Center

DATE : 7-14-2017

MATTHEW LOPEZ

TGE RESOURCES INCORPORATED

8048 NORTHCOURT ROAD

HOUSTON, TX 77040

R13411.01

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126 SCEPTRE DRIVE
ROCKWALL, TEXAS 75032

TEL: (972) 772-4283
FAX: (972) 772-4283

ENVIRONMENTAL LIEN SEARCH

THE ATTACHED REPORT IS BEING PROVIDED TO APPLICANT SOLELY FOR THE PURPOSE OF FACILITATING LANDOWNER OR PURCHASE DEFENSES WHICH MAY BE AVAILABLE UNDER THE LIABILITY ACT OF 1980. AS AMENDED IT IS PROVIDED FOR THE SOLE USE AND BENEFIT OF APPLICANT AND MAY NOT BE USED OR RELIED UPON BY ANY OTHER PARTY FOR ANY REASON.

NOTE: THIS SEARCH REPRESENTS SURFACE CONVEYANCES ONLY. TOTAL LIABILITY OF TEXAS ENVIRONMENTAL RESEARCH COMPANY IS LIMITED TO THE AMOUNT PAID FOR THIS REPORT.

THIS REPORT WAS PREPARED FOR THE PURPOSE OF ASSISTING IN AN ENVIRONMENTAL HAZARD INSPECTION OF THE FOLLOWING DESCRIBED PROPERTY.

LEGAL DESCRIPTION

Parcel: 042104-9033, 29805 Pacific Highway South, King County, Federal Way, Washington.

CURRENT OWNER

Niklexi L.L.C.

DATE	GRANTOR	GRANTEE	DOCUMENT TYPE
11-29-07	Richard P. Larson	Niklexi L.L.C.	Warranty Deed File No. 2324990

Prepared by Texas Environmental Research on 7-14-2017.

ENVIRONMENTAL LIEN RESEARCH

AFTER COMPLETING AN ENVIRONMENTAL LIEN SEARCH A FINDING THAT NO ENVIRONMENTAL LIENS HAVE BEEN FILED OF PUBLIC RECORD AND THAT IT HAS BEEN DETERMINED THAT THE PROPERTY RESEARCHED IN THIS REPORT COMPLIES WITH ASTM E 1527-13-SEC. 8.3.4.4 AND SECTION 6.2

THIS REPORT MEETS OR EXCEEDS A.S.T.M. E 1527-13.

APPENDIX B

Payless Auto Sales
29805 Pacific Highway South
Federal Way, WA 98003

Inquiry Number: 4994481.30s
July 17, 2017

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	166
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-14
Physical Setting Source Map Findings	A-16
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

29805 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WA 98003

COORDINATES

Latitude (North):	47.3352840 - 47° 20' 7.02''
Longitude (West):	122.3127100 - 122° 18' 45.75''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	551925.4
UTM Y (Meters):	5242434.5
Elevation:	426 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	6005095 POVERTY BAY, WA
Version Date:	2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150807
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
29805 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WA 98003

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	RENTAL MARTS	29805 PACIFIC HIGHWA	UST, ICR		TP
A2	RENTAL MARTS	29805 PACIFIC HWY S	VCP, ALLSITES, CSCSL NFA		TP
A3	RENTAL MARTS	29805 PACIFIC HWY S	FINDS		TP
A4	RENTAL MARTS	29805 PACIFIC HIGHWA	RGA LUST		TP
A5	RENTAL MARTS	29805 PACIFIC	RGA LUST		TP
B6	REDONDO OIL PIT KING	16TH AVE S & SW DASH	CSCSL, ALLSITES	Higher	51, 0.010, NW
A7	JUMP S UNION	29625 S PACIFIC HWY	EDR Hist Auto	Higher	64, 0.012, NE
A8	WESTFAIR EXXON	1650 SW DASH POINT R	EDR Hist Auto	Lower	83, 0.016, North
B9	FW SHELL & DELI MART	29625 PACIFIC HWY S	VCP, ALLSITES, CSCSL NFA, ICIS, FINDS, ECHO	Lower	220, 0.042, North
B10	UNOCAL #6227	29625 PACIFIC HWY S.	ICR	Lower	220, 0.042, North
B11	SHELL MINI MART	29625 PACIFIC HWY S	UST	Lower	220, 0.042, North
B12	JUMP S UNION	29625 S PACIFIC HWY	EDR Hist Auto	Lower	220, 0.042, North
C13	SACAJAWEA HEALTHCARE	1530 S DASH POINT RD	ALLSITES	Lower	324, 0.061, NNW
14	SID & JANS AUTO REPA	29810 18TH S	EDR Hist Auto	Higher	348, 0.066, ESE
C15	MARINE HILL CLEANERS	1520 S DASH POINT RD	EDR Hist Cleaner	Lower	413, 0.078, NNW
16	LAMBS GATE PRESBYTER	29850 18TH AVE S	ALLSITES	Higher	506, 0.096, SE
D17		29501 PACIFIC HWY S	ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Higher	609, 0.115, North
D18	MR STEAM MRS STEAM	29500 PACIFIC HWY S	EDR Hist Cleaner	Higher	638, 0.121, NNE
19	AL HOLZ AUTO SERVICE	30402 PACIFIC HWY SO	UST, ALLSITES	Higher	1941, 0.368, South
20	13TH AVE S DRUG LAB	30320 13TH AVE S	ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Higher	1976, 0.374, SW
E21	SUDS N CLEAN	30405 PACIFIC HWY S	UST, ALLSITES	Higher	1984, 0.376, South
E22	KING CNTY PARKS FEDE	30421 16TH AVE S	ALLSITES, SPILLS	Higher	2033, 0.385, South
23	SOUND VIEW AUTOBODY	28872 PACIFIC HWY S	ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Higher	2215, 0.420, North
F24	SUSAN HARRANG	30509 PACIFIC HWY S	CSCSL, LUST, UST, ALLSITES	Higher	2291, 0.434, South
F25	OIL EXPRESS	30509 PACIFIC HWY S.	ICR	Higher	2291, 0.434, South
F26	FEDERAL WAY HIGH SCH	30611 16TH AVE S	CSCSL, LUST, ALLSITES, SPILLS, NPDES	Higher	2322, 0.440, South
27	TEXACO 63-232-1486	28806 PACIFIC HWY S	CSCSL, LUST, UST, ALLSITES, SPILLS, MANIFEST	Higher	2690, 0.509, North
28	BREWER PROPERTY	29260 MILITARY RD S	CSCSL, ALLSITES	Lower	3379, 0.640, ENE
29	CHEVRON USA INC SS 9	28806 MILITARY RD S	CSCSL, LUST, UST, ICR, ALLSITES, RCRA NonGen /...	Higher	3780, 0.716, NE
30	NIEDERLE PROPERTY	455 S 305TH ST	HSL, CSCSL, ALLSITES, FINDS	Lower	4091, 0.775, SW
31	CONOCOPHILLIPS COMPA	28718 MILITARY RD	CSCSL, LUST, UST, VCP, ALLSITES	Higher	4143, 0.785, NE
32	COOK INVESTMENT BLDG	1400 S 312TH ST	CSCSL, ALLSITES, DRYCLEANERS, Inactive Drycleaners	Higher	4467, 0.846, South
33		31204 PACIFIC HWY S	RCRA-SQG, CSCSL, LUST, UST, VCP, ALLSITES, FINDS,...	Higher	4589, 0.869, South

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
RENTAL MARTS 29805 PACIFIC HIGHWA FEDERAL WAY, WA 98003	UST Site Id: 6523 Facility ID: 7222592 ICR	N/A
RENTAL MARTS 29805 PACIFIC HWY S FEDERAL WAY, WA 98003	VCP Facility ID: 7222592 Cleanup Siteid: 5427 ALLSITES Facility Id: 7222592 CSCSL NFA Facility/Site Id: 7222592 CS Id: 5427	N/A
RENTAL MARTS 29805 PACIFIC HWY S FEDERAL WAY, WA 98003	FINDS Registry ID:: 110015540388	N/A
RENTAL MARTS 29805 PACIFIC HIGHWA FEDERAL WAY, WA	RGA LUST Facility ID: 4709 Facility ID: 6523 Facility ID: 6523.0	N/A
RENTAL MARTS 29805 PACIFIC FEDERAL WAY, WA	RGA LUST Facility ID: 6523	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Facility Database

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
AST ---------- Aboveground Storage Tank Locations
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL ---------- Institutional Control Site List

EXECUTIVE SUMMARY

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---- Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY ---- Recycling Facility List
SWTIRE ---- Solid Waste Tire Facilities
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
CDL ---- Clandestine Drug Lab Contaminated Site List
HIST CDL ---- List of Sites Contaminated by Clandestine Drug Labs
US CDL ---- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
SPILLS ---- Reported Spills
SPILLS 90 ---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans

RAATS RCRA Administrative Action Tracking System
PRP Potentially Responsible Parties
PADS PCB Activity Database System
ICIS Integrated Compliance Information System
FTTS FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS Material Licensing Tracking System
COAL ASH DOE Steam-Electric Plant Operation Data
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER PCB Transformer Registration Database
RADINFO Radiation Information Database
HIST FTTS FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS Incident and Accident Data
CONSENT Superfund (CERCLA) Consent Decrees
INDIAN RESERV Indian Reservations
FUSRAP Formerly Utilized Sites Remedial Action Program
UMTRA Uranium Mill Tailings Sites
LEAD SMELTERS Lead Smelter Sites
US AIRS Aerometric Information Retrieval System Facility Subsystem
US MINES Mines Master Index File
ABANDONED MINES Abandoned Mines
ECHO Enforcement & Compliance History Information
UXO Unexploded Ordnance Sites
DOCKET HWC Hazardous Waste Compliance Docket Listing
FUELS PROGRAM EPA Fuels Program Registered Listing
AIRS Washington Emissions Data System
COAL ASH Coal Ash Disposal Site Listing
DRYCLEANERS Drycleaner List
Financial Assurance Financial Assurance Information Listing
Inactive Drycleaners Inactive Drycleaners
MANIFEST Hazardous Waste Manifest Data
NPDES Water Quality Permit System Data
UIC Underground Injection Wells Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS Recovered Government Archive State Hazardous Waste Facilities List
RGA LF Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent NPL

HSL: The Hazardous Sites List is a subset of the CSCSL Report. It includes sites which have been assessed and ranked using the Washington Ranking Method (WARM).

A review of the HSL list, as provided by EDR, and dated 02/21/2017 has revealed that there is 1 HSL site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NIEDERLE PROPERTY Facility Type: Hazardous Sites List FSID Number: 2579 Facility Status: Awaiting Cleanup	***455 S 305TH ST***	***SW 1/2 - 1 (0.775 mi.)***	***30***	***63***

State- and tribal - equivalent CERCLIS

CSCSL: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Ecology's Confirmed & Suspected Contaminated Sites List.

A review of the CSCSL list, as provided by EDR, and dated 04/18/2017 has revealed that there are 10 CSCSL sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
REDONDO OIL PIT KING Site Status: Awaiting Cleanup Facility ID: 2200 Clean Up Siteid: 1242	***16TH AVE S & SW DASH***	***NW 0 - 1/8 (0.010 mi.)***	***B6***	***12***
SUSAN HARRANG Site Status: Cleanup Started Facility ID: 11893824 Clean Up Siteid: 7916	***30509 PACIFIC HWY S***	***S 1/4 - 1/2 (0.434 mi.)***	***F24***	***33***
FEDERAL WAY HIGH SCH Site Status: Awaiting Cleanup Facility ID: 61228121 Clean Up Siteid: 12869	***30611 16TH AVE S***	***S 1/4 - 1/2 (0.440 mi.)***	***F26***	***37***
TEXACO 63-232-1486 Site Status: Cleanup Started Facility ID: 27316879 Clean Up Siteid: 8538	***28806 PACIFIC HWY S***	***N 1/2 - 1 (0.509 mi.)***	***27***	***40***
CHEVRON USA INC SS 9 Site Status: Cleanup Started Facility ID: 36449927 Clean Up Siteid: 5951	***28806 MILITARY RD S***	***NE 1/2 - 1 (0.716 mi.)***	***29***	***52***
CONOCOPHILLIPS COMPA	***28718 MILITARY RD***	***NE 1/2 - 1 (0.785 mi.)***	***31***	***65***

Site Status: Cleanup Started
Facility ID: 64882187
Clean Up Siteid: 10028

COOK INVESTMENT BLDG	***1400 S 312TH ST***	***S 1/2 - 1 (0.846 mi.)***	***32***	***72***

Site Status: Awaiting Cleanup
Facility ID: 2178787
Clean Up Siteid: 4491

Not reported	***31204 PACIFIC HWY S***	***S 1/2 - 1 (0.869 mi.)***	***33***	***77***

Site Status: Cleanup Started
Facility ID: 75488972
Clean Up Siteid: 6626

Lower Elevation	Address	Direction / Distance	Map ID	Page
BREWER PROPERTY	***29260 MILITARY RD S***	***ENE 1/2 - 1 (0.640 mi.)***	***28***	***52***

Site Status: Awaiting Cleanup
Facility ID: 3641376
Clean Up Siteid: 245

NIEDERLE PROPERTY	***455 S 305TH ST***	***SW 1/2 - 1 (0.775 mi.)***	***30***	***63***

Site Status: Awaiting Cleanup
Facility ID: 2579
Clean Up Siteid: 297

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Ecology's Leaking Underground Storage Tanks Site List.

A review of the LUST list, as provided by EDR, has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SUSAN HARRANG	***30509 PACIFIC HWY S***	***S 1/4 - 1/2 (0.434 mi.)***	***F24***	***33***

Database: LUST, Date of Government Version: 05/16/2017
Facility Status: Cleanup Started
Cleanup Site ID: 7916
Facility ID: 11893824

FEDERAL WAY HIGH SCH	***30611 16TH AVE S***	***S 1/4 - 1/2 (0.440 mi.)***	***F26***	***37***

Database: LUST, Date of Government Version: 05/16/2017
Facility Status: Awaiting Cleanup
Cleanup Site ID: 12869
Facility ID: 61228121

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Ecology's Statewide UST Site/Tank Report.

A review of the UST list, as provided by EDR, and dated 01/31/2017 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SHELL MINI MART Site Id: 8504 Facility ID: 79813564	29625 PACIFIC HWY S	N 0 - 1/8 (0.042 mi.)	B11	17

State and tribal voluntary cleanup sites

ICR: These are remedial action reports Ecology has received from either the owner or operator of the site. These actions have been conducted without department oversight or approval and are not under an order or decree.

A review of the ICR list, as provided by EDR, and dated 12/01/2002 has revealed that there are 2 ICR sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OIL EXPRESS	30509 PACIFIC HWY S.	S 1/4 - 1/2 (0.434 mi.)	F25	36

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL #6227	29625 PACIFIC HWY S.	N 0 - 1/8 (0.042 mi.)	B10	17

VCP: Sites that have entered either the Voluntary Cleanup Program or its predecessor Independent Remedial Action Program.

A review of the VCP list, as provided by EDR, and dated 04/18/2017 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FW SHELL & DELI MART Facility ID: 79813564 Cleanup Siteid: 6688	***29625 PACIFIC HWY S***	***N 0 - 1/8 (0.042 mi.)***	***B9***	***14***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

ALLSITES: Information on facilities and sites of interest to the Department of Ecology.

A review of the ALLSITES list, as provided by EDR, and dated 05/05/2017 has revealed that there are

EXECUTIVE SUMMARY

12 ALLSITES sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
REDONDO OIL PIT KING Facility Id: 2200	***16TH AVE S & SW DASH***	***NW 0 - 1/8 (0.010 mi.)***	***B6***	***12***
LAMBS GATE PRESBYTER Facility Id: 21327	29850 18TH AVE S	SE 0 - 1/8 (0.096 mi.)	16	22
Not reported Facility Id: 85427854	***29501 PACIFIC HWY S***	***N 0 - 1/8 (0.115 mi.)***	***D17***	***22***
AL HOLZ AUTO SERVICE Facility Id: 5123364	***30402 PACIFIC HWY SO***	***S 1/4 - 1/2 (0.368 mi.)***	***19***	***24***
13TH AVE S DRUG LAB Facility Id: 83794384	***30320 13TH AVE S***	***SW 1/4 - 1/2 (0.374 mi.)***	***20***	***26***
SUDS N CLEAN Facility Id: 38472884	***30405 PACIFIC HWY S***	***S 1/4 - 1/2 (0.376 mi.)***	***E21***	***28***
KING CNTY PARKS FEDE Facility Id: 76798431	***30421 16TH AVE S***	***S 1/4 - 1/2 (0.385 mi.)***	***E22***	***30***
SOUND VIEW AUTOBODY Facility Id: 34342987	***28872 PACIFIC HWY S***	***N 1/4 - 1/2 (0.420 mi.)***	***23***	***31***
SUSAN HARRANG Facility Id: 11893824	***30509 PACIFIC HWY S***	***S 1/4 - 1/2 (0.434 mi.)***	***F24***	***33***
FEDERAL WAY HIGH SCH Facility Id: 61228121	***30611 16TH AVE S***	***S 1/4 - 1/2 (0.440 mi.)***	***F26***	***37***

Lower Elevation	Address	Direction / Distance	Map ID	Page
FW SHELL & DELI MART Facility Id: 79813564	***29625 PACIFIC HWY S***	***N 0 - 1/8 (0.042 mi.)***	***B9***	***14***
SACAJAWEA HEALTHCARE Facility Id: 18602	1530 S DASH POINT RD	NNW 0 - 1/8 (0.061 mi.)	C13	21

CSCSL NFA: The data set contains information about sites previously on the Confirmed and Suspected Contaminated Sites list that have received a No Further Action (NFA) determination. Because it is necessary to maintain historical records of sites that have been investigated and cleaned up, sites are not deleted from the database when cleanup activities are completed. Instead a No Further Action code is entered based upon the type of NFA determination the site received.

A review of the CSCSL NFA list, as provided by EDR, and dated 04/18/2017 has revealed that there is 1 CSCSL NFA site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FW SHELL & DELI MART Facility/Site Id: 79813564 CS Id: 6688	***29625 PACIFIC HWY S***	***N 0 - 1/8 (0.042 mi.)***	***B9***	***14***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	***29501 PACIFIC HWY S***	***N 0 - 1/8 (0.115 mi.)***	***D17***	***22***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 4 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JUMP S UNION	29625 S PACIFIC HWY	NE 0 - 1/8 (0.012 mi.)	A7	13
SID & JANS AUTO REPA	29810 18TH S	ESE 0 - 1/8 (0.066 mi.)	14	21
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
WESTFAIR EXXON	1650 SW DASH POINT R	N 0 - 1/8 (0.016 mi.)	A8	14
JUMP S UNION	29625 S PACIFIC HWY	N 0 - 1/8 (0.042 mi.)	B12	20

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 2 EDR Hist

EXECUTIVE SUMMARY

Cleaner sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MR STEAM MRS STEAM	29500 PACIFIC HWY S	NNE 0 - 1/8 (0.121 mi.)	D18	24

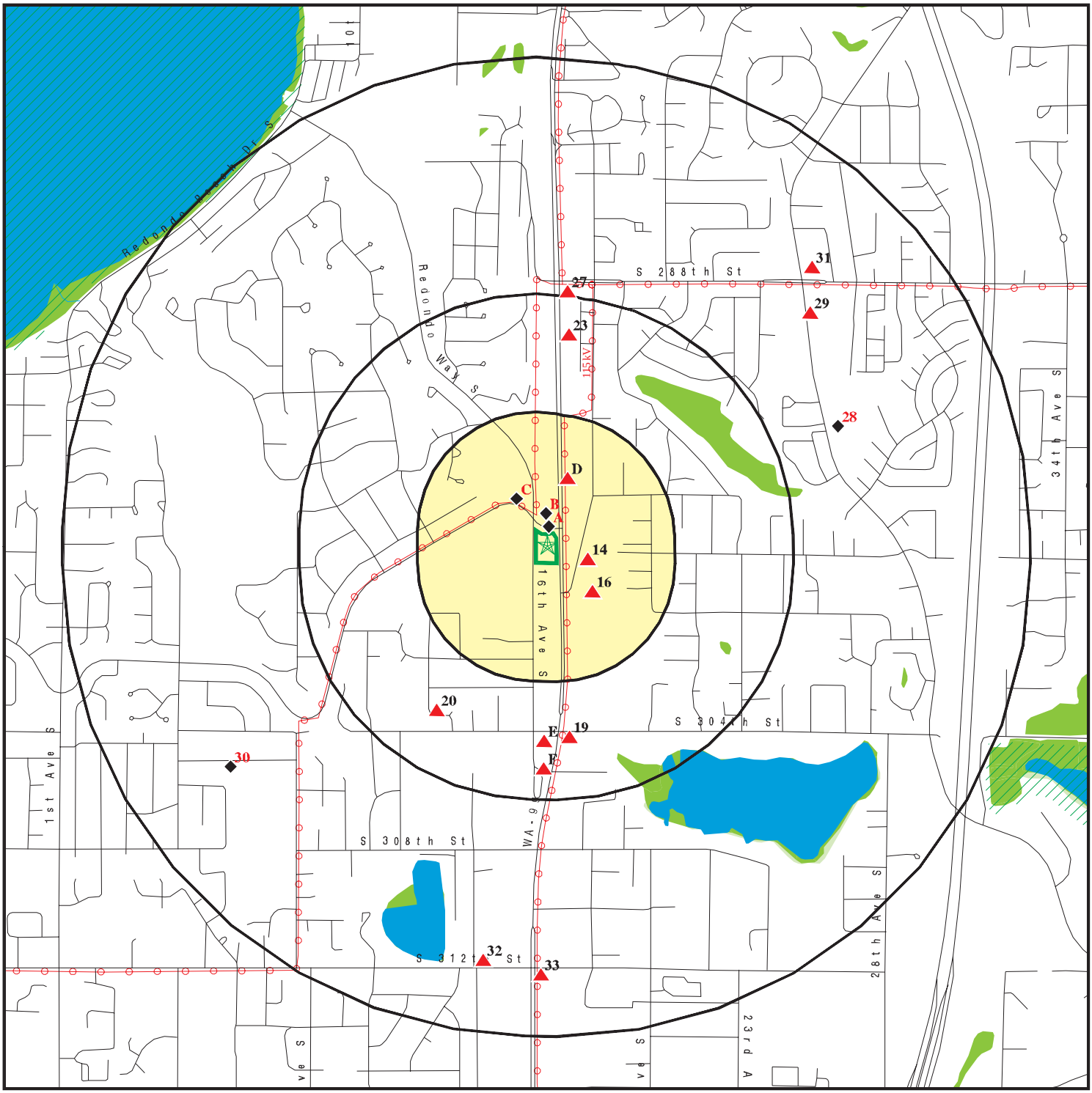
Lower Elevation	Address	Direction / Distance	Map ID	Page
MARINE HILL CLEANERS	1520 S DASH POINT RD	NNW 0 - 1/8 (0.078 mi.)	C15	22

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

Site Name	Database(s)
LINDE CONTAINER	SEMS
INTERBAY	SWF/LF
JUDKINS STREET DISPOSAL SITE	SWF/LF
BOEING - AUBURN GOVERNMENT CANAL	ICR
BOEING - BLDG. 17-15 - RINSEWATER	ICR

OVERVIEW MAP - 4994481.30S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Payless Auto Sales	CLIENT: TGE Resources, Inc.
ADDRESS: 29805 Pacific Highway South Federal Way WA 98003	CONTACT: Matthew Lopez
LAT/LONG: 47.335284 / 122.31271	INQUIRY #: 4994481.30s DATE: July 17, 2017 9:58 am

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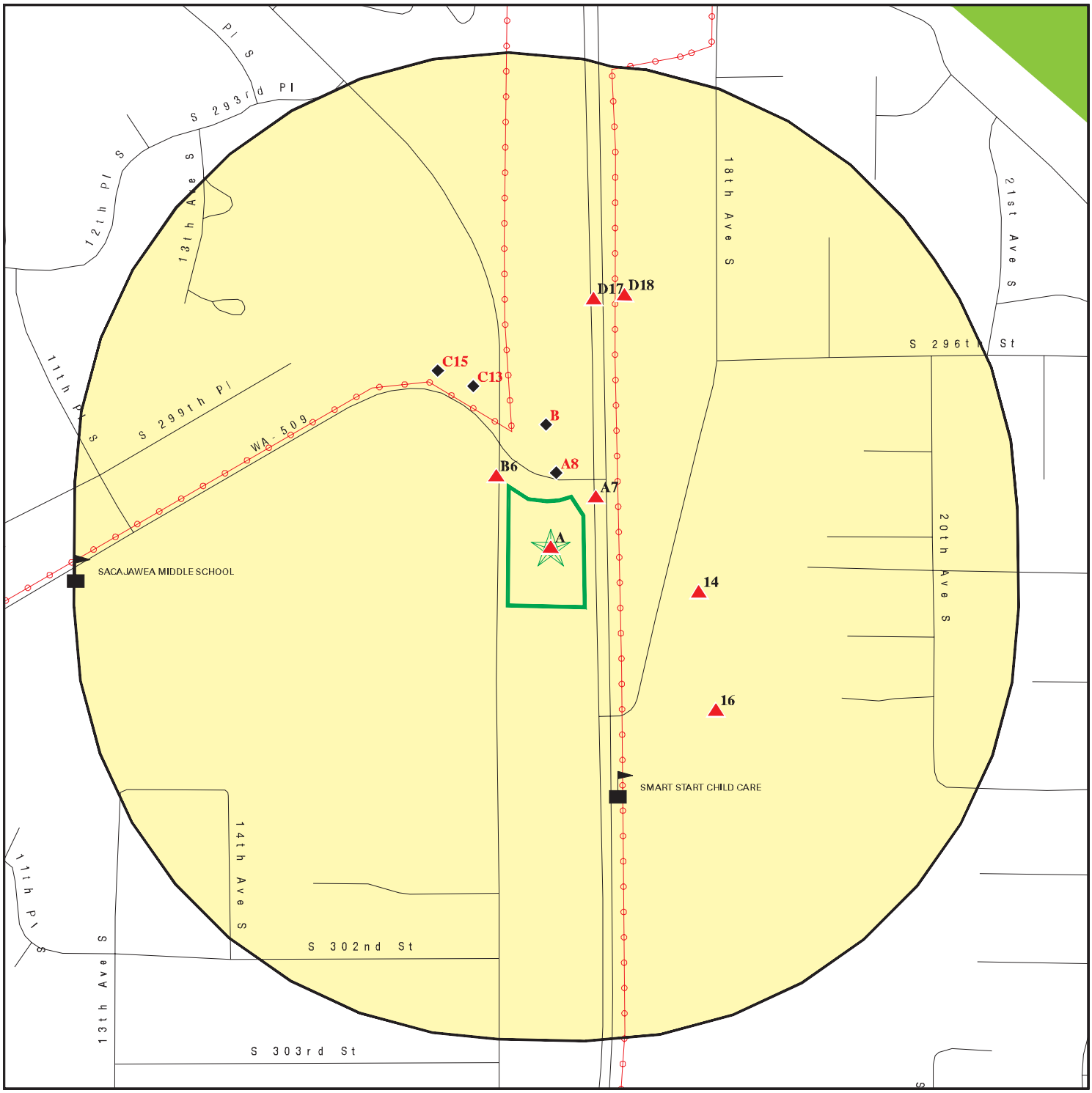
DETAIL MAP - 4994481.30S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Payless Auto Sales	CLIENT: TGE Resources, Inc.
ADDRESS: 29805 Pacific Highway South Federal Way WA 98003	CONTACT: Matthew Lopez INQUIRY #: 4994481.30s
LAT/LONG: 47.335284 / 122.31271	DATE: July 17, 2017 10:21 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
HSL	1.000		0	0	0	1	NR	1
State- and tribal - equivalent CERCLIS								
CSCSL	1.000		1	0	2	7	NR	10
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	2	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250	1	1	0	NR	NR	NR	2
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
ICR	0.500	1	1	0	1	NR	NR	3
VCP	0.500	1	1	0	0	NR	NR	2
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500	1	5	0	7	NR	NR	13
CDL	TP		NR	NR	NR	NR	NR	0
HIST CDL	TP		NR	NR	NR	NR	NR	0
CSCSL NFA	0.500	1	1	0	0	NR	NR	2
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.500		0	0	0	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
Inactive Drycleaners	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.125		4	NR	NR	NR	NR	4
EDR Hist Cleaner	0.125		2	NR	NR	NR	NR	2
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP	2	NR	NR	NR	NR	NR	2
- Totals --		8	17	0	12	8	0	45

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **RENTAL MARTS** **UST** **U003027794**
Target **29805 PACIFIC HIGHWAY S** **ICR** **N/A**
Property **FEDERAL WAY, WA 98003**

Site 1 of 7 in cluster A

Actual:
426 ft.

UST:

Facility ID:	7222592
Site Id:	6523
UBI:	Not reported
Phone Number:	Not reported
Decimal Latitude:	47.33495
Decimal Longitude:	-122.31223
Tank Name:	1
Tag Number:	Not reported
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	07/01/1993
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	None
Tank Overfill Prevention:	None
Tank Material:	Not reported
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	None
Tank Manifold:	Not reported
Tank Release Detection:	Statistical Inventory Reconciliation
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	None
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	2
Tag Number:	Not reported
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	Not reported
Tank Permit Expiration Date:	11/15/1992
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Not reported
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported

RENTAL MARTS (Continued) **U003027794**

Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	3
Tag Number:	Not reported
Tank Status:	Closed in Place
Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Not reported
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	4
Tag Number:	Not reported
Tank Status:	Closed in Place
Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	Not reported
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Not reported
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported

RENTAL MARTS (Continued) **U003027794**

Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

ICR:

Date Ecology Received Report:	08/26/93
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	93-08
County Code:	17
Contact:	Not reported
Report Title:	Not reported

Date Ecology Received Report:	06/27/94
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	93-35
County Code:	17
Contact:	Not reported
Report Title:	Not reported

A2 **RENTAL MARTS** **VCP** **S105612839**
Target **29805 PACIFIC HWY S** **ALLSITES** **N/A**
Property **FEDERAL WAY, WA 98003** **CSCSL NFA**

Site 2 of 7 in cluster A

Actual: 426 ft.

VCP:

edr_fstat:	WA
edr_fzip:	98003-4233
edr_fcnty:	KING
edr_zip:	Not reported
Facility ID:	7222592
VCP Status:	Not reported
VCP:	Yes
Ecology Status:	Not reported
NFA Type:	Not reported
Date NFA:	5/17/2001
Rank:	Not reported
Cleanup Siteid:	5427

ALLSITES:

Facility Name:	RENTAL MARTS
Facility Id:	7222592

Interaction: 20344

RENTAL MARTS (Continued) **S105612839**

Interaction 1:	I
Interaction 2:	UST
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	6523
Date Interaction:	2000-03-20 00:00:00
Date Interaction 3:	Underground Storage Tank
Latitude:	47.334944395000001
Longitude:	-122.312215173

Interaction:	20343
Interaction 1:	I
Interaction 2:	LUST
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	6523
Date Interaction:	1993-08-26 00:00:00
Date Interaction 3:	LUST Facility
Latitude:	47.334944395000001
Longitude:	-122.312215173

Interaction:	20345
Interaction 1:	I
Interaction 2:	VOLCLNST
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	RENTAL MARTS
Program ID:	Not reported
Date Interaction:	2001-03-13 00:00:00
Date Interaction 3:	Voluntary Cleanup Sites
Latitude:	47.334944395000001
Longitude:	-122.312215173

CSCSL NFA:

Facility/Site Id:	7222592
CS Id:	5427
NFA Date:	05/17/2001
Rank:	Not reported
VCP:	Yes
Latitude:	47.33495
Longitude:	-122.31223

A3 **RENTAL MARTS** **FINDS** **1007077364**
Target **29805 PACIFIC HWY S** **N/A**
Property **FEDERAL WAY, WA 98003**

Site 3 of 7 in cluster A

Actual: 426 ft.

FINDS:

Registry ID:	110015540388

RENTAL MARTS (Continued) **1007077364**

Environmental Interest/Information System
Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington Department of Ecology. This system contains key information for each facility/site that is currently, or has been, of interest to the Air Quality, Dam Safety, Hazardous Waste, Toxics Cleanup, and Water Quality Programs.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A4 **RENTAL MARTS** **RGA LUST** **S115441734**
Target Property **29805 PACIFIC HIGHWAY S** **N/A**
FEDERAL WAY, WA

Site 4 of 7 in cluster A

Actual: 426 ft.

RGA LUST:

2006	RENTAL MARTS	29805 PACIFIC HIGHWAY S
2005	RENTAL MARTS	29805 PACIFIC HIGHWAY S
2004	RENTAL MARTS	29805 PACIFIC HIGHWAY S
2003	RENTAL MARTS	29805 PACIFIC HIGHWAY S
2002	RENTAL MARTS	29805 PACIFIC HIGHWAY S
2001	RENTAL MARTS	29805 PACIFIC HIGHWAY S
2000	RENTAL MARTS	29805 PACIFIC HIGHWAY S
1999	RENTAL MARTS	29805 PACIFIC HIGHWAY S
1998	RENTAL MARTS	29805 PACIFIC HIGHWAY S
1997	RENTAL MARTS	29805 PACIFIC HIGHWAY S
1995	RENTAL MARTS	29805 PACIFIC HIGHWAY S

A5 **RENTAL MARTS** **RGA LUST** **S115441735**
Target Property **29805 PACIFIC** **N/A**
FEDERAL WAY, WA

Site 5 of 7 in cluster A

Actual: 426 ft.

RGA LUST:

1996	RENTAL MARTS	29805 PACIFIC

B6 **REDONDO OIL PIT KING CNTY** **CSCSL** **S100079874**
NW **16TH AVE S & SW DASH PT RD** **ALLSITES** **N/A**
< 1/8 **REDONDO, WA 98054**
0.010 mi.
51 ft.

Site 1 of 5 in cluster B

Relative: Higher

Actual: 428 ft.

CSCSL:

Facility ID:	2200
Region:	Northwest
Lat/Long:	47.33588 / -122.31338
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	1242
Site Status:	Awaiting Cleanup

REDONDO OIL PIT KING CNTY (Continued) **S100079874**

PSI?:	Not reported
Contaminant Name:	Petroleum Products-Unspecified
Ground Water:	Suspected
Surface Water:	Not reported
Soil:	Suspected
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

Facility ID:	2200
Region:	Northwest
Lat/Long:	47.33588 / -122.31338
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	1242
Site Status:	Awaiting Cleanup
PSI?:	Not reported
Contaminant Name:	Polycyclic Aromatic Hydrocarbons
Ground Water:	Suspected
Surface Water:	Not reported
Soil:	Suspected
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

ALLSITES:

Facility Name:	REDONDO OIL PIT KING CNTY
Facility Id:	2200

Interaction:	3838
Interaction 1:	A
Interaction 2:	SCS
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	REDONDO OIL PIT KING CNTY
Program ID:	Not reported
Date Interaction:	1900-01-01 00:00:00
Date Interaction 3:	State Cleanup Site
Latitude:	47.335874394999998
Longitude:	-122.313365174

A7 **JUMP S UNION** **EDR Hist Auto** **1009615303**
NE **29625 S PACIFIC HWY** **N/A**
< 1/8 **AUBURN, WA**
0.012 mi.
64 ft. **Site 6 of 7 in cluster A**

Relative: EDR Hist Auto
Higher

Year:	Name:	Type:
1977	JUMP S UNION	Gasoline Stations

Actual:
435 ft.

A8 **WESTFAIR EXXON** **EDR Hist Auto** **1020511077**
North **1650 SW DASH POINT RD** **N/A**
< 1/8 **FEDERAL WAY, WA 98003**
0.016 mi.
83 ft. **Site 7 of 7 in cluster A**

Relative:
Lower

Actual:
424 ft.

EDR Hist Auto

Year:	Name:	Type:
1979	WESTFAIR EXXON	Gasoline Service Stations
1980	WESTFAIR EXXON	Gasoline Service Stations
1982	WESTFAIR EXXON	Gasoline Service Stations
1983	WESTFAIR EXXON	Gasoline Service Stations

B9 **FW SHELL & DELI MART** **VCP** **1007064946**
North **29625 PACIFIC HWY S** **ALLSITES** **N/A**
< 1/8 **FEDERAL WAY, WA 98003** **CSCSL NFA**
0.042 mi. **ICIS**
220 ft. **Site 2 of 5 in cluster B** **FINDS**
ECHO

Relative:
Lower

Actual:
412 ft.

VCP:

edr_fstat:	WA
edr_fzip:	98003
edr_fcnty:	KING
edr_zip:	Not reported
Facility ID:	79813564
VCP Status:	Not reported
VCP:	Yes
Ecology Status:	Not reported
NFA Type:	Not reported
Date NFA:	1/27/2006
Rank:	Not reported
Cleanup Siteid:	6688

ALLSITES:

Facility Name:	FW SHELL & DELI MART
Facility Id:	79813564
Interaction:	65400
Interaction 1:	I
Interaction 2:	TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	CRK000016870
Date Interaction:	1988-01-01 00:00:00
Date Interaction 3:	Emergency/Haz Chem Rpt TI
Latitude:	47.336394394999999
Longitude:	-122.312575173

Interaction:	65402
Interaction 1:	I
Interaction 2:	VOLCLNST
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	FW SHELL & DELI MART
Program ID:	NW1534

FW SHELL & DELI MART (Continued) **1007064946**

Date Interaction: 2005-12-07 00:00:00
Date Interaction 3: Voluntary Cleanup Sites
Latitude: 47.336394394999999
Longitude: -122.312575173

Interaction: 65401
Interaction 1: I
Interaction 2: LUST
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 8504
Date Interaction: 1989-11-22 00:00:00
Date Interaction 3: LUST Facility
Latitude: 47.336394394999999
Longitude: -122.312575173

Interaction: 65399
Interaction 1: A
Interaction 2: UST
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: SHELL MINI MART
Program ID: 8504
Date Interaction: 1969-01-01 00:00:00
Date Interaction 3: Underground Storage Tank
Latitude: 47.336394394999999
Longitude: -122.312575173

CSCSL NFA:
Facility/Site Id: 79813564
CS Id: 6688
NFA Date: 01/27/2006
Rank: Not reported
VCP: Yes
Latitude: 47.3364
Longitude: -122.31259

ICIS:
Enforcement Action ID: 10-2009-0068
FRS ID: 110015415139
Action Name: SHELL MINI MART
Facility Name: FW SHELL & DELI MART
Facility Address: 29625 PACIFIC HWY S
FEDERAL WAY, WA 98003
Enforcement Action Type: RCRA 9006 AO For Comp And/Or Pen (UST) - UST Expedited Settlement Program
Facility County: KING
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 9006E
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 47.3364

FW SHELL & DELI MART (Continued) **1007064946**

Longitude in Decimal Degrees: -122.313
Permit Type Desc: Not reported
Program System Acronym: 1400008579
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Facility Name: FW SHELL & DELI MART
Address: 29625 PACIFIC HWY S
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: FW SHELL & DELI MART
Address: 29625 PACIFIC HWY S
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

FINDS:

Registry ID: 110015415139

Environmental Interest/Information System

Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington Department of Ecology. This system contains key information for each facility/site that is currently, or has been, of interest to the Air Quality, Dam Safety, Hazardous Waste, Toxics Cleanup, and Water Quality Programs.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1007064946
Registry ID: 110015415139
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110015415139

B10 **UNOCAL #6227** **ICR** **S103510831**
North **29625 PACIFIC HWY S.** **N/A**
< 1/8 **FEDERAL WAY, WA 98003**
0.042 mi.
220 ft. **Site 3 of 5 in cluster B**

Relative:
Lower

Actual:
412 ft.

ICR:

Date Ecology Received Report:	01/22/91
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	91-21
County Code:	17
Contact:	Not reported
Report Title:	Not reported

Date Ecology Received Report:	04/12/91
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	91-27
County Code:	17
Contact:	Not reported
Report Title:	Not reported

B11 **SHELL MINI MART** **UST** **U001125485**
North **29625 PACIFIC HWY S** **N/A**
< 1/8 **FEDERAL WAY, WA 98003**
0.042 mi.
220 ft. **Site 4 of 5 in cluster B**

Relative:
Lower

Actual:
412 ft.

UST:

Facility ID:	79813564
Site Id:	8504
UBI:	Not reported
Phone Number:	Not reported
Decimal Latitude:	47.3364
Decimal Longitude:	-122.31259

Tank Name:	1
Tag Number:	A3797
Tank Status:	Removed
Tank Status Date:	12/10/1999
Tank Install Date:	00/01/1900
Tank Closure Date:	Not reported
Capacity Range:	Not reported
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Not reported
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported

SHELL MINI MART (Continued) **U001125485**

Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	2
Tag Number:	A3797
Tank Status:	Removed
Tank Status Date:	12/10/1999
Tank Install Date:	00/01/1900
Tank Closure Date:	Not reported
Capacity Range:	Not reported
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Not reported
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	4
Tag Number:	A3797
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1969
Tank Closure Date:	Not reported
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Steel
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported

SHELL MINI MART (Continued) **U001125485**

Pipe Material:	Steel
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	5
Tag Number:	A3797
Tank Status:	Operational
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1995
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	08/31/2017
Tank Upgrade Date:	07/01/1995
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Steel Clad with Corrosion Resistant Composite
Tank Construction:	Double Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Automatic Tank Gauging
Tank SFC Type:	Sump
Pipe Material:	Fiberglass
Pipe Construction:	Double Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Interstitial Monitoring (or Sump Sensor)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Sump

Tank Name:	6
Tag Number:	A3797
Tank Status:	Operational
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1995
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	08/31/2017
Tank Upgrade Date:	07/01/1995
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Steel Clad with Corrosion Resistant Composite
Tank Construction:	Double Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Automatic Tank Gauging
Tank SFC Type:	Sump
Pipe Material:	Fiberglass

SHELL MINI MART (Continued) **U001125485**

Pipe Construction:	Double Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Interstitial Monitoring (or Sump Sensor)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Sump

Tank Name:	7
Tag Number:	A3797
Tank Status:	Operational
Tank Status Date:	12/10/1999
Tank Install Date:	00/01/1995
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	08/31/2017
Tank Upgrade Date:	07/01/1995
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Steel Clad with Corrosion Resistant Composite
Tank Construction:	Double Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Automatic Tank Gauging
Tank SFC Type:	Sump
Pipe Material:	Fiberglass
Pipe Construction:	Double Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Interstitial Monitoring (or Sump Sensor)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Sump

B12 **JUMP S UNION** **EDR Hist Auto** **1009615302**
North **29625 S PACIFIC HWY** **N/A**
< 1/8 **FEDERAL WAY, WA**
0.042 mi.
220 ft. **Site 5 of 5 in cluster B**

Relative: EDR Hist Auto
Lower

Actual:
412 ft.

Year:	Name:	Type:
1971	KRUSELL MELVIN D	Gasoline Service Stations
1987	JUMPS UNION	Gasoline Service Stations
1988	JUMPS UNION	Gasoline Service Stations
1989	JUMPS UNION	Gasoline Service Stations
1990	JUMPS UNION	Gasoline Service Stations
1991	JUMP S UNION DEL JUMP	Gasoline Stations
1996	509 DELI & TOWN PUMP BP	Gasoline Service Stations
1997	509 DELI & TOWN PUMP BP	Gasoline Service Stations
1998	509 DELI & TOWN PUMP BP	Gasoline Service Stations
1999	509 DELI & TOWN PUMP BP	Gasoline Service Stations
2000	509 DELI & TOWN PUMP B P	Gasoline Service Stations
2001	NISSI MOBILE AUTO REPAIR	General Automotive Repair Shops
2001	509 DELI & TOWN PUMP B P	Gasoline Service Stations

JUMP S UNION (Continued) **1009615302**

2002	509 DELI & TOWN PUMP B P	Gasoline Service Stations
2002	NISSI MOBILE AUTO REPAIR	General Automotive Repair Shops
2003	509 DELI & TOWN PUMP B P	Gasoline Service Stations
2003	NISSI MOBILE AUTO REPAIR	General Automotive Repair Shops
2004	NISSI MOBILE AUTO REPAIR	General Automotive Repair Shops
2004	509 DELI & TOWN PUMP B P	Gasoline Service Stations
2005	509 DELI & TOWN PUMP B P	Gasoline Service Stations, NEC
2006	509 DELI & TOWN PUMP B P	Gasoline Service Stations, NEC
2010	SHELL MINIMART	Gasoline Service Stations, NEC
2011	SHELL MINIMART	Gasoline Service Stations, NEC
2012	SHELL MINIMART	Gasoline Service Stations, NEC
2013	SHELL MINIMART	Gasoline Service Stations, NEC
2014	SHELL MINIMART	Gasoline Service Stations, NEC

C13 **SACAJAWEA HEALTHCARE FOR PETS** **ALLSITES** **S110123975**
NNW **1530 S DASH POINT RD** **N/A**
< 1/8 **FEDERAL WAY, WA 98003**
0.061 mi.
324 ft. **Site 1 of 2 in cluster C**

Relative:
Lower

Actual:
402 ft.

ALLSITES:

Facility Name:	SACAJAWEA HEALTHCARE FOR PETS
Facility Id:	18602
Interaction:	88938
Interaction 1:	I
Interaction 2:	LSC
Ecology Program:	HAZWASTE
Program Data:	LSC
Facility Alt.:	Sacajawea Healthcare for Pets
Program ID:	Not reported
Date Interaction:	2009-05-03 00:00:00
Date Interaction 3:	Local Source Cntrl 7/09-3
Latitude:	47.336655393999997
Longitude:	-122.313621173

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14 **SID & JANS AUTO REPAIR** **EDR Hist Auto** **1021253149**
ESE **29810 18TH S** **N/A**
< 1/8 **FEDERAL WAY, WA 98003**
0.066 mi.
348 ft.

Relative:
Higher

Actual:
454 ft.

EDR Hist Auto

Year:	Name:	Type:
1987	SID & JANS AUTO REPAIR	Automotive Repair Shops, NEC
1988	SID & JANS AUTO REPAIR	Automotive Repair Shops, NEC
1989	SID & JANS AUTO REPAIR	Automotive Repair Shops, NEC
1990	SID & JANS AUTO REPAIR	Automotive Repair Shops, NEC
1991	SID & JANS AUTO REPAIR	Automotive Repair Shops, NEC
1992	SID & JANS AUTO REPAIR	Automotive Repair Shops, NEC
1993	SID & JANS AUTO REPAIR	Automotive Repair Shops, NEC
1994	SID & JANS AUTO REPAIR	Automotive Repair Shops, NEC
1995	SID & JANS AUTO REPAIR	Automotive Repair Shops, NEC
1996	SID & JANS AUTO REPAIR	Automotive Repair Shops, NEC

C15 **MARINE HILL CLEANERS** **EDR Hist Cleaner** **1020034971**
NNW **1520 S DASH POINT RD** **N/A**
< 1/8 **FEDERAL WAY, WA 98003**
0.078 mi.
413 ft. **Site 2 of 2 in cluster C**

Relative: EDR Hist Cleaner
Lower

Year:	Name:	Type:
Actual: 2001	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
425 ft. 2002	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2003	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2004	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2005	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2006	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2007	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2008	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2009	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2010	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2011	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2012	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2013	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC
2014	MARINE HILL CLEANERS	Drycleaning Plants, Except Rugs, NEC

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16 **LAMBS GATE PRESBYTERIAN CHURCH** **ALLSITES** **S110993467**
SE **29850 18TH AVE S** **N/A**
< 1/8 **FEDERAL WAY, WA 98003**
0.096 mi.
506 ft.

Relative: ALLSITES:
Higher

Facility Name:	LAMBS GATE PRESBYTERIAN CHURCH
Facility Id:	21327
Actual: **456 ft.** Interaction:	96597
Interaction 1:	A
Interaction 2:	CONSTSWGP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	Lamb’s Gate Presbyterian Church
Program ID:	WAR124911
Date Interaction:	2011-03-15 00:00:00
Date Interaction 3:	Construction SW GP
Latitude:	47.333942096000001
Longitude:	-122.31065311899999

D17 **ALLSITES** **1000179318**
North **29501 PACIFIC HWY S** **RCRA NonGen / NLR** **WAT540010899**
< 1/8 **DES MOINES, WA 98198** **FINDS**
0.115 mi. **ECHO**
609 ft. **Site 1 of 2 in cluster D**

Relative: ALLSITES:
Higher

Facility Name:	USWCOM DES MOINES N RPTR BLDG
Facility Id:	85427854
Actual: **434 ft.** Interaction:	68472

(Continued) **1000179318**

Interaction 1:	I
Interaction 2:	HWG
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAT540010899
Date Interaction:	1981-03-18 00:00:00
Date Interaction 3:	Hazardous Waste Generator
Latitude:	47.395454389999998
Longitude:	-122.29665516199999

RCRA NonGen / NLR:

Date form received by agency:	03/18/1981
Facility name:	Not reported
Facility address:	29501 PACIFIC HWY S DES MOINES, WA 98198
EPA ID:	WAT540010899
Mailing address:	7235 S 228TH ST KENT, WA 98032-2929
Contact:	QWEST CORP QWEST CORP
Contact address:	7235 S 228TH ST KENT, WA 98032-2929
Contact country:	US
Contact telephone:	(000)000-0000
Contact email:	Not reported
EPA Region:	Not reported
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	QWEST CORP Q
Owner/operator address:	29501 PACIFIC HWY S DES MOINES, WA 98198
Owner/operator country:	US
Owner/operator telephone:	(000)000-0000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	05/03/1996
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No

(Continued) **1000179318**

Used oil transporter: No

Historical Generators:
Date form received by agency: 03/18/1981
Site name: USWCOM DES MOINES N RPTR BLDG
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110005406710

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000179318
Registry ID: 110005406710
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110005406710

D18
NNE
< 1/8
0.121 mi.
638 ft.

MR STEAM MRS STEAM **EDR Hist Cleaner** **1018768204**
29500 PACIFIC HWY S STE O **N/A**
FEDERAL WAY, WA 98003

Site 2 of 2 in cluster D

Relative: Higher

Actual: 442 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1999	MR STEAM MRS STEAM	Carpet And Upholstery Cleaning
2000	MR STEAM MRS STEAM	Carpet And Upholstery Cleaning

19
South
1/4-1/2
0.368 mi.
1941 ft.

AL HOLZ AUTO SERVICE **UST** **U001125343**
30402 PACIFIC HWY SO **ALLSITES** **N/A**
FEDERAL WAY, WA 98003

Relative: Higher

Actual: 480 ft.

UST:
Facility ID: 5123364
Site Id: 8192
UBI: Not reported
Phone Number: Not reported
Decimal Latitude: 47.329102
Decimal Longitude: -122.313383

AL HOLZ AUTO SERVICE (Continued) **U001125343**

Tank Name:	1
Tag Number:	Not reported
Tank Status:	Exempt - Removed
Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Steel
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	2
Tag Number:	Not reported
Tank Status:	Closed in Place
Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	Not reported
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Steel
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	3

AL HOLZ AUTO SERVICE (Continued) **U001125343**

Tag Number:	Not reported
Tank Status:	Closed in Place
Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	Not reported
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Steel
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

ALLSITES:

Facility Name:	AL HOLZ AUTO SERVICE
Facility Id:	5123364

Interaction:	16094
Interaction 1:	I
Interaction 2:	UST
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	8192
Date Interaction:	2000-02-29 00:00:00
Date Interaction 3:	Underground Storage Tank
Latitude:	47.329096395000001
Longitude:	-122.31336817499999

20
SW
1/4-1/2
0.374 mi.
1976 ft.

Relative:
Higher

Actual:
460 ft.

13TH AVE S DRUG LAB **ALLSITES** **1000199736**
30320 13TH AVE S **RCRA NonGen / NLR** **WAD988469904**
FEDERAL WAY, WA 98003 **FINDS**
ECHO

ALLSITES:

Facility Name:	13TH AVE S DRUG LAB
Facility Id:	83794384

Interaction:	67387
Interaction 1:	I
Interaction 2:	HWG
Ecology Program:	HAZWASTE

13TH AVE S DRUG LAB (Continued) **1000199736**

Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988469904
Date Interaction:	1990-02-08 00:00:00
Date Interaction 3:	Hazardous Waste Generator
Latitude:	47.330154395999998
Longitude:	-122.317555175

RCRA NonGen / NLR:

Date form received by agency:	02/08/1990
Facility name:	Not reported
Facility address:	30320 13TH AVE S FEDERAL WAY, WA 98003
EPA ID:	WAD988469904
Mailing address:	4350 150TH AVE NE REDMOND, WA 98052-5301
Contact:	WA ECY WA ECY
Contact address:	4350 150TH AVE NE REDMOND, WA 98052-5301
Contact country:	US
Contact telephone:	(000)000-0000
Contact email:	Not reported
EPA Region:	Not reported
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	WA ECY W
Owner/operator address:	30320 13TH AVE S FEDERAL WAY, WA 98003
Owner/operator country:	US
Owner/operator telephone:	(000)000-0000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	05/02/1996
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

13TH AVE S DRUG LAB (Continued) **1000199736**

Historical Generators:
Date form received by agency: 02/08/1990
Site name: 13TH AVE S DRUG LAB
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110005351074

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000199736
Registry ID: 110005351074
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110005351074

E21 **SUDS N CLEAN** **UST** **U000797076**
South **30405 PACIFIC HWY S** **ALLSITES** **N/A**
1/4-1/2 **FEDERAL WAY, WA 98003**
0.376 mi.
1984 ft. **Site 1 of 2 in cluster E**

Relative:
Higher

Actual:
490 ft.

UST:
Facility ID: 38472884
Site Id: 396
UBI: Not reported
Phone Number: Not reported
Decimal Latitude: 47.329062
Decimal Longitude: -122.313393

Tank Name: 1
Tag Number: A3794, A8525
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1973
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 07/31/2017
Tank Upgrade Date: 12/18/1995
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Overfill Alarm
Tank Material: Dielectric Coated Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Impressed Current and Interior Lining

SUDS N CLEAN (Continued) **U000797076**

Tank Manifold:	Not reported
Tank Release Detection:	Automatic Tank Gauging
Tank SFC Type:	Sump
Pipe Material:	Fiberglass
Pipe Construction:	Double Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Annual Line Tightness Test (LTT)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Sump

Tank Name:	2
Tag Number:	A3794, A8525
Tank Status:	Operational
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1973
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	07/31/2017
Tank Upgrade Date:	12/18/1995
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Overfill Alarm
Tank Material:	Dielectric Coated Steel
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Impressed Current and Interior Lining
Tank Manifold:	Not reported
Tank Release Detection:	Automatic Tank Gauging
Tank SFC Type:	Sump
Pipe Material:	Fiberglass
Pipe Construction:	Double Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Annual Line Tightness Test (LTT)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Sump

Tank Name:	3
Tag Number:	A3794, A8525
Tank Status:	Operational
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1973
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	07/31/2017
Tank Upgrade Date:	12/18/1995
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Overfill Alarm
Tank Material:	Dielectric Coated Steel
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Impressed Current and Interior Lining
Tank Manifold:	Not reported

SUDS N CLEAN (Continued) **U000797076**

Tank Release Detection:	Automatic Tank Gauging
Tank SFC Type:	Sump
Pipe Material:	Fiberglass
Pipe Construction:	Double Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Annual Line Tightness Test (LTT)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Sump

ALLSITES:

Facility Name:	SUDS & CLEAN INC
Facility Id:	38472884

Interaction:	41905
Interaction 1:	I
Interaction 2:	TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	CRK000038380
Date Interaction:	1994-01-01 00:00:00
Date Interaction 3:	Emergency/Haz Chem Rpt TI
Latitude:	47.329056395000002
Longitude:	-122.313378175

Interaction:	41904
Interaction 1:	A
Interaction 2:	UST
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	SUDS N CLEAN
Program ID:	396
Date Interaction:	1973-06-01 00:00:00
Date Interaction 3:	Underground Storage Tank
Latitude:	47.329056395000002
Longitude:	-122.313378175

E22 **KING CNTY PARKS FEDERAL WAY POOL** **ALLSITES** **S108673548**
South **30421 16TH AVE S** **SPILLS** **N/A**
1/4-1/2 **FEDERAL WAY, WA 98003**
0.385 mi.
2033 ft. **Site 2 of 2 in cluster E**

Relative:
Higher

Actual:
488 ft.

ALLSITES:

Facility Name:	KING CNTY PARKS FEDERAL WAY POOL
Facility Id:	76798431

Interaction:	63710
Interaction 1:	A
Interaction 2:	TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported

KING CNTY PARKS FEDERAL WAY POOL (Continued) **S108673548**

Program ID:	CRK000034860
Date Interaction:	1992-01-01 00:00:00
Date Interaction 3:	Emergency/Haz Chem Rpt TI
Latitude:	47.328249485999997
Longitude:	-122.31578558699999

SPILLS:

Facility ID:	542707
Medium:	Not reported
Material Desc:	CHEMICAL
Material Qty:	Not reported
Material Units:	Not reported
Date Received:	08/09/2004
Contact Name:	Not reported
Incident Date:	Not reported
Incident Category Type:	Not reported
Incident Category:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Source Type:	Not reported
Source:	Not reported
Vessel Facility Name2:	Not reported
Recovered Quantity:	Not reported
Resp Party Name:	Not reported

23
North
1/4-1/2
0.420 mi.
2215 ft.

Relative:
Higher

Actual:
445 ft.

SOUND VIEW AUTOBODY **ALLSITES** **1000310053**
28872 PACIFIC HWY S **RCRA NonGen / NLR** **WAD988472502**
FEDERAL WAY, WA 98003 **FINDS**
ECHO

ALLSITES:

Facility Name:	SOUND VIEW AUTOBODY
Facility Id:	34342987
Interaction:	39189
Interaction 1:	I
Interaction 2:	HWG
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988472502
Date Interaction:	1990-05-31 00:00:00
Date Interaction 3:	Hazardous Waste Generator
Latitude:	47.342394394000003
Longitude:	-122.312335172

RCRA NonGen / NLR:

Date form received by agency:	03/30/2005
Facility name:	Not reported
Facility address:	28872 PACIFIC HWY S FEDERAL WAY, WA 98003
EPA ID:	WAD988472502
Contact:	SOUND VIEW AUTO SOUND VIEW AUTO
Contact address:	28872 PACIFIC HWY S

SOUND VIEW AUTOBODY (Continued) **1000310053**

FEDERAL WAY, WA 98003-3802
Contact country: US
Contact telephone: (000)000-0000
Contact email: Not reported
EPA Region: Not reported
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ANASTASIA E
Owner/operator address: 28872 PACIFIC HWY S
FEDERAL WAY, WA 98003
Owner/operator country: US
Owner/operator telephone: (253)839-3279
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/01/1998
Owner/Op end date: Not reported

Owner/operator name: DAVID E
Owner/operator address: 28872 PACIFIC HWY S
FEDERAL WAY, WA 98032
Owner/operator country: US
Owner/operator telephone: (000)000-0000
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1900
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/1997
Site name: SOUND VIEW AUTOBODY
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:

SOUND VIEW AUTOBODY (Continued) **1000310053**

Evaluation date: 10/27/1997
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110005352509

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000310053
Registry ID: 110005352509
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110005352509

F24 **SUSAN HARRANG** **CSCSL** **U003026220**
South **30509 PACIFIC HWY S** **LUST** **N/A**
1/4-1/2 **FEDERAL WAY, WA 98023** **UST**
0.434 mi. **ALLSITES**
2291 ft. **Site 1 of 3 in cluster F**

Relative:
Higher

Actual:
485 ft.

CSCSL:
Facility ID: 11893824
Region: Northwest
Lat/Long: 47.328593161 / -122.31300595
Brownfield Status: Not reported
Rank Status: N
Clean Up Siteid: 7916
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Other
Ground Water: Not reported
Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

LUST:
Facility ID: 11893824
Lust Status Type: Cleanup Started
Cleanup Site ID: 7916
Cleanup Unit Type: Upland
Process Type: Independent Action

SUSAN HARRANG (Continued) **U003026220**

Cleanup Unit Name: Oil Express
Lust Status Date: 06/23/1999
Response Section: Northwest
Lat/Long: 47.3285931 / -122.31300

UST:
Facility ID: 11893824
Site Id: 2061
UBI: Not reported
Phone Number: Not reported
Decimal Latitude: 47.3285931609696
Decimal Longitude: -122.313005948944

Tank Name: 1
Tag Number: Not reported
Tank Status: Closed in Place
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1980
Tank Closure Date: Not reported
Capacity Range: 1,101 to 2,000 Gallons
Tank Permit Expiration Date: 06/30/1999
Tank Upgrade Date: Not reported
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: None
Tank Material: Not reported
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: None
Tank Manifold: Not reported
Tank Release Detection: Statistical Inventory Reconciliation
Tank SFC Type: Not reported
Pipe Material: No Piping Attached to Tank
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Other
Pipe Pumping System: Other
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 2 ABOVE GR.
Tag Number: Not reported
Tank Status: Exempt
Tank Status Date: 08/06/1996
Tank Install Date: 00/31/1964
Tank Closure Date: Not reported
Capacity Range: 111 TO 1,100 Gallons
Tank Permit Expiration Date: Not reported
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Steel
Tank Construction: Not reported
Tank Tightness Test: Not reported
Tank Corrosion Protection: Not reported
Tank Manifold: Not reported

SUSAN HARRANG (Continued) **U003026220**

Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Above Ground Piping
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	3 ABOVE GR.
Tag Number:	Not reported
Tank Status:	Exempt
Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Steel
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Above Ground Piping
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	4 ABOVE GR.
Tag Number:	Not reported
Tank Status:	Exempt
Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Steel
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported

SUSAN HARRANG (Continued) **U003026220**

Tank SFC Type:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Above Ground Piping
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

ALLSITES:

Facility Name:	SUSAN HARRANG
Facility Id:	11893824

Interaction:	26492
Interaction 1:	A
Interaction 2:	LUST
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Oil Express
Program ID:	2061
Date Interaction:	1999-07-27 00:00:00
Date Interaction 3:	LUST Facility
Latitude:	47.328587556000002
Longitude:	-122.31299112400001

Interaction:	26493
Interaction 1:	I
Interaction 2:	UST
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	2061
Date Interaction:	2000-03-20 00:00:00
Date Interaction 3:	Underground Storage Tank
Latitude:	47.328587556000002
Longitude:	-122.31299112400001

F25 **OIL EXPRESS** **ICR** **S104223604**
South **30509 PACIFIC HWY S.** **N/A**
1/4-1/2 **FEDERAL WAY, WA 98023**
0.434 mi.
2291 ft. **Site 2 of 3 in cluster F**

Relative:
Higher

Actual:
485 ft.

ICR:

Date Ecology Received Report:	08/06/99
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-18
County Code:	17
Contact:	Not reported
Report Title:	Not reported

F26 **FEDERAL WAY HIGH SCHOOL** **CSCSL** **S117624156**
South **30611 16TH AVE S** **LUST** **N/A**
1/4-1/2 **FEDERAL WAY, WA 98003** **ALLSITES**
0.440 mi. **SPILLS**
2322 ft. **Site 3 of 3 in cluster F** **NPDES**

Relative:
Higher

Actual:
484 ft.

CSCSL:

Facility ID:	61228121
Region:	Northwest
Lat/Long:	47.32804541 / -122.31394883
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	12869
Site Status:	Awaiting Cleanup
PSI?:	Not reported
Contaminant Name:	Petroleum-Diesel
Ground Water:	Not reported
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

Facility ID:	61228121
Region:	Northwest
Lat/Long:	47.32804541 / -122.31394883
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	12869
Site Status:	Awaiting Cleanup
PSI?:	Not reported
Contaminant Name:	Petroleum-Gasoline
Ground Water:	Not reported
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

LUST:

Facility ID:	61228121
Lust Status Type:	Awaiting Cleanup
Cleanup Site ID:	12869
Cleanup Unit Type:	Upland
Process Type:	No Process
Cleanup Unit Name:	Federal Way High School
Lust Status Date:	02/17/2015
Response Section:	Northwest
Lat/Long:	47.3280454 / -122.31394

ALLSITES:

Facility Name:	FEDERAL WAY HIGH SCHOOL
Facility Id:	61228121

Interaction:	110429
Interaction 1:	A

FEDERAL WAY HIGH SCHOOL (Continued) **S117624156**

Interaction 2:	CONSTSWGP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	Federal Way High School - A
Program ID:	WAR302499
Date Interaction:	2014-11-18 00:00:00
Date Interaction 3:	Construction SW GP
Latitude:	47.328040925000003
Longitude:	-122.313915447

Interaction:	109044
Interaction 1:	A
Interaction 2:	CONSTSWGP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	Federal Way High School
Program ID:	WAR302065
Date Interaction:	2014-06-02 00:00:00
Date Interaction 3:	Construction SW GP
Latitude:	47.328040925000003
Longitude:	-122.313915447

Interaction:	113533
Interaction 1:	A
Interaction 2:	CONSTSWGP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	Federal Way High School - B
Program ID:	WAR303131
Date Interaction:	2015-06-08 00:00:00
Date Interaction 3:	Construction SW GP
Latitude:	47.328040925000003
Longitude:	-122.313915447

Interaction:	54235
Interaction 1:	I
Interaction 2:	HWG
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988512356
Date Interaction:	1992-10-05 00:00:00
Date Interaction 3:	Hazardous Waste Generator
Latitude:	47.328040925000003
Longitude:	-122.313915447

Interaction:	54236
Interaction 1:	I
Interaction 2:	UST
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	272

FEDERAL WAY HIGH SCHOOL (Continued) **S117624156**

Date Interaction:	2000-02-29 00:00:00
Date Interaction 3:	Underground Storage Tank
Latitude:	47.328040925000003
Longitude:	-122.313915447

Interaction:	114902
Interaction 1:	A
Interaction 2:	LUST
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Federal Way High School
Program ID:	272
Date Interaction:	2015-08-12 00:00:00
Date Interaction 3:	LUST Facility
Latitude:	47.328040925000003
Longitude:	-122.313915447

SPILLS:

Facility ID:	654888
Medium:	SOIL
Material Desc:	PETROLEUM - UNKNOWN
Material Qty:	Not reported
Material Units:	Not reported
Date Received:	02/19/2015
Contact Name:	Not reported
Incident Date:	Not reported
Incident Category Type:	Not reported
Incident Category:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Source Type:	Not reported
Source:	Not reported
Vessel Facility Name2:	Not reported
Recovered Quantity:	Not reported
Resp Party Name:	Not reported

NPDES:

Facility Status:	Not reported
Facility Type:	Construction SW GP
Admin Region:	Headqarters
Date Issued:	11/18/2015
Latitude:	Not reported
Longitude:	Not reported
Permit ID:	WAR302065
Permit Version:	Not reported
Permit Status:	Active
Permit SubStatus:	Not reported
Ecology Contact:	Not reported
WRIA:	Not reported
Permit Expiration Date:	12/31/2020
Effective Date:	01/01/2016
Days to Expiration:	1353

Facility Status:	Not reported

FEDERAL WAY HIGH SCHOOL (Continued) **S117624156**

Facility Type:	Construction SW GP
Admin Region:	Headqarters
Date Issued:	11/18/2015
Latitude:	Not reported
Longitude:	Not reported
Permit ID:	WAR303131
Permit Version:	Not reported
Permit Status:	Active
Permit SubStatus:	Not reported
Ecology Contact:	Not reported
WRIA:	Not reported
Permit Expiration Date:	12/31/2020
Effective Date:	01/01/2016
Days to Expiration:	1353

27
North
1/2-1
0.509 mi.
2690 ft.

Relative:
Higher

Actual:
444 ft.

TEXACO 63-232-1486
28806 PACIFIC HWY S
FEDERAL WAY, WA 98003

CSCSL **U003027013**
LUST **N/A**
UST
ALLSITES
SPILLS
MANIFEST

CSCSL:

Facility ID:	27316879
Region:	Northwest
Lat/Long:	47.343098227 / -122.31189593
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	8538
Site Status:	Cleanup Started
PSI?:	Not reported
Contaminant Name:	Petroleum-Diesel
Ground Water:	Not reported
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

Facility ID:	27316879
Region:	Northwest
Lat/Long:	47.343098227 / -122.31189593
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	8538
Site Status:	Cleanup Started
PSI?:	Not reported
Contaminant Name:	Petroleum-Gasoline
Ground Water:	Not reported
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

TEXACO 63-232-1486 (Continued) **U003027013**

LUST:

Facility ID:	27316879
Lust Status Type:	Cleanup Started
Cleanup Site ID:	8538
Cleanup Unit Type:	Upland
Process Type:	Independent Action
Cleanup Unit Name:	TEXACO 004479 SHELL 121050
Lust Status Date:	12/04/1992
Response Section:	Northwest
Lat/Long:	47.3430982 / -122.31189

UST:

Facility ID:	27316879
Site Id:	4479
UBI:	Not reported
Phone Number:	Not reported
Decimal Latitude:	47.3430982271451
Decimal Longitude:	-122.311895932459
Tank Name:	1
Tag Number:	A0477
Tank Status:	Removed
Tank Status Date:	10/12/2007
Tank Install Date:	00/01/1985
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	02/28/2010
Tank Upgrade Date:	02/11/1998
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Annual
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Interstitial Monitoring (or Sump Sensor)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported
Tank Name:	2
Tag Number:	A0477
Tank Status:	Removed
Tank Status Date:	10/12/2007
Tank Install Date:	00/01/1985
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	02/28/2010
Tank Upgrade Date:	02/11/1998

TEXACO 63-232-1486 (Continued) **U003027013**

Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Annual
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Interstitial Monitoring (or Sump Sensor)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	3
Tag Number:	A0477
Tank Status:	Removed
Tank Status Date:	10/12/2007
Tank Install Date:	00/01/1985
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	02/28/2010
Tank Upgrade Date:	02/11/1998
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Annual
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Interstitial Monitoring (or Sump Sensor)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	4
Tag Number:	A0477
Tank Status:	Removed
Tank Status Date:	10/12/2007
Tank Install Date:	00/01/1985
Tank Closure Date:	Not reported
Capacity Range:	5,000 to 9,999 Gallons
Tank Permit Expiration Date:	02/28/2010
Tank Upgrade Date:	02/11/1998
Tank Spill Prevention:	Spill Bucket/Spill Box

TEXACO 63-232-1486 (Continued) **U003027013**

Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Annual
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Automatic Tank Gauging
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Interstitial Monitoring (or Sump Sensor)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	5
Tag Number:	A0477
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1985
Tank Closure Date:	Not reported
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	None
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	6
Tag Number:	A0477
Tank Status:	Exempt
Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	Not reported
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported

TEXACO 63-232-1486 (Continued) **U003027013**

Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Not reported
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

ALLSITES:

Facility Name:	SHELL OIL PRODUCTS US SAP 121050
Facility Id:	27316879

Interaction:	35440
Interaction 1:	I
Interaction 2:	TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	WAD988502845
Date Interaction:	1991-01-01 00:00:00
Date Interaction 3:	Emergency/Haz Chem Rpt TI
Latitude:	47.343092620999997
Longitude:	-122.311881105

Interaction:	35442
Interaction 1:	I
Interaction 2:	LUST
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	4479
Date Interaction:	1992-12-04 00:00:00
Date Interaction 3:	LUST Facility
Latitude:	47.343092620999997
Longitude:	-122.311881105

Interaction:	35444
Interaction 1:	I
Interaction 2:	HWG
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988502845
Date Interaction:	2008-07-31 00:00:00
Date Interaction 3:	Hazardous Waste Generator
Latitude:	47.343092620999997
Longitude:	-122.311881105

TEXACO 63-232-1486 (Continued) **U003027013**

Interaction:	35441
Interaction 1:	I
Interaction 2:	HWG
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	SHELL OIL PRODUCTS US SAP 121050
Program ID:	WAD988502845
Date Interaction:	1992-03-09 00:00:00
Date Interaction 3:	Hazardous Waste Generator
Latitude:	47.343092620999997
Longitude:	-122.311881105

Interaction:	89960
Interaction 1:	I
Interaction 2:	HWOTHER
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Shell Oil Products US SAP 121050
Program ID:	WAD988502845
Date Interaction:	2009-12-31 00:00:00
Date Interaction 3:	Haz Waste Management Acti
Latitude:	47.343092620999997
Longitude:	-122.311881105

Interaction:	35443
Interaction 1:	I
Interaction 2:	UST
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	4479
Date Interaction:	2000-03-20 00:00:00
Date Interaction 3:	Underground Storage Tank
Latitude:	47.343092620999997
Longitude:	-122.311881105

Interaction:	98271
Interaction 1:	A
Interaction 2:	INDPNDNT
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Shell 121050
Program ID:	Not reported
Date Interaction:	2010-12-20 00:00:00
Date Interaction 3:	Independent Cleanup
Latitude:	47.343092620999997
Longitude:	-122.311881105

SPILLS:

Facility ID:	609586
Medium:	Not reported
Material Desc:	PETROLEUM - GASOLINE
Material Qty:	Not reported

TEXACO 63-232-1486 (Continued) **U003027013**

Material Units:	Not reported
Date Received:	11/15/2008
Contact Name:	UNKNOWN
Incident Date:	Not reported
Incident Category Type:	Not reported
Incident Category:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Source Type:	Not reported
Source:	Not reported
Vessel Facility Name2:	Not reported
Recovered Quantity:	Not reported
Resp Party Name:	Not reported

WA MANIFEST:

Facility Site ID Number:	27316879
EPA ID:	WAD988502845
NAICS:	44711
SWC Desc:	Not reported
FWC Desc:	D001, D018
Form Comm:	Not reported
Data Year:	2008
Permit by Rule:	False
Treatment by Generator:	False
Mixed radioactive waste:	False
Importer of hazardous waste:	False
Immediate recycler:	False
Treatment/Storage/Disposal/Recycling Facility:	False
Generator of dangerous fuel waste:	False
Generator marketing to burner:	False
Other marketers (i.e., blender, distributor, etc.):	False
Utility boiler burner:	False
Industry boiler burner:	False
Industrial Furnace:	False
Smelter defferal:	False
Universal waste - batteries - generate:	False
Universal waste - thermostats - generate:	False
Universal waste - mercury - generate:	False
Universal waste - lamps - generate:	False
Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
Tax Reg #:	409019185
Business Type:	Gasoline Service Station
Mail Name:	Shell Oil Products US
Mail addr line1:	12700 Northborough Dr NOB 300 F08
Mail city,st,zip:	Houston, TX 77067
Mail country:	UNITED STATES
Legal org name:	Equilon Enterprises LLC dba Shell Oil Pr
Legal org type:	Private
Legal addr line1:	PO Box 2099
Legal city,st,zip:	Houston, TX 77252

TEXACO 63-232-1486 (Continued) **U003027013**

Legal country:	UNITED STATES
Legal phone nbr:	(281)874-2247
Legal effective date:	03/02/2001
Land org name:	Equilon Enterprises LLC dba Shell Oil Pr
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 2099
Land city,st,zip:	Houston, TX 77252
Land country:	UNITED STATES
Land phone nbr:	(281)874-2247
Operator org name:	Shell Oil Products US
Operator org type:	Private
Operator addr line1:	PO BOX 2099
Operator city,st,zip:	Houston, TX 77252
Operator country:	UNITED STATES
Operator phone nbr:	(281)874-2247
Operator effective date:	03/02/2001
Site contact name:	Ray Walding
Site contact addr line1:	12700 Northborough Dr NOB 300 F08
Site Contact City/State/ Zip:	Houston, TX 77067
Site Contact Country:	UNITED STATES
Site Contact Phone #:	(281)874-2247
Site Contact EMail:	ray.walding@shell.com
Form Contact NAME:	Rachel Hull
Form Contact ADDR LINE1:	12700 Northborough Dr NOB 300 G04
Form Contact City,ST,Zip:	Houston, TX 77067
Form Contact Country:	UNITED STATES
Form Contact Phone #:	(281)874-2224
Form Contact EMail:	rachel.hull@shell.com
Gen Status CD:	LQG
Monthly Generation:	False
Batch Generation:	False
One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

Waste Streams Generated:

Facility ID:	27316879
Data Year:	2008
Description:	RINSATE - GASOLINE
Mix:	False
Reported Qty:	2410.3000000000002 LB
Kilo Qty:	1093.3120988049682
Density No:	0
Density Qty:	Not reported

TEXACO 63-232-1486 (Continued) **U003027013**

Shipments Sent:

Facility ID:	27316879
Data Year:	2008
Shipment sent data:	11/12/2008
Reported Qty:	2410.3 LB
Kilo Qty:	1093.31209880497

Facility Site ID Number:	27316879
EPA ID:	WAD988502845
NAICS:	447110
SWC Desc:	Not reported
FWC Desc:	Not reported
Form Comm:	Not reported
Data Year:	2009
Permit by Rule:	False
Treatment by Generator:	False
Mixed radioactive waste:	False
Importer of hazardous waste:	False
Immediate recycler:	False
Treatment/Storage/Disposal/Recycling Facility:	False
Generator of dangerous fuel waste:	False
Generator marketing to burner:	False
Other marketers (i.e., blender, distributor, etc.):	False
Utility boiler burner:	False
Industry boiler burner:	False
Industrial Furnace:	False
Smelter defferal:	False
Universal waste - batteries - generate:	False
Universal waste - thermostats - generate:	False
Universal waste - mercury - generate:	False
Universal waste - lamps - generate:	False
Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
Tax Reg #:	409019185
Business Type:	Gasoline Service Station
Mail Name:	Shell Oil Products US
Mail addr line1:	P O Box 3127
Mail city,st,zip:	Houston, TX 77253
Mail country:	UNITED STATES
Legal org name:	Equilon Enterprises LLC dba Shell Oil Pr
Legal org type:	Private
Legal addr line1:	PO Box 2099
Legal city,st,zip:	Houston, TX 77252
Legal country:	UNITED STATES
Legal phone nbr:	713-241-7008
Legal effective date:	03/02/2001
Land org name:	Equilon Enterprises LLC dba Shell Oil Pr
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 2099

TEXACO 63-232-1486 (Continued) **U003027013**

Land city,st,zip:	Houston, TX 77252
Land country:	UNITED STATES
Land phone nbr:	713-241-7008
Operator org name:	Shell Oil Products US
Operator org type:	Private
Operator addr line1:	PO BOX 2099
Operator city,st,zip:	Houston, TX 77252
Operator country:	UNITED STATES
Operator phone nbr:	713-241-7008
Operator effective date:	03/02/2001
Site contact name:	Ray Walding
Site contact addr line1:	P O Box 3127
Site Contact City/State/ Zip:	Houston, TX 77253
Site Contact Country:	UNITED STATES
Site Contact Phone #:	713-241-7008
Site Contact EMail:	ray.walding@shell.com
Form Contact NAME:	JEANNE' TRAYLOR
Form Contact ADDR LINE1:	P O Box 3127, Rm 685
Form Contact City,ST,Zip:	Houston, TX 77253
Form Contact Country:	UNITED STATES
Form Contact Phone #:	713-241-6992
Form Contact EMail:	JEANNE.TRAYLOR@SHELL.COM
Gen Status CD:	XQG
Monthly Generation:	False
Batch Generation:	False
One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

Waste Streams Generated:

Facility ID:	27316879
Data Year:	2008
Description:	RINSATE - GASOLINE
Mix:	False
Reported Qty:	2410.3000000000002 LB
Kilo Qty:	1093.3120988049682
Density No:	0
Density Qty:	Not reported

Shipments Sent:

Facility ID:	27316879
Data Year:	2008
Shipment sent data:	11/12/2008
Reported Qty:	2410.3 LB
Kilo Qty:	1093.31209880497

TEXACO 63-232-1486 (Continued) **U003027013**

Facility Site ID Number:	27316879
EPA ID:	WAD988502845
NAICS:	447110
SWC Desc:	Not reported
FWC Desc:	Not reported
Form Comm:	Not reported
Data Year:	2010
Permit by Rule:	False
Treatment by Generator:	False
Mixed radioactive waste:	False
Importer of hazardous waste:	False
Immediate recycler:	False
Treatment/Storage/Disposal/Recycling Facility:	False
Generator of dangerous fuel waste:	False
Generator marketing to burner:	False
Other marketers (i.e., blender, distributor, etc.):	False
Utility boiler burner:	False
Industry boiler burner:	False
Industrial Furnace:	False
Smelter defferal:	False
Universal waste - batteries - generate:	False
Universal waste - thermostats - generate:	False
Universal waste - mercury - generate:	False
Universal waste - lamps - generate:	False
Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
Tax Reg #:	409019185
Business Type:	Gasoline Service Station
Mail Name:	Shell Oil Products US
Mail addr line1:	P O Box 3127
Mail city,st,zip:	Houston, TX 77253
Mail country:	UNITED STATES
Legal org name:	Equilon Enterprises LLC dba Shell Oil Pr
Legal org type:	Private
Legal addr line1:	PO Box 2099
Legal city,st,zip:	Houston, TX 77252
Legal country:	UNITED STATES
Legal phone nbr:	713-241-7008
Legal effective date:	03/02/2001
Land org name:	Equilon Enterprises LLC dba Shell Oil Pr
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 2099
Land city,st,zip:	Houston, TX 77252
Land country:	UNITED STATES
Land phone nbr:	713-241-7008
Operator org name:	Shell Oil Products US
Operator org type:	Private
Operator addr line1:	PO BOX 2099
Operator city,st,zip:	Houston, TX 77252
Operator country:	UNITED STATES

TEXACO 63-232-1486 (Continued) **U003027013**

Operator phone nbr:	713-241-7008
Operator effective date:	03/02/2001
Site contact name:	Ray Walding
Site contact addr line1:	P O Box 3127
Site Contact City/State/ Zip:	Houston, TX 77253
Site Contact Country:	UNITED STATES
Site Contact Phone #:	713-241-7008
Site Contact EMail:	ray.walding@shell.com
Form Contact NAME:	JEANNE‘ TRAYLOR
Form Contact ADDR LINE1:	P O Box 3127, Rm 669B
Form Contact City,ST,Zip:	Houston, TX 77253
Form Contact Country:	UNITED STATES
Form Contact Phone #:	713-241-6992
Form Contact EMail:	JEANNE.TRAYLOR@SHELL.COM
Gen Status CD:	XQG
Monthly Generation:	False
Batch Generation:	False
One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

Waste Streams Generated:

Facility ID:	27316879
Data Year:	2008
Description:	RINSATE - GASOLINE
Mix:	False
Reported Qty:	2410.3000000000002 LB
Kilo Qty:	1093.3120988049682
Density No:	0
Density Qty:	Not reported

Shipments Sent:

Facility ID:	27316879
Data Year:	2008
Shipment sent data:	11/12/2008
Reported Qty:	2410.3 LB
Kilo Qty:	1093.31209880497

28
ENE
1/2-1
0.640 mi.
3379 ft.

Relative:
Lower

Actual:
419 ft.

BREWER PROPERTY
29260 MILITARY RD S
FEDERAL WAY, WA 98003

CSCSL **S107747470**
ALLSITES **N/A**

CSCSL:

Facility ID:	3641376
Region:	Northwest
Lat/Long:	47.338989 / -122.299789
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	245
Site Status:	Awaiting Cleanup
PSI?:	Not reported
Contaminant Name:	Halogenated Organics
Ground Water:	Not reported
Surface Water:	Not reported
Soil:	Suspected
Sediment:	Not reported
Air:	Suspected
Bedrock:	Not reported
Responsible Unit:	Northwest

ALLSITES:

Facility Name:	BREWER PROPERTY
Facility Id:	3641376
Interaction:	13103
Interaction 1:	A
Interaction 2:	SCS
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Brewer Property
Program ID:	Not reported
Date Interaction:	2006-03-29 00:00:00
Date Interaction 3:	State Cleanup Site
Latitude:	47.338983392999999
Longitude:	-122.299774175

29
NE
1/2-1
0.716 mi.
3780 ft.

Relative:
Higher

Actual:
455 ft.

CHEVRON USA INC SS 98473
28806 MILITARY RD S
FEDERAL WAY, WA 98003

CSCSL **1000658913**
LUST **WAD988485702**
UST
ICR
ALLSITES
RCRA NonGen / NLR
FINDS
ECHO

CSCSL:

Facility ID:	36449927
Region:	Northwest
Lat/Long:	47.34286 / -122.30073
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	5951
Site Status:	Cleanup Started
PSI?:	Not reported

CHEVRON USA INC SS 98473 (Continued) **1000658913**

Contaminant Name:	Benzene
Ground Water:	Confirmed Above Cleanup Level
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest
Facility ID:	36449927
Region:	Northwest
Lat/Long:	47.34286 / -122.30073
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	5951
Site Status:	Cleanup Started
PSI?:	Not reported
Contaminant Name:	Lead
Ground Water:	Confirmed Above Cleanup Level
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest
Facility ID:	36449927
Region:	Northwest
Lat/Long:	47.34286 / -122.30073
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	5951
Site Status:	Cleanup Started
PSI?:	Not reported
Contaminant Name:	Non-Halogenated Solvents
Ground Water:	Confirmed Above Cleanup Level
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest
Facility ID:	36449927
Region:	Northwest
Lat/Long:	47.34286 / -122.30073
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	5951
Site Status:	Cleanup Started
PSI?:	Not reported
Contaminant Name:	Petroleum-Diesel
Ground Water:	Confirmed Above Cleanup Level
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported

CHEVRON USA INC SS 98473 (Continued) **1000658913**

Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 36449927
Region: Northwest
Lat/Long: 47.34286 / -122.30073
Brownfield Status: Not reported
Rank Status: N
Clean Up Siteid: 5951
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Gasoline
Ground Water: Confirmed Above Cleanup Level
Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

LUST:
Facility ID: 36449927
Lust Status Type: Cleanup Started
Cleanup Site ID: 5951
Cleanup Unit Type: Upland
Process Type: Independent Action
Cleanup Unit Name: Chevron 98473
Lust Status Date: 06/01/1995
Response Section: Northwest
Lat/Long: 47.34286 / -122.30073

UST:
Facility ID: 36449927
Site Id: 5248
UBI: Not reported
Phone Number: Not reported
Decimal Latitude: 47.34286
Decimal Longitude: -122.30073

Tank Name: 1
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 10/29/1997
Tank Install Date: 00/01/1982
Tank Closure Date: 10/29/1997
Capacity Range: 5,000 to 9,999 Gallons
Tank Permit Expiration Date: 09/30/1998
Tank Upgrade Date: Not reported
Tank Spill Prevention: None
Tank Overfill Prevention: Ball Float Valve (vent line)
Tank Material: Fiberglass Reinforced Plastic
Tank Construction: Single Wall Tank
Tank Tightness Test: Annual
Tank Corrosion Protection: Corrosion Resistant
Tank Manifold: Not reported
Tank Release Detection: Manual Inventory Control (daily)

CHEVRON USA INC SS 98473 (Continued) **1000658913**

Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	2
Tag Number:	Not reported
Tank Status:	Removed
Tank Status Date:	10/29/1997
Tank Install Date:	00/01/1982
Tank Closure Date:	10/29/1997
Capacity Range:	5,000 to 9,999 Gallons
Tank Permit Expiration Date:	09/30/1998
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	None
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Annual
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	3
Tag Number:	Not reported
Tank Status:	Removed
Tank Status Date:	10/29/1997
Tank Install Date:	00/01/1982
Tank Closure Date:	10/29/1997
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	09/30/1998
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	None
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Annual
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported

CHEVRON USA INC SS 98473 (Continued) **1000658913**

Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	4
Tag Number:	Not reported
Tank Status:	Removed
Tank Status Date:	10/29/1997
Tank Install Date:	00/01/1982
Tank Closure Date:	10/29/1997
Capacity Range:	5,000 to 9,999 Gallons
Tank Permit Expiration Date:	09/30/1998
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	None
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Annual
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	5
Tag Number:	Not reported
Tank Status:	Removed
Tank Status Date:	10/29/1997
Tank Install Date:	00/31/1964
Tank Closure Date:	10/29/1997
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass

CHEVRON USA INC SS 98473 (Continued) **1000658913**

Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	6
Tag Number:	Not reported
Tank Status:	Removed
Tank Status Date:	10/29/1997
Tank Install Date:	00/10/1982
Tank Closure Date:	10/29/1997
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	09/30/1998
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	25 Gallons or Less
Tank Overfill Prevention:	25 Gallons or less
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Annual
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Weekly Manual Gauging
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Product Removed by Reclaimer
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	7
Tag Number:	Not reported
Tank Status:	Closed in Place
Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Steel
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Steel
Pipe Construction:	Not reported

CHEVRON USA INC SS 98473 (Continued) **1000658913**

Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Pipe Pumping System: Not reported
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

ICR:
Date Ecology Received Report: 03/12/98
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-02
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 03/12/98
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-01
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 03/05/98
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-03
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 08/07/98
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-14
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 06/05/00
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Waste Management: Tank
Region: North Western

CHEVRON USA INC SS 98473 (Continued) **1000658913**

Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-28
County Code:	17
Contact:	Not reported
Report Title:	Sampling - March 2000

Date Ecology Received Report:	08/18/94
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	93-35
County Code:	17
Contact:	Not reported
Report Title:	Not reported

Date Ecology Received Report:	02/12/01
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-42
County Code:	17
Contact:	Not reported
Report Title:	Ground Water Monitoring - December 2000

Date Ecology Received Report:	01/03/01
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-32
County Code:	17
Contact:	Not reported
Report Title:	Ground Water Monitoring and Sampling Report

Date Ecology Received Report:	05/30/01
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-37
County Code:	17
Contact:	Not reported
Report Title:	Ground Water Monitoring and Sampling - 3/29/01

Date Ecology Received Report:	03/19/01
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-37

CHEVRON USA INC SS 98473 (Continued) **1000658913**

County Code: 17
Contact: Not reported
Report Title: Monitoring - June 2000

Date Ecology Received Report: 12/13/02
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-55
County Code: 17
Contact: Not reported
Report Title: October 2002 Ground Water Monitoring

ALLSITES:
Facility Name: CHEVRON USA INC SS 98473
Facility Id: 36449927

Interaction: 40660
Interaction 1: A
Interaction 2: LUST
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 5248
Date Interaction: 1994-04-07 00:00:00
Date Interaction 3: LUST Facility
Latitude: 47.342854393000003
Longitude: -122.300715174

Interaction: 40661
Interaction 1: I
Interaction 2: UST
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 5248
Date Interaction: 2000-03-20 00:00:00
Date Interaction 3: Underground Storage Tank
Latitude: 47.342854393000003
Longitude: -122.300715174

Interaction: 40658
Interaction 1: I
Interaction 2: TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: WAD988485702
Date Interaction: 1988-01-01 00:00:00
Date Interaction 3: Emergency/Haz Chem Rpt TI
Latitude: 47.342854393000003
Longitude: -122.300715174

CHEVRON USA INC SS 98473 (Continued) **1000658913**

Interaction:	40659
Interaction 1:	I
Interaction 2:	HWG
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988485702
Date Interaction:	1991-05-08 00:00:00
Date Interaction 3:	Hazardous Waste Generator
Latitude:	47.342854393000003
Longitude:	-122.300715174

Interaction:	40662
Interaction 1:	I
Interaction 2:	VOLCLNST
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Chevron USA Inc SS 98473
Program ID:	NW1568
Date Interaction:	2006-02-07 00:00:00
Date Interaction 3:	Voluntary Cleanup Sites
Latitude:	47.342854393000003
Longitude:	-122.300715174

RCRA NonGen / NLR:

Date form received by agency:	10/12/1998
Facility name:	Not reported
Facility address:	28806 MILITARY RD S FEDERAL WAY, WA 98003
EPA ID:	WAD988485702
Mailing address:	PO BOX 8317 FEDERAL WAY, WA 98003-0317
Contact:	CHEVRON PRODUCT CHEVRON PRODUCT
Contact address:	PO BOX 8317 FEDERAL WAY, WA 98003-0317
Contact country:	US
Contact telephone:	(000)000-0000
Contact email:	Not reported
EPA Region:	Not reported
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	CHEVRON INC C
Owner/operator address:	28806 MILITARY RD S FEDERAL WAY, WA 98003
Owner/operator country:	US
Owner/operator telephone:	(000)000-0000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	05/02/1996
Owner/Op end date:	Not reported

CHEVRON USA INC SS 98473 (Continued) **1000658913**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 10/12/1998
Site name: CHEVRON USA INC SS 98473
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 10/17/1991
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110005360554

Environmental Interest/Information System
Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington Department of Ecology. This system contains key information for each facility/site that is currently, or has been, of interest to the Air Quality, Dam Safety, Hazardous Waste, Toxics Cleanup, and Water Quality Programs.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000658913

CHEVRON USA INC SS 98473 (Continued) **1000658913**

Registry ID: 110005360554
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110005360554

30
SW
1/2-1
0.775 mi.
4091 ft.

NIEDERLE PROPERTY
455 S 305TH ST
FEDERAL WAY, WA 98003

HSL **1007080409**
CSCSL **N/A**
ALLSITES
FINDS

Relative:
Lower

Actual:
399 ft.

HSL:

edr_fstat:	WA
edr_fzip:	Not reported
edr_fcnty:	KING
edr_zip:	Not reported
Facility Type:	**Hazardous Sites List**
Facility Status:	Awaiting Cleanup
FSID Number:	2579
Rank:	5
Region:	NW
EDR Link ID:	2579
Region Decode:	NORTHWEST REGIONAL OFFICE

CSCSL:

Facility ID:	2579
Region:	Northwest
Lat/Long:	47.32859 / -122.32703
Brownfield Status:	Not reported
Rank Status:	5
Clean Up Siteid:	297
Site Status:	Awaiting Cleanup
PSI?:	Not reported
Contaminant Name:	Conventional Contaminants, Organic
Ground Water:	Not reported
Surface Water:	Not reported
Soil:	Suspected
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

Facility ID:	2579
Region:	Northwest
Lat/Long:	47.32859 / -122.32703
Brownfield Status:	Not reported
Rank Status:	5
Clean Up Siteid:	297
Site Status:	Awaiting Cleanup
PSI?:	Not reported
Contaminant Name:	Metals Priority Pollutants
Ground Water:	Not reported
Surface Water:	Not reported
Soil:	Suspected
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

NIEDERLE PROPERTY (Continued) **1007080409**

Facility ID:	2579
Region:	Northwest
Lat/Long:	47.32859 / -122.32703
Brownfield Status:	Not reported
Rank Status:	5
Clean Up Siteid:	297
Site Status:	Awaiting Cleanup
PSI?:	Not reported
Contaminant Name:	Petroleum Products-Unspecified
Ground Water:	Suspected
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

ALLSITES:

Facility Name:	NIEDERLE PROPERTY
Facility Id:	2579

Interaction:	4876
Interaction 1:	A
Interaction 2:	SCS
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	NIEDERLE PROPERTY
Program ID:	Not reported
Date Interaction:	1900-01-01 00:00:00
Date Interaction 3:	State Cleanup Site
Latitude:	47.328584395999997
Longitude:	-122.32701517300001

FINDS:

Registry ID: 110015571282

Environmental Interest/Information System

Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington Department of Ecology. This system contains key information for each facility/site that is currently, or has been, of interest to the Air Quality, Dam Safety, Hazardous Waste, Toxics Cleanup, and Water Quality Programs.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

31
NE
1/2-1
0.785 mi.
4143 ft.

CONOCOPHILLIPS COMPANY 2611068
28718 MILITARY RD
FEDERAL WAY, WA 98003

CSCSL **U000801899**
LUST **N/A**
UST
VCP
ALLSITES

Relative:
Higher

Actual:
463 ft.

CSCSL:

Facility ID:	64882187
Region:	Northwest
Lat/Long:	47.34373 / -122.30075
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	10028
Site Status:	Cleanup Started
PSI?:	Not reported
Contaminant Name:	Benzene
Ground Water:	Confirmed Above Cleanup Level
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

Facility ID:	64882187
Region:	Northwest
Lat/Long:	47.34373 / -122.30075
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	10028
Site Status:	Cleanup Started
PSI?:	Not reported
Contaminant Name:	Petroleum-Gasoline
Ground Water:	Confirmed Above Cleanup Level
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

LUST:

Facility ID:	64882187
Lust Status Type:	Cleanup Started
Cleanup Site ID:	10028
Cleanup Unit Type:	Upland
Process Type:	Voluntary Cleanup Program
Cleanup Unit Name:	ARCO 11068
Lust Status Date:	06/01/1995
Response Section:	Northwest
Lat/Long:	47.34373 / -122.30075

UST:

Facility ID:	64882187
Site Id:	10173
UBI:	Not reported
Phone Number:	Not reported
Decimal Latitude:	47.34373

CONOCOPHILLIPS COMPANY 2611068 (Continued) **U000801899**

Decimal Longitude: -122.30075

Tank Name: 1
Tag Number: A0863
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1972
Tank Closure Date: Not reported
Capacity Range: Not reported
Tank Permit Expiration Date: Not reported
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Not reported
Tank Manifold: Not reported
Tank Release Detection: Not reported
Tank SFC Type: Not reported
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Pipe Pumping System: Pressurized System
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 2
Tag Number: A0863
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1970
Tank Closure Date: Not reported
Capacity Range: Not reported
Tank Permit Expiration Date: Not reported
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Not reported
Tank Manifold: Not reported
Tank Release Detection: Manual Inventory Control (daily)
Tank SFC Type: Not reported
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Pipe Pumping System: Pressurized System
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

CONOCOPHILLIPS COMPANY 2611068 (Continued) **U000801899**

Tank Name:	3
Tag Number:	A0863
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1970
Tank Closure Date:	Not reported
Capacity Range:	Not reported
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Steel
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported
Pipe Material:	Steel
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	4
Tag Number:	A0863
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1970
Tank Closure Date:	Not reported
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Steel
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported
Pipe Material:	Steel
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	REGULAR

CONOCOPHILLIPS COMPANY 2611068 (Continued) **U000801899**

Tag Number:	A0863
Tank Status:	Removed
Tank Status Date:	07/29/2003
Tank Install Date:	00/01/1990
Tank Closure Date:	04/13/2005
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	08/31/2006
Tank Upgrade Date:	01/15/1998
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	SUPER
Tag Number:	A0863
Tank Status:	Removed
Tank Status Date:	07/29/2003
Tank Install Date:	00/01/1990
Tank Closure Date:	04/13/2005
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	08/31/2006
Tank Upgrade Date:	01/15/1998
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	UNLEADED
Tag Number:	A0863

CONOCOPHILLIPS COMPANY 2611068 (Continued) **U000801899**

Tank Status:	Removed
Tank Status Date:	07/29/2003
Tank Install Date:	00/01/1990
Tank Closure Date:	04/13/2005
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	08/31/2006
Tank Upgrade Date:	01/15/1998
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Manual Inventory Control (daily)
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	WASTE OIL
Tag Number:	A0863
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1990
Tank Closure Date:	04/13/2005
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	08/31/2006
Tank Upgrade Date:	01/15/1998
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	None
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Double Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Product Removed by Reclaimer
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

VCP:

edr_fstat:	WA
edr_fzip:	98003
edr_fcnty:	KING

CONOCOPHILLIPS COMPANY 2611068 (Continued) **U000801899**

edr_zip: Not reported
Facility ID: 64882187
VCP Status: Not reported
VCP: Yes
Ecology Status: Not reported
NFA Type: Not reported
Date NFA: Not reported
Rank: N
Cleanup Siteid: 10028

edr_fstat: WA
edr_fzip: 98003
edr_fcnty: KING
edr_zip: Not reported
Facility ID: 64882187
VCP Status: Not reported
VCP: Yes
Ecology Status: Not reported
NFA Type: Not reported
Date NFA: Not reported
Rank: N
Cleanup Siteid: 10028

ALLSITES:
Facility Name: BP SERVICE STATION 11068
Facility Id: 64882187

Interaction: 97284
Interaction 1: A
Interaction 2: VOLCLNST
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: ARCO 11068
Program ID: NW2465
Date Interaction: 2011-07-14 00:00:00
Date Interaction 3: Voluntary Cleanup Sites
Latitude: 47.343724393000002
Longitude: -122.300735174

Interaction: 56861
Interaction 1: I
Interaction 2: TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: WAD988487260
Date Interaction: 1989-01-01 00:00:00
Date Interaction 3: Emergency/Haz Chem Rpt TI
Latitude: 47.343724393000002
Longitude: -122.300735174

Interaction: 56860
Interaction 1: I
Interaction 2: UST
Ecology Program: TOXICS

CONOCOPHILLIPS COMPANY 2611068 (Continued) **U000801899**

Program Data:	UST
Facility Alt.:	Not reported
Program ID:	10173
Date Interaction:	1970-01-01 00:00:00
Date Interaction 3:	Underground Storage Tank
Latitude:	47.343724393000002
Longitude:	-122.300735174

Interaction:	56863
Interaction 1:	I
Interaction 2:	HWG
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988487260
Date Interaction:	1991-05-22 00:00:00
Date Interaction 3:	Hazardous Waste Generator
Latitude:	47.343724393000002
Longitude:	-122.300735174

Interaction:	56864
Interaction 1:	I
Interaction 2:	HWOTHER
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988487260
Date Interaction:	2004-12-31 00:00:00
Date Interaction 3:	Haz Waste Management Acti
Latitude:	47.343724393000002
Longitude:	-122.300735174

Interaction:	56862
Interaction 1:	A
Interaction 2:	LUST
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	10173
Date Interaction:	1991-05-09 00:00:00
Date Interaction 3:	LUST Facility
Latitude:	47.343724393000002
Longitude:	-122.300735174

32
South
1/2-1
0.846 mi.
4467 ft.

COOK INVESTMENT BLDG
1400 S 312TH ST
FEDERAL WAY, WA 98003

CSCSL
ALLSITES
DRYCLEANERS
Inactive Drycleaners

S107747472
N/A

Relative:
Higher

Actual:
451 ft.

CSCSL:

Facility ID:	2178787
Region:	Northwest
Lat/Long:	47.3227 / -122.31535
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	4491
Site Status:	Awaiting Cleanup
PSI?:	Not reported
Contaminant Name:	Halogenated Organics
Ground Water:	Not reported
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

Facility ID:	2178787
Region:	Northwest
Lat/Long:	47.3227 / -122.31535
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	4491
Site Status:	Awaiting Cleanup
PSI?:	Not reported
Contaminant Name:	Non-Halogenated Solvents
Ground Water:	Not reported
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

Facility ID:	2178787
Region:	Northwest
Lat/Long:	47.3227 / -122.31535
Brownfield Status:	Not reported
Rank Status:	N
Clean Up Siteid:	4491
Site Status:	Awaiting Cleanup
PSI?:	Not reported
Contaminant Name:	Petroleum Products-Unspecified
Ground Water:	Not reported
Surface Water:	Not reported
Soil:	Confirmed Above Cleanup Level
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

COOK INVESTMENT BLDG (Continued) **S107747472**

ALLSITES:

Facility Name:	COOK INVESTMENT BLDG
Facility Id:	2178787
Interaction:	9992
Interaction 1:	A
Interaction 2:	SCS
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Cook Investment Bldg
Program ID:	Not reported
Date Interaction:	2006-04-25 00:00:00
Date Interaction 3:	State Cleanup Site
Latitude:	47.322694396000003
Longitude:	-122.31533517699999

DRYCLEANERS:

EPA Id:	Not reported
FS Id:	2178787
Tax Reg Nbr:	Not reported
Business Type:	Not reported
Fed Waste Code Desc:	Not reported
State Waste Code Desc:	Not reported
Mail Name:	Not reported
Mail Line1:	Not reported
Mail Line2:	Not reported
Mail City,St,Zip:	Not reported
Mail Country:	Not reported
Legal Org Name:	Not reported
Legal Person First Name:	Not reported
Legal Person Middle Init:	Not reported
Legal Person Last Name:	Not reported
Legal Line1:	Not reported
Legal Line2:	Not reported
Legal City,St,Zip:	Not reported
Legal Country:	Not reported
Legal Phone Nbr:	Not reported
Legal Effective Date:	Not reported
Legal Organization Type:	Not reported
Land Org Name:	Not reported
Land Person First Name:	Not reported
Land Person Middle Init:	Not reported
Land Person Last Name:	Not reported
Land Line1:	Not reported
Land Line2:	Not reported
Land City,St,Zip:	Not reported
Land Country:	Not reported
Land Phone Nbr:	Not reported
Land Organization Type:	Not reported
Operator Org Name:	Not reported
Operator Person First Name:	Not reported
Operator Person Middle Init:	Not reported
Operator Person Last Name:	Not reported
Operator Line1:	Not reported
Operator Line2:	Not reported

COOK INVESTMENT BLDG (Continued) **S107747472**

Operator City,St,Zip:	Not reported
Operator Country:	Not reported
Operator Phone Nbr:	Not reported
Operator Effective Date:	Not reported
Operator Organization Type:	Not reported
Site Contact First Name:	Not reported
Site Contact Middle Init:	Not reported
Site Contact Last Name:	Not reported
Site Contact Line1:	Not reported
Site Contact Line2:	Not reported
Site Contact City,St,Zip:	Not reported
Site Contact Country:	Not reported
Site Contact Phone Nbr:	Not reported
Site Contact Email:	Not reported
Form Contact First Name:	Not reported
Form Contact Middle Init:	Not reported
Form Contact Last Name:	Not reported
Form Contact Line1:	Not reported
Form Contact Line2:	Not reported
Form Contact City,St,Zip:	Not reported
Form Contact Country:	Not reported
Form Contact Phone Nbr:	Not reported
Form Contact Email:	Not reported
Gen Status Cd:	Not reported
Monthly Generation:	Not reported
Batch Generation:	Not reported
One Time Generation:	Not reported
Transports Own Waste:	Not reported
Transports Others Waste:	Not reported
Recycler Onsite:	Not reported
Transfer Facility:	Not reported
Pbr:	Not reported
Tbg:	Not reported
Mixed Radioactive:	Not reported
Importer:	Not reported
Tsdr Facility:	Not reported
Immediate Recycler:	Not reported
Gen Dang Fuel:	Not reported
Gen Market To Burner:	Not reported
Gen Other Marketers:	Not reported
Utility Boiler Burner:	Not reported
Industry Boiler Burner:	Not reported
Furnace Burner:	Not reported
Smelter Deferral:	Not reported
Small Qty Exemption:	Not reported
Other Exemption:	Not reported
UW Battery Gen:	Not reported
UW Thermostats Gen:	Not reported
UW Mercury Gen:	Not reported
UW Lamps Gen:	Not reported
UW Battery Accum:	Not reported
UW Thermostats Accum:	Not reported
UW Mercury Accum:	Not reported
UW Lamps Accum:	Not reported
UW Destination Facility:	Not reported
Off Spec Utility Boiler:	Not reported
Off Spec Industry Boiler:	Not reported

COOK INVESTMENT BLDG (Continued) **S107747472**

Off Spec Furnace: Not reported
Used Oil Transporter: Not reported
Used Oil Transfer Facility: Not reported
Used Oil Processor: Not reported
Used Oil Rerefiner: Not reported
Used Oil Fuel Marketer Directs Shipments: Not reported
Used Oil Fuel Marketer Meets Specs: Not reported
ECO Int Type Code: SCS
Status Code: A
Start Date: 04/25/2006
End Date: Not reported
NAICS DS: Drycleaning and Laundry Services (except coin-operated)
Program Name: Not reported
FS SIC Code: Not reported
SIC DS: TOXICS
Latitude: 47.3227
Longitude: -122.31535
Comments: Not reported

INACTIVE DRYCLEANERS:
EPA I: Not reported
FS Id: 2178787
Facility ID: 2178787
NAICS Code: 81232
Fed Waste Code Desc: Not reported
State Waste Code Desc: Not reported
TAX REG NBR: Not reported
BUSINESS TYPE: Not reported
MAIL NAME: Not reported
MAIL LINE1: Not reported
MAIL LINE2: Not reported
MAIL CITY: Not reported
MAIL STATE: Not reported
MAIL ZIP: Not reported
MAIL COUNTRY: Not reported
LEGAL ORG NAME: Not reported
LEGAL PERSON FIRST NAME: Not reported
LEGAL PERSON MIDDLE INIT: Not reported
LEGAL PERSON LAST NAME: Not reported
LEGAL LINE1: Not reported
LEGAL LINE2: Not reported
LEGAL CITY: Not reported
LEGAL STATE: Not reported
LEGAL ZIP: Not reported
LEGAL COUNTRY: Not reported
LEGAL PHONE NBR: Not reported
LEGAL EFFECTIVE DATE: Not reported
LEGAL ORGANIZATION TYPE: Not reported
LAND ORG NAME: Not reported
LAND PERSON FIRST NAME: Not reported
LAND PERSON MIDDLE INIT: Not reported
LAND PERSON LAST NAME: Not reported
LAND LINE1: Not reported
LAND LINE2: Not reported
LAND CITY: Not reported
LAND STATE: Not reported
LAND ZIP: Not reported

COOK INVESTMENT BLDG (Continued) **S107747472**

LAND COUNTRY:	Not reported
LAND PHONE NBR:	Not reported
LAND ORGANIZATION TYPE:	Not reported
OPERATOR ORG NAME:	Not reported
OPERATOR PERSON FIRST NAME:	Not reported
OPERATOR PERSON MIDDLE INIT:	Not reported
OPERATOR PERSON LAST NAME:	Not reported
OPERATOR LINE1:	Not reported
OPERATOR LINE2:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR COUNTRY:	Not reported
OPERATOR PHONE NBR:	Not reported
OPERATOR EFFECTIVE DATE:	Not reported
OPERATOR ORGANIZATION TYPE:	Not reported
SITE CONTACT FIRST NAME:	Not reported
SITE CONTACT MIDDLE INIT:	Not reported
SITE CONTACT LAST NAME:	Not reported
SITE CONTACT LINE1:	Not reported
SITE CONTACT LINE2:	Not reported
SITE CONTACT CITY:	Not reported
SITE CONTACT STATE:	Not reported
SITE CONTACT ZIP:	Not reported
SITE CONTACT COUNTRY:	Not reported
SITE CONTACT PHONE NBR:	Not reported
SITE CONTACT EMAIL:	Not reported
FORM CONTACT FIRST NAME:	Not reported
FORM CONTACT MIDDLE INIT:	Not reported
FORM CONTACT LAST NAME:	Not reported
FORM CONTACT LINE1:	Not reported
FORM CONTACT LINE2:	Not reported
FORM CONTACT CITY:	Not reported
FORM CONTACT STATE:	Not reported
FORM CONTACT ZIP:	Not reported
FORM CONTACT COUNTRY:	Not reported
FORM CONTACT PHONE NBR:	Not reported
FORM CONTACT EMAIL:	Not reported
GEN STATUS CD:	Not reported
MONTHLY GENERATION:	Not reported
BATCH GENERATION:	Not reported
ONE TIME GENERATION:	Not reported
TRANSPORTS OWN WASTE:	Not reported
TRANSPORTS OTHERS WASTE:	Not reported
RECYCLER ONSITE:	Not reported
TRANSFER FACILITY:	Not reported
PBR:	Not reported
TBG:	Not reported
MIXED RADIOACTIVE:	Not reported
IMPORTER:	Not reported
TSDR FACILITY:	Not reported
IMMEDIATE RECYCLER:	Not reported
GEN DANG FUEL:	Not reported
GEN MARKET TO BURNER:	Not reported
GEN OTHER MARKETERS:	Not reported
UTILITY BOILER BURNER:	Not reported
INDUSTRY BOILER BURNER:	Not reported

COOK INVESTMENT BLDG (Continued) **S107747472**

FURNACE BURNER:	Not reported
SMELTER DEFERRAL:	Not reported
SMALL QTY EXEMPTION:	Not reported
OTHER EXEMPTION:	Not reported
UW BATTERY GEN:	Not reported
UW THERMOSTATS GEN:	Not reported
UW MERCURY GEN:	Not reported
UW LAMPS GEN:	Not reported
UW BATTERY ACCUM:	Not reported
UW THERMOSTATS ACCUM:	Not reported
UW MERCURY ACCUM:	Not reported
UW LAMPS ACCUM:	Not reported
UW DESTINATION FACILITY:	Not reported
OFF SPEC UTILITY BOILER:	Not reported
OFF SPEC INDUSTRY BOILER:	Not reported
OFF SPEC FURNACE:	Not reported
USED OIL TRANSPORTER:	Not reported
USED OIL TRANSFER FACILITY:	Not reported
USED OIL PROCESSOR:	Not reported
USED OIL REREFINER:	Not reported
USED OIL FUEL MARKETER DIR SHIPMENTS:	Not reported
USED OIL FUEL MARKETER MEETS SPECS:	Not reported
ECO Int Type Code:	SCS
Status Code:	A
Start Date:	04/25/2006
End Date:	Not reported
NAICS DS:	Drycleaning and Laundry Services (except coin-operated)
Program Name:	Not reported
FS SIC Code:	Not reported
SIC DS:	TOXICS
Latitude:	47.3227
Longitude:	-122.31535
Comments:	Not reported

33
South
1/2-1
0.869 mi.
4589 ft.

Relative:
Higher

Actual:
462 ft.

31204 PACIFIC HWY S
FEDERAL WAY, WA 98003

RCRA-SQG **1000658943**
CSCSL **WAD988486049**
LUST
UST
VCP
ALLSITES
FINDS
ECHO
Financial Assurance
MANIFEST
UIC

RCRA-SQG:

Date form received by agency:	02/21/2012
Facility name:	Not reported
Facility address:	31204 PACIFIC HWY S FEDERAL WAY, WA 98003
EPA ID:	WAD988486049
Mailing address:	PO BOX 6004 SAN RAMON, WA 94583
Contact:	STATION MANAGER
Contact address:	31204 PACIFIC HWY S FEDERAL WAY, WA 98003
Contact country:	US
Contact telephone:	(253) 946-0683

(Continued) **1000658943**

Contact email: NAWTDESK@CHEVRON.COM
EPA Region: Not reported
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CHEVRON PRODUCTS CO
Owner/operator address: 31204 PACIFIC HWY S
FEDERAL WAY, WA 98003
Owner/operator country: US
Owner/operator telephone: 253-946-0683
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1900
Owner/Op end date: Not reported

Owner/operator name: CHEVRON USA INC C
Owner/operator address: PO BOX 6004
SAN RAMON, CA 94583
Owner/operator country: US
Owner/operator telephone: (877)386-6044
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/02/1996
Owner/Op end date: Not reported

Owner/operator name: CHEVRON USA INC SS 98538
Owner/operator address: PO BOX 6004
SAN RAMON, CA 94583
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/02/1996
Owner/Op end date: Not reported

Owner/operator name: CHEVRON PRODUCTS CO
Owner/operator address: 31204 PACIFIC HWY S
FEDERAL WAY, WA 98003
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1900
Owner/Op end date: Not reported

Owner/operator name: CHEVRON USA INC SS 98538
Owner/operator address: PO BOX 6004
SAN RAMON, CA 94583
Owner/operator country: US
Owner/operator telephone: 877-386-6044
Legal status: Private
Owner/Operator Type: Owner

(Continued) **1000658943**

Owner/Op start date: 05/02/1996
Owner/Op end date: Not reported

Owner/operator name: CHEVRON PRODUCT C
Owner/operator address: 31204 PACIFIC HWY S
FEDERAL WAY, WA 98003
Owner/operator country: US
Owner/operator telephone: (253)946-0683
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1900
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Historical Generators:
Date form received by agency: 02/03/2011
Site name: CHEVRON USA INC SS 98538
Classification: Not a generator, verified

Date form received by agency: 02/11/2010
Site name: CHEVRON USA INC SS 98538
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 10/14/2009
Site name: CHEVRON USA INC SS 98538
Classification: Not a generator, verified

. Waste code: D001

(Continued) **1000658943**

. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 12/31/2007
Site name: CHEVRON USA INC SS 98538
Classification: Not a generator, verified

Date form received by agency: 12/31/2005
Site name: CHEVRON USA INC SS 98538
Classification: Not a generator, verified

Date form received by agency: 12/31/2003
Site name: CHEVRON USA INC SS 98538
Classification: Not a generator, verified

Violation Status: No violations found

CSCSL:
Facility ID: 75488972
Region: Northwest
Lat/Long: 47.32192 / -122.31311
Brownfield Status: Not reported
Rank Status: N
Clean Up Siteid: 6626
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Benzene
Ground Water: Confirmed Above Cleanup Level
Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 75488972
Region: Northwest
Lat/Long: 47.32192 / -122.31311
Brownfield Status: Not reported
Rank Status: N
Clean Up Siteid: 6626
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Lead
Ground Water: Confirmed Above Cleanup Level
Surface Water: Not reported
Soil: Not reported
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 75488972
Region: Northwest
Lat/Long: 47.32192 / -122.31311
Brownfield Status: Not reported

(Continued) **1000658943**

Rank Status: N
Clean Up Siteid: 6626
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Non-Halogenated Solvents
Ground Water: Confirmed Above Cleanup Level
Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 75488972
Region: Northwest
Lat/Long: 47.32192 / -122.31311
Brownfield Status: Not reported
Rank Status: N
Clean Up Siteid: 6626
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Diesel
Ground Water: Confirmed Above Cleanup Level
Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 75488972
Region: Northwest
Lat/Long: 47.32192 / -122.31311
Brownfield Status: Not reported
Rank Status: N
Clean Up Siteid: 6626
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Gasoline
Ground Water: Confirmed Above Cleanup Level
Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 75488972
Region: Northwest
Lat/Long: 47.32192 / -122.31311
Brownfield Status: Not reported
Rank Status: N
Clean Up Siteid: 6626
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Other
Ground Water: Confirmed Above Cleanup Level

(Continued) **1000658943**

Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

LUST:
Facility ID: 75488972
Lust Status Type: Cleanup Started
Cleanup Site ID: 6626
Cleanup Unit Type: Upland
Process Type: Voluntary Cleanup Program
Cleanup Unit Name: CHEVRON 98538
Lust Status Date: 06/01/1995
Response Section: Northwest
Lat/Long: 47.32192 / -122.31311

UST:
Facility ID: 75488972
Site Id: 5250
UBI: Not reported
Phone Number: Not reported
Decimal Latitude: 47.32192
Decimal Longitude: -122.31311

Tank Name: 1
Tag Number: A0748
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1984
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 07/01/1994
Tank Upgrade Date: Not reported
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Ball Float Valve (vent line)
Tank Material: Fiberglass Reinforced Plastic
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Corrosion Resistant
Tank Manifold: Not reported
Tank Release Detection: Not reported
Tank SFC Type: Not reported
Pipe Material: Fiberglass
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Pipe Pumping System: Pressurized System
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 2
Tag Number: A0748

(Continued) **1000658943**

Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Install Date:	00/10/1984
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	07/01/1994
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	3
Tag Number:	A0748
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1984
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	07/01/1994
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Ball Float Valve (vent line)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	4
Tag Number:	A0748
Tank Status:	Removed

(Continued) **1000658943**

Tank Status Date:	08/06/1996
Tank Install Date:	00/31/1964
Tank Closure Date:	Not reported
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	Not reported
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	Not reported
Tank Overfill Prevention:	Not reported
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Not reported
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Not reported
Pipe Primary Release Detection:	Not reported
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Not reported
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	5
Tag Number:	A0748
Tank Status:	Removed
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1984
Tank Closure Date:	Not reported
Capacity Range:	111 TO 1,100 Gallons
Tank Permit Expiration Date:	07/01/1994
Tank Upgrade Date:	Not reported
Tank Spill Prevention:	25 Gallons or Less
Tank Overfill Prevention:	25 Gallons or less
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Not reported
Tank SFC Type:	Not reported
Pipe Material:	Fiberglass
Pipe Construction:	Single Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Not reported
Pipe Corrosion Protection:	Not reported
Pipe Pumping System:	Product Removed by Reclaimer
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Not reported

Tank Name:	6
Tag Number:	A0748
Tank Status:	Operational
Tank Status Date:	08/06/1996

(Continued) **1000658943**

Tank Install Date:	00/01/1994
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	02/28/2017
Tank Upgrade Date:	02/06/1998
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Automatic Shutoff (fill pipe)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Double Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Interstitial Monitoring
Tank SFC Type:	Sump
Pipe Material:	Fiberglass
Pipe Construction:	Double Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Interstitial Monitoring (or Sump Sensor)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Sump

Tank Name:	7
Tag Number:	A0748
Tank Status:	Operational
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1994
Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	02/28/2017
Tank Upgrade Date:	02/06/1998
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Automatic Shutoff (fill pipe)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Double Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Interstitial Monitoring
Tank SFC Type:	Sump
Pipe Material:	Fiberglass
Pipe Construction:	Double Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Interstitial Monitoring (or Sump Sensor)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Sump

Tank Name:	8
Tag Number:	A0748
Tank Status:	Operational
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1994

(Continued) **1000658943**

Tank Closure Date:	Not reported
Capacity Range:	10,000 to 19,999 Gallons
Tank Permit Expiration Date:	02/28/2017
Tank Upgrade Date:	02/06/1998
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Automatic Shutoff (fill pipe)
Tank Material:	Fiberglass Reinforced Plastic
Tank Construction:	Double Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Corrosion Resistant
Tank Manifold:	Not reported
Tank Release Detection:	Interstitial Monitoring
Tank SFC Type:	Sump
Pipe Material:	Fiberglass
Pipe Construction:	Double Wall Pipe
Pipe Primary Release Detection:	Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection:	Interstitial Monitoring (or Sump Sensor)
Pipe Corrosion Protection:	Corrosion Resistant
Pipe Pumping System:	Pressurized System
Responsible Unit:	NORTHWEST
Dispencer/Pump SFC Type:	Sump

VCP:

edr_fstat:	WA
edr_fzip:	98003
edr_fcnty:	KING
edr_zip:	Not reported
Facility ID:	75488972
VCP Status:	Not reported
VCP:	Yes
Ecology Status:	Not reported
NFA Type:	Not reported
Date NFA:	Not reported
Rank:	N
Cleanup Siteid:	6626

edr_fstat:	WA
edr_fzip:	98003
edr_fcnty:	KING
edr_zip:	Not reported
Facility ID:	75488972
VCP Status:	Not reported
VCP:	Yes
Ecology Status:	Not reported
NFA Type:	Not reported
Date NFA:	Not reported
Rank:	N
Cleanup Siteid:	6626

edr_fstat:	WA
edr_fzip:	98003
edr_fcnty:	KING
edr_zip:	Not reported
Facility ID:	75488972
VCP Status:	Not reported
VCP:	Yes
Ecology Status:	Not reported

(Continued) **1000658943**

NFA Type: Not reported
Date NFA: Not reported
Rank: N
Cleanup Siteid: 6626

edr_fstat: WA
edr_fzip: 98003
edr_fcnty: KING
edr_zip: Not reported
Facility ID: 75488972
VCP Status: Not reported
VCP: Yes
Ecology Status: Not reported
NFA Type: Not reported
Date NFA: Not reported
Rank: N
Cleanup Siteid: 6626

edr_fstat: WA
edr_fzip: 98003
edr_fcnty: KING
edr_zip: Not reported
Facility ID: 75488972
VCP Status: Not reported
VCP: Yes
Ecology Status: Not reported
NFA Type: Not reported
Date NFA: Not reported
Rank: N
Cleanup Siteid: 6626

edr_fstat: WA
edr_fzip: 98003
edr_fcnty: KING
edr_zip: Not reported
Facility ID: 75488972
VCP Status: Not reported
VCP: Yes
Ecology Status: Not reported
NFA Type: Not reported
Date NFA: Not reported
Rank: N
Cleanup Siteid: 6626

ALLSITES:
Facility Name: CHEVRON USA INC SS 98538
Facility Id: 75488972

Interaction: 62845
Interaction 1: I
Interaction 2: HWG
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988486049
Date Interaction: 1991-05-08 00:00:00
Date Interaction 3: Hazardous Waste Generator

(Continued) **1000658943**

Latitude: 47.321914395
Longitude: -122.31309517699999

Interaction: 62852
Interaction 1: I
Interaction 2: HWOTHER
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988486049
Date Interaction: 2005-12-31 00:00:00
Date Interaction 3: Haz Waste Management Acti
Latitude: 47.321914395
Longitude: -122.31309517699999

Interaction: 62853
Interaction 1: I
Interaction 2: HWG
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988486049
Date Interaction: 2008-12-31 00:00:00
Date Interaction 3: Hazardous Waste Generator
Latitude: 47.321914395
Longitude: -122.31309517699999

Interaction: 99917
Interaction 1: I
Interaction 2: HWG
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Chevron USA Inc SS 98538
Program ID: WAD988486049
Date Interaction: 2011-12-31 00:00:00
Date Interaction 3: Hazardous Waste Generator
Latitude: 47.321914395
Longitude: -122.31309517699999

Interaction: 62847
Interaction 1: A
Interaction 2: LUST
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 5250
Date Interaction: 1994-08-11 00:00:00
Date Interaction 3: LUST Facility
Latitude: 47.321914395
Longitude: -122.31309517699999

Interaction: 95667

(Continued) **1000658943**

Interaction 1:	I
Interaction 2:	HWOTHER
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Chevron USA Inc SS 98538
Program ID:	WAD988486049
Date Interaction:	2011-02-03 00:00:00
Date Interaction 3:	Haz Waste Management Acti
Latitude:	47.321914395
Longitude:	-122.31309517699999

Interaction:	62850
Interaction 1:	I
Interaction 2:	HWG
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988486049
Date Interaction:	2004-12-31 00:00:00
Date Interaction 3:	Hazardous Waste Generator
Latitude:	47.321914395
Longitude:	-122.31309517699999

Interaction:	111429
Interaction 1:	A
Interaction 2:	HWOTHER
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Chevron USA Inc SS 98538
Program ID:	WAD988486049
Date Interaction:	2014-12-31 00:00:00
Date Interaction 3:	Haz Waste Management Acti
Latitude:	47.321914395
Longitude:	-122.31309517699999

Interaction:	62846
Interaction 1:	I
Interaction 2:	TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	WAD988486049
Date Interaction:	1992-01-01 00:00:00
Date Interaction 3:	Emergency/Haz Chem Rpt TI
Latitude:	47.321914395
Longitude:	-122.31309517699999

Interaction:	88593
Interaction 1:	A
Interaction 2:	VOLCLNST
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Chevron USA Inc SS 98538

(Continued) **1000658943**

Program ID:	nw2222
Date Interaction:	2009-11-20 00:00:00
Date Interaction 3:	Voluntary Cleanup Sites
Latitude:	47.321914395
Longitude:	-122.31309517699999

Interaction:	62849
Interaction 1:	I
Interaction 2:	HWOTHER
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988486049
Date Interaction:	2003-12-31 00:00:00
Date Interaction 3:	Haz Waste Management Acti
Latitude:	47.321914395
Longitude:	-122.31309517699999

Interaction:	101580
Interaction 1:	I
Interaction 2:	HWP
Ecology Program:	HAZWASTE
Program Data:	HWPPRT
Facility Alt.:	Chevron USA Inc SS 98538
Program ID:	WAD988486049
Date Interaction:	2012-05-07 00:00:00
Date Interaction 3:	Hazardous Waste Planner
Latitude:	47.321914395
Longitude:	-122.31309517699999

Interaction:	62848
Interaction 1:	A
Interaction 2:	UST
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	312 FEDERAL WAY CHEVRON
Program ID:	5250
Date Interaction:	2000-03-20 00:00:00
Date Interaction 3:	Underground Storage Tank
Latitude:	47.321914395
Longitude:	-122.31309517699999

Interaction:	62851
Interaction 1:	I
Interaction 2:	VOLCLNST
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Chevron USA Inc SS 98538
Program ID:	NW1579
Date Interaction:	2006-02-07 00:00:00
Date Interaction 3:	Voluntary Cleanup Sites
Latitude:	47.321914395
Longitude:	-122.31309517699999

(Continued) **1000658943**

FINDS:

Registry ID: 110005360698

Environmental Interest/Information System

Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington Department of Ecology. This system contains key information for each facility/site that is currently, or has been, of interest to the Air Quality, Dam Safety, Hazardous Waste, Toxics Cleanup, and Water Quality Programs.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000658943
Registry ID:	110005360698
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110005360698

WA Financial Assurance 1:

DOE Site ID:	5250
Site Type:	Self Insured
Financial Resp Type:	Self-Insurance/Guarantee
Inception Date:	04/27/2011
Expiration Date:	04/27/2012

WA MANIFEST:

Facility Site ID Number:	75488972
EPA ID:	WAD988486049
NAICS:	447110
SWC Desc:	Not reported
FWC Desc:	D001 D018
Form Comm:	Not reported
Data Year:	2010
Permit by Rule:	False
Treatment by Generator:	False
Mixed radioactive waste:	False
Importer of hazardous waste:	False
Immediate recycler:	False
Treatment/Storage/Disposal/Recycling Facility:	False
Generator of dangerous fuel waste:	False
Generator marketing to burner:	False
Other marketers (i.e., blender, distributor, etc.):	False
Utility boiler burner:	False

(Continued) **1000658943**

Industry boiler burner:	False
Industrial Furnace:	False
Smelter defferal:	False
Universal waste - batteries - generate:	False
Universal waste - thermostats - generate:	False
Universal waste - mercury - generate:	False
Universal waste - lamps - generate:	False
Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
Tax Reg #:	409018069
Business Type:	Not reported
Mail Name:	Chevron Products Co
Mail addr line1:	PO Box 6004
Mail city,st,zip:	San Ramon, CA 94583-2324
Mail country:	UNITED STATES
Legal org name:	Chevron USA Inc SS 98538
Legal org type:	Private
Legal addr line1:	PO Box 6004
Legal city,st,zip:	San Ramon, CA 94583-2324
Legal country:	UNITED STATES
Legal phone nbr:	877-386-6044
Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES
Land phone nbr:	877-386-6044
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES
Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003
Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	NAWTDesk@chevron.com
Form Contact NAME:	Jocko Rodriguez
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324
Form Contact Country:	UNITED STATES
Form Contact Phone #:	877-386-6044
Form Contact EMail:	NAWTDesk@chevron.com
Gen Status CD:	MQG
Monthly Generation:	True
Batch Generation:	False

(Continued) **1000658943**

One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

Waste Streams Generated:

Facility ID:	75488972
Data Year:	2008
Description:	SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix:	False
Reported Qty:	835 LB
Kilo Qty:	378.75600651460331
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	95 LB
Kilo Qty:	43.092000741182417
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	1461 LB
Kilo Qty:	662.70961139860538
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2010
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	325 LB
Kilo Qty:	147.42000253562406
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2010
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	2503 LB
Kilo Qty:	1135.3608195282061

(Continued) **1000658943**

Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 210 LB
Kilo Qty: 95.2560016
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2204 LB
Kilo Qty: 999.734417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Paint/Lacquer Thinner
Mix: False
Reported Qty: 42 LB
Kilo Qty: 19.0512003
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.420002
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2219 LB
Kilo Qty: 1006.53841
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes
Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0
Density Qty: Not reported

Shipments Sent:
Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB
Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010
Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00
Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00

(Continued) **1000658943**

Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB
Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972
Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

Facility Site ID Number: 75488972
EPA ID: WAD988486049
NAICS: 447110
SWC Desc: Not reported
FWC Desc: D001, D018, D035, F003
Form Comm: Not reported
Data Year: 2012
Permit by Rule: False
Treatment by Generator: False
Mixed radioactive waste: False
Importer of hazardous waste: False

(Continued) **1000658943**

Immediate recycler:	False
Treatment/Storage/Disposal/Recycling Facility:	False
Generator of dangerous fuel waste:	False
Generator marketing to burner:	False
Other marketers (i.e., blender, distributor, etc.):	False
Utility boiler burner:	False
Industry boiler burner:	False
Industrial Furnace:	False
Smelter defferal:	False
Universal waste - batteries - generate:	False
Universal waste - thermostats - generate:	False
Universal waste - mercury - generate:	False
Universal waste - lamps - generate:	False
Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
Tax Reg #:	409018069
Business Type:	Not reported
Mail Name:	Chevron Products Co
Mail addr line1:	PO Box 6004
Mail city,st,zip:	San Ramon, CA 94583-2324
Mail country:	UNITED STATES
Legal org name:	Chevron USA Inc SS 98538
Legal org type:	Private
Legal addr line1:	PO Box 6004
Legal city,st,zip:	San Ramon, CA 94583-2324
Legal country:	UNITED STATES
Legal phone nbr:	877-386-6044
Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES
Land phone nbr:	877-386-6044
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES
Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003
Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	NAWTDesk@chevron.com
Form Contact NAME:	Kathy Norris
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324

(Continued) **1000658943**

Form Contact Country:	UNITED STATES
Form Contact Phone #:	877-386-6044
Form Contact EMail:	NAWTDesk@chevron.com
Gen Status CD:	MQG
Monthly Generation:	False
Batch Generation:	True
One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

Waste Streams Generated:

Facility ID:	75488972
Data Year:	2008
Description:	SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix:	False
Reported Qty:	835 LB
Kilo Qty:	378.75600651460331
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	95 LB
Kilo Qty:	43.092000741182417
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	1461 LB
Kilo Qty:	662.70961139860538
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2010
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	325 LB
Kilo Qty:	147.42000253562406
Density No:	0
Density Qty:	Not reported

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2010
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2503 LB
Kilo Qty: 1135.3608195282061
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 210 LB
Kilo Qty: 95.2560016
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2204 LB
Kilo Qty: 999.734417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Paint/Lacquer Thinner
Mix: False
Reported Qty: 42 LB
Kilo Qty: 19.0512003
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.420002
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2219 LB
Kilo Qty: 1006.53841
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes

(Continued) **1000658943**

Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0
Density Qty: Not reported

Shipments Sent:
Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB
Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010
Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00
Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00

(Continued) **1000658943**

Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00
Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB
Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972
Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

Facility Site ID Number: 75488972
EPA ID: WAD988486049
NAICS: 44711
SWC Desc: Not reported
FWC Desc: Not reported

(Continued) **1000658943**

Form Comm:	Not reported
Data Year:	Not reported
Permit by Rule:	False
Treatment by Generator:	False
Mixed radioactive waste:	False
Importer of hazardous waste:	False
Immediate recycler:	False
Treatment/Storage/Disposal/Recycling Facility:	False
Generator of dangerous fuel waste:	False
Generator marketing to burner:	False
Other marketers (i.e., blender, distributor, etc.):	False
Utility boiler burner:	False
Industry boiler burner:	False
Industrial Furnace:	False
Smelter defferal:	False
Universal waste - batteries - generate:	False
Universal waste - thermostats - generate:	False
Universal waste - mercury - generate:	False
Universal waste - lamps - generate:	False
Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
Tax Reg #:	601357682
Business Type:	Not reported
Mail Name:	Chevron Products Co
Mail addr line1:	PO Box 6004
Mail city,st,zip:	San Ramon, CA 94583-2324
Mail country:	UNITED STATES
Legal org name:	Chevron USA Inc SS 98538
Legal org type:	Private
Legal addr line1:	PO Box 6004
Legal city,st,zip:	San Ramon, CA 94583-2324
Legal country:	UNITED STATES
Legal phone nbr:	925-842-5931
Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES
Land phone nbr:	925-842-5931
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES
Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003

(Continued) **1000658943**

Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	NAWTDesk@chevron.com
Form Contact NAME:	Kathy L Norris
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324
Form Contact Country:	UNITED STATES
Form Contact Phone #:	(925)842-5931
Form Contact EMail:	NAWTDesk@chevron.com
Gen Status CD:	XQG
Monthly Generation:	False
Batch Generation:	False
One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

Waste Streams Generated:

Facility ID:	75488972
Data Year:	2008
Description:	SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix:	False
Reported Qty:	835 LB
Kilo Qty:	378.75600651460331
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	95 LB
Kilo Qty:	43.092000741182417
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	1461 LB
Kilo Qty:	662.70961139860538
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2010
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE

(Continued) **1000658943**

Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.42000253562406
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2010
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2503 LB
Kilo Qty: 1135.3608195282061
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 210 LB
Kilo Qty: 95.2560016
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2204 LB
Kilo Qty: 999.734417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Paint/Lacquer Thinner
Mix: False
Reported Qty: 42 LB
Kilo Qty: 19.0512003
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.420002
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2219 LB
Kilo Qty: 1006.53841

(Continued) **1000658943**

Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes
Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0
Density Qty: Not reported

Shipments Sent:
Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB
Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010
Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00

(Continued) **1000658943**

Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00
Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB
Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972
Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

(Continued) **1000658943**

Facility Site ID Number:	75488972
EPA ID:	WAD988486049
NAICS:	44711
SWC Desc:	Not reported
FWC Desc:	Not reported
Form Comm:	Not reported
Data Year:	Not reported
Permit by Rule:	No
Treatment by Generator:	No
Mixed radioactive waste:	No
Importer of hazardous waste:	No
Immediate recycler:	No
Treatment/Storage/Disposal/Recycling Facility:	No
Generator of dangerous fuel waste:	No
Generator marketing to burner:	No
Other marketers (i.e., blender, distributor, etc.):	No
Utility boiler burner:	No
Industry boiler burner:	No
Industrial Furnace:	No
Smelter defferal:	No
Universal waste - batteries - generate:	No
Universal waste - thermostats - generate:	No
Universal waste - mercury - generate:	No
Universal waste - lamps - generate:	No
Universal waste - batteries - accumulate:	No
Universal waste - thermostats - accumulate:	No
Universal waste - mercury - accumulate:	No
Universal waste - lamps - accumulate:	No
Destination Facility for Universal Waste:	No
Off-specification used oil burner - utility boiler:	No
Off-specification used oil burner - industrial boiler:	No
Off-specification used oil burner - industrial furnace:	No
Tax Reg #:	601357682
Business Type:	Not reported
Mail Name:	Chevron Products Co
Mail addr line1:	PO Box 6004
Mail city,st,zip:	San Ramon, CA 94583-2324
Mail country:	UNITED STATES
Legal org name:	Chevron USA Inc SS 98538
Legal org type:	Private
Legal addr line1:	PO Box 6004
Legal city,st,zip:	San Ramon, CA 94583-2324
Legal country:	UNITED STATES
Legal phone nbr:	925-842-5931
Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES
Land phone nbr:	925-842-5931
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES

(Continued) **1000658943**

Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003
Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	Not reported
Form Contact NAME:	Diane C Aven
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324
Form Contact Country:	UNITED STATES
Form Contact Phone #:	(925)842-3426
Form Contact EMail:	aven@chevron.com
Gen Status CD:	XQG
Monthly Generation:	No
Batch Generation:	No
One Time Generation:	No
Transport Own Waste:	No
Tranports Other Waste:	No
Recycler Onsite:	No
Transfer Facility:	No
Other Exemption:	Not reported
UW Battery Gen:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Fuel Marketer Directs Shipments:	No
Used Oil Fuel Marketer Meets Specs:	No

Waste Streams Generated:

Facility ID:	75488972
Data Year:	2008
Description:	SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix:	False
Reported Qty:	835 LB
Kilo Qty:	378.75600651460331
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	95 LB
Kilo Qty:	43.092000741182417
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	1461 LB
Kilo Qty:	662.70961139860538
Density No:	0

(Continued) **1000658943**

Density Qty: Not reported

Facility ID: 75488972
Data Year: 2010
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.42000253562406
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2010
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2503 LB
Kilo Qty: 1135.3608195282061
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 210 LB
Kilo Qty: 95.2560016
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2204 LB
Kilo Qty: 999.734417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Paint/Lacquer Thinner
Mix: False
Reported Qty: 42 LB
Kilo Qty: 19.0512003
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.420002
Density No: 0
Density Qty: Not reported

Facility ID: 75488972

(Continued) **1000658943**

Data Year: 2012
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2219 LB
Kilo Qty: 1006.53841
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes
Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0
Density Qty: Not reported

Shipments Sent:
Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB
Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010
Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00

(Continued) **1000658943**

Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00
Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00
Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB
Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972
Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

Facility Site ID Number:	75488972
EPA ID:	WAD988486049
NAICS:	447110
SWC Desc:	Not reported
FWC Desc:	D001, D018
Form Comm:	Not reported
Data Year:	2013
Permit by Rule:	False
Treatment by Generator:	False
Mixed radioactive waste:	False
Importer of hazardous waste:	False
Immediate recycler:	False
Treatment/Storage/Disposal/Recycling Facility:	False
Generator of dangerous fuel waste:	False
Generator marketing to burner:	False
Other marketers (i.e., blender, distributor, etc.):	False
Utility boiler burner:	False
Industry boiler burner:	False
Industrial Furnace:	False
Smelter defferal:	False
Universal waste - batteries - generate:	False
Universal waste - thermostats - generate:	False
Universal waste - mercury - generate:	False
Universal waste - lamps - generate:	False
Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
Tax Reg #:	409018069
Business Type:	Not reported
Mail Name:	Chevron Products Co
Mail addr line1:	PO Box 6004
Mail city,st,zip:	San Ramon, CA 94583-2324
Mail country:	UNITED STATES
Legal org name:	Chevron USA Inc SS 98538
Legal org type:	Private
Legal addr line1:	PO Box 6004
Legal city,st,zip:	San Ramon, CA 94583-2324
Legal country:	UNITED STATES
Legal phone nbr:	877-386-6044
Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES

(Continued) **1000658943**

Land phone nbr:	877-386-6044
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES
Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003
Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	NAWTDesk@chevron.com
Form Contact NAME:	Kathy Norris
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324
Form Contact Country:	UNITED STATES
Form Contact Phone #:	877-386-6044
Form Contact EMail:	NAWTDesk@chevron.com
Gen Status CD:	MQG
Monthly Generation:	False
Batch Generation:	True
One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

Waste Streams Generated:

Facility ID:	75488972
Data Year:	2008
Description:	SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix:	False
Reported Qty:	835 LB
Kilo Qty:	378.75600651460331
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	95 LB
Kilo Qty:	43.092000741182417
Density No:	0
Density Qty:	Not reported

Facility ID: 75488972

(Continued) **1000658943**

Data Year: 2009
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 1461 LB
Kilo Qty: 662.70961139860538
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2010
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.42000253562406
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2010
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2503 LB
Kilo Qty: 1135.3608195282061
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 210 LB
Kilo Qty: 95.2560016
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2204 LB
Kilo Qty: 999.734417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Paint/Lacquer Thinner
Mix: False
Reported Qty: 42 LB
Kilo Qty: 19.0512003
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix: False

(Continued) **1000658943**

Reported Qty: 325 LB
Kilo Qty: 147.420002
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2219 LB
Kilo Qty: 1006.53841
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes
Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0
Density Qty: Not reported

Shipments Sent:
Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB
Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010
Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00

(Continued) **1000658943**

Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00
Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00
Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB
Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972
Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972

(Continued) **1000658943**

Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

Facility Site ID Number: 75488972
EPA ID: WAD988486049
NAICS: 44711
SWC Desc: Not reported
FWC Desc: Not reported
Form Comm: Not reported
Data Year: Not reported
Permit by Rule: FALSE
Treatment by Generator: FALSE
Mixed radioactive waste: FALSE
Importer of hazardous waste: FALSE
Immediate recycler: FALSE
Treatment/Storage/Disposal/Recycling Facility: FALSE
Generator of dangerous fuel waste: FALSE
Generator marketing to burner: FALSE
Other marketers (i.e., blender, distributor, etc.): FALSE
Utility boiler burner: FALSE
Industry boiler burner: FALSE
Industrial Furnace: FALSE
Smelter defferal: FALSE
Universal waste - batteries - generate: FALSE
Universal waste - thermostats - generate: FALSE
Universal waste - mercury - generate: FALSE
Universal waste - lamps - generate: FALSE
Universal waste - batteries - accumulate: FALSE
Universal waste - thermostats - accumulate: FALSE
Universal waste - mercury - accumulate: FALSE
Universal waste - lamps - accumulate: FALSE
Destination Facility for Universal Waste: FALSE
Off-specification used oil burner - utility boiler: FALSE
Off-specification used oil burner - industrial boiler: FALSE
Off-specification used oil burner - industrial furnace: FALSE
Tax Reg #: 601357682
Business Type: Not reported
Mail Name: Chevron Products Co
Mail addr line1: PO Box 6004
Mail city,st,zip: San Ramon, CA 94583-2324
Mail country: UNITED STATES
Legal org name: Chevron USA Inc SS 98538
Legal org type: Private
Legal addr line1: PO Box 6004
Legal city,st,zip: San Ramon, CA 94583-2324
Legal country: UNITED STATES
Legal phone nbr: 925-842-5931

(Continued) **1000658943**

Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES
Land phone nbr:	925-842-5931
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES
Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003
Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	Not reported
Form Contact NAME:	Kathy L Norris
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324
Form Contact Country:	UNITED STATES
Form Contact Phone #:	(925)842-5931
Form Contact EMail:	KNorris@chevron.com
Gen Status CD:	XQG
Monthly Generation:	FALSE
Batch Generation:	FALSE
One Time Generation:	FALSE
Transport Own Waste:	FALSE
Tranports Other Waste:	FALSE
Recycler Onsite:	FALSE
Transfer Facility:	FALSE
Other Exemption:	Not reported
UW Battery Gen:	FALSE
Used Oil Transporter:	FALSE
Used Oil Transfer Facility:	FALSE
Used Oil Processor:	FALSE
Used Oil Refiner:	FALSE
Used Oil Fuel Marketer Directs Shipments:	FALSE
Used Oil Fuel Marketer Meets Specs:	FALSE

Waste Streams Generated:

Facility ID:	75488972
Data Year:	2008
Description:	SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix:	False
Reported Qty:	835 LB
Kilo Qty:	378.75600651460331
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE

(Continued) **1000658943**

Mix: False
Reported Qty: 95 LB
Kilo Qty: 43.092000741182417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2009
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 1461 LB
Kilo Qty: 662.70961139860538
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2010
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.42000253562406
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2010
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2503 LB
Kilo Qty: 1135.3608195282061
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 210 LB
Kilo Qty: 95.2560016
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2204 LB
Kilo Qty: 999.734417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Paint/Lacquer Thinner
Mix: False
Reported Qty: 42 LB
Kilo Qty: 19.0512003

(Continued) **1000658943**

Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.420002
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2219 LB
Kilo Qty: 1006.53841
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes
Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0
Density Qty: Not reported

Shipments Sent:
Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB
Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010

(Continued) **1000658943**

Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00
Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00
Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB
Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972
Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

Facility Site ID Number: 75488972
EPA ID: WAD988486049
NAICS: 44711
SWC Desc: Not reported
FWC Desc: Not reported
Form Comm: Not reported
Data Year: 2008
Permit by Rule: False
Treatment by Generator: False
Mixed radioactive waste: False
Importer of hazardous waste: False
Immediate recycler: False
Treatment/Storage/Disposal/Recycling Facility: False
Generator of dangerous fuel waste: False
Generator marketing to burner: False
Other marketers (i.e., blender, distributor, etc.): False
Utility boiler burner: False
Industry boiler burner: False
Industrial Furnace: False
Smelter defferal: False
Universal waste - batteries - generate: False
Universal waste - thermostats - generate: False
Universal waste - mercury - generate: False
Universal waste - lamps - generate: False
Universal waste - batteries - accumulate: False
Universal waste - thermostats - accumulate: False
Universal waste - mercury - accumulate: False
Universal waste - lamps - accumulate: False
Destination Facility for Universal Waste: False
Off-specification used oil burner - utility boiler: False
Off-specification used oil burner - industrial boiler: False
Off-specification used oil burner - industrial furnace: False
Tax Reg #: 601357682
Business Type: Not reported
Mail Name: Chevron Products Co
Mail addr line1: PO Box 6004
Mail city,st,zip: San Ramon, CA 94583-2324
Mail country: UNITED STATES
Legal org name: Chevron USA Inc SS 98538

(Continued) **1000658943**

Legal org type:	Private
Legal addr line1:	PO Box 6004
Legal city,st,zip:	San Ramon, CA 94583-2324
Legal country:	UNITED STATES
Legal phone nbr:	925-842-5931
Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES
Land phone nbr:	925-842-5931
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES
Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003
Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	NAWTDesk@chevron.com
Form Contact NAME:	Kathy L Norris
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324
Form Contact Country:	UNITED STATES
Form Contact Phone #:	(925)842-5931
Form Contact EMail:	NAWTDesk@chevron.com
Gen Status CD:	MQG
Monthly Generation:	False
Batch Generation:	False
One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

Waste Streams Generated:

Facility ID:	75488972
Data Year:	2008
Description:	SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix:	False
Reported Qty:	835 LB
Kilo Qty:	378.75600651460331
Density No:	0

(Continued) **1000658943**

Density Qty: Not reported

Facility ID: 75488972
Data Year: 2009
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 95 LB
Kilo Qty: 43.092000741182417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2009
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 1461 LB
Kilo Qty: 662.70961139860538
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2010
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.42000253562406
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2010
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2503 LB
Kilo Qty: 1135.3608195282061
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 210 LB
Kilo Qty: 95.2560016
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2204 LB
Kilo Qty: 999.734417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972

(Continued) **1000658943**

Data Year: 2012
Description: Paint/Lacquer Thinner
Mix: False
Reported Qty: 42 LB
Kilo Qty: 19.0512003
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.420002
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2219 LB
Kilo Qty: 1006.53841
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes
Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0
Density Qty: Not reported

Shipments Sent:
Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB
Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010

(Continued) **1000658943**

Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010
Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00
Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00
Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB
Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972

(Continued) **1000658943**

Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

Facility Site ID Number: 75488972
EPA ID: WAD988486049
NAICS: 447110
SWC Desc: Not reported
FWC Desc: Not reported
Form Comm: Not reported
Data Year: 2014
Permit by Rule: False
Treatment by Generator: False
Mixed radioactive waste: False
Importer of hazardous waste: False
Immediate recycler: False
Treatment/Storage/Disposal/Recycling Facility: False
Generator of dangerous fuel waste: False
Generator marketing to burner: False
Other marketers (i.e., blender, distributor, etc.): False
Utility boiler burner: False
Industry boiler burner: False
Industrial Furnace: False
Smelter defferal: False
Universal waste - batteries - generate: False
Universal waste - thermostats - generate: False
Universal waste - mercury - generate: False
Universal waste - lamps - generate: False
Universal waste - batteries - accumulate: False
Universal waste - thermostats - accumulate: False
Universal waste - mercury - accumulate: False
Universal waste - lamps - accumulate: False
Destination Facility for Universal Waste: False
Off-specification used oil burner - utility boiler: False
Off-specification used oil burner - industrial boiler: False
Off-specification used oil burner - industrial furnace: False

(Continued) **1000658943**

Tax Reg #:	409018069
Business Type:	Not reported
Mail Name:	Chevron Products Co
Mail addr line1:	PO Box 6004
Mail city,st,zip:	San Ramon, CA 94583-2324
Mail country:	UNITED STATES
Legal org name:	Chevron USA Inc SS 98538
Legal org type:	Private
Legal addr line1:	PO Box 6004
Legal city,st,zip:	San Ramon, CA 94583-2324
Legal country:	UNITED STATES
Legal phone nbr:	877-386-6044
Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES
Land phone nbr:	877-386-6044
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES
Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003
Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	NAWTDesk@chevron.com
Form Contact NAME:	Kathy Norris
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324
Form Contact Country:	UNITED STATES
Form Contact Phone #:	877-386-6044
Form Contact EMail:	NAWTDesk@chevron.com
Gen Status CD:	XQG
Monthly Generation:	False
Batch Generation:	False
One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

(Continued) **1000658943**

Waste Streams Generated:

Facility ID:	75488972
Data Year:	2008
Description:	SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix:	False
Reported Qty:	835 LB
Kilo Qty:	378.75600651460331
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	95 LB
Kilo Qty:	43.092000741182417
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	1461 LB
Kilo Qty:	662.70961139860538
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2010
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	325 LB
Kilo Qty:	147.42000253562406
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2010
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	2503 LB
Kilo Qty:	1135.3608195282061
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2011
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	210 LB
Kilo Qty:	95.2560016
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2011

(Continued) **1000658943**

Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2204 LB
Kilo Qty: 999.734417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Paint/Lacquer Thinner
Mix: False
Reported Qty: 42 LB
Kilo Qty: 19.0512003
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.420002
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2219 LB
Kilo Qty: 1006.53841
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes
Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0
Density Qty: Not reported

Shipments Sent:
Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB

(Continued) **1000658943**

Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972

(Continued) **1000658943**

Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010
Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00
Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00
Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB

(Continued) **1000658943**

Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972
Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

Facility Site ID Number: 75488972
EPA ID: WAD988486049
NAICS: 447110
SWC Desc: Not reported
FWC Desc: Not reported
Form Comm: Not reported
Data Year: 2015
Permit by Rule: False
Treatment by Generator: False
Mixed radioactive waste: False
Importer of hazardous waste: False
Immediate recycler: False
Treatment/Storage/Disposal/Recycling Facility: False
Generator of dangerous fuel waste: False
Generator marketing to burner: False
Other marketers (i.e., blender, distributor, etc.): False
Utility boiler burner: False
Industry boiler burner: False
Industrial Furnace: False
Smelter defferal: False
Universal waste - batteries - generate: False
Universal waste - thermostats - generate: False
Universal waste - mercury - generate: False
Universal waste - lamps - generate: False

(Continued) **1000658943**

Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
Tax Reg #:	409018069
Business Type:	Not reported
Mail Name:	Chevron Products Co
Mail addr line1:	PO Box 6004
Mail city,st,zip:	San Ramon, CA 94583-2324
Mail country:	UNITED STATES
Legal org name:	Chevron USA Inc SS 98538
Legal org type:	Private
Legal addr line1:	PO Box 6004
Legal city,st,zip:	San Ramon, CA 94583-2324
Legal country:	UNITED STATES
Legal phone nbr:	877-386-6044
Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES
Land phone nbr:	877-386-6044
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES
Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003
Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	NAWTDesk@chevron.com
Form Contact NAME:	Waste Desk
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324
Form Contact Country:	UNITED STATES
Form Contact Phone #:	877-386-6044
Form Contact EMail:	NAWTDesk@chevron.com
Gen Status CD:	XQG
Monthly Generation:	False
Batch Generation:	False
One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False

(Continued) **1000658943**

Used Oil Transporter: False
Used Oil Transfer Facility: False
Used Oil Processor: False
Used Oil Refiner: False
Used Oil Fuel Marketer Directs Shipments: False
Used Oil Fuel Marketer Meets Specs: False

Waste Streams Generated:

Facility ID: 75488972
Data Year: 2008
Description: SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix: False
Reported Qty: 835 LB
Kilo Qty: 378.75600651460331
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2009
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 95 LB
Kilo Qty: 43.092000741182417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2009
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 1461 LB
Kilo Qty: 662.70961139860538
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2010
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.42000253562406
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2010
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2503 LB
Kilo Qty: 1135.3608195282061
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False

(Continued) **1000658943**

Reported Qty: 210 LB
Kilo Qty: 95.2560016
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2204 LB
Kilo Qty: 999.734417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Paint/Lacquer Thinner
Mix: False
Reported Qty: 42 LB
Kilo Qty: 19.0512003
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.420002
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2219 LB
Kilo Qty: 1006.53841
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes
Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0

(Continued) **1000658943**

Density Qty: Not reported

Shipments Sent:

Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB
Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010
Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00
Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00
Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00

(Continued) **1000658943**

Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB
Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972
Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

Facility Site ID Number: 75488972
EPA ID: WAD988486049
NAICS: 447110
SWC Desc: Not reported
FWC Desc: Not reported
Form Comm: Not reported
Data Year: 2009
Permit by Rule: False
Treatment by Generator: False
Mixed radioactive waste: False
Importer of hazardous waste: False
Immediate recycler: False
Treatment/Storage/Disposal/Recycling Facility: False
Generator of dangerous fuel waste: False
Generator marketing to burner: False
Other marketers (i.e., blender, distributor, etc.): False
Utility boiler burner: False

(Continued) **1000658943**

Industry boiler burner:	False
Industrial Furnace:	False
Smelter defferal:	False
Universal waste - batteries - generate:	False
Universal waste - thermostats - generate:	False
Universal waste - mercury - generate:	False
Universal waste - lamps - generate:	False
Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
Tax Reg #:	409018069
Business Type:	Not reported
Mail Name:	Chevron Products Co
Mail addr line1:	PO Box 6004
Mail city,st,zip:	San Ramon, CA 94583-2324
Mail country:	UNITED STATES
Legal org name:	Chevron USA Inc SS 98538
Legal org type:	Private
Legal addr line1:	PO Box 6004
Legal city,st,zip:	San Ramon, CA 94583-2324
Legal country:	UNITED STATES
Legal phone nbr:	925-842-5931
Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES
Land phone nbr:	925-842-3733
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES
Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003
Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	NAWTDesk@chevron.com
Form Contact NAME:	Jocko Rodriguez
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324
Form Contact Country:	UNITED STATES
Form Contact Phone #:	(925)842-5931
Form Contact EMail:	NAWTDesk@chevron.com
Gen Status CD:	MQG
Monthly Generation:	True
Batch Generation:	False

(Continued) **1000658943**

One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

Waste Streams Generated:

Facility ID:	75488972
Data Year:	2008
Description:	SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix:	False
Reported Qty:	835 LB
Kilo Qty:	378.75600651460331
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	95 LB
Kilo Qty:	43.092000741182417
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	1461 LB
Kilo Qty:	662.70961139860538
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2010
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	325 LB
Kilo Qty:	147.42000253562406
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2010
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	2503 LB
Kilo Qty:	1135.3608195282061

(Continued) **1000658943**

Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 210 LB
Kilo Qty: 95.2560016
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2204 LB
Kilo Qty: 999.734417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Paint/Lacquer Thinner
Mix: False
Reported Qty: 42 LB
Kilo Qty: 19.0512003
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.420002
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2219 LB
Kilo Qty: 1006.53841
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes
Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0
Density Qty: Not reported

Shipments Sent:
Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB
Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010
Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00
Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00

(Continued) **1000658943**

Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB
Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972
Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

Facility Site ID Number: 75488972
EPA ID: WAD988486049
NAICS: 447110
SWC Desc: Not reported
FWC Desc: Not reported
Form Comm: Not reported
Data Year: 2016
Permit by Rule: False
Treatment by Generator: False
Mixed radioactive waste: False
Importer of hazardous waste: False

(Continued) **1000658943**

Immediate recycler:	False
Treatment/Storage/Disposal/Recycling Facility:	False
Generator of dangerous fuel waste:	False
Generator marketing to burner:	False
Other marketers (i.e., blender, distributor, etc.):	False
Utility boiler burner:	False
Industry boiler burner:	False
Industrial Furnace:	False
Smelter defferal:	False
Universal waste - batteries - generate:	False
Universal waste - thermostats - generate:	False
Universal waste - mercury - generate:	False
Universal waste - lamps - generate:	False
Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
Tax Reg #:	409018069
Business Type:	Not reported
Mail Name:	Chevron Products Co
Mail addr line1:	PO Box 6004
Mail city,st,zip:	San Ramon, CA 94583-2324
Mail country:	UNITED STATES
Legal org name:	Chevron USA Inc SS 98538
Legal org type:	Private
Legal addr line1:	PO Box 6004
Legal city,st,zip:	San Ramon, CA 94583-2324
Legal country:	UNITED STATES
Legal phone nbr:	877-386-6044
Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES
Land phone nbr:	877-386-6044
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES
Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003
Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	NAWTDesk@chevron.com
Form Contact NAME:	Waste Desk
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324

(Continued) **1000658943**

Form Contact Country:	UNITED STATES
Form Contact Phone #:	877-386-6044
Form Contact EMail:	NAWTDesk@chevron.com
Gen Status CD:	XQG
Monthly Generation:	False
Batch Generation:	False
One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

Waste Streams Generated:

Facility ID:	75488972
Data Year:	2008
Description:	SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix:	False
Reported Qty:	835 LB
Kilo Qty:	378.75600651460331
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	95 LB
Kilo Qty:	43.092000741182417
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	1461 LB
Kilo Qty:	662.70961139860538
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2010
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	325 LB
Kilo Qty:	147.42000253562406
Density No:	0
Density Qty:	Not reported

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2010
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2503 LB
Kilo Qty: 1135.3608195282061
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: RAGS/PADS CONTAMINATED WITH GASOLINE
Mix: False
Reported Qty: 210 LB
Kilo Qty: 95.2560016
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2011
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2204 LB
Kilo Qty: 999.734417
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Paint/Lacquer Thinner
Mix: False
Reported Qty: 42 LB
Kilo Qty: 19.0512003
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix: False
Reported Qty: 325 LB
Kilo Qty: 147.420002
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2012
Description: spill bucket water contaminated with hydrocarbons and benzene
Mix: False
Reported Qty: 2219 LB
Kilo Qty: 1006.53841
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes

(Continued) **1000658943**

Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0
Density Qty: Not reported

Shipments Sent:
Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB
Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010
Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00
Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00

(Continued) **1000658943**

Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00
Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB
Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972
Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

Facility Site ID Number: 75488972
EPA ID: WAD988486049
NAICS: 447110
SWC Desc: Not reported
FWC Desc: Not reported

(Continued) **1000658943**

Form Comm:	Not reported
Data Year:	2011
Permit by Rule:	False
Treatment by Generator:	False
Mixed radioactive waste:	False
Importer of hazardous waste:	False
Immediate recycler:	False
Treatment/Storage/Disposal/Recycling Facility:	False
Generator of dangerous fuel waste:	False
Generator marketing to burner:	False
Other marketers (i.e., blender, distributor, etc.):	False
Utility boiler burner:	False
Industry boiler burner:	False
Industrial Furnace:	False
Smelter defferal:	False
Universal waste - batteries - generate:	False
Universal waste - thermostats - generate:	False
Universal waste - mercury - generate:	False
Universal waste - lamps - generate:	False
Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
Tax Reg #:	409018069
Business Type:	Not reported
Mail Name:	Chevron Products Co
Mail addr line1:	PO Box 6004
Mail city,st,zip:	San Ramon, CA 94583-2324
Mail country:	UNITED STATES
Legal org name:	Chevron USA Inc SS 98538
Legal org type:	Private
Legal addr line1:	PO Box 6004
Legal city,st,zip:	San Ramon, CA 94583-2324
Legal country:	UNITED STATES
Legal phone nbr:	877-386-6044
Legal effective date:	05/02/1996
Land org name:	Chevron USA Inc
Land org type:	Private
Land person name:	Not reported
Land addr line1:	PO Box 6004
Land city,st,zip:	San Ramon, CA 94583-2324
Land country:	UNITED STATES
Land phone nbr:	877-386-6044
Operator org name:	Chevron Products Co
Operator org type:	Private
Operator addr line1:	31204 Pacific Hwy S
Operator city,st,zip:	Federal Way, WA 98003
Operator country:	UNITED STATES
Operator phone nbr:	253-946-0683
Operator effective date:	Not reported
Site contact name:	Station Manager
Site contact addr line1:	31204 Pacific Hwy S
Site Contact City/State/ Zip:	Federal Way, WA 98003

(Continued) **1000658943**

Site Contact Country:	UNITED STATES
Site Contact Phone #:	253-946-0683
Site Contact EMail:	NAWTDesk@chevron.com
Form Contact NAME:	Kathy Norris
Form Contact ADDR LINE1:	PO Box 6004
Form Contact City,ST,Zip:	SAN RAMON, CA 94583-2324
Form Contact Country:	UNITED STATES
Form Contact Phone #:	877-386-6044
Form Contact EMail:	NAWTDesk@chevron.com
Gen Status CD:	MQG
Monthly Generation:	False
Batch Generation:	True
One Time Generation:	False
Transport Own Waste:	False
Tranports Other Waste:	False
Recycler Onsite:	False
Transfer Facility:	False
Other Exemption:	Not reported
UW Battery Gen:	False
Used Oil Transporter:	False
Used Oil Transfer Facility:	False
Used Oil Processor:	False
Used Oil Refiner:	False
Used Oil Fuel Marketer Directs Shipments:	False
Used Oil Fuel Marketer Meets Specs:	False

Waste Streams Generated:

Facility ID:	75488972
Data Year:	2008
Description:	SPILL BUCKET WATER CONTAMINATE WITH HYDROCARBONS & BENZENE
Mix:	False
Reported Qty:	835 LB
Kilo Qty:	378.75600651460331
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	95 LB
Kilo Qty:	43.092000741182417
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2009
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	1461 LB
Kilo Qty:	662.70961139860538
Density No:	0
Density Qty:	Not reported

Facility ID:	75488972
Data Year:	2010
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE

(Continued) **1000658943**

Mix:	False
Reported Qty:	325 LB
Kilo Qty:	147.42000253562406
Density No:	0
Density Qty:	Not reported
Facility ID:	75488972
Data Year:	2010
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	2503 LB
Kilo Qty:	1135.3608195282061
Density No:	0
Density Qty:	Not reported
Facility ID:	75488972
Data Year:	2011
Description:	RAGS/PADS CONTAMINATED WITH GASOLINE
Mix:	False
Reported Qty:	210 LB
Kilo Qty:	95.2560016
Density No:	0
Density Qty:	Not reported
Facility ID:	75488972
Data Year:	2011
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	2204 LB
Kilo Qty:	999.734417
Density No:	0
Density Qty:	Not reported
Facility ID:	75488972
Data Year:	2012
Description:	Paint/Lacquer Thinner
Mix:	False
Reported Qty:	42 LB
Kilo Qty:	19.0512003
Density No:	0
Density Qty:	Not reported
Facility ID:	75488972
Data Year:	2012
Description:	Spill Pads/Dispenser Fuel Filters/Dispenser Hoses w/Gas
Mix:	False
Reported Qty:	325 LB
Kilo Qty:	147.420002
Density No:	0
Density Qty:	Not reported
Facility ID:	75488972
Data Year:	2012
Description:	spill bucket water contaminated with hydrocarbons and benzene
Mix:	False
Reported Qty:	2219 LB
Kilo Qty:	1006.53841

(Continued) **1000658943**

Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: PCW-Petroleum Contact Water (Spill bucket and sump water, UST integrity tes
Mix: False
Reported Qty: 960 LB
Kilo Qty: 435.456007
Density No: 0
Density Qty: Not reported

Facility ID: 75488972
Data Year: 2013
Description: Spill pads, dispenser fuel filters, dispenser hoses (RCRA Hazardous)
Mix: False
Reported Qty: 140 LB
Kilo Qty: 63.5040010
Density No: 0
Density Qty: Not reported

Shipments Sent:
Facility ID: 75488972
Data Year: 2008
Shipment sent data: 10/14/2008
Reported Qty: 835 LB
Kilo Qty: 378.756006514603

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 11/24/2009
Reported Qty: 25 LB
Kilo Qty: 11.340000195048

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 70 LB
Kilo Qty: 31.7520005461344

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 12/15/2009
Reported Qty: 376 LB
Kilo Qty: 170.553602933522

Facility ID: 75488972
Data Year: 2009
Shipment sent data: 4/15/2009
Reported Qty: 1085 LB
Kilo Qty: 492.156008465083

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 75 LB
Kilo Qty: 34.020000585144

(Continued) **1000658943**

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 50 LB
Kilo Qty: 22.680000390096

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/6/2010
Reported Qty: 200 LB
Kilo Qty: 90.720001560384

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 11/11/2010
Reported Qty: 209 LB
Kilo Qty: 94.8024016306013

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 9/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 7/13/2010
Reported Qty: 459 LB
Kilo Qty: 208.202403581081

Facility ID: 75488972
Data Year: 2010
Shipment sent data: 4/8/2010
Reported Qty: 917 LB
Kilo Qty: 415.951207154361

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 60 LB
Kilo Qty: 27.2160004

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 150 LB
Kilo Qty: 68.0400011

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-11-28 00:00:00

(Continued) **1000658943**

Reported Qty: 1377 LB
Kilo Qty: 624.607210

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-08-31 00:00:00
Reported Qty: 134 LB
Kilo Qty: 60.7824010

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-03-24 00:00:00
Reported Qty: 459 LB
Kilo Qty: 208.202403

Facility ID: 75488972
Data Year: 2011
Shipment sent data: 2011-01-04 00:00:00
Reported Qty: 234 LB
Kilo Qty: 106.142401

Facility ID: 75488972
Data Year: 2012
Shipment sent data: 2012-08-15 00:00:00
Reported Qty: 42 LB
Kilo Qty: 19.0512003

Waste Stream Comments:
Facility ID: 75488972
Data Year: 2008
Comments: SPILL BUCKETS WITH WATER & BENZENE

Facility ID: 75488972
Data Year: 2009
Comments: spill bucket

Facility ID: 75488972
Data Year: 2010
Comments: SPILL BUCKET

Facility ID: 75488972
Data Year: 2010
Comments: Scheduled Monthly Clean Up

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2011
Comments: Incineration

Facility ID: 75488972
Data Year: 2013
Comments: A-7 comment -- Spill bucket water contaminated with hydrocarbons and benzene

(Continued) **1000658943**

UIC:

Site Number:	32212
Owner Name:	Chevron Environmental Management Co
Well Status:	Active
EPA Well Type:	5B6 - Aquifer remediation
Latitude:	47.332193
Longitude:	122.313110
Well Name:	MW3
Registration Type:	Voluntary or Independent Cleanup Sites
Construction Date:	11/01/2000
Construction Type:	Not reported
Depth:	30

Count: 5 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AUBURN	S105454257	BOEING - AUBURN GOVERNMENT CANAL	15TH AVE. SW & 1ST AVE. S.	98001	ICR
AUBURN	S103505601	BOEING - BLDG. 17-15 - RINSEWATER	PERIMETER ROAD/15TH ST. SW	98001	ICR
SEATTLE	S105805988	INTERBAY	15TH AVENUE WEST SOUTH OF WEST		SWF/LF
SEATTLE	1014202369	LINDE CONTAINER	16TH AVE. SW & SW LANDER ST.		SEMS
SEATTLE	S105805995	JUDKINS STREET DISPOSAL SITE	WEST OF 22ND AVENUE SOUTH, SOU		SWF/LF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/08/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/08/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls 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.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls 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.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Annually

State- and tribal - equivalent NPL

HSL: Hazardous Sites List

The Hazardous Sites List is a subset of the CSCSL Report. It includes sites which have been assessed and ranked using the Washington Ranking Method (WARM).

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 03/09/2017
Date Made Active in Reports: 06/02/2017
Number of Days to Update: 85

Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

State- and tribal - equivalent CERCLIS

CSCSL: Confirmed and Suspected Contaminated Sites List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 06/02/2017
Number of Days to Update: 43

Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 04/20/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facility Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 06/02/2017
Number of Days to Update: 73

Source: Department of Ecology
Telephone: 360-407-6132
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks Site List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 05/16/2017
Date Data Arrived at EDR: 05/19/2017
Date Made Active in Reports: 06/02/2017
Number of Days to Update: 14

Source: Department of Ecology
Telephone: 360-407-7183
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Varies

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/02/2017
Date Made Active in Reports: 03/20/2017
Number of Days to Update: 46
Source: Department of Ecology
Telephone: 360-407-7183
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Locations
A listing of aboveground storage tank locations regulated by the Department of Ecology's Spill Prevention, Preparedness and Response Program.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 02/02/2016
Date Made Active in Reports: 05/03/2016
Number of Days to Update: 91
Source: Department of Ecology
Telephone: 360-407-7562
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Institutional Control Site List
Sites that have institutional controls.

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 06/02/2017
Number of Days to Update: 43

Source: Department of Ecology
Telephone: 360-407-7170
Last EDR Contact: 04/20/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/27/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites
Sites that have entered either the Voluntary Cleanup Program or its predecessor Independent Remedial Action Program.

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 06/30/2017
Number of Days to Update: 71

Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 04/20/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

ICR: Independent Cleanup Reports
These are remedial action reports Ecology has received from either the owner or operator of the sites. These actions have been conducted without department oversight or approval and are not under an order or decree. This database is no longer updated by the Department of Ecology.

Date of Government Version: 12/01/2002
Date Data Arrived at EDR: 01/03/2003
Date Made Active in Reports: 01/22/2003
Number of Days to Update: 19

Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 08/10/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: No Update Planned

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites Listing
A listing of brownfields sites included in the Confirmed & Suspected Sites Listing. Brownfields are abandoned, idle or underused commercial or industrial properties, where the expansion or redevelopment is hindered by real or perceived contamination. Brownfields vary in size, location, age, and past use -- they can be anything from a five-hundred acre automobile assembly plant to a small, abandoned corner gas station.

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/20/2017
Date Made Active in Reports: 03/17/2017
Number of Days to Update: 56

Source: Department of Ecology
Telephone: 360-725-4030
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/20/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facility List

A llisting of recycling center locations.

Date of Government Version: 04/26/2017
Date Data Arrived at EDR: 04/27/2017
Date Made Active in Reports: 06/30/2017
Number of Days to Update: 64

Source: Department of Ecology
Telephone: 360-407-6105
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

SWTIRE: Solid Waste Tire Facilities

This study identified sites statewide with unauthorized accumulations of scrap tires.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 03/16/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 28

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

ALLSITES: Facility/Site Identification System Listing
Information on facilities and sites of interest to the Department of Ecology.

Date of Government Version: 05/05/2017
Date Data Arrived at EDR: 05/08/2017
Date Made Active in Reports: 06/02/2017
Number of Days to Update: 25
Source: Department of Ecology
Telephone: 360-407-6423
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Contaminated Site List
Illegal methamphetamine labs use hazardous chemicals that create public health hazards. Chemicals and residues can cause burns, respiratory and neurological damage, and death. Biological hazards associated with intravenous needles, feces, and blood also pose health risks.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 06/01/2017
Number of Days to Update: 79
Source: Department of Health
Telephone: 360-236-3380
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

HIST CDL: List of Sites Contaminated by Clandestine Drug Labs
This listing of contaminated sites by Clandestine Drug Labs includes non-remediated properties. The current CDL listing does not. This listing is no longer updated by the state agency.

Date of Government Version: 02/08/2007
Date Data Arrived at EDR: 06/26/2007
Date Made Active in Reports: 07/19/2007
Number of Days to Update: 23
Source: Department of Health
Telephone: 360-236-3381
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

CSCSL NFA: Confirmed and Contaminated Sites - No Further Action

This report contains information about sites that are undergoing cleanup and sites that are awaiting further investigation and/or cleanup. Sites on the Hazardous Sites List (see above) are included in this data set.

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 06/01/2017
Number of Days to Update: 42

Source: Department of Ecology
Telephone: 360-407-7170
Last EDR Contact: 04/20/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Semi-Annually

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA 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.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Annually

SPILLS: Reported Spills

Spills reported to the Spill Prevention, Preparedness and Response Division.

Date of Government Version: 03/08/2017
Date Data Arrived at EDR: 03/09/2017
Date Made Active in Reports: 06/05/2017
Number of Days to Update: 88

Source: Department of Ecology
Telephone: 360-407-6950
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 05/23/2006
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/11/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by 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.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

AIRS (EMI): Washington Emissions Data System

Emissions inventory data.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2017
Date Made Active in Reports: 03/17/2017
Number of Days to Update: 66

Source: Department of Ecology
Telephone: 360-407-6040
Last EDR Contact: 06/19/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 06/01/2017
Number of Days to Update: 72

Source: Department of Ecology
Telephone: 360-407-6933
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner List

A listing of registered drycleaners who registered with the Department of Ecology (using the SIC code of 7215 and 7216) as hazardous waste generators.

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 07/14/2017
Number of Days to Update: 85

Source: Department of Ecology
Telephone: 360-407-6732
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/24/2012
Date Data Arrived at EDR: 02/24/2012
Date Made Active in Reports: 03/27/2012
Number of Days to Update: 32

Source: Department of Ecology
Telephone: 360-586-1060
Last EDR Contact: 05/29/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/14/2017
Date Made Active in Reports: 03/17/2017
Number of Days to Update: 31

Source: Department of Ecology
Telephone: 360-407-6754
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 03/06/2007
Date Made Active in Reports: 04/19/2007
Number of Days to Update: 44

Source: Department of Ecology
Telephone: 360-407-6136
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

INACTIVE DRYCLEANERS: Inactive Drycleaners

A listing of inactive drycleaner facility locations.

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 07/14/2017
Number of Days to Update: 85

Source: Department of Ecology
Telephone: 360-407-6732
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

WA MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/27/2017
Date Made Active in Reports: 06/05/2017
Number of Days to Update: 39

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 06/19/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Annually

NPDES: Water Quality Permit System Data

A listing of permitted wastewater facilities.

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 06/05/2017
Number of Days to Update: 46

Source: Department of Ecology
Telephone: 360-407-6073
Last EDR Contact: 04/20/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

UIC: Underground Injection Wells Listing

A listing of underground injection wells.

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 06/05/2017
Number of Days to Update: 46

Source: Department of Ecology
Telephone: 360-407-6143
Last EDR Contact: 04/20/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Ecology in Washington.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Ecology in Washington.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Ecology in Washington.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

KING COUNTY:

Abandoned Landfill Study in King County

The King County Abandoned Landfill Survey was conducted from October through December 1984 by the Health Department's Environmental Health Division at the request of the King County Council. The primary objective of the survey was to determine if any public health problems existed at the predetermined 24 sites.

Date of Government Version: 04/30/1985
Date Data Arrived at EDR: 11/07/1994
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: Seattle-King County Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 10/21/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SEATTLE COUNTY:

Abandoned Landfill Study in the City of Seattle

The Seattle Abandoned Landfill Survey was conducted in June and July of 1984 by the Health Department's Environmental Health Division at the request of the Mayor's Office. The primary objective of the survey was to determine if any public health problems existed at the predetermined 12 sites.

Date of Government Version: 07/30/1984
Date Data Arrived at EDR: 11/07/1994
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: Seattle - King County Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 10/21/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SEATTLE/KING COUNTY:

Seattle - King County Abandoned Landfill Toxicity / Hazard Assessment Project

This report presents the Seattle-King County Health Department's follow-up investigation of two city owned and four county owned abandoned landfills which was conducted from February to December 1986.

Date of Government Version: 12/31/1986
Date Data Arrived at EDR: 08/18/1995
Date Made Active in Reports: 09/20/1995
Number of Days to Update: 33

Source: Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 08/14/1995
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SNOHOMISH COUNTY:

Solid Waste Sites of Record at Snohomish Health District

Solid waste disposal and/or utilization sites in Snohomish County.

Date of Government Version: 11/16/2011
Date Data Arrived at EDR: 03/29/2012
Date Made Active in Reports: 05/03/2012
Number of Days to Update: 35

Source: Snohomish Health District
Telephone: 206-339-5250
Last EDR Contact: 06/23/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Semi-Annually

TACOMA/PIERCE COUNTY:

Closed Landfill Survey

Following numerous requests for information about closed dumpsites and landfills in Pierce County, the Tacoma-Pierce County Health Department decided to conduct a study on the matter. The aim of the study was to evaluate public health risks associated with the closed dumpsites and landfills, and to determine the need, if any, for further investigations of a more detailed nature. The sites represent all of the known dumpsites and landfills closed after 1950.

Date of Government Version: 09/01/2002
Date Data Arrived at EDR: 03/24/2003
Date Made Active in Reports: 05/14/2003
Number of Days to Update: 51

Source: Tacoma-Pierce County Health Department
Telephone: 206-591-6500
Last EDR Contact: 03/19/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 07/14/2017
Number of Days to Update: 92

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/12/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Daycare Center Listing
Source: Department of Social & Health Services
Telephone: 253-383-1735

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Ecology
Telephone: 360-407-6121

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PAYLESS AUTO SALES
29805 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WA 98003

TARGET PROPERTY COORDINATES

Latitude (North):	47.335284 - 47° 20' 7.02''
Longitude (West):	122.31271 - 122° 18' 45.76''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	551925.4
UTM Y (Meters):	5242434.5
Elevation:	426 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6005095 POVERTY BAY, WA
Version Date:	2014

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

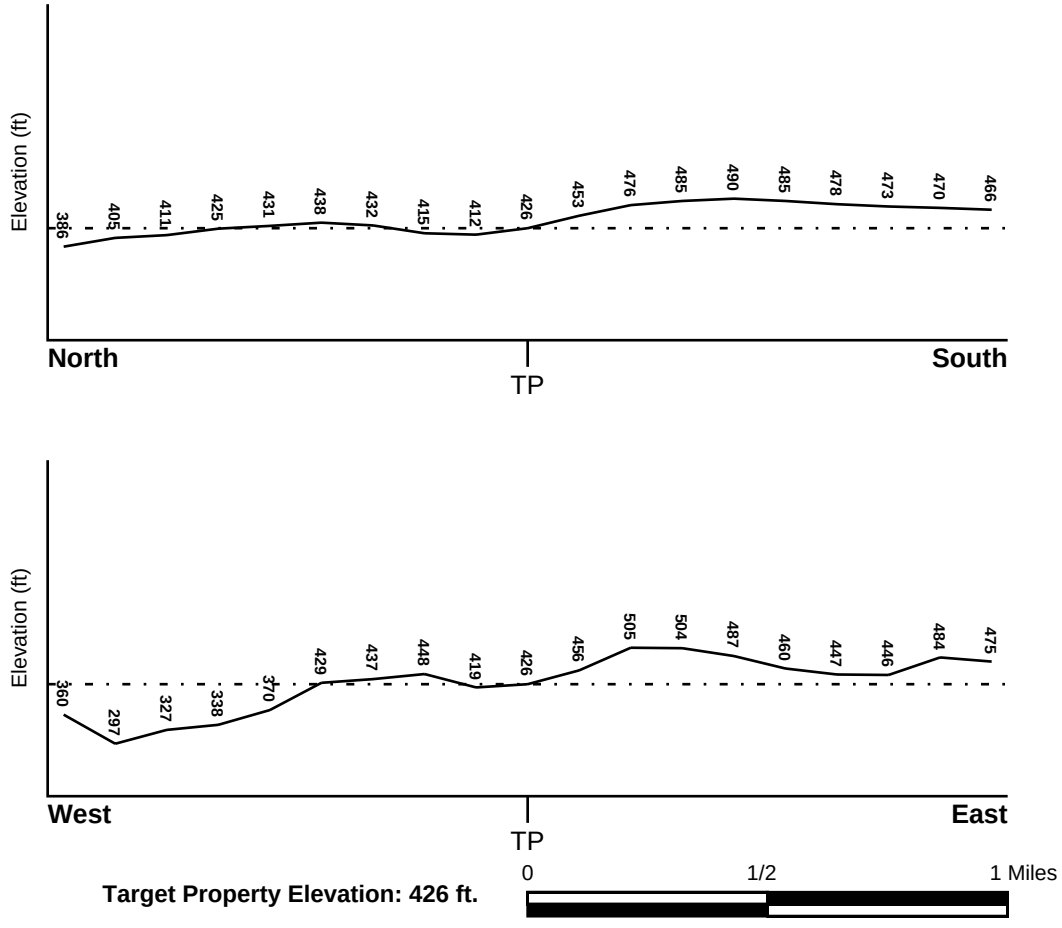
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
53033C1235F	FEMA Q3 Flood data

Additional Panels in search area:	FEMA Source Type
53033C1250F	FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
POVERTY BAY	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

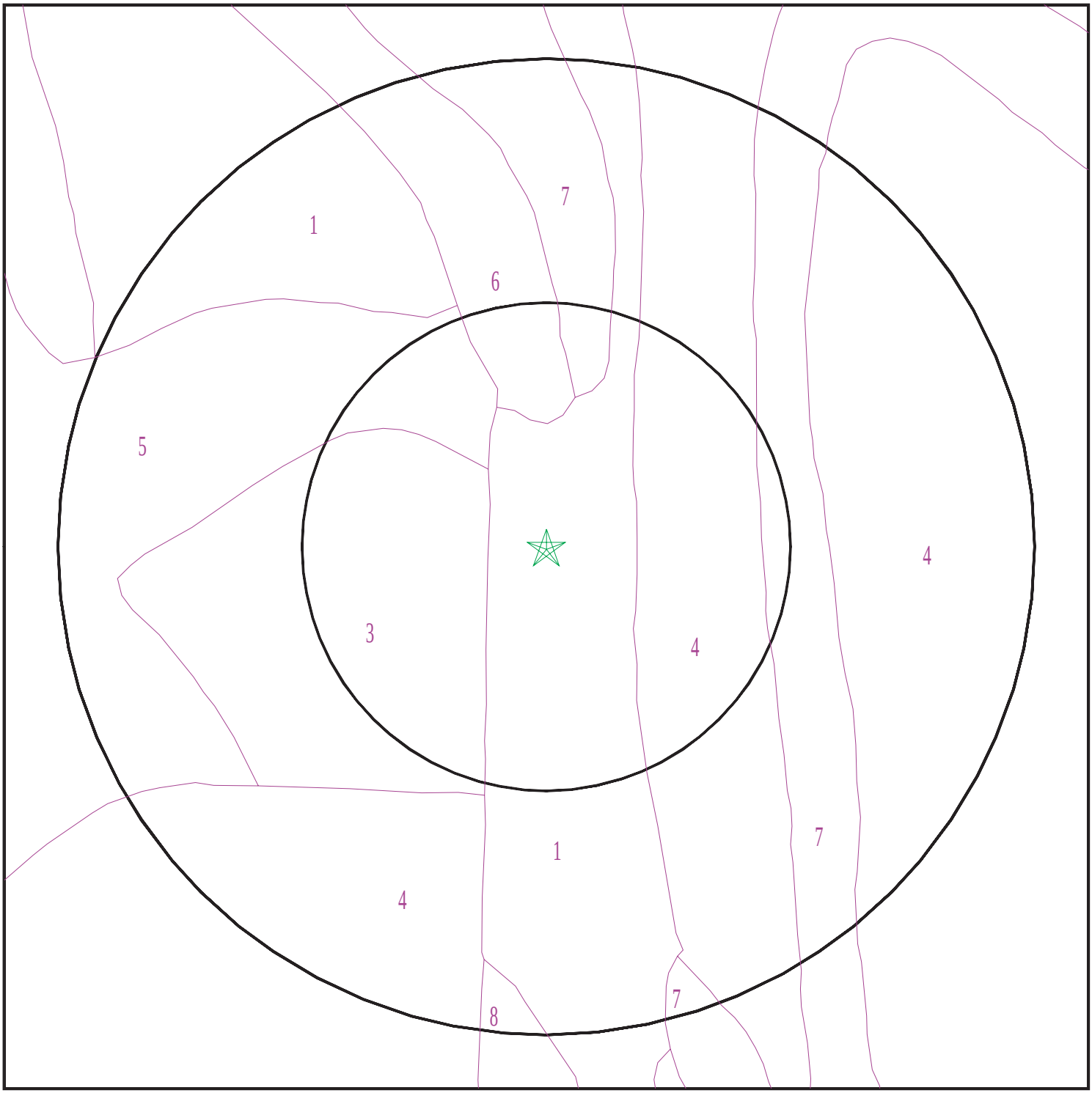
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4994481.30s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Payless Auto Sales	CLIENT:	TGE Resources, Inc.
ADDRESS:	29805 Pacific Highway South Federal Way WA 98003	CONTACT:	Matthew Lopez
		INQUIRY #:	4994481.30s
LAT/LONG:	47.335284 / 122.31271	DATE:	July 17, 2017 10:22 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Alderwood

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 84 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 6 Min: 5.1
2	11 inches	26 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 6 Min: 5.1
3	26 inches	59 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 0.42 Min: 0.01	Max: 6 Min: 5.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Everett

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 5.1
2	16 inches	31 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 42	Max: 6.5 Min: 5.1
3	31 inches	59 inches	very gravelly coarse sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 705 Min: 141	Max: 6.5 Min: 5.6

Soil Map ID: 3

Soil Component Name: Pits

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: Arents

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 84 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	25 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 1.4	Max: 6 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	25 inches	59 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 0.42 Min: 0.01	Max: 6 Min: 5.1

Soil Map ID: 5

Soil Component Name: Arents

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 84 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	25 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 1.4	Max: 6 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	25 inches	59 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 0.42 Min: 0.01	Max: 6 Min: 5.1

Soil Map ID: 6

Soil Component Name: Alderwood

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 6 Min: 5.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	11 inches	26 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 6 Min: 5.1
3	26 inches	59 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 0.42 Min: 0.01	Max: 6 Min: 5.1

Soil Map ID: 7

Soil Component Name: Alderwood

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 84 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 6 Min: 5.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	11 inches	40 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 6 Min: 5.1
3	40 inches	59 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 0.42 Min: 0.01	Max: 6 Min: 5.1

Soil Map ID: 8

Soil Component Name: Alderwood

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 84 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 6 Min: 5.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	11 inches	26 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 42 Min: 14	Max: 6 Min: 5.1
3	26 inches	59 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 0.42 Min: 0.01	Max: 6 Min: 5.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40001255146	0 - 1/8 Mile ESE
A2	USGS40001255289	1/8 - 1/4 Mile NNW
4	USGS40001255145	1/4 - 1/2 Mile East
5	USGS40001255056	1/4 - 1/2 Mile SW
6	USGS40001255380	1/4 - 1/2 Mile NW
B7	USGS40001255421	1/4 - 1/2 Mile NNE
B8	USGS40001255442	1/2 - 1 Mile North

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C9	USGS40001255055	1/2 - 1 Mile WSW
C10	USGS40001255062	1/2 - 1 Mile WSW
12	USGS40001255539	1/2 - 1 Mile North
13	USGS40001255370	1/2 - 1 Mile NE
14	USGS40001255552	1/2 - 1 Mile North
15	USGS40001255510	1/2 - 1 Mile NE
16	USGS40001255612	1/2 - 1 Mile NNW
17	USGS40001254765	1/2 - 1 Mile SSE
D18	USGS40001255420	1/2 - 1 Mile ENE
D19	USGS40001255419	1/2 - 1 Mile ENE
E21	USGS40001255110	1/2 - 1 Mile East
22	USGS40001255321	1/2 - 1 Mile ENE
23	USGS40001255499	1/2 - 1 Mile NE
25	USGS40001255453	1/2 - 1 Mile NE
26	USGS40001254890	1/2 - 1 Mile ESE
G28	USGS40001255172	1/2 - 1 Mile West
G29	USGS40001255158	1/2 - 1 Mile West
F30	USGS40001254796	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

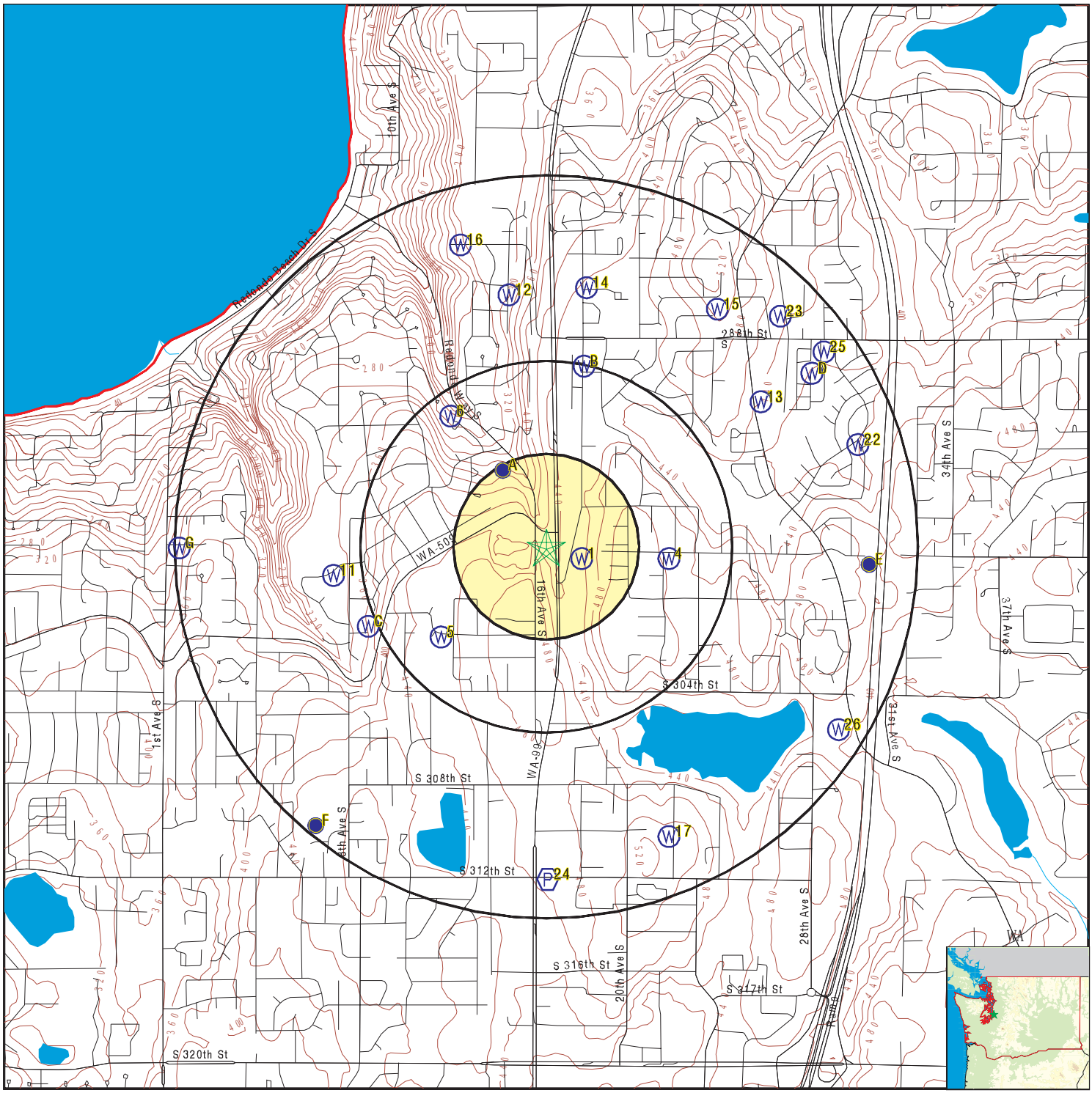
MAP ID	WELL ID	LOCATION FROM TP
24	WA5305568	1/2 - 1 Mile South

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	WA8000000006934	1/8 - 1/4 Mile NNW
11	WA8000000015247	1/2 - 1 Mile West
E20	WA8000000022003	1/2 - 1 Mile East
F27	WA8000000020960	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 4994481.30s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Payless Auto Sales	CLIENT: TGE Resources, Inc.
ADDRESS: 29805 Pacific Highway South Federal Way WA 98003	CONTACT: Matthew Lopez
LAT/LONG: 47.335284 / 122.31271	INQUIRY #: 4994481.30s DATE: July 17, 2017 10:22 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
ESE **FED USGS** **USGS40001255146**
0 - 1/8 Mile
Higher

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472006122183401		
Monloc name:	21N/04E-04M01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3348221
Longitude:	-122.3106778	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	425
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	55
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-09-29	51	

A2
NNW **FED USGS** **USGS40001255289**
1/8 - 1/4 Mile
Lower

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472018122185101		
Monloc name:	21N/04E-05H01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3381554
Longitude:	-122.3154002	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	360
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19671010	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-10-10	163	

A3
NNW
1/8 - 1/4 Mile
Lower

WA WELLS **WA8000000006934**

Fid:	6933	Lerootid:	61143
Srcrootid:	17137	Pwsid:	40000
Srcnum:	01	Pwssrcid:	4000001
Systemname:	KCWD #56	Systemgrou:	A
Systemtype:	Comm	Region:	NW
County:	KING	Smaid:	Not Reported
Ftrespopul:	5800	Resconnect:	1496
Totalconne:	1496	Srcname:	COLD BROOK SPRING
Srctype:	SP	Srcusecode:	E
Srcwelldep:	0	Township:	21
Range :	04E	Section:	05
Qtrqtrsect:	NESW		
Longitude:	-122.315		
Latitude:	47.33838		
Latlongmet:	QtrQtrSe	Srcsuscept:	U
Srcvulnioc:	Not Reported	Srcvulnvoc:	Not Reported
Srcvulnsoc:	Not Reported	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	0008397927
Priconta 1:	Not Reported	Priconta 2:	BOX 5166
Priconta 3:	REDONDO	Priconta 4:	WA
Priconta 5:	98054		
Priconta 6:	Not Reported		
Pwseffecti:	01-DEC-87	Pwsstatusi:	I
Pwsinactiv:	01-DEC-87	Srcstatusi:	I
Srceffecti:	01-JAN-70	Srcinactiv:	01-DEC-87
Floodzonei:	N	Priconta 7:	BERTRAM ROSS
Srcswinflu:	U	Latlongdat:	Not Reported
Site id:	WA8000000006934		

4
East
1/4 - 1/2 Mile
Higher

FED USGS **USGS40001255145**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472006122181601		
Monloc name:	21N/04E-04L01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3348221
Longitude:	-122.3056777	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	510
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19470101	Welldepth:	280
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-09-23	267	

5
SW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40001255056**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-471956122191801		
Monloc name:	21N/04E-05Q02		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3317665
Longitude:	-122.3187335	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	450
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19560528	Welldepth:	324
Welldepth units:	ft	Wellholedepth:	335
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1967-08-02	235.61		1960-10-06	234.28	

6
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40001255380**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472029122184901		
Monloc name:	21N/04E-05A01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3403776
Longitude:	-122.318178	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	260
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19600000	Welldepth:	111
Welldepth units:	ft	Wellholedepth:	111
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1967-10-10	84.71		1961-02-23	84.84	

B7
NNE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40001255421**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472032122183201		
Monloc name:	21N/04E-04D02		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3420443
Longitude:	-122.3101223	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	435
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	80
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1901-01-01		

Note: The site was dry (no water level recorded).

B8
North **FED USGS** **USGS40001255442**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472034122183501		
Monloc name:	21N/04E-04D01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3425998
Longitude:	-122.3109557	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	435
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19600929	Welldepth:	309
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

C9
WSW **FED USGS** **USGS40001255055**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-471956122191701		
Monloc name:	21N/04E-05Q03		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3320442
Longitude:	-122.3226225	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	370
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19560401	Welldepth:	315
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-10-16	236	

C10
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40001255062**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-471957122191901		
Monloc name:	21N/04E-05Q01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.332322
Longitude:	-122.323178	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	370
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19671009	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

11
West
1/2 - 1 Mile
Lower

WA WELLS **WA8000000015247**

Fid:	15246	Lerootid:	62206
Srcrootid:	18603	Pwsid:	47383
Srcnum:	01	Pwssrcid:	4738301
Systemname:	LINE,B.L.	Systemgrou:	B
Systemtype:	GRPB	Region:	NW
County:	KING	Smaid:	Not Reported
Ftrespopul:	5	Resconnect:	2
Totalconne:	2	Srcname:	WELL 01
Srctype:	W	Srcusecode:	P
Srcwelldep:	106	Township:	21
Range :	05E	Section:	03
Qtrqtrsect:	NESW		
Longitude:	-122.3249		
Latitude:	47.334166		
Latlongmet:	GPS	Srcsuscept:	U
Srcvulnioc:	Not Reported	Srcvulnvoc:	Not Reported
Srcvulnsoc:	Not Reported	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	0000000000
Priconta 1:	Not Reported	Priconta 2:	13718 S E 299TH
Priconta 3:	AUBURN	Priconta 4:	WA
Priconta 5:	98002		
Priconta 6:	Not Reported		
Pwseffecti:	01-JAN-70	Pwsstatusi:	A
Pwsinactiv:	Not Reported	Srcstatusi:	A
Srceffecti:	01-JAN-70	Srcinactiv:	Not Reported
Floodzonei:	N	Priconta 7:	PRIMARY CONTACT WS# 47383 LINE,B.L.
Srcswinflu:	U	Latlongdat:	Not Reported
Site id:	WA8000000015247		

12
North
1/2 - 1 Mile
Lower

FED USGS **USGS40001255539**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472043122184901		
Monloc name:	22N/04E-32R01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3450998
Longitude:	-122.3148447	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	300
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19610126	Welldepth:	226
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1961-01-26	193	

13
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40001255370**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472028122175701		
Monloc name:	21N/04E-04B02		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3409333
Longitude:	-122.3003999	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	440
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19500608	Welldepth:	246
Welldepth units:	ft	Wellholedepth:	246
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-10-06	176.31	

14
North
1/2 - 1 Mile
Higher

FED USGS **USGS40001255552**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472044122183301		
Monloc name:	22N/04E-33N01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3453776
Longitude:	-122.3104002	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	420
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19470101	Welldepth:	200
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1947-01-01	200	

15
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40001255510**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472041122180601		
Monloc name:	22N/04E-33P01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3445443
Longitude:	-122.3029	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	500
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	14
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-09-23	6	

16
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40001255612**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472050122185901		
Monloc name:	22N/04E-32J01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3470442
Longitude:	-122.3176226	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	280
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19860922	Welldepth:	168
Welldepth units:	ft	Wellholedepth:	168
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1986-09-22	147	

17
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40001254765**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-471925122181301		
Monloc name:	21N/04E-09F01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110013	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3239889
Longitude:	-122.3056776	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	500
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19410701	Welldepth:	351
Welldepth units:	ft	Wellholedepth:	351
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-10-16	100.83	

D18
ENE **FED USGS** **USGS40001255420**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472032122174701		
Monloc name:	21N/04E-04A02		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110013	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3420444
Longitude:	-122.297622	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	485
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	21
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1961-01-04	7	

D19
ENE **FED USGS** **USGS40001255419**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472032122174601		
Monloc name:	21N/04E-04A01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110013	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3420444
Longitude:	-122.2973443	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	405
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	20.3
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-01-04	12	

E20
East
1/2 - 1 Mile
Higher

WA WELLS **WA8000000022003**

Fid:	22002	Lerootid:	61331
Srcrootid:	17419	Pwsid:	41997
Srcnum:	07	Pwssrcid:	4199707
Systemname:	LAKEHAVEN UTILITY DISTRICT	Systemgrou:	A
Systemtype:	Comm	Region:	NW
County:	KING	Smaid:	Not Reported
Ftrespopul:	112000	Resconnect:	41141
Totalconne:	42335	Srcname:	WELL 9-64
Srctype:	W	Srcusecode:	P
Srcwelldep:	377	Township:	21
Range :	04E	Section:	04
Qtrqtrsect:	NWSE		
Longitude:	-122.29439877		
Latitude:	47.33465009		
Latlongmet:	GPS	Srcsuscept:	L
Srcvulnioc:	M	Srcvulnvoc:	L
Srcvulnsoc:	M	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Model	Pricontact:	2539465410
Priconta 1:	Not Reported	Priconta 2:	PO BOX 4249
Priconta 3:	FEDERAL WAY	Priconta 4:	WA
Priconta 5:	98063		
Priconta 6:	sfrench@lakehaven.org		
Pwseffecti:	01-JAN-70	Pwsstatusi:	A
Pwsinactiv:	Not Reported	Srcstatusi:	A
Srceffecti:	01-JAN-70	Srcinactiv:	Not Reported
Floodzonei:	N	Priconta 7:	STAN FRENCH
Srcswinflu:	U	Latlongdat:	01-NOV-99
Site id:	WA8000000022003		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E21
East
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40001255110**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472004122173901		
Monloc name:	21N/04E-04J01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110013	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3345445
Longitude:	-122.2940108	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	460
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19630219	Welldepth:	377
Welldepth units:	ft	Wellholedepth:	377
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 5

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-10-02	276		1987-04-23	285	
1986-05-08	272		1967-10-16	295.47	
1963-02-19	282				

22
ENE
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40001255321**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472022122173701		
Monloc name:	22N/04E-33R01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3392667
Longitude:	-122.2948442	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	360
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	20
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-09-23	14	

23
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40001255499**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472040122175301		
Monloc name:	22N/04E-33Q01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3442666
Longitude:	-122.2992888	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	350
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	46
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-09-23	35	

24
South
1/2 - 1 Mile
Higher

FRDS PWS **WA5305568**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Epa region:	10	State:	WA
Pwsid:	WA5305568		
Pwsname:	SUNNY ACRES MOBILE HOME PARK		
City served:	Not Reported	State served:	WA
Zip served:	Not Reported	Fips county:	53067
Status:	Closed	Pop srvd:	36
Pwssvcconn:	16	Source:	Groundwater
Pws type:	CWS	Owner:	Private
Contact:	BARBARA BRADSHAW		
Contactor gname:	Not Reported		
Contact phone:	Not Reported	Contact address1:	30205 33RD SW
Contact address2:	Not Reported	Contact city:	FEDERAL WAY
Contact state:	WA	Contact zip:	98023
Activity code:	I		

Facid:	1T		
Facname:	WELL #1		
Facility type:	Treatment_plant	Activity code:	I
Treatment obj:	disinfection	Treatment process:	hypochlorination, post

Location Information:

Name:	SUNNY ACRES MOBILE HOME PARK		
Pwstypcd:	CWS	Primsrccd:	GW
Popserved:	36		
Add1:	30205 33RD SW		
Add2:	Not Reported		
City:	FEDERAL WAY	State:	WA
Zip:	98023	Phone:	Not Reported
Cityserv:	FEDERAL WAY	Cntyserv:	Not Reported
Stateserv:	WA	Zipserv:	Not Reported

Enforcement Information:

Violation id:	9993001	Orig cd:	S
Enf fy:	2000	Enf act date:	01/01/2000
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	0050519	Orig cd:	S
Enf fy:	2000	Enf act date:	05/31/2000
Enf act detail:	St Public Notif requested	Enf act cat:	Informal

Enforcement Information:

Violation id:	0050519	Orig cd:	S
Enf fy:	2000	Enf act date:	05/31/2000
Enf act detail:	St Public Notif received	Enf act cat:	Informal

Enforcement Information:

Violation id:	0050519	Orig cd:	S
Enf fy:	2000	Enf act date:	05/31/2000
Enf act detail:	St Violation/Reminder Notice	Enf act cat:	Informal

Enforcement Information:

Violation id:	0050518	Orig cd:	S
Enf fy:	2000	Enf act date:	06/30/2000
Enf act detail:	St Public Notif requested	Enf act cat:	Informal

Enforcement Information:

Violation id:	0050518	Orig cd:	S
Enf fy:	2000	Enf act date:	06/30/2000
Enf act detail:	St Public Notif received	Enf act cat:	Informal

Enforcement Information:

Violation id:	0050518	Orig cd:	S
Enf fy:	2000	Enf act date:	06/30/2000
Enf act detail:	St Violation/Reminder Notice	Enf act cat:	Informal

Enforcement Information:

Violation id:	0050517	Orig cd:	S
Enf fy:	2000	Enf act date:	07/31/2000
Enf act detail:	St Violation/Reminder Notice	Enf act cat:	Informal

Enforcement Information:

Violation id:	0050517	Orig cd:	S
Enf fy:	2000	Enf act date:	07/31/2000
Enf act detail:	St Public Notif requested	Enf act cat:	Informal

Enforcement Information:

Violation id:	0050517	Orig cd:	S
Enf fy:	2000	Enf act date:	07/31/2000
Enf act detail:	St Public Notif received	Enf act cat:	Informal

Violations Information:

Violation id:	9993001	Orig cd:	S
State:	WA	Viol fy:	1999
Contamcd:	5000		
Contamnm:	Lead and Copper Rule		
Viol code:	51		
Viol name:	Initial Tap Sampling for Pb and Cu		
Rule code:	350		
Rule name:	LCR		
Violmeasur:	0	Unitmeasur:	Not Reported
State mcl:	0	Cmpbdt:	01/01/1999
Cmpedt:	01/01/2000		

Violations Information:

Violation id:	0050519	Orig cd:	S
State:	WA	Viol fy:	2000
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	22		
Viol name:	MCL, Monthly (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	0	Unitmeasur:	Not Reported
State mcl:	0	Cmpbdt:	05/01/2000
Cmpedt:	05/31/2000		

Violations Information:

Violation id:	0050518	Orig cd:	S
State:	WA	Viol fy:	2000
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	22		
Viol name:	MCL, Monthly (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	0	Unitmeasur:	Not Reported

State mcl: 0 Cmpbdt: 06/01/2000
Cmpedt: 06/30/2000

Violations Information:
Violation id: 0050517 Orig cd: S
State: WA Viol fy: 2000
Contamcd: 3100
Contamnm: Coliform (TCR)
Viol code: 22
Viol name: MCL, Monthly (TCR)
Rule code: 110
Rule name: TCR
Violmeasur: 0 Unitmeasur: Not Reported
State mcl: 0 Cmpbdt: 07/01/2000
Cmpedt: 07/31/2000

PWS ID: WA5305568
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: SUNNY ACRES MOBILE HOME PARK
FEDERAL WAY, WA 98023

Addressee / Facility: Not Reported

Facility Latitude: 47 19 21 Facility Longitude: 122 18 41
City Served: Not Reported
Treatment Class: Treated Population: 36

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name: SUNNY ACRES MOBILE HOME PA
Violation Type: Monitoring, Routine Major (TCR)
Contaminant: COLIFORM (TCR)
Compliance Period: 1995-02-01 - 1995-02-28
Violation ID: 9525060
Enforcement Date: 1995-02-28 Enf. Action: State Violation/Reminder Notice

System Name: SUNNY ACRES MOBILE HOME PA
Violation Type: Monitoring, Routine Major (TCR)
Contaminant: COLIFORM (TCR)
Compliance Period: 1995-09-01 - 1995-09-30
Violation ID: 9575090
Enforcement Date: Not Reported Enf. Action: Not Reported

System Name: SUNNY ACRES MOBILE HOME PA
Violation Type: Monitoring, Repeat Major (TCR)
Contaminant: COLIFORM (TCR)
Compliance Period: 1995-10-01 - 1995-10-31
Violation ID: 9600335
Enforcement Date: 1995-10-31 Enf. Action: State Violation/Reminder Notice

System Name: SUNNY ACRES MOBILE HOME PA
Violation Type: Monitoring, Routine Major (TCR)
Contaminant: COLIFORM (TCR)
Compliance Period: 1998-09-01 - 1998-09-30
Violation ID: 98000442
Enforcement Date: 1998-09-30 Enf. Action: State Violation/Reminder Notice

ENFORCEMENT INFORMATION:

System Name:	SUNNY ACRES MOBILE HOME PA		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1998-09-01 - 1998-09-30		
Violation ID:	98075369		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	SUNNY ACRES MOBILE HOME PA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1998-07-01 - 1998-12-31		
Violation ID:	99000001		
Enforcement Date:	1998-09-30	Enf. Action:	State Violation/Reminder Notice
System Name:	SUNNY ACRES MOBILE HOME PA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1998-07-01 - 2015-12-31		
Violation ID:	9900001		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	SUNNY ACRES MOBILE HOME PA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1999-01-01 - 1999-06-30		
Violation ID:	9900002		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	SUNNY ACRES MOBILE HOME PA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1999-01-01 - 2015-12-31		
Violation ID:	9900002		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	SUNNY ACRES MOBILE HOME PAR		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1998-07-01 - 2015-12-31		
Violation ID:	9993001		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

25
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40001255453**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472035122174401		
Monloc name:	21N/04E-03A02		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110013	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3428777
Longitude:	-122.2967887	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	420
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	16
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1961-01-04	3	

26
ESE **FED USGS** **USGS40001254890**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-471942122174101		
Monloc name:	21N/04E-09A01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110013	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3281556
Longitude:	-122.2959552	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	430
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19010101	Welldepth:	255
Welldepth units:	ft	Wellholedepth:	350
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 91

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1973-12-01	174		1973-11-20	177	
1973-10-24	176		1973-09-25	177	
1973-08-20	177		1973-07-23	177	
1973-06-20	176		1973-05-22	176	
1973-04-24	175		1973-03-21	175	
1973-02-23	176		1973-01-24	176	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1972-12-20	175	
1972-10-25	177.44	
1972-09-22	178.06	
1972-07-20	177.95	
1972-05-23	176	
1972-03-24	177	
1972-01-24	178	
1971-11-22	180	
1971-10-21	180	
1971-09-17	179	
1971-07-26	180	
1971-05-25	180	
1971-03-26	179	
1971-01-19	178	
1970-11-25	178	
1970-09-21	181	
1970-07-24	180	
1970-05-25	179	
1970-04-03	179	
1970-03-17	180	
1970-01-23	95	
1969-11-25	108	
1969-10-30	109	
1969-09-23	109	
1969-07-25	105	
1969-05-26	104	
1969-03-24	103	
1969-01-21	108.29	
1968-11-20	115.83	
1968-09-23	119.14	
1968-07-25	107.66	
1968-05-23	104.08	
1968-03-21	102.58	
1968-01-23	99.12	
1967-11-21	115.22	
1967-10-12	115.41	
1967-09-15	116.81	
1967-08-07	112.80	
1967-05-29	117.23	
1960-10-06	165	
1972-11-22	177	
1972-10-16	167	
1972-08-22	178	
1972-06-20	178	
1972-04-24	177	
1972-02-23	177	
1971-12-20	179	
1971-11-15	179	
1971-09-24	179	
1971-08-24	180	
1971-06-24	179	
1971-04-22	180	
1971-02-23	179	
1970-12-30	177	
1970-10-23	179	
1970-08-26	195	
1970-06-24	180	
1970-04-27	179	
1970-03-24	180	
1970-02-25	180	
1969-12-29	105	
1969-11-24	108	
1969-10-22	109	
1969-08-25	108	
1969-06-24	103	
1969-04-21	102	
1969-02-24	101	
1968-12-24	113.94	
1968-10-21	114.51	
1968-08-20	111.37	
1968-06-25	103.95	
1968-04-23	101.21	
1968-02-27	100.10	
1967-12-27	99.77	
1967-10-23	111.96	
1967-09-27	118.34	
1967-08-30	114.80	
1967-06-12	119.44	
1967-04-28	113.86	

F27
SW
1/2 - 1 Mile
Higher

WA WELLS **WA8000000020960**

Fid:	20959	Lerootid:	61331
Srcrootid:	17440	Pwsid:	41997
Srcnum:	29	Pwssrcid:	4199729
Systemname:	LAKEHAVEN UTILITY DISTRICT	Systemgrou:	A
Systemtype:	Comm	Region:	NW
County:	KING	Smaid:	Not Reported
Ftrespopul:	112000	Resconnect:	41141
Totalconne:	42335	Srcname:	WELL 25
Srctype:	W	Srcusecode:	P
Srcwelldep:	350	Township:	21

Range :	04E	Section:	08
Qtrqtrsect:	SENW		
Longitude:	-122.32559952		
Latitude:	47.32457608		
Latlongmet:	GPS	Srcsuscept:	M
Srcvulnioc:	L	Srcvulnvoc:	M
Srcvulnsoc:	M	Doewelltag:	Not Reported
Srctot6mo:	570	Srctot1yr:	800
Srctot5yr:	1800	Srctot10yr:	2540
Protection:	Model	Pricontact:	2539465410
Priconta 1:	Not Reported	Priconta 2:	PO BOX 4249
Priconta 3:	FEDERAL WAY	Priconta 4:	WA
Priconta 5:	98063		
Priconta 6:	sfrench@lakehaven.org		
Pwseffecti:	01-JAN-70	Pwsstatusi:	A
Pwsinactiv:	Not Reported	Srcstatusi:	A
Srceffecti:	23-NOV-92	Srcinactiv:	Not Reported
Floodzonei:	N	Priconta 7:	STAN FRENCH
Srcswinflu:	U	Latlongdat:	01-NOV-99
Site id:	WA8000000020960		

G28
West
1/2 - 1 Mile
Lower

FED USGS **USGS40001255172**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472008122195701		
Monloc name:	21N/04E-05M03		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3353775
Longitude:	-122.3337339	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	325
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19600922	Welldepth:	125
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

G29
West
1/2 - 1 Mile
Lower

FED USGS **USGS40001255158**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472007122195701		
Monloc name:	21N/04E-05M04		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3350997
Longitude:	-122.3337339	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	300
Vert measure units:	feet	Vertacc measure val:	70
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19490501	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1949-05-01	7	

F30
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40001254796**

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-471928122193001		
Monloc name:	21N/04E-08F04		
Monloc type:	Well		
Monloc desc:	GWSI DATABASE AUGMENTATION SITE		
Huc code:	17110019	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	47.3242665
Longitude:	-122.3262336	Sourcemap scale:	Not Reported
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	9999.99
Vert measure units:	feet	Vertacc measure val:	999
Vert accmeasure units:	feet		
Vertcollection method:	Unknown		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Unclassified Overburden		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported		
Construction date:	19881210	Welldepth:	445
Welldepth units:	ft	Wellholedepth:	526
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1989-01-24	286	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for KING County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 98003

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.150 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.100 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Ecology
Telephone: 360-407-6121

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Wells
Source: Department of Health
Telephone: 360-236-3148
Group A and B well locations.

Water Well Listing
Source: Public Utility District
Telephone: 206-779-7656
A listing of water well locations in Kitsap County.

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Listing
Source: Department of Natural Resources
Telephone: 360-902-1450
Locations that represent oil and gas test well sites in Washington State from 1890 to present.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX C

Legend

- Accidents (Liquid)
- Incidents (Gas)
- LNG Plants
- Breakout Tanks
- Gas Transmission Pipelines
- Hazardous Liquid Pipelines

500 m
1000 ft

Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

This map should never be used as a substitute for contacting a one-call center prior to excavation activities. Please call 811 before any digging occurs.

Questions regarding this map or its contents can be directed to npms@dot.gov.

Projection: Geographic

Datum: NAD83

Map produced by the Public Viewer application at www.npms.phmsa.dot.gov

Date Printed: Jul 17, 2017

811 Know what's below. Call before you dig.

TGE Project No.: R13411.01

TGE RESOURCES, INC.
8048 Northcourt Road
Houston, Texas 77040

Physical Setting Sources Map

King County Area, Washington

AgC—Alderwood gravelly sandy loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2t626
Elevation: 50 to 800 feet
Mean annual precipitation: 20 to 60 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 160 to 240 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Alderwood and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Alderwood

Setting

Landform: Ridges, hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Nose slope, talf
Down-slope shape: Linear, convex
Across-slope shape: Convex
Parent material: Glacial drift and/or glacial outwash over dense glaciomarine deposits

Typical profile

A - 0 to 7 inches: gravelly sandy loam
Bw1 - 7 to 21 inches: very gravelly sandy loam
Bw2 - 21 to 30 inches: very gravelly sandy loam
Bg - 30 to 35 inches: very gravelly sandy loam
2Cd1 - 35 to 43 inches: very gravelly sandy loam
2Cd2 - 43 to 59 inches: very gravelly sandy loam

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: 20 to 39 inches to densic material
Natural drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: About 18 to 37 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4s

Hydrologic Soil Group: B
Other vegetative classification: Limited Depth Soils (G002XN302WA), Limited Depth Soils (G002XS301WA), Limited Depth Soils (G002XF303WA)
Hydric soil rating: No

Minor Components

Everett
Percent of map unit: 5 percent
Landform: Kames, eskers, moraines
Landform position (two-dimensional): Shoulder, footslope
Landform position (three-dimensional): Crest, base slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Indianola
Percent of map unit: 5 percent
Landform: Eskers, kames, terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Shalcar
Percent of map unit: 3 percent
Landform: Depressions
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Norma
Percent of map unit: 2 percent
Landform: Depressions, drainageways
Landform position (three-dimensional): Dip
Down-slope shape: Concave, linear
Across-slope shape: Concave
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: King County Area, Washington
Survey Area Data: Version 12, Sep 8, 2016

DEPARTMENT OF ECOLOGY State of Washington

Well Reports

Home | Map Search | Text Search | Forms | Site Info | Contact Us | Water Portal

Well Report Map Menu

Search Options | Legend/Layers | Help

Well Type Legend:

- Water Wells
- Resource Protection Wells
- Decommissioned Wells
- Multiple Well Types

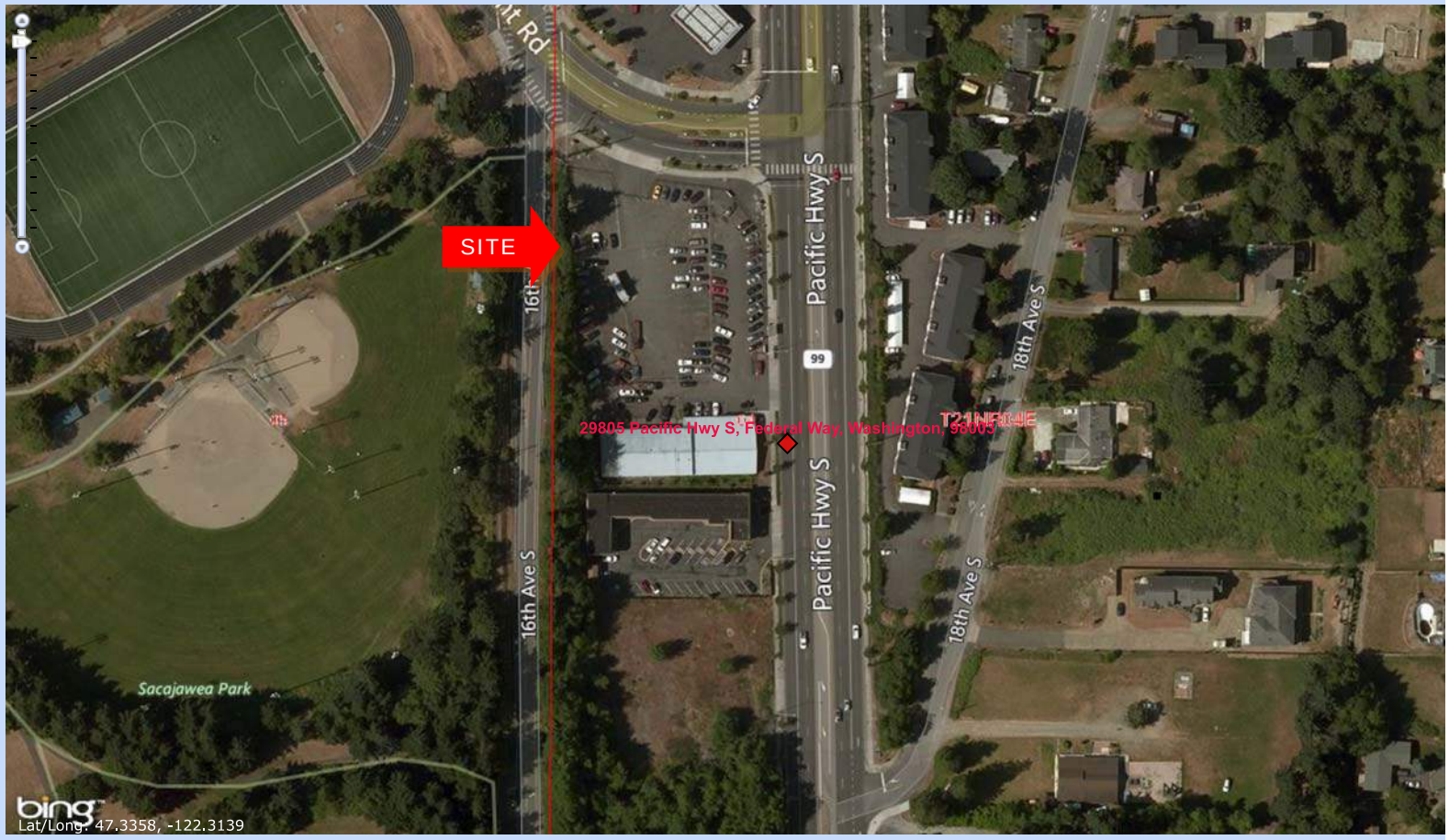
Administrative Boundaries:
(Turn layers on/off tip)

- [x] Sections
- [x] Townships
- [ ] Parcels
- [ ] Watersheds (WRIA)

Background Layers:

- USGS Topo Map
- Terrain Map
- (•) Aerial Imagey

Zoom In | Zoom Out | Full State | Pan | Select Wells



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TGE Project No.: R13411.01

TGERESOURCES, INC.
8048 Northcourt Road
Houston, Texas 77040

Wetlands Inventory Map

WASHINGTON DEPARTMENT OF FISH & WILDLIFE

PHS on the Web

Layers | Tools

Base Maps

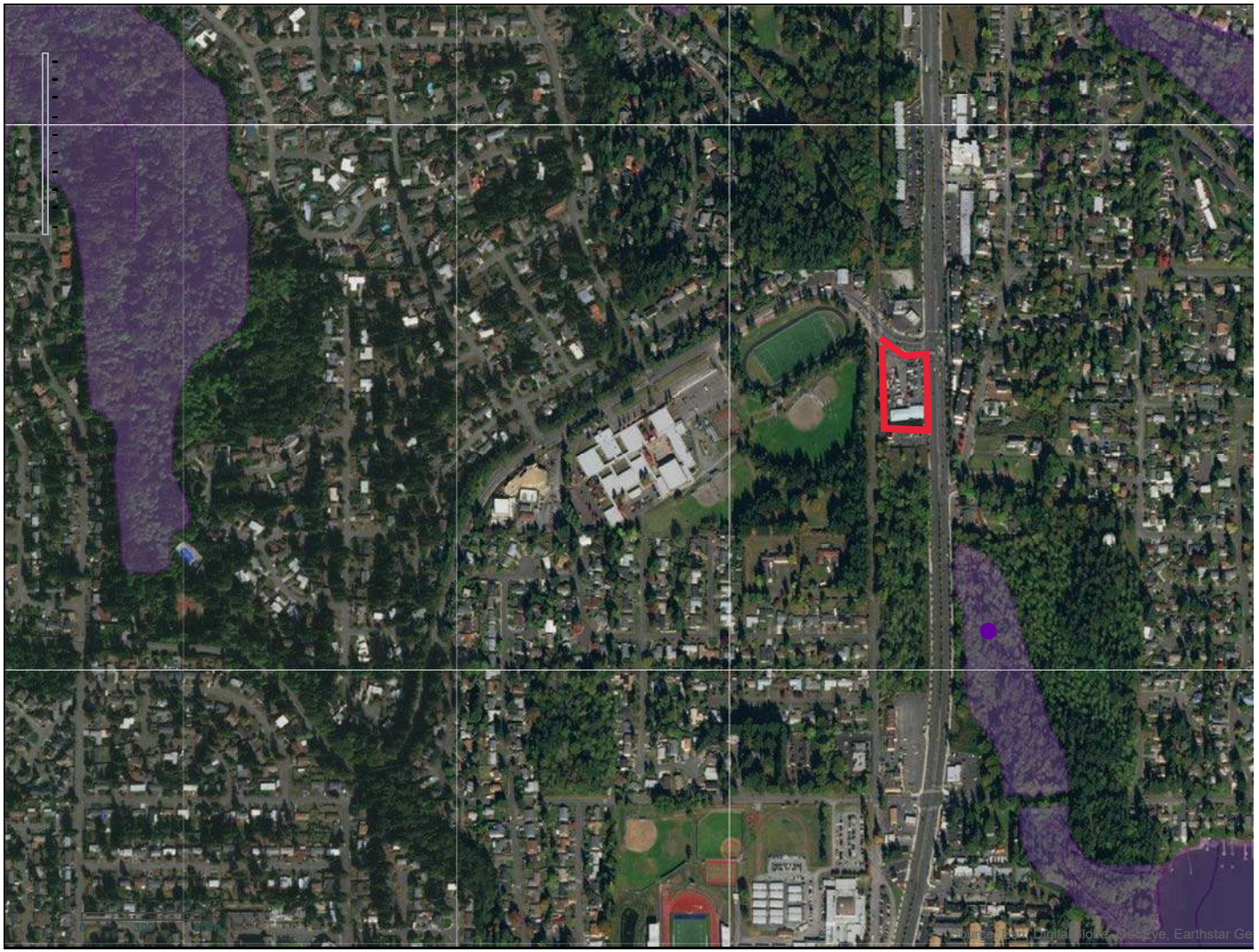
- Aerial
- Hybrid
- Boundaries
- Parcel
- Street
- Topography

Toggle PHS

- Turn PHS Data Off

PHS View Source

PHS Plus Public View (



FloodInsights

FloodInsights Report For:

Latitude: 47.335284 Longitude: -122.31271

Original Input Address: Latitude: 47.335284 Longitude: -122.31271

Flood Zone Determinations (Non-Guaranteed)

SFHA	Within 250 feet of multiple flood zones?
Out	No

Map Number

53033C1235F

Community	Community_Name	Zone	Panel	Panel_Dte	COBRA
530322	FEDERAL WAY, CITY OF	X	1235F	May 16, 1995	COBRA_OUT

FIPS	CensusTract
53033	0302.02

FloodMap Legend

Flood Zones

- Areas inundated by 500-year flooding
- Areas outside of the 100- and 500-year floodplains
- Areas inundated by 100-year flooding
- Areas inundated by 100-year flooding with velocity hazard
- Floodway areas
- Floodway areas with velocity hazard
- Areas of undetermined but possible flood hazards
- Areas not mapped on any published FIRM

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07/26/17

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King County

Send us an email

First Name

Matthew

Last Name *

Lopez

- (•) Yes I want an email response
- ( ) No need for an email response

Email * matthew.lopez@tgeresources.com

Phone 7137445822

Zip Code *

77040

Category *

Public Records Requests

Subcategory *

Other

Request Type *

Select a Request Type

Subject *

Environmental Records Request

Message *

This records request is for the Department of Natural Resources and Parks.
Could you please provide any information you have available regarding records of environmental complaints, inspections,

or violations at the following location in Federal Way, WA:

29805 Pacific Hwy S, Federal Way, Kings County, WA 98003

If you have any questions or need more information, please let me know.

Thanks

By clicking the submit button you accept the King County Terms of Use

Submit

I'm not a robot reCAPTCHA Privacy - Terms

OTHER WAYS TO REACH US:

Call us:

Phone: **206-296-0100**
Toll Free: **800-325-6165**
TTY Relay: **711**

Mail us:

King County building locations
Staff directory
Departmental listings

General Address:
King County Courthouse
516 Third Avenue
Seattle, WA 98104

Other popular services:

Order birth certificates
Buy a bus pass
Pay a district court payment
Appeal your property assessment
Apply for a pet license
Report illegal dumping
Get a marriage license
Apply for a building permit
Apply for plumbing, gas permits
Pay my property taxes

Public Records Request :: P016043-072017

KCSO Online Request System

Thu 7/20/2017 3:20 PM

To:Bryan Heath <Bryan.Heath@tgeresources.com>;

Dear Bryan:

Thank you for your interest in obtaining public records held by the King County Sheriff's Office. Your request has been received and is being processed. Your request was received in this office on July 20, 2017 and given the reference number P016043-072017 for tracking purposes.

Within five business days (excluding holidays) after receiving your request, we will:

- Provide the record(s);
- Or Acknowledge your request and give you a reasonable estimate of how long it will take to respond;
- Or Deny the request in writing, stating the reasons for the denial (this could also include a denial of part of your request and a granting of the remainder).

Record(s) Requested: Could you please provide any information you have available regarding records of spills, releases, or fires involving hazardous materials as well as underground and/or aboveground storage tank information at or in the vicinity of the following location in Washington: 29805 Pacific Hwy S, Federal Way, Washington 98003 Parcel No. 042104-9033 & 042104-9157 CAD map will also be attached to the following email. If you have any question please feel free to contact me. Thank you, Bryan Heath

Once the records have been collected, we will notify you of any copying charges. Any records or portion of records that are exempt from disclosure will be withheld or redacted. We will specify the exemption that applies to any documents withheld or redacted made.

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed. Again, thank you for using the King County Sheriff's Office online request system.

King County Sheriff's Office | Records Unit

SHERIFF KING COUNTY

(206) 263-2626 | www.kingcounty.gov/sheriff

If you wish to track or respond to this request, please login to the Online Request System.

APPENDIX D

INQUIRY #: 4994481.33

YEAR: 1943

= 500'

N

EDR

INQUIRY #: 4994481.33
YEAR: 1957
= 500'
N
EDR

INQUIRY #: 4994481.33
YEAR: 1965
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EDR

INQUIRY #: 4994481.33
YEAR: 1968
= 500'
N
EDR

INQUIRY #: 4994481.33

YEAR: 1972

= 500'

N

EDR

INQUIRY #: 4994481.33
YEAR: 1978
= 500'
N
EDR

INQUIRY #: 4994481.33

YEAR: 1980

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EDR

INQUIRY #: 4994481.33
YEAR: 1985
= 500'
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EDR

INQUIRY #: 4994481.33

YEAR: 1990

= 500'

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EDR

INQUIRY #: 4994481.33
YEAR: 1991
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N
EDR

INQUIRY #: 4994481.33

YEAR: 2005

= 500'

N

EDR

INQUIRY #: 4994481.33
YEAR: 2006
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N
EDR

INQUIRY #: 4994481.33
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INQUIRY #: 4994481.33
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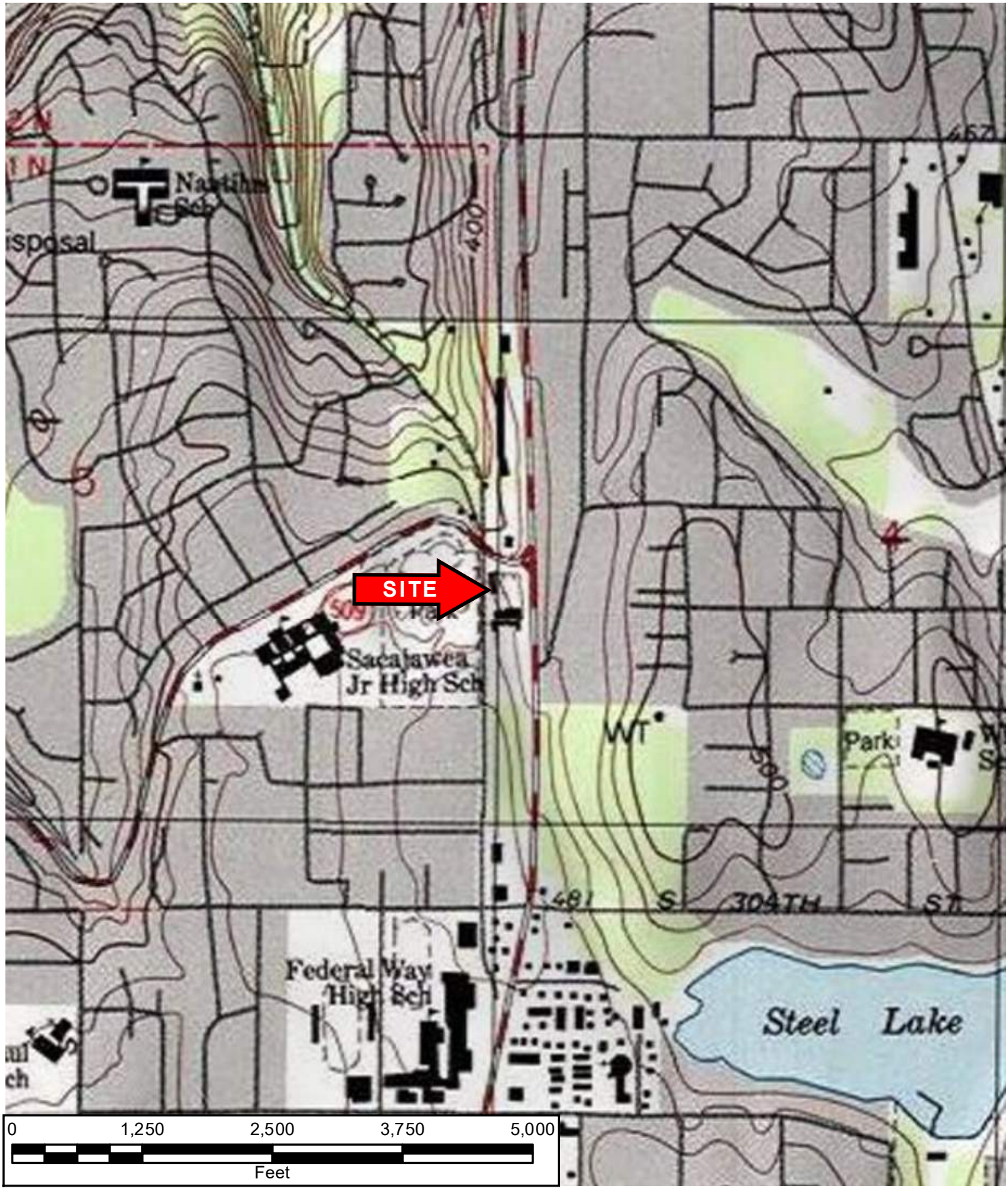
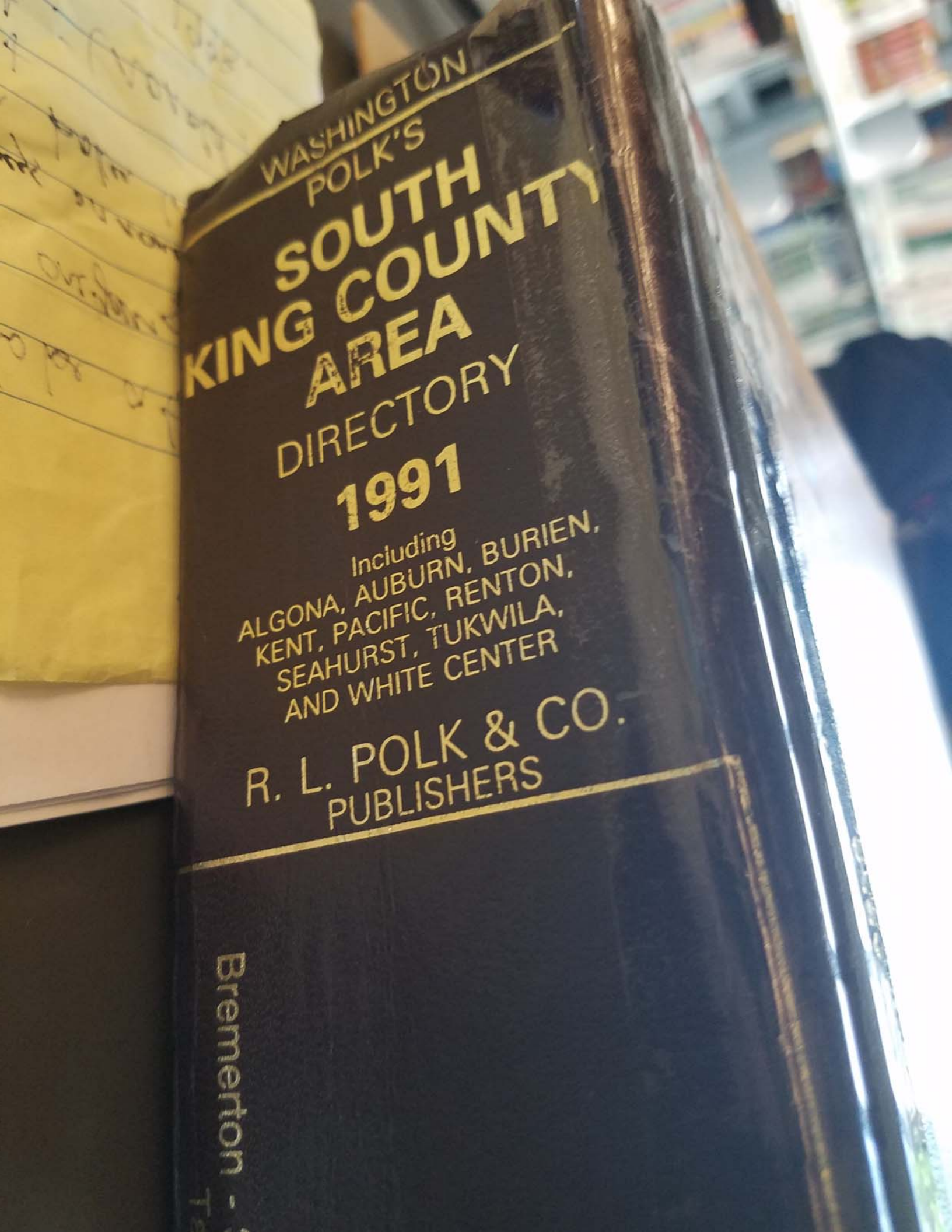
EDR



TGE Project No.: R13411.01

TGE RESOURCES, INC.
8048 Northcourt Road
Houston, Texas 77040

Topographic Map
USGS 7.5 Minute Series Topographic Map
Poverty Bay, Washington Quadrangle
1994


WASHINGTON
POLK'S
SOUTH
KING COUNTY
AREA
DIRECTORY
1991
Including
ALGONA, AUBURN, BURIEN,
KENT, PACIFIC, RENTON,
SEAHURST, TUKWILA,
AND WHITE CENTER
R. L. POLK & CO.
PUBLISHERS
Bremerton -

937 Mara Romeo 941-3439
938-939 Vacant (2 Apts)
28631 Vacant
28643 Fisher John R 941-1240
28707 Federal Way Florists florist 941-5060
28717 Butler Computer Service 941-9066
28717-a Viking Sewing & Vacuum Center ret vacuum cln 839-5249
28722 Federal Way Express Lane self serv gas & gro 839-2436
28727 Building
Suites
101-201 Vacant (3 Stes)
202 Emerald Data Systems comp software sls 941-3393
300 Washington Educational Benefits financial servs 946-5534
301 Cousins Construction Co bldg contrs 839-1470
28727 Tide Building ofc bldg
Arca Inc intl trader 839-1960

PACIFIC HWY S (FEDERAL WAY)_ 700

ZIP CODE 98003

28806 Redondo Texaco & Video Rentals gas sta 839-5396

28815 Building

Suites

1 State Farm Insurance 941-5577

2 Travel Store the travel agcy 941-6950

3 Federal Way Vision Center optom 839-1893

4 West Campus Church of Christ (Meeting Rm) 941-4574

5 Allied Commercial Group land develop 839-8390

6a Olin Mills 941-4556

video movie sls rentals

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o of Puget Sound

TS
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970
9-5859
41-9324
6-3120

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6-4187

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-5023

ar sls

regory
839-0998

A104★Tingley Chas 946-2791
A105 Taylor C David
A106 Vacant
A201★Hope Nan 946-3312
A202★Gumbaro Linda
A203 Vacant
A204 Staats Robt
A205★Gregory M L 946-2538
A206 Randell Robt E 941-4563
A301 Bruner Margt
A302 Davis Jas
A303★Philips Valerie
A304 Chidley Vicky
A305 Dyck Philip
A306 Mc Allister Michl

29500 Building
Suites
A Crystal Spa 839-2726
B Quest N W Realty 941-7770
C Quest N W Rlty (Addl Sp)
D Vacant
E Academy of Martial Arts karate sch 941-8448
F S D N Inc 839-4300
G Quality Carpet Cleaners 839-6565
H-J Vacant (3 Stes)
K Noggins & Nails Styling hair & nail styling 941-2548
L Adage Electrolysis 941-2548
M Cave Man Kitchen dist ofc 839-0748
M Garrett C P A Service c p a's 941-4670
N Good Used Furniture sls 941-3797
O Kings Fine Furn new furn sls 941-3797

29625 Jump's Union gas sta 839-3023

S DASH POINT RD INTERSECTS

29805 Green Connection greenhse 839-8804
Rental Marts Inc equip 839-8804

18TH ST INTERSECTS

29815 Federal Way Motel 941-6996

29918 Building
Suites
1 Roberts Paul Image Maker mfg sls mens hairpiece 941-9131
2 Vacant

29928 Smart Start Day Care Cntr 839-4900

30315 Dynasties Restraurant the restrs 839-8190

30318 Vacant

B201 Vacant
B202★Brandon Cathy
B203 Kwon Young Oun 941-2851
B204★Beard Hersial M 839-8401
B301 Kim Chong Suk 941-9443
B302★Davis Theresa 941-3526
B303★Douglas Toni 941-8486
B304 Vacant
C101 Turner Arth R 941-3719
C102★Charvell S L
C103★Hilf H 946-9477
C104★Wardrup Stacey 946-
C105 Vacant
C106★Eller Earl D 946-298
C201 Vacant
C202 No Return
C203 Vacant
C204 Maxwell Mona
C205 Mayhew Al
C206★Ohmire R 839-51
C301-C303 Vacant (3
C304 Rolette G
C305★Mellin Marc 94
C306 Scheide Celia
D101★Porter Dougla
D102 Vacant
D103★Hospenthal
D104★Olson Tim
D105 Geary Howa
D106 Vacant
D201 Mead Gary
D202 Moore Do
D203★Colby St
D204★Lynch T
D205★Nguyen
D206 Clark E
301d★Carey
302d★Kim S
D303★Hirsc
D304 Reo J
D305★Bido
D306★Zan
E101 Rob
E102★Le
E103 Va
E104 Sh
E105★B
E106 S
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E202★
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E205

merican Development Corporation
d development 946-3070
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Animal Hospital 839-4744
Italian Restaurant

(2 Hses)
ors 839-6403
uto Body Inc 839-3279
surance 941-9800
sociates Inc real est

nce Group 839-3160
House of Styling
839-0667
Design nail salon

specialty sporting

buy sls diamonds

)
Loose hair design

sage Clinic

abor Committee

Eatery

ifts &

vie sls rentals

sls

C101 Ho Tvan Anh
C102★Gregory P 839-4506
C103★Smith Jeff 946-2804
C104 Fiedelak Sylvia
C105 White Ronald
C106★Storey Julia A 839-6783
C201 Johnson Judy
202 Martin Virginia
C203★Harris E H 946-0898
C204★Bayless Mark 839-6048
C205★Bennett Scott 941-4732
C206★Mc Intyre N 839-5593
C301 Follis Steph 941-8739
C302★Treffers Susan 946-5290
C303★Kuebler Jonathan 839-3668
C304★Bennett Leigh
C305 Vacant
C306 No Return
29416 Vacant
29418 Aquarius Travel trav agcy 839-4270
29421 Viul Del Mar Apts (B-Bldg)
B101 Austin Arth
B102★Dolan S
B103 Neigel Anthony
B104 Mitchell Debra 839-7975
B201★Stevenson L A 839-6497
B202★Henley Rod 946-6728
B203★Trumbo C
B204 Riley Jerome
B301 Bodyfelt David
B302★Coval Michl 839-1356
B303★Plummer Heidi 941-7106
B304 Christensen Wendi
29424a Vacant
29424b Dewey Stevens Northwest Inc constn 839-3238
29424-c Allstate Insurance ins 941-4411
29426 Vacant
29431 Villa Del Mar
A101★Pelissier Steve 946-2592
A102 King Kelley
A103 O'Neill Jas
A104★Tingley Chas 946-2791
A105 Taylor C David
A106 Vacant
A201★Hope Nan 946-3312
A202★Gumbaro Linda
A203 Vacant
A204 Staats Robt

30233 Sea Galley restr 941-4888
30390 Century Twenty One You 941-3000
S 304TH ST INTERSECTS
30402 Lonnies Radiator Servic & serv 839-6454
Holz Al Auto Service
30410 Vacant
30415 Suds & Clean Arco
Suds & Clean
30417 Suds & Clean (Addl
30419 Quick Fix Windshi windshield repr
30420 Steel Lake Motel
Loher Geo ◎ 839
30423 Mayhew Chiropr 941-8600
305TH PL S (FW)
30504 Zaran Sayre & properties m
Rental Resear
30509 Pennzoil 10 lubricators
30602 Chateau on
A101 Thom
A102★Mill
A103★Ost
A104★Til
A201 Fle
A202★W
A203 V
A204★
A301★
A302
A303
A304
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B1
B
B

1997

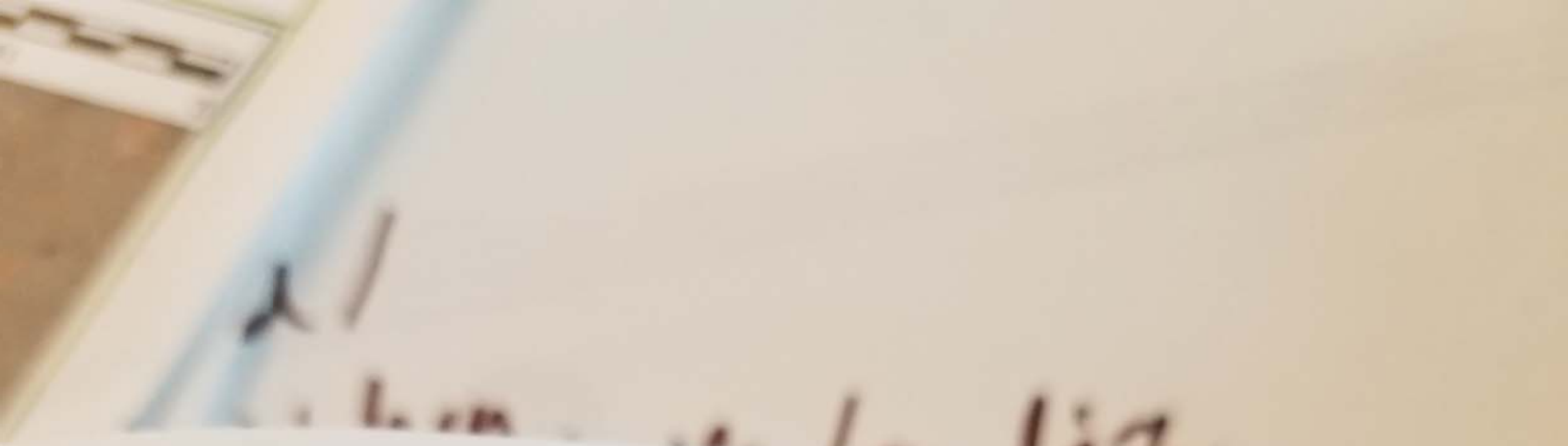
Polk

Cross-Reference

Directory

SOUTH KING CO.

WASHINGTON



cont'd		
	CarrRte	Phone
2	C091	946-2361
2	C091	941-9830
2	C091	941-9830
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	C091	941-0844
	C091	941-4608
	C091	941-4608
	C091	946-2177
	C091	946-3610
	C091	946-2641
	C091	946-7978
	C091	941-8527
	C091	941-3439
	C091	941-4873
	C091	946-2151
	C091	941-1873
	C091	839-0907
	C091	839-0907
	C091	946-1544
	C091	839-8655
	C091	529-0427
	C091	946-2755
	C091	946-1859
	C091	529-8773
	C091	941-8878

S PACIFIC HWY

Address	Zip+4	CarrRte	Phone	cont'd
Hanline Lee	-9231	C091	946-1349	
Hua Steven T	-9231	C091	839-2256	
Hung Mai	-9231	C091	941-4626	
Ilnitskiy Anatol	-9231	C091	529-3525	
Ilnitskiy Lyubov	-9231	C091	529-3525	
Ischenko Andrey	-9231	C091	839-2483	
Ischenko Zina	-9231	C091	839-2483	
Katko Konsta	-9231	C091	529-2160	
Katko Tamara	-9231	C091	529-2160	
Keosarika Khanth	-9231	C091	839-5369	
Khlevnoy Lusly	-9231	C091	946-6770	
Khlevnoy Valent	-9231	C091	946-8430	
Lahue C	-9231	C091	529-0355	
Lahue M	-9231	C091	529-0355	
Lahue Rose	-9231	C091	839-6024	
Lahue Todd	-9231	C091	839-6024	
Lake Leon	-9231	C091	839-2943	
Littell J	-9231	C091	946-9290	
Lopez Rosa	-9231	C091	839-2609	
Lopez Rosa Jr	-9231	C091	839-2609	
Lopez Samuel Jr	-9231	C091	839-2609	
Montano Bernard	-9231	C091	941-5642	
Nielsen Nalel	-9231	C091	946-5709	
Padilla Rafael	-9231	C091	839-5689	
Patterson Gregory	-9231	C091	529-3928	

S PACIFIC HWY

Address	Z
WINSBERG INSURANCE	
Hunt Robert C	
29007 ALL MARTIAL ARTS SUPPLI	
29100 FRIENDLY	
CLYDE'S PUB	
HOLIDAY SP	
ILWU	
LOVE PANT	
VIDEO BLU	
29130 BORN AG	
CHILDREN	
RESALE	
PROGRES	
FIGHTING	
ARTS	
29209 GENEVA	
INTERIO	
29223 WILSO	
TROPH	
29225 APOL	
29314 ALL T	
LUBE	
BALLE	
CASC	

-3088 C091 941-2843
-3088 C091 529-8961
-3088 C091 529-3224
-3088 C091 941-6178
-3088 C091 941-8502
-3088 C091 946-2225
-3088 C091 941-6820

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286 C091 941-2705
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91 946-2366
91 839-8626

1 941-5739

1 529-1837

529-8364

529-8364
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941-0306
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839-7859
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DATA BOFF ..... -3876 C094 941-4571
FEDERAL WAY ..... -3876 C094 946-1690
VISION &
CONTACT
GARY ADAMS & ..... -3876 C094 839-1893
ASSOC
IMPACT ..... -3876 C094 839-4585
ENGINEERING
INC
JERRY L MC ..... -3876 C094 839-0804
KAY
NATIONAL PIPE ..... -3876 C094 941-4328
& PILING
INC
QUALTAIR INC ..... -3876 C094 941-7000
STATE FARM ..... -3876 C094 839-8802
INSURANCE

TIDE ..... -3876 C094 941-5577
CONSTRUCTION
CO
WESTERN ..... -3876 C094 839-5600
COMMERCIAL
REAL
ESTATE
Adams Gary ..... -3876 C094 941-6600
Adams Gary ..... -3876 C094 839-4585
Anderson
Douglas G ..... -3876 C094 925-5203
Nakamoto Ava M.. -3876 C094 941-9771
Rees Ann ..... -3876 C094 839-1893
Schneider
Richard H ..... -3876 C094 839-5321

28822 CRESTWOOD
ANIMAL
HOSPITAL ..... -3802 C094 839-1893
Ellison Russell E .. -3802 C094 839-4744

28835 VERRAZANO'S
BANQUET VIEW .. -3802 C094 839-4744

28850 Benson I ..... -3801 C094 946-4122
Bensonberg I ..... -3802 C094 839-1565

28866 STUDIO IV
DESIGNER HAIR.. -3802 C094 839-1565

28872 M D
AUTOMOTIVE ..... -3802 C094 839-3960
SOUND VIEW
AUTO
BODY ..... -3802 C094 946-4410

29001 Briggs C M ..... -3805 C094 839-3279

29005 GUYS & GALS
HAIR DESIGN ..... -3805 C094 946-8767

-3805 C094 839-0667

NORTHWEST ..... -3800 C094 941-
INC
PACIFIC ..... -3800 C094 94
BUILDERS
Burnett Jeff ..... -3800 C094 9
Tiffany Ralph ..... -3800 C094 9
29426 SALON BEBE ..... -3800 C094
HAIR & NAILS
29431 Blakley Linda ..... -3829 C094
Boyer Michael ..... -3900 C09
Conley E T ..... -3900 C09
Doherty Scott ..... -3900 C0
Hoverson Megan ..... -3900 C0
Hoverson Steve ..... -3900 C
Messer Mark ..... -3900 C
Romano Thomas ..... -3900 C
G
Turk Steve ..... -3900
Williams T M ..... -3900
29500 A MELODY ..... -3900
MUSIC CO
CRYSTAL SPA ..... -387
&
MASSAGE ..... -3
HOLE IN THE
WALL/PAINTBALL

MILITARY
SURPLUS
MOVE YA
PRODUCTIONS

QUALITY
CARPET &
UPHOLSTERY

REEL THING
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29625 509 DE
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CarrRte	Phone
31 C091	946-1349
31 C091	839-2256
1 C091	941-4626
1 C091	529-3525
1 C091	529-3525
C091	839-2483
C091	839-2483
C091	529-2160
C091	529-2160
C091	839-5369
C091	946-6770
C091	946-8430
C091	529-0355
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C091	839-6024
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091	946-9290
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91	946-5709
91	839-5689
91	529-3928
91	839-3659
1	839-3114
1	839-4046
1	946-4790
1	529-3783
	839-5369
	529-0672

S PACIFIC HWY

Address	Zip+4	CarrRte	Phone
WINSBERG INSURANCE			
.....	-3805	C094	941-9800
Hunt Robert C	-3805	C094	839-3160
29007 ALL MARTIAL ARTS SUPPLIES..	-3805	C094	941-0460
29100 FRIENDLY CLYDE'S PUB	-3877	C094	941-9261
HOLIDAY SPA.....	-3877	C094	941-9108
ILWU.....	-3877	C094	839-8858
LOVE PANTRY.....	-3877	C094	839-5683
VIDEO BLUE	-3877	C094	839-2675
29130 BORN AGAIN CHILDREN'S RESALE	-3807	C094	529-1787
PROGRESSIVE FIGHTING ARTS	-3807	C094	839-6495
29209 GENEVA'S INTERIORS	-3808	C094	839-9490
29223 WILSON TROPHY CO.....	-3808	C094	839-5424
29225 APOLLO SPAS...	-3808	C094	471-0321
29314 ALL TUNE & LUBE	-3863	C094	839-7143
BALLET CASCADIA DANCE ARTS LTD ...	-3863	C094	874-2258
EFBEE HAIR DESIGN	-3863	C094	529-8661
HOUSE OF TV.....	-3863	C094	328-0500
PIZZA TIME.....	-3863	C094	946-9000
29400 Ford David M.....	-3829	C094	529-0876
	-3829	C094	529-0876

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Address
RENTAL MART
LANDSCAPE SUPPLY
29815 FEDERAL W
MOTEL .....
29918 A PLUS CRUISE SH
LARRY NORDBER
REAL ESTATE
29928 SMART DAY CA
30315 DYNAS RESTA
30333 SONN CASIN REST
30390 EME ENT
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31 C091 839-5369
31 C091 529-0672
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1 C091 839-8134
1 C091 839-2647
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C091 941-3866
C091 941-3866
C091 941-6463
C091 529-3602
C091 529-3079

C091 941-8149
C091 839-9468

091 839-1200

91 946-9070
91 941-1240

91 941-5050
91 839-5202

946-0389

839-7765

839-0595

946-1597

941-9478

46-6251
46-2717

6-1110

9-5396
9-5321

-4574

HOUSE OF TV -3863 C094 529-8661
PIZZA TIME -3863 C094 328-0500
29400 Ford David M -3829 C094 946-9000
Ford Sherri -3829 C094 529-0876
29401 VILLA DEL MAR -3903 C094 946-2970
Balista A J -3903 C094 946-3608
Buswell D -3903 C094 839-3854
Edmonds B A -3903 C094 529-0342
Hamilton William J -3903 C094 946-5947
Heitz Tony -3903 C094 941-7438
Jenkins Robert -3903 C094 839-9149
Keltner Lynn -3903 C094 946-2088
Kion Gordon III -3903 C094 529-9225
Lammers Jason -3903 C094 839-2263
Lammers Rebecca -3903 C094 839-2263
Medina Melba -3903 C094 946-5712
Paulsen D -3903 C094 946-3266
Paulsen G -3903 C094 946-3266
Petermann Jeff C -3903 C094 946-8167
Pullen J -3903 C094 529-1980
Sevigny Melody -3903 C094 529-2488
Smith Margaret -3903 C094 529-2950
Ziegenfuss Taimi L -3903 C094 941-1731
29404 CASCADE CELLULAR -3829 C094 941-0777
29411 Avanozian Chris -3902 C094 941-5634
Godfrey Dean -3902 C094 839-3203
Hammond Daryl -3902 C094 946-4351
Kapitonenko Anatol I -3902 C094 941-2501
Kirkendall Kathar -3902 C094 529-0579
Lee Chad -3902 C094 941-6416
Leman Ed -3902 C094 839-1633
McLaren Mary -3902 C094 839-9226
Subject Denise -3902 C094 946-7713
Zuyev Sergey M -3902 C094 946-1478
29412 C & W TAX CO -3829 C094 839-6340
29418 ELECTRICAL BANNANA ESPRESSO -3829 C094 946-8234
29421 Futie Robert F -3901 C094 839-5495
Speers Nicki -3901 C094 839-9058
Wittenmyer Jeff -3901 C094 529-3206
29424 ALLSTATE INSURANCE -3800 C094 941-4411
EXPRESS NORTHWEST INC -3800 C094 941-4606
PACIFIC BUILDERS -3800 C094 941-2222
Burnett Jeff -3800 C094 941-4411

30402 AL HOLZ AUTO SVC -4816 C043 946-2500
30405 SUDS & CLEAN -4816 C043 941-0464
30414 SALON UNIQUE -4815 C043 839-5990
30418 BIG JER'S BARBER & STYLING -4816 C043 941-0466
30420 ALWAYS FLOWERS -4816 C043 941-906
COFFEE EUROPA -4816 C043 946-1
IMAGE MAKER HAIR PIECES -4816 C043 941
VINCES CONSTRUCTION -4816 C043 94
Loher George -4816 C043 8
30421 FEDERAL WAY AUTO GLASS -4815 C043
30423 MAYHEW CHIROPRACTIC OFFICE -4815 C04
30504 RENTAL RESEARCH INC -4818 C0
ZARAN SAYRE & ASSOC INC -4818 C
30509 PENNZOIL 10 MINUTE LUBE STOP -4817
30602 CHATEAU ON THE LAKE APTS -485
Acuna Jose A -485
Adsit Russell -48
Apoloni Daniel -48
Backman Ana -4
Backman Shane -4
Beard Hersial M -
Beardsley Claudia
Beardsley Dean
Beetham Richard
Bossie Joan E
Brandon M
Burns Sean T
Childs James
Choe C
Clark J C
Columbus Ric
Crawford Pau
K
Custer Al A
Darrow J
Davis Adam
Deboughzi
Lita

29500 A MELODY MUSIC CO ..... -3900 C094 839-7567
CRYSTAL SPA & MASSAGE ..... -3878 C094 946-3048
HOLE IN THE WALL/PAINTBALL ..... -3878 C094 839-2726
MILITARY SURPLUS ..... -3878 C094 639-3099
MOVE YA PRODUCTIONS ..... -3878 C094 941-4473
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REEL THING ..... -3878 C094 839-6565
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TATTOO ALLEY ..... -3878 C094 839-6230
XOTIC TAN ..... -3878 C094 946-9447
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29625 509 DELI & TOWN PUMP BP ..... -4232 C094 839-1653
29805 40 RENTALS ..... -4232 C094 941-1611
FORTE RENTELS ..... -4233 C049 927-1011
PENSKE TRUCK LEASING CO ..... -4233 C049 839-6700
-4233 C049 839-2969

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te Phone

941-9800
839-3160
941-0460
941-9261
941-9108
39-8858
39-5683
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29-1787
9-6495
9-9490
9-5424
-0321
-7143
-2258
-8661
-0500
-9000

S PACIFIC HWY cont'd

Address	Zip+4	CarrRte	Phone
RENTAL MARTS LANDSCAPE SUPPLY	-4233	C049	839-8804
29815 FEDERAL WAY MOTEL	-4233	C049	941-6996
29918 A PLUS CRUISE SHOP	-4234	C049	874-6000
LARRY NORDBERG REAL ESTATE	-4234	C049	874-8000
29928 SMART START DAY CARE	-4234	C049	839-4900
30315 DYNASTIES RESTAURANT	-4235	C043	927-6232
30333 SONNY'S CASINO RESTAURANT	-4235	C043	529-3970
30390 EMERALD ENTERTAINMENT	-4286	C043	441-2350
MARK S KNAPP LAW OFFICE	-4286	C043	529-1814
SALON CAPELLI CAPELLI	-4286	C043	839-6425
YOUNG HOMES REALTY	-4286	C043	941-3000
Knapp Mark S	-4286	C043	529-1814
Knapp Mark S	-4286	C043	946-2500
30402 AL HOLZ AUTO SVC	-4816	C043	941-0464
30405 SUDS & CLEAN	-4815	C043	839-5990

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Address	Zi
Pham Dahn	
Reece J L	
Reedy Kristin	
Rodriguez Debbie	
Rodriguez Umberto	
Rosales Antan	
Schmidt E M	
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Shaw John	
Spencer Jar	
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Stevens Th	
Thompson	
Tillman De	
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Vogel	
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102	Batson M	-5334	C003	735-2189	
	Butler David	-5334	C003	833-8480	
	Deleris Laura	-5334	C003	939-8339	
	Peters Karen	-5334	C003	931-8946	
	Tedrow Randy	-5334	C003	735-2956	
	Thompson Mary	-5334	C003	939-9809	
112	Mattingly W J	-5322	C003	735-8055	
	Upson Charlo E	-5322	C003	804-8542	
118	Leick Durella	-5322	C003	735-8792	
205	Lira Ruben	-5321	C003	833-2863	
206	Anderson Scott	-5320	C003	804-0836	
209	Allen Mary P	-5321	C003	939-9228	
	Allen Rik	-5321	C003	939-1629	
210	Tam Donna K	-5320	C003	351-5034	
	Tam Elmer G	-5320	C003	939-0346	
213	Dierst Jeremy	-5321	C003	804-5527	
	Starcher Ellen	-5321	C003	804-4200	
217	Merkel Skip	-5321	C003	735-2927	
223	Cranford D V	-5321	C003	833-0930	

HOUSEHOLDS 25

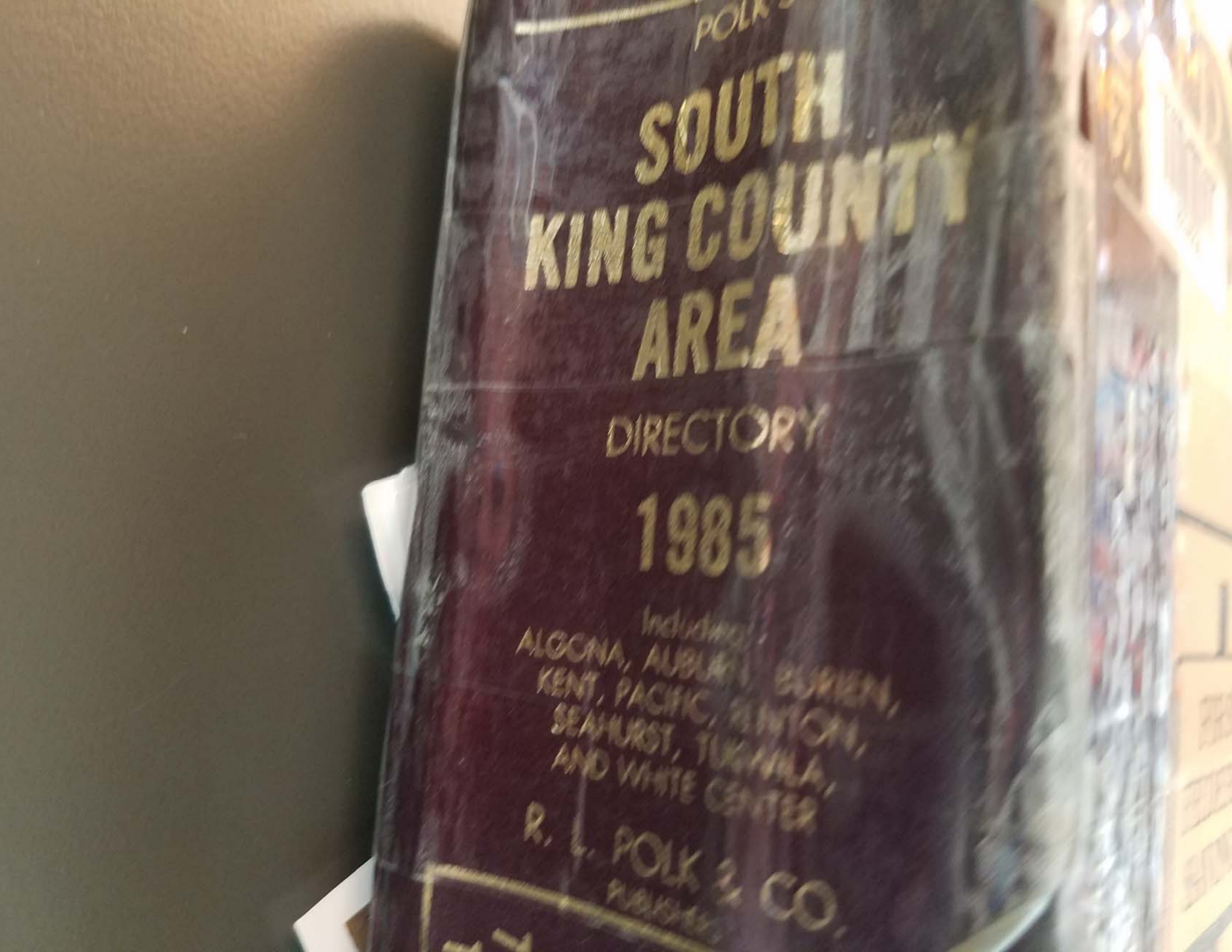
S DASH POINT RD *(F)* 98003

833	Morris J C	-3733	C082	941-2171	
	Morris Jimmy D	-3733	C082	839-5738	
841	Perras Robert D	-3733	C082	946-8921	
845	Hartung Leslie A	-3733	C082	839-7072	
901	Parrott Deanna	-3734	C082	941-4369	
	Parrott Randy	-3734	C082	946-5005	
909	Hay James W	-3734	C082	839-5375	
941	CHRIST'S CHURCH FEDERAL WAY	-3734	C082	941-2711	
1101	SACAJAWEA JUNIOR HIGH SCHOOL	-3735	C040	839-7650	
1500	JAMES D BURBIDGE DDS	-3753	C040	839-2800	
	Burbidge James D	-3753	C040	839-2800	
	Burbidge James D	-3753	C040	952-3566	
1520	JEAN'S GROCERY	-3753	C040	839-4393	
1524	JEFF GREENE ASSOC INC	-3753	C040	941-5110	
	JEFFREY L GREENE ASSOC	-3753	C040	941-4937	
	Greene Jeffrey L	-3753	C040	572-9615	
	Greene Jeffrey L	-3753	C040	941-4937	
1530	SACAJAWEA VETERINARY CLINIC	-3753	C040	927-0406	
	Harris Lee R	-3753	C040	941-3900	

BUSINESSES 7 HOUSEHOLDS 12

SW DASH POINT RD *(F)* 98023

804	Moore Robert	-8240	C063	941-3329	
825	Morton A M	-8260	C063	941-7999	
	Morton Carolyn	-8260	C063	946-5063	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G Federal Way Vision Clinic glasses 839-1893
H Allstate Insurance Co 941-4411
1 Herbalife Distributors Northwest Training Center nutrition 941-9671
J Rosana's window covering 946-0056
K Emerald City Brokers pre-owned hm sls 839-3561
L Ceasar's World Resorts exclusine travel agcy 941-3700
M Vacant
N Vacant
O Vacant

29625 Jump's Union gas sta 839-3023

S DASH POINT RD INTERSECTS

29805 Rental Marts Inc equip rental 839-6700

18TH ST INTERSECTS

29815 Federal Way Motel 941-6996

Suites

1 Biofeedback Psychogenics Counseling cert hypnotherapist 839-1411
2 Chukar Claims Service property & casualty adj 941-7101

29928 Punkin Inn Day Care Center 839-4900

30318 Spectrum youth disco & arcade 839-9074

30390 Century Twenty One Young Homes 941-3000

S 304TH ST INTERSECTS

chiro 941-6265
hiro 941-6265
ater Warehouse sls

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Nutrition Store

Shopping

1-2900

Goods 941-2900
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ntals gas

Inc

3 Ding Hao Market gro 839-2284
4 Vacant
5 Star Trak Satellite System computer sys 941-0760
6 First Equity Listing 839-2000
7 Vacant
8 Love Pantry adult gifts & novelities 839-5683
9 Vacant
12 Grannies Tavern & Eatery 839-9090

29200 First Equity Homes sls & serv mobile homes 941-4960
Rear Federal Way Upholstery 839-0145
29209 Geneva's Draperies 839-9490
29223 Wilson Trophy Co Of Puget Sound 839-5424
29225 Fireplace Center The sls wood stoves 941-8500

S 293D ST INTERSECTS

29314 Midway Plywood & Supply Co lbr & plywood ret 839-2450
29325 Harris D G
29400 Proulx Jos L 839-4789
29404 Avanti Northwest Inc
29408 Seatac Fire Place Shop-Div Gregory Enterprises sls wood stoves 839-0998
29416 C & W Tax income tax serv 839-6340
Case Morris A patent atty 839-5221
29418 Aquarius Travel 839-4270
29420 Vacant
29422 No Return
29424 Ronaco Inc mini marts 839-3555
29426 Ginger Spice Of Federal Way beauty salon 941-1663

Suites

A Vacant
B Rhodes Enterprises bldg contr 839-4003
C Vacant
D Vacant
E Northwest Classic Home Improvement Center 839-6951
F Personnel Pool

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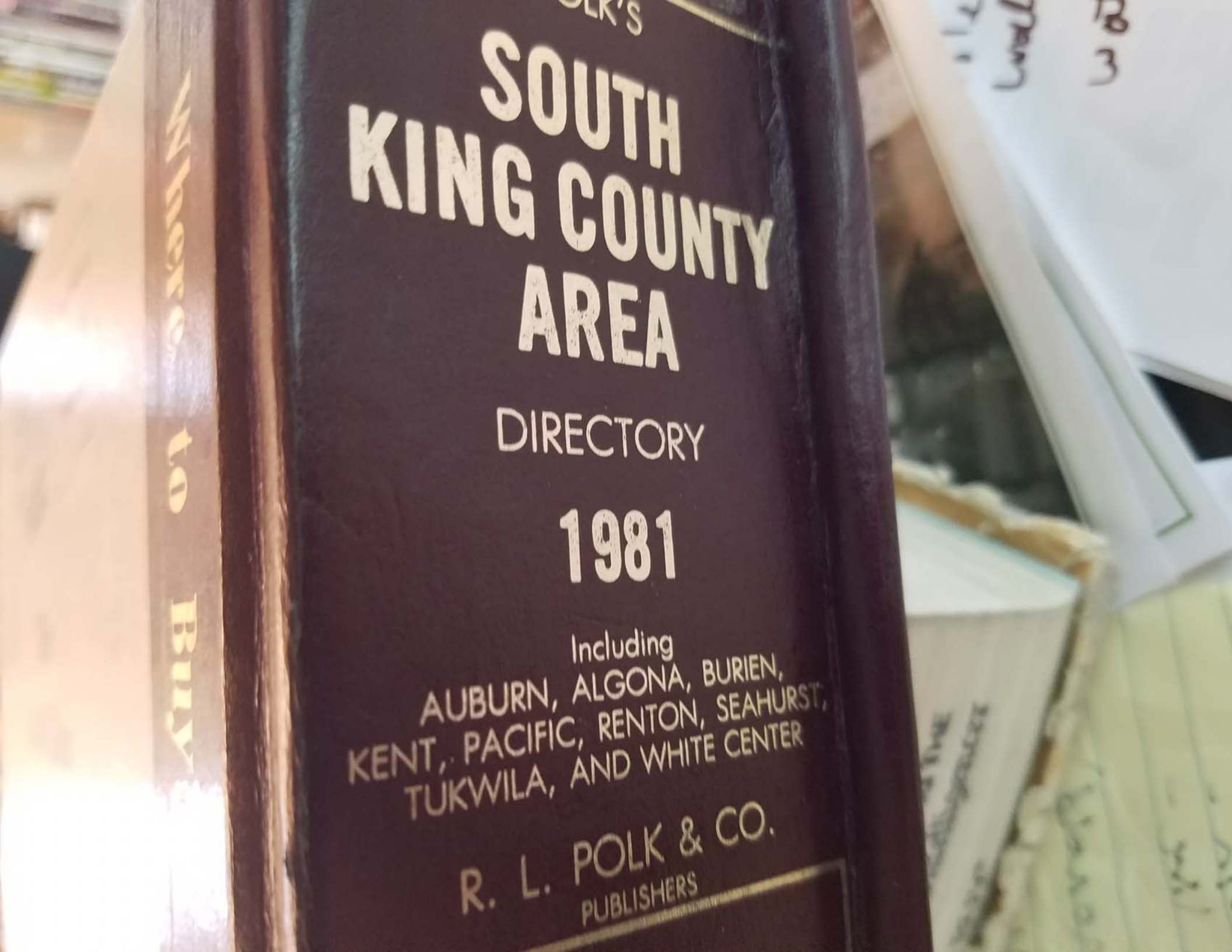
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25009 Interstate Transmission auto repr 839-1634
25011 Business Tax Services 839-4400
25013 Midway Frame & Wheel Alignment auto repr & serv 941-4424
25015 Vista Plaza
25017 Sign Makers 824-7426
25026 Best Body & Fender auto body repr 941-2330
25028 Marben Marine boat bldrs 839-0222
25032 Northwest Truck Works Inc body repr 941-7400
25040 Eternal Temple Of Truth & Light church 941-0882

Apartments

1★Judy Delores E
2 Caso S
3★Cahill L
4 Mc Euen Jim
5 Truitt Michl
6 Forbes Mar 839-4224

28815 Money Tree Restaurant 941-3330
28822 Crestwood Animal Hos
28835 Vitale's Italian Restau
28838 Beaver Wood Carvers 941-0166
28850 Vacant
28866 Vacant
28872 Rich's Corvette Sp repr 839-8484
28888 Under Constn
29001 Mc Lean & Ass 839-5500
29005 Guys & Gals beauty salon
29007 House Of Di diving instr
29209 Geneva's D
29223 Wilson Tro 839-5424
29225 Vacant
29233 Hale Joh
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29305 No Retu

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Auto auto sup

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Goods 941-2900
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29416 C & W Tax income tax serv 243-1240
29418 Case Morris A patent atty 839-5221
29420 Aquarius Travel 839-4270
29422 Aquarius Trav (Sub Ofc)
Navigator The religious org 941-5712
Vacant
29426 Ginger Spice Of Federal Way beauty salon 941-1663
29625 Jump's Union gas sta 839-3023
S DASH POINT RD INTERSECTS
29805 Rental Marts Inc equip rental 839-6701
18TH ST INTERSECTS
29918 Great Northern Protective Services Inc security co 839-0412
Vacant
29928 Punkin Inn Day Care Center 839-4900
30318 Sectrum youth disco 839-9074
30333 Sea Galley Restaurant 941-4888
S 304TH ST INTERSECTS
30402 Holz Al Auto Service auto repr 941-0464
30410 Vacant
30415 Mister Sudsy Arco gas sta 849-5990
30417 Mister Sudsy Car Wash Inc 849-5990
30419 Five Minute Car Wash self-serv
30420 Steel Lake Motel 839-3151
Loher Geo ◎
30423 Land & Home Inc real est 839-2220
30504 Mc Intosh Realty 839-3391
30509 K's Super Lub lubricators 941-3400
30602 Chateau Le Clare apts 839-0880
A101 Dall David J
A102 Rogers Roy
A103★Watson D
A104 Nance Lu Anne 839-1732
A201★Qunkhan A
A202 Rae Dale T
A203★Lally C M 839-5050
A204★Van Slyke B
A301★Mellinger L
A302 Vacant
A303★Hudspeth R

C301 Vacant
C302★Mead C
C303 Monson Ed
C304 Jones David A
C305 Vacant
C306 Vacant
D101★Foster R
D102★Shipley T
D103★James W
D104 Vacant
D105★Rhodes D
D106★Rayburn A
D201★Chul Lee
D202 Wiseman Ed 941-4164
D203★Thompson Larry
D204★Parson Wm
D205★Allan J
D206★Ditto L
D301★Wagner R
D302 Vacant
D303 Mc Geary Wm D
D304 Vacant
D305 Baker David
D306★Carr K
E101★Qunkham B
E102★Kelley R
E103 Traves M
E104★Shook M
E105★Thornsberry
E106★Medina R
E201★Nguyen S
E202★Akason S
E203★Schlenke
E204★Lackma
E205 Nelson
E206 Vacant
E301★Stier
E302★Weig
E303 Wisn
E304★Ran
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F102★E
F103★
F104★
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29305 No Return
29314 Midway Plywood & Supply Co lbr & plywood ret 839-2450
29325★Kessack R Scott
29400 Proulx Jos L 839-4789
29404 Greenacres South Daycare 839-2422
29408 Milo's Place second hand store 941-6989
29416 C & W Tax income tax serv 243-1240
Case Morris A patent atty 839-5221
29418 Aquarius Travel 839-4270
29420 Aquarius Trav (Sub Ofc)
29422 Navigator The religious org 941-5712
Vacant
29426 Ginger Spice Of Federal Way beauty salon 941-1663
29625 Jump's Union gas sta 839-3023
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18TH ST INTERSECTS
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Vacant
29928 Punkin Inn Day Care Center 839-4900
30318 Sectrum youth disco 839-9074
30333 Sea Galley Restaurant 941-4888
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224 Castle Calvin B acct 941-1776

STREET CONTINUED

24806 Automotive Marketing Inc auto repr 839-2225

24800 State Farm Insurance sensitivity center 839-2510

24808 Children's World Christian Day Nursery preschool 839-2559

24810 Midway Landfill Reclamation Site 839-5234

24816 Mid-City Materials Inc mason sups 839-5772

24842 Franklin Steve 839-2282

24900 Midway Storage Center (Whses) 242-2788

25006 Sunset Motel 839-6659

25009 Midway Transmission Service auto repr 839-1633

25026 Best Body & Fender auto body repr 941-2330

25040 Country Broiler restaurant 839-0960

Tralnas Jewel Mrs Apartments

1 Haupt Betty 839-7844

2 Vacant

3★Lumbert Lester

4 Gould

5★Mullins Loren

6 Rabey Frank

7 Junker Joan 839-8933

8 James Raymond H

9★Cooley K 839-8298

PARK AV (AUBURN)—PAC
NE EAST

ZIP CODE 98002

308 Park Avenue Apartments
1★Berg M Ruth
2★Lindblom Anne
3 Merila Hilda M
4 Utz Mildred

316 Park Av Apartments
1★Olson Jim
2 Hopkins Janet M
3 Maryanski Michl
4 Mohn Betty

324 Adamson Glenn @

325★Stolikers Dornford W @

327 Larson Gene @

330 Solomon Edw @

331 Yourglich Todd

332 Lavin Richd W @

335★Allen Darleen

336 Gaines Robt E @

PARK AV N (RENTON)—FROM
INTERSECTION OF BRONS
AND N 1ST ST NORTH

ZIP CODE 98055

101 Marge & Lewis Upholst

109 Park Avenue Laundro

111 Frisina Joe F Insura

115 Cross Electronic tv

Cross Trophies 255

FIRST IN SERVICES FOR HOME & HO
COMPLETE BUSINESS SERVICE
725-7555
9367 RAINIER AVENUE SOUTH

Apartments
1 Haupt Betty 839-7844
2 Vacant
3★Lumbert Lester
4 Gould
5★Mullins Loren
6 Rabey Frank
7 Junker Joan 839-8933
8 James Raymond H
9★Cooley K 839-8298
10★Slettedahl J
11 Kelley Gary
12 Barke Fred J 839-6251
Spaces
1 Richardson Wyatt R 839-5542
2 Balberde Max L 839-5981
3 Galutia Glen T 839-4994
25045 Glass Replacement Center glass shop 941-0700
S 252D ST INTERSECTS
25218 Seaview Motel 839-5929
Mc Manus Edw J ◎ 839-5929
25250 Adler Harold M optom 839-6540
Freudenberger Glenn optom 839-6540
Dennis' Beauty Salon 839-5886
Meyer Fred Super Auto auto sup 839-6711
Meyer Fred Foods gro 941-1677
Meyer Fred Jewelry 941-2900
Meyer Fred Pharmacy 941-2905
Meyer Fred Drugs 841-2900
Meyer Fred Cosmetics restrs
Meyer Fred Variety & Apparel 941-2900
Meyer Fred Shoes
25252 Gull Self-Service gas sta

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224 Castle Calvin B acct 941-1776
STREET CONTINUED
24806 Automotive Marketing Inc auto repr 839-2225
24800 State Farm Insurance sensitivity center 839-2510
24808 Children's World Christian Day Nursery preschool 839-2559
24810 Midway Landfill Reclamation Site 839-5234
24816 Mid-City Materials Inc mason sups 839-5772
24842 Franklin Steve 839-2282
24900 Midway Storage Center (Whses) 242-2788
25006 Sunset Motel 839-6659
25009 Midway Transmission Service auto repr 839-1633
25026 Best Body & Fender auto body repr 941-2330
25040 Country Broiler restaurant 839-0960
Tralnas Jewel Mrs
Apartments
1 Haupt Betty 839-7844
2 Vacant
3★Lumbert Lester
4 Gould
5★Mullins Loren
6 Rabey Frank
7 Junker Joan 839-8933
8 James Raymond H
9★Cooley K 839-8298
10★Slettedahl J
11 Kelley Gary

PARK AV (AUBURN)—FROM 400 C ST NE EAST

ZIP CODE 98002
308 Park Avenue Apartments
1★Berg M Ruth
2★Lindblom Anne 939-1416
3 Merila Hilda M Mrs 939-2407
4 Utz Mildred 833-7758
316 Park Av Apartments
1★Olson Jim 163-4033
2 Hopkins Janet M Mrs 833-1867
3 Maryanski Michl 833-5403
4 Mohn Betty 833-7706
324 Adamson Glenn ◎ 833-8242
325★Stolikers Dornford W ◎ 833-5208
327 Larson Gene ◎
330 Solomon Edw ◎ 833-9377
331 Yourglich Todd 939-1629
332 Lavin Richd W ◎ 833-6865
335★Allen Darleen
336 Gaines Robt E ◎ 833-0670

PARK AV N (RENTON)—FROM INTERSECTION OF BRONSON WAY N AND N 1ST ST NORTH

ZIP CODE 98055
101 Marge & Lewis Upholstery 226-6174
109 Park Avenue Laundromat self serv
111 Frisina Joe F Insurance Agency 255-3400
115 Cross Electronic tv repr 255-3890
Cross Trophies 255-3890
Southside Fuel 226-5076
117 Vacant
119 Jorgensen Anna Belle Mrs ◎ 255-3315

United Way OF KING COU

PARK AV N (R)—Contd
204 Ogilvie Gary D
208 Jenkins Montel R dentist
210 Mc Kenzie Park L dentist
211 Apartments
1 Vacant
2 Vacant
3 Vacant
4 Vacant
5★Billings Markus
212 Park Avenue Clinic
Snow Nelson A dentis
214 Ateser Coskun R phy
215 Brozovich Stanley ◎
215½★Burro Linda
216 Real Estate Multiple
228-5272
217 Hughes Saml T ◎
220★Mc Rae J L
Donaldson Violet
221 Apartments
1 No Return
2★Charbonneau R
3 No Return
4★Park Ralph A
5 Kerr Thos A
223 Fuller John V
224 Olson Frank R
228 Vacant
229★Woodbury R
232 No Return
235 O'Neill Hilda
236 Vacant
240★Bell David
248★Wise Elsie
249 Dynasties
250★Gillespie
N 3D ST

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PACIFIC HWY S (A)—Contd

29314 Midway Plywood & Supply Co lbr & plywood ret 839-2450
29325★Harris D G
29400★Proulx Jos L 839-4789
29404 Greenacres South Daycare daycare 839-2422
29408 Brush & Spade plastercraft & plants 839-8200
29416 C & W Tax 243-1240
Case Morris A patent atty 839-5221
29418 Farmers Insurance Group 941-3980
29420 Sea-Tac Ins (Addn Sp)
29422 Cal Western Life life ins 927-7675
Sea-Tac Insurance 839-4260
29625 Jump's Union gas sta 839-3023
S DASH POINT RD INTERSECTS
29805 Rental Marts Inc equip rental 839-6701
29910 Vacant
29918 Elving Herbert R Inc real est 839-4255
29928 Punkin Inn day care 839-4900
30318 Federal Way Twin Cinema movie theatre 839-7715
30402 Holz Al Auto Service auto repr 941-0464
30410 Vacant
30415 Mister Sudsy Arco gas sta 849-5990
30417 Mister Sudsy Car Wash Inc 849-5990
30419 Five Minute Car Wash self-serv
30420 Steel Lake Motel 839-3151
★Loher Geo ◎
30423 Land & Home Inc real est 839-2220
30435 Mexi Hut restr 834-3325
30504 Mc Intosh Realty 839-3391
30508 Vacant
30602 Chateau Le Clare apts 839-0880
A101 Vacant

C304★Dinehart
C305★Imhoff
C306★Turbevi
D101★Nettlet
D102★Peton
D103★Halfon
D104★Buckle
D105 Vacant
D106★Herm
D201★Hane
D202★Hutc
D203 Vaca
D204★Hay
D205★Scho
D206★Wal
D301★Leg
D302 Vac
D303★Mc
D304 Vac
D305★Ha
D306 Va
E101★H
E102★H
E103 Va
E104★N
E105★G
E106★J
E201★
E202★
E203
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E205★
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19467	★Pacific Cleaners	94	253.862.4334
19473	★Bonney Lake Dog House	11	253.862.9292
19485	★Mattress Depot Usa	14	253.447.8014
19510	★♣ Jack In The Box	13	253.862.0999
19515	★Cedar Grove Automotive	+	253.862.1754
	★Uhaul	13	253.862.1785
19567	★Honto Teriyaki Ii	95	253.862.5781
19573	★Pretty Nails	05	253.891.9392
19579	★Subway Sandwiches	+	253.862.5222
19585	★♣ 911 Driving School	13	253.891.0911
	★♣ Gamestop Corporation 7790	+	253.862.1239
19602			NP
19610	★♣ Keybank	+	253.862.9863
19641	★The Cigar Zone	+	253.862.9902
19649	★Keybank	14	253.299.5927
19651	★Liquor Store	12	253.862.1070
	★State Of Washington	11	253.840.4762
19657	★Rainier Boardshop Llc	10	253.826.7664
19679	★Dominos Pizza	10	253.862.3100
19685	★Fleet Feet Sports	05	253.862.8890
19751	★Aqua Recs	14	253.826.2561
	★Aqua Recs Fireside Hearth & Home	+	253.826.2547
	★Aqua Recs Fireside Hearth N Home	+	253.299.4211
	★Aqua Recs Inc	+	⊙253.299.4211
19820	Building		

PACIFIC HWY S

824	Elizabeth Chavez	13	NP
827	Wendelyn Davis	13	NP
	♣ Santiago Domingo-Perez	+	NP
818	Leobardo Flores	02	253.941.5378
813	Huey W Hicks	11	NP
813	Linda G Hicks	11	NP
811	Princess Teirria Hollins	06	NP
838	Anil Kumar	07	NP
838	Sushil Kumar	07	NP
828	Angel Lopez	+	NP
833	Robin Macdonald	12	NP
825	Juan Gabriel Salazar	11	NP
812	Sam Wah	11	NP
823B	Charlotte Arlene Weber	08	253.839.0319
823B	Rachel Lee Weber	08	253.839.0319
823	Derek Wesby	+	NP
27916	**Apartments**		
930	Kellen Crosswhite	+	NP
937	Jontia Renell Holiday	14	NP
939	Eric Hoto	14	NP
939	Tinavi Hoto	14	NP
925	Margaret Ngendo Johnson	11	NP
915	Dante Dion Jones	12	NP
911	Antonio Landaverde	09	● 206.249.8364
911	Mari Landaverde	09	● 206.249.8364
916	Valerie L Lester	13	NP
934	Bonnie D Macintyre	01	NP
918	Marina Ornelas	05	NP
918	Ulysses Ornelas	05	NP
	♣ Bertha Parra	07	NP
921	Julio Paulson	12	NP
	♣ Nora Perreault	+	NP
919	Starla Chamere Reece	14	NP
	♣ Roneisha Reynolds	+	NP
	♣ Kelly Sean	06	NP
	♣ Randy Leshon Stevens	11	NP

-S 281ST PL INTS

Apartments

29411	Trena Bennett	+	NP	
C303	Miller Blackwell	12	NP	
C204	Larry Bosshart	12	NP	
C105	Charlie L Bramlett III	10	NP	
C203	♣ Jacob Fiorina	+	NP	
	♣ Kwang S Kim	05	NP	
C301	Filemon EK Lopez	13	NP	
C106	Maria Montil	14	NP	
C206	Tihamiyou Moussa	07	NP	
C101	Pablo B Pescador	+	NP	
C104	Ignacio Arguello Sanchez	08	253.941.3096	
C302	**29418★Salon De Bellesa Sol De Mexico**			
	29421	+	NP	
B102	Hasan Blount	+	NP	
B204	Sandra Renae Lange	+	NP	
B304	Cheryl Smotherman	13	253.945.6800	
	B101★The View At Redondo Apartments	07	253.529.0642	
	29424★Annas Barber Shop	11	253.946.0333	
	29426★Kwan Tip Thai			
	29431 Apartments	+	NP	
A306	Sandra Armstrong	+	NP	
A301	Rhiannan Bungart	12	NP	
A305	Brian Joseph Gargaro	12	NP	
A103	Charlene A Healy	+	NP	
A206	Faith Kennon	13	NP	
A203	Esther Mutuku	13	NP	
A202	Brieanne Maria Parker	+	NP	
	♣ Sunil Patel	10	NP	
A302	Lance F Todakonzie	10	NP	
A302	Verdean Todakonzie	12	206.212.1478	
	29500★0 0 7 Locksmith	12	206.212.1453	
	★1 Locksmith	12	206.212.6499	
	★Atlanta Fish & Wings	12	253.529.0881	
F	**★Clever Rebel**	14	206.651.3906	
	★Cobo Locks & Keys Co	10	206.653.7025	
	★Concious Care Cooperative	14	206.653.7315	
L	**★Dothe African Hair Braiding**	12	253.946.7036	
	★Fantasy Massage Llc	14	206.212.6429	
	★Jennings Barber Shop	14	NP	
	♣ Elvia Morales	+	⊙206.212.6429	
	★New Era Cuts & Styles	+	206.429.2385	
	★Russell Promotions	12	206.429.2560	
	★Sk Enterprise	10	253.815.9755	
H	**★West Coast Driving**			

-S DASH POINT RD INTS

29805★Payless Auto Mart	14	206.592.2475	
★Payless Auto Mart Llc	13	253.941.3335	
★Payless Auto Repair	13	253.941.4565	
★Wirb Inc	14	206.592.2521	
29815★Cheap Heating & Air Conditioning	+	206.651.3209	

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★Federal Way Motel 98 253.941.6996

–18TH AVE S INTS

29918★Vonis Voluptuous Hair Salon 12 206.429.2251
29928★Smart Start Day Care 94 253.839.4900
30315★♣ Cheep O Smoke 13 253.839.5511
★♣ 14 206.249.8222
★♣ Klean Kutz. 10 253.839.5889
★♣ Obsession Motorcycles 13 253.941.3019
★Tots 2 Toddlers Boutique . 12 206.592.2410
★♣ Vc Investments. 09 253.941.0293
30333★Lighthouse Korean Reformed Church
+ 253.941.1212
30390★Locksmith Sunshine. 10 206.577.6439
★Salon Capelli Capelli. 13 253.839.6425

–S 304TH ST INTS

30402★Holz Al Auto Service. 13 253.941.0464
30406★Brez. 14 253.941.4196
★Contreras Cerrajero De Casas 14 206.651.3908
30420★0 0 24 Hour Des Moines Locksmith
+ 253.528.3509
★B Locksmith Dave 10 206.508.3397
★International Christian Association
00 253.941.5240
★Los Bigotes De Villa 10 253.941.2071
★Tortas Locas 14 253.941.4794
30421★Federal Way Auto Glass . . 10 253.839.8774
★Federal Way Used Cars . . . 04 253.529.1597

★Starbucks Coffee . . . . . + 253.839.4400
2010 ★Touchtel Wireless . . . . . + ⊙253.839.4400
2018 ★Carballo Open Locks. . . . . + 253.946.9330
★Famous Footwear 14 206.651.3827
★Hallmark . . . . . + 253.941.4114
2019 ★7 Available Emergency Locksmith 24 + 253.839.6151
★Avida Salon 10 206.508.3371
2101 ★Kohls . . . . . + 253.945.6932
2114 Building 13 253.941.0900
C-1 ★Catherines. 13 253.733.5446
2116 ★Lane Bryant. . . . . + 253.733.5451
2201 ★Castano Cerraduras Chapas 14 206.651.3885
★Target . . . . . + 253.733.7520
★Target Pharmacy. . . . . + 253.733.7521
1 RESIDENCE 194 BUSINESS

●S DASH POINT RD

CT 301.00 430 - 909 $B
430 - 1530 98003

-4TH AVE S INTS

430 ♣ Barbara S Shull . . . . . 07 NP
829 Craig C Coleman (6/15) . . . . . + ● NP
Nicole D Coleman (6/15) . . . . + ● NP
833 Bettie J Morris (3/94) . . . . . 82 ● NP
Jimmy Craig Morris (3/94) . . . 82 ● NP
837 Kyong S Williams . . . . . 07 ● NP
841 Lawrence Strauss (9/12) . . . . 12 ● 253.941.4132
Rema Strauss (9/12) . . . . . 12 ● 253.941.4132

-S 301ST ST INTS

845 PO Lim (7/01) . . . . . 01 ● NP
Poan Lim (7/01) . . . . . 01 ● NP
849 . . . . . NP
901 Angela Parrot (2/05) . . . . . 05 ● NP
908 ♣ Theodore C Rihn (5/81) . . . . . 81 ● NP

-9TH PL S INTS

909 Sean Daniel Hay 83 253.839.5375
Taylor Hay 83 253.839.5375
941 ★Christs Church . . . . . + 253.941.2711

-11TH PL S INTS

1101 ★Federal Way Public Schools 12 253.945.4900
★Schoolspublic . . . . . 13 ⊙253.945.4900
1500 ★Dennis Dds Hahn Ps . . . . . + 253.839.2800
★Marine Hills Dentistry. . . . 10 ⊙253.839.2800
1520 ★24 Hours Emergency Locksmith 10 206.651.3343
★A Emergency Locksmith. . 10 206.577.6475
★Marine Hill Cleaners 98 253.941.5515
1530 ★Lee R Harris Dvm . . . . . + 253.941.3900
★Sacajawea Healthcare For Pets 14 253.217.4358
★Sacajawea Veterinary Clinic 13 253.927.0406

-16TH AVE S INTS

15 RESIDENCE 11 BUSINESS

ECTORY

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NWR
917.9777
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2011
V4

2015 ★ Building
2016 ★ 7 Available Emergency Locksmith 24 10 206.508.3371
★ Beauty Nail . . . . . + 253.529.1269
★ Super Natural Nutrition . . . 05 253.941.1800
★ GJ Banks 09 253.529.1701
2026 ★ Mattresses Futons & More 09 253.945.8000
2027 ★ Enfant 10 253.529.2470
2030 ★ Daiso 06 253.839.1129
★ Lane Bryant 09 253.839.7333
2100 ★ Asiana Gifts 08 253.529.7429
2108 ★ Pearle Vision 07 253.941.0282
2115 ★ Tilt 04 253.941.3877
2201 ★ Target 09 253.733.7521
1 RESIDENCE 83 BUSINESS

●S DASH POINT RD

CT 301.00 0 430 - 909 $B
CT 302.02 0 829 - 849 $E
430 - 1530 98003

-4TH AVE S INTS
430 Barbara S Shull . . . . . 07 NP
829 Kevin N Eagle (9/08) . . . . . 07 ● 206.592.2293
833 Bettie J Morris (3/94) . . . . . 82 ● NP
Jimmy Craig Morris (3/94) . . . 82 ● NP
837 Kyong S Williams . . . . . 07 ● NP

-S 301ST ST INTS
841 . . . . . NP
845 Jurirut Krongkhajonsuk (7/01) . 01 ● NP
Poan Lim (7/01) . . . . . 01 ● NP
849 Harlen Hirum Correa (8/89) . . . 04 ● NP
901 ♣ Angie K Parrott (2/05) . . . . . 94 ● 253.946.5005
♣ Jeffrey Lee Parrott (2/05) . . . . 94 ● 253.946.5005

-9TH PL S INTS
909 James W Hay 83 253.839.5375
Taylor Hay 83 253.839.5375
941 ★ Christs Church At Federal Way 02 253.941.2711

-11TH PL S INTS
1101 ★ Federal Way Public Schools 06 253.945.4900
1500 ★ Hahn Dennis DDS 04 253.952.3566
1520 ★ 24 Hours Emergency Locksmith + 206.651.3343
★ A Emergency Locksmith . . 10 206.577.6475
★ Marine Hill Cleaners 98 253.941.5515
★ Oh Family Chiropractic Center 09 253.946.4648
1530 ★ Harris Lee R DVM 98 253.941.3900

-16TH AVE S INTS
13 RESIDENCE 8 BUSINESS

●SW DASH POINT RD

-16TH AVE SW INTS
1600
B-302 Henry G Hering
B-302 Janice L Hering
B ★ Mail Copy & More + NP
207B Kirk T Merrill 07 253.874
207B Linda L Merrill 09 NP
B262 Joseph L Sunderlin 09 NP
B262 Roger Lee Sunderlin 09 NP
1602 ★ 123 Locksmith 09 N
★ Total Concept Salon + 206
1604 ★ Jeff D Burnett Allstate Agent 10 253
1606 ★ Splish Splash Doggy Bath + 253
1608 ★ Teriyaki House 06 25
1610 ★ Compass Montessori School 02 2
1612 ★ Dash Point Chiropractic 05 2
1616 ★ Ace HardwareFederal Way +
1630 ★ Dry Cleaning Solutions 10
1632 ★ Edward Jones Financial Advi
1634 ★ Gents Fine Grooming For Men
1636 ★ Underhill Jewelers
1638 ★ H&R Block
1640 ★ Available Locksmith
★ Nail Tek
1642 ★ Dashpoint Laundry
1646 ★ Dash Point Family Denta
★ Subway Sandwiches
1650 ★ Dash Point Chevron
1656 ★ Starbucks Coffee

-SW 312TH ST INTS

-21ST AVE SW INTS
2000 ★ 1 Hour All Day A Lock
★ Wayside United Chu
2216 Marianne Patricia Gr
2221 ◊ Michelle L Grant (1/0
◊ Robert G Grant (1/00
2309 James N Rhen (2/78
Yu Suk Rhen (2/78)
2323 . . . . . .
2333 ★ Abraham T Higa

	♣Pedro Martinez	03	NP
59	Diane McCain	+	206.592.2472
	♣Kay Mulder	05	253.839.0611
	♣Sergio T Perez	09	NP
73	Iuni P Peseti	09	NP
73	Suluco V Peseti	+	253.941.4252
	♣Carlos Rivera	09	NP
	♣Robbie D Robinson	+	206.653.7867
	♣Wilhelm Roth	+	NP
	♣Anna Servin	06	NP
64	Keith Thatcher	09	NP
57	Suluoo Tiai	+	NP
	♣Michel Valdes	06	NP
61	Rubio J Vasquez	06	NP
70	Yudith Vasquez		
28620		+	NP
	♣Elvia Aguilera	+	NP
36C	Sherry Baclay	08	NP
75H	Deborah D Banker	+	206.249.8632
	♣Lydia Blanco	09	253.839.2757
39C	Lionel Brown	09	253.839.2757
39C	Rena M Brown	06	NP
60E	Vince X Brummer	05	253.839.2129
22B	B Campbell	06	NP
9A	Ana M Castanaza	+	NP
	♣Wanda Cockerhern	+	253.945.8302
	♣Ivan Garcia Corrales	07	NP
23B	Dalia Diaz-Cardona	+	NP
46C	Elvia Flores	08	NP
77H	Angel Ruth Fofoa	08	NP
77H	Misiuaita Fofoa	07	NP
47D	Gerda Fortune	03	NP
	♣Maria Garcia	08	253.529.7806
	♣Vaughn Lee Gardner	+	206.429.2066
	♣Mary Gitere	+	253.839.0410
	♣Boureima Gneda	07	NP
	♣Angelina Gonzalez		

★Tiffany Hair Art

29400	Mark A Williams		
29401	**Apartments**		
D208	Alma Sotelo Argu		
D306	Corinne L Atkins		
D105	Michael Atok		
D308	Peter A Bauer		
D210	Sherrelle M Bo		
D309	Bernarda Brav		
D309	Teresa Bravo		
D302	Mark R Buckl		
D302	Timothy M B		
D103	Christopher		
D103	Norma L Bu		
110	Chad Bullar		
110	Kandi Jo B		
207	Thomasa		
	♣Cesar Bec		
D203	Amir Lzou		
D203	Susanna		
D202	T Duralia		
D104	Heather		
D104	Wendy		
	♣Lance		
D	James		
	♣Alice		
D301	Anne		
D102	Cherl		
D102	Dona		
D206	Juan		
D202	Noe		
D106	Wilf		
D207	Pet		
	♣Lor		
D310	Ar		
	♣So		
D310	Ja		

D207	♣Lorena Rodriguez	10	NP
D310	Araceli Santos	09	253.529.0834
	♣Scott Spanier	10	NP
D310	Janeth Janeth Vargas	+	**253.946.2222**
29404	**★GPS Lockbox**	**02**	**253.941.7174**
	★Wilkinsonenterprises		
29411	**Apartments**	09	NP
C104	Shauna Demmert	05	NP
C106	Elda EK	10	206.653.7462
	♣Jacob Fiorina	+	NP
C202	Wilma Haight	02	NP
C302	Shawn Huston	+	NP
C105	Nelson Kamithi	+	NP
C103	Arielle King	05	NP
C106	Filemon EK Lopez	08	253.941.2644
C303	Randal M Olsen	08	253.941.2644
C303	Randy M Olsen	08	NP
C206	Colleen I Parezanin	01	NP
C203	Tamika N Taylor	**08**	**253.941.3096**
29418	**★Salon De Bellesa Sol De Mexico**	04	253.945.6138
29421	Darryl Paulsen	+	253.941.4251
	♣Yolanda Smith	**10**	**253.945.6810**
	★View At Redondo Fax Line	**07**	**253.529.0642**
29424	**★Annas Barber Shop**		
29431	**Apartments**	10	NP
A302	Maria Arellano	09	NP
	♣Tony Fernandez	+	NP
A201	Jeffrey Grant Guykema	10	NP
A301	Daniel Pamilacan Ligaya	09	NP
A203	Brad Lamar Powell	05	NP
A102	Usvaldo Rodriguez	10	NP
	♣Jason Shelton	+	NP
A106	Erik Stokes	+	NP
A306	Antonio Thomas	09	206.429.3549
	♣Kerri Wood		
29500			
	★ACA Las Tortas	**10**	**253.941.0937**
O	**★Cedar Building Service Inc**	+	**206.429.3751**
	★Concious Care Cooperative	+	**206.653.7025**
I	**★Franks Meat Market**	**09**	**253.945.7777**
	★Jenny Salon De Belleza	**06**	**253.945.1160**
	♣Nicole Strok	09	253.946.9999
H	**★West Coast Driving**	**10**	**253.815.9755**
	★Youngs Smoke	+	**253.839.1331**

-S DASH POINT RD INTS

29805	**★Western International Recovery Burea**	**08**	**253.237.0558**
29815	**★Federal Way Motel**	**98**	**253.941.6996**

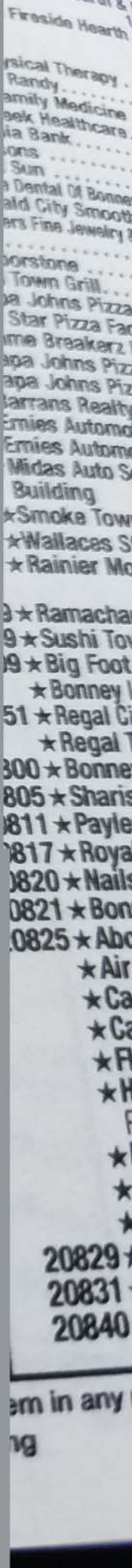
-18TH AVE S INTS

29928	**★Smart Start Day Care**	**94**	**253.839.4900**
30315	**★Klean Kutz**	+	**253.839.5889**
	★Vc Investments	**09**	**253.941.0293**
30390	**★Gill Acupuncture**	+	**253.941.7979**
	★Helana Catholic Book And Gift	**06**	**253.839.4094**
	★Joes Hair Design	**09**	**253.945.8252**
	★Locksmith Sunshine	**10**	**206.577.6439**
	★Massage Therapuetic	**98**	**253.839.6425**

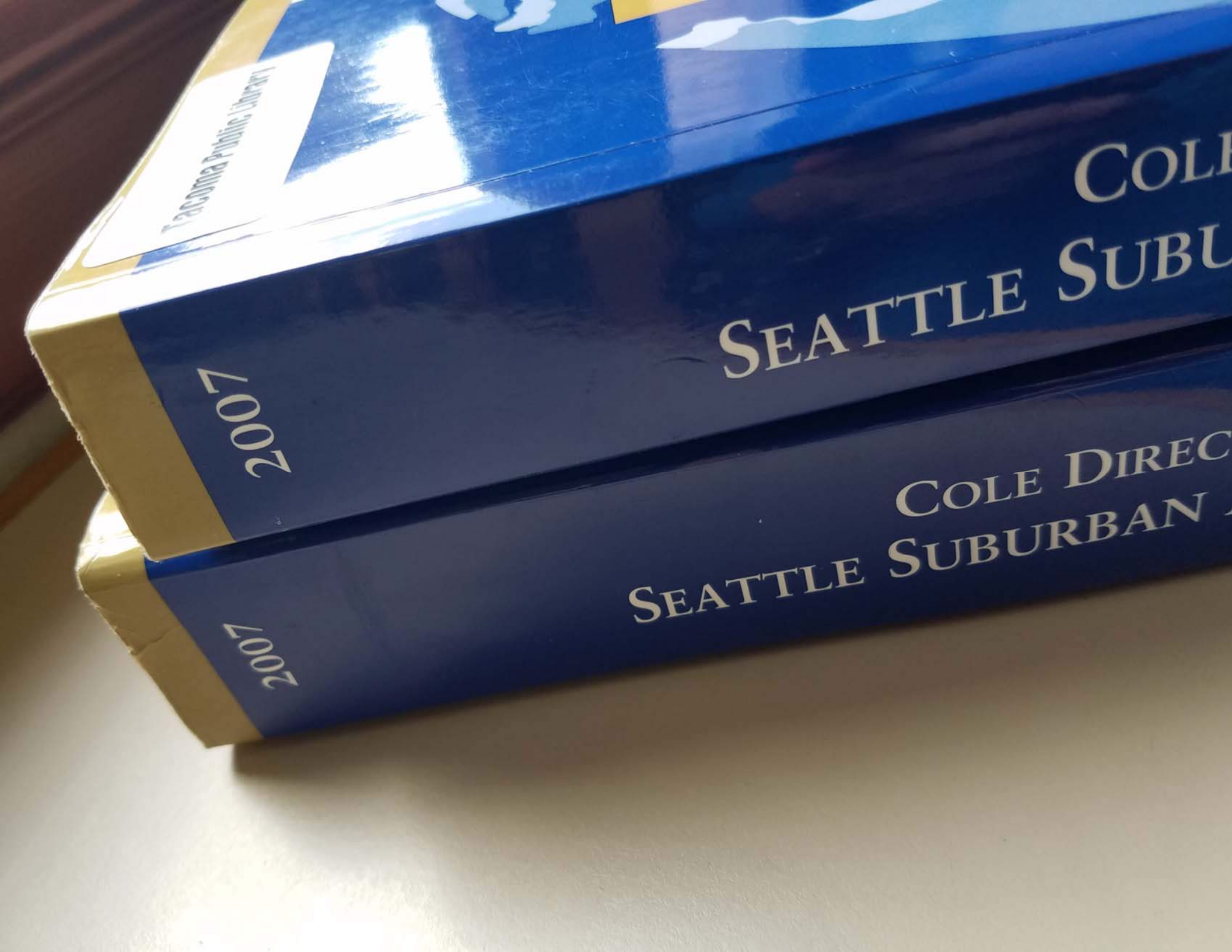
-S 304TH ST INTS

30402	**★Holz Al Auto Service**	**95**	**253.941.0464**
30405	**★Suds N Clean**	**04**	**253.529.0962**
30406	**★Zayras Fashion Inc**	**08**	**253.941.2776**
30420	**Building**		
	★B Locksmith Dave	**10**	**206.508.3397**
	★Glorias Hair Design	**09**	**253.529.5777**

	♣Fernando Jaime	08	NP
I104	Malena Jimenez	+	253.941.6
A203	Angela Jones	04	NP
C104	Joseph Kamali	08	NP
J301	Kieran Kennerson	10	NP
A201	Mary Kibui	02	NP
E202	Chang H Kim	+	NP
G103	Ansu Konneh	02	NP
G103	Musa A Konneh	08	NP
I303	Anatoly Kramarevsky	08	N
	♣D Layton	10	
	♣Elke Layton	05	
	♣Lym Lee	05	
	♣Sanghoon Lee	07	253
J204	Alfredo Lopez	07	253
H101	Leticia A Lujan	07	
	♣Aleksey F Makhovitskiy	+	
	♣Darion Mallard	98	25
B204	Brian Marquez	+	
	♣Dorothy Martin	+	
	♣Domingo Martinez	10	
	♣Marissa Martinez	+	
	♣Heather Mata	+	
F102	Yamilethx Membreno	10	
101	Diana Menta	05	
D101	John Nhial	08	
	♣Kamaaina Opapa	10	
	♣Carrillo Teresa Ortiz	+	
G202	Kye HWA Pak	+	
G202	Myon Son Pak		
	♣Wilder Valdivia Palma		
G303	Vera M Perez		
D201	Maria Ramirez		
D201	Martha Ramirez		
	♣Rincon Miriam Rivas		
	♣Ringo Rivas		
G201	Marino D Rodriguez		
	♣Adrian Lopez Romo		
F203	Ronald L Salazar		
C106	David Sanchez		
I301	Linda Scales		
I301	Willie E Scales Jr		
G203	Jerred R Schoolcraft		
G304	Elicio Silva		
H102	Michael Simonsson		
	♣Delfina Singeru		
	♣Serui Singeru		
	♣Tulua Siu		
D203	Ken Small		
A103	Crystal Solares		
F101	Bidalina Soto		
E304	James R Spack		
	♣Debra Spear		
J202	Nicole Steadman		
F304	Ramiro Sustaita		
	♣Leticia Tapia		
A104	♣Jessica Nicole Thoma		
A104	♣Melodie Ann Thomas		
I303	Nina Timite		
E205	Shara Timothy		
I302	Pedro Torres		
	♣Siu Tulua		
J302	Leslie A Ulness		
	♣Luis Uzho		



	C	★Larrys Classic Quality Brake & Muff	08	253.299.8078
	A	★Mountain View Chiropractic	07	253.862.3901
19106		Building	10	253.863.8378
		★Bonney Lake Napa Auto & Truck Parts		
	A	★Timber Ridge Animal Hospital	99	253.862.1314
19205		★H&R Block	07	253.891.1700
		★ILS Wayport	+	253.862.3402
		★McDonalds	09	253.862.4492
		★Smartstyle	09	253.862.4232
		★Walmart	03	253.863.8204
		★Walmart	09	253.826.0650
		★Walmart	10	253.826.9151
		★Walmart Supercenter	+	253.826.9144
		★Walmart Supercenter	09⊙	253.826.0650
19285	♣	Mady Burgstahuer	06⊙	253.826.9144
19311		★Jetstream Carwash	05	NP
19321		★Bank Of America	05	253.299.6507
19371		★Kitsap Bank	09	253.305.3010
19402		★Bonney Lake Collision Center	05	253.862.2020
19410		★Starbucks Coffee	09	253.863.5022
19413		★Swarthout Realty	+	253.862.3125
19421		★Avanti Espresso	05	253.862.9266
		★Basket Bloom	10	253.862.8797
		★House Of Denim	+	253.862.5887
19425		★Cascade Towing	10	253.862.2301
19467		★Pacific Cleaners	94	253.862.1210
19473		★Bonney Lake Dog House	+	253.862.4334
19479		★Computer Service Center	10	253.862.9292
		★Parker Paint	05	253.862.6189
19515		★Cedar Grove Automotive	10	253.862.2642
		★Jack In The Box	10	253.862.1754
19561		★Office Depot	10	253.862.0999
		★Office Depot	+	253.863.7713
19567		★Honto Teriyaki II	95	253.863.6530
19573		★Pretty Nails	05	253.862.5781
19579		★Bonney Lake Subway	07	253.891.9392
19585		★911 Driving School Bonney Lake	10	253.862.5222
19610		★Keybank	03	253.891.0911
19641		★Cigar Zone The	08	253.862.9861
19647		★Edward Jones Financial Advisor SH		253.862.9902
			+	253.862.9047
		★Klingenstein Shane	07	253.891.8499
19651		★♣ State Of Washington	+	253.840.4762
19657		★Rainier Boardshop	+	253.826.7664


Tacoma Public Library
2007
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	Jeff A Rodewald	01	NP	
10406	Jeannine R Davaz	01	253.891.1463	
	Neil J Davaz	02	253.891.1463	
10407	Gayle J Guina	02	253.826.4981	
	Joseph A Guina	97	253.826.4981	
10408	Dave L Karseboom	97	253.862.4155	
	Teresia Karseboom	02	253.862.4155	
10409	Dave James Turnbull	02	253.826.7888	
	Robin Jean Turnbull	96	253.826.7888	
10410	Ronald J Bayer	96	253.863.2154	
10411		94	253.863.2154	
10412	Samuel J Kinkel		253.862.5754	
	Teresa A Kinkel	97	NP	
10413	Mary F Verdow	97	253.863.0216	
	Stephen J Verdow	00	253.863.0216	
10414	Daniel C Knutzen	00	253.891.5461	
	Robin H Knutzen	98	253.891.5461	
10415	**Apartment**	98	253.863.3267	
13	Kristen M Barrows	03	253.863.3267	
13	Troy W Barrows	03	253.862.3898	
10416	Eric Dewey Crinklaw	03	253.862.3898	
	Lisa M Crinklaw	05	NP	
10420	Nancy J Jorgensen	05	NP	
10422		96	253.862.3083	
			NP	

29 RESIDENCE

● STATE ROUTE 410 E

CT	**703.03**	**17120 - 18330**	**$D**
CT	**703.10**	**19102 - 21301**	**$E**
CT	**703.09**	**19413 - 22406**	**$E**
CT	**703.08 0**	**19579 - 19685**	**$E**
CT	**703.11**	**21514 - 22911**	**$E**

➡ **RR25** **17120 - 18330 .... 98391**

17120 Connie Marie Nordeen.....79●253.863.8601
Dennis E Nordeen.....79●253.863.8601

17136★Cellar On 410 Pub & Pizzeria + 360.826.7770

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sting **95,96, Etc. - Year First Listed 1995,96, Etc.** ● - Ve

Hill Inc DBA Baron Manfred STE

17144 Victor E Martin 03 360.863.1633
17590 ♣ Tim Corliss 82 253.863.1642
18008 Building . . . . . 77 NP
★♣ Freed Insurance Group Inc + 360.883.0400
D ★Main Street Escrow Inc . . . 04 360.848.7622
★♣Terhunepatricia Windermere Real Esta + 360.377.2499
★♣ Windermere Real Estate 95 ⊙360.883.0400
18204 ★Dairy Queen Bonney Lake . 97 360.863.0739
18209 ★♣ Delrosario Colin P DDS . + 360.826.8800
★♣ Martinssen Andy F DDS. + ⊙360.826.8800
★♣ Prime Fitness. . . . . + 360.826.5500
18211 ★Wendys International Corp 03 360.891.1742
18212 ★BLT . . . . . 88 . .
18315 ★Jiffy Lube. . . . . 88 . .
18318 ★Grocery Outlet 03 360.299.6999
★H & R Troth Llc. . . . . + . .
★V & G Supermarket Inc . . . 04 . .
18320 ★Plateau Financial Mortgage Llc 03 360.862.7900
18330 ★♣ Java Angel . . . . . + 360.299.6766
RR22 19102 - 21006 . . . . . **98391**
19102 Building
★♣ Bonney Lake Bicycle Shop 05 . .
★♣ Huynh John DC . . . . . + 360.863.6378
C ★Mike Buller . . . . . + . .
★♣ Volvos Restored Auto Sales 04 360.447.4204
19106 Building
★♣ Bonney Lake Napa. 78 360.288.9643
★♣ Style Bar Salon . . . . . 01 . .
A ★Timber Ridge Animal Hospital 96 360.891.1700
19413 ★Century 21 Swarthout Realty 93 360.862.9266
19515 ★U Haul Moving & Storage . + 360.862.1785
19579 ★Bonney Lake Subway 98 360.862.5222
19585 ★911 Driving School Bonney Lake + 360.891.0911
19647 ★Edward D Jones & Co LP . . + 360.891.8499
19685 ★Fleet Feet Sports 04 360.862.8890
19820
★♣ Apple Physical Therapy. + 360.863.7510
♣Dr Bruce Baker. . . . . 01 NP
♣Karen Cross . . . . . 03 NP
10 ★Woodcreek Healthcare . . . 05 360.446.3270
19825 ★Albertsons 495 Fuel Center + 360.826.6727
19925 ★Columbia State Bank. 97 360.863.8500
20025 ★Albertsons 01 360.826.2401
★Savonalbertsons Pharmacy 495 + 360.826.5757
20063 ★Pet Pros . . . . . 96 . .
20071 ★Anzi Dental Center. . . . . + 360.447.4966
20075 ★Emerald City Smoothie . . . 02 360.826.6664

★The Boeing Emp
21514 ★Bonney Lake .
21515
B137 Gerald Thomas
★♣ Taco Time
21525 Building
A ★Cancro J Chr
A ★Cascade Ort
A ★Moore Milar
B ★Outpatient
B ★Outpatient
A ★Sandbulte
A ★Singer Kar
21803 ★Bonney La
★E K Invest
21916 ★C & D Tops
★U Haul C
★U Haul M
22015 ★Sunset
22123 Dickie S
Eileen M
22212 ★♣5 Poi
★♣ Coa
♣K Dela
22320 Helen
22405 Dolor
22406 . . . .
22512 ♣ Imog
♣ Milto
22611 . . .
22719 ♣ Rog
22816 ★Lur
22911 Del
Ver

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CT 70
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05 253.632.9524
rices. 01 253.661.7923
05
05 253.838.2525
93⊙253.838.2525
05 NP
03 253.838.8550
Inc 03
93 253.927.7693
196 BUSINESS

2201 $E
201 98003
+ 253.528.0092
03 253.529.8200
03
05⊙253.529.8200
03 253.529.8312
5 253.839.2792
253.945.6932
253.529.8200
253.839.9866
253.946.9109
253.839.2838
253.839.4130
253.945.0522
253.946.0325
253.946.3335
253.839.9866
253.839.9866
253.839.7300
53.946.3454
53.839.7811
53.839.2828
53.839.2828
3.529.6671

2115★Tilt 90 253.941.3877
2116★Lane Bryant 93 253.839.7333
2201★Mervyns 90 253.941.8800
★Target 04 253.839.3399
★Target Pharmacy 1947 . . . + 253.733.7521
2 RESIDENCE 104 BUSINESS

● S DASH POINT RD

CT 301.00 430 - 1520 $B
CT 302.02 829 - 1101 $E
CT 300.03 E 1530 - 1530 $D
430 - 1530 98003

➡

–4TH AVE S INTS NP
430 . . . . . .

–9TH PL S INTS
829 Jennifer J Miner . . . . . 99 ● 253.946.4767
Todd Alan Miner . . . . . 99 ● 253.946.4767
★Miners Christmas Tree Farm 04 253.946.4767
837♣ Rosemary Weatherly . . . . . + 253.941.2240
★Weatherly Adult Family Home Llc
+ 253.835.9087
841 Mike D Johnson . . . . . 01 ● 253.529.8718
Selena K Johnson . . . . . 01 ● 253.529.8718
845 A Lim . . . . . 01 ● 253.529.2360
Poan Lim . . . . . 01 ● 253.529.2360
849 Dewetta A Bay . . . . . 87 ● NP
901 Randy L Parrott . . . . . 94 ● 253.946.5005
908 Teresa C Rihn . . . . . 84 ● NP
Theodore C Rihn . . . . . 84 ● NP
909 James W Hay 83 253.839.5375
Verna R Hay 83 253.839.5375
915♣ Nas Imran . . . . . 02 NP
♣ Vickie Imran . . . . . 02 NP
1101★Sacajawea Middle School 96 253.945.4900

–16TH AVE S INTS
1500★Dennis J Hahn DDS Inc Ps 03 253.839.2800
1520★Marine Hill Cleaners 88 253.941.5515
1530★Sacajawea Healthcare For Pets 97 253.927.0406
★Sacajawea Veterinary Clinic 82 253.941.3900
16 RESIDENCE 7 BUSINESS

● SW DASH POINT RD

CT 302.01 323 - 1525 $E
CT 301.00 718 - 3200 $B

★♣ Tropic Travel . . . . .
1612★Dash Point Chiropracti
1616★Walker Ace Hardware
1618★Metropolitan Market
1632★Edward Jones . . . . .
1638★Bird Feeder Inc . . . .
1640★Nails Tek . . . . . .
1642★Suds Works . . . . .
1646★♣ Subway . . . . . .
★♣ Tutoring Club . .

–16TH PL SW INTS
1650★Youngs Market . .
1656★Ujb Pizza Inc . . .

–22ND AVE SW INTS
2309 James N Rhen . .
Yu S Rhen . . . . .
2323 Apartment
3208 Jorge C Calugas
3208 Lulu G Calugas
2333★MD & Son Ent
2650♣ Wesley Allen W

–26TH PL SW INTS
2900♣ Kent J Faber .
♣ Leila Faber .
2902 Joseph Kent
Leila Christin
2940 Darcy D Rei
Kimberly Jo
3200★Dumas Ba
★Federal W
★Knutzen
★Visitatio

–SW 309TH ST INT
3500 . . . . . .
3526 Gloria G
Thomas
3608 Alea De
Herma
3620 . . . .
3626 Janet
Rober
3808 Paul
Susa
3818 Fay
3822 Lave
Ole
3832 Ed
39060 Cas
◊ Ja

28727 ★Reinhard Distributing Co Inc 86 253.946.1110
28806 ★Redondo Shell 89 253.839.5396
★Redondo Texaco & Video . 86 . .
28815
7 ★Church Of Christ West Campus 03 253.941.4574
7A ★Comfort Keepers 01 253.945.1400
♣R Delavergne . . . . . 03 NP
10A ★Emeral Prfsnl Cndmnm Owne +
2 ★Family Eye Clinic Of Federal Way . .
89 253.941.5079
♣Danielle H Kim . . . . . 01 NP
★♣ Lee Moon . . . . . + 253.529.4330
♣Jerry McKay . . . . . 03 NP
5 ★Mirae Bank Seattle Lpo . . + 253.946.8583
8 ★Shins Cleaning Inc 04 253.839.9301
1 ★State Farm Insurance Co . 82 253.941.5577
4B ★The Korea Post Inc Of USA 99⊙253.529.4330
4 ★Washington Square Realty Inc 97 . .
10A ★Western Commercial Real Estate 82 253.941.6600
28822 ★Crestwood Animal Hospital 89 253.839.4744
★Ellison Russell E. . . . . 92⊙253.839.4744
28835 ★Ciao Inc . . . . . + 253.946.4122
★Verrazanos Italian American Restaura
93⊙253.946.4122
28850 Ingeborg B Benson . . . . . 91●253.839.1565
Robert F Benson . . . . . 91●253.839.1565
28866 ★Studio Four. . . . . 93 . .
★Studio IV. . . . . 92 . .
29001 ★Thomas Kinkade Gallery . 04 253.945.6730
29005
★Guy & Gals 04 253.839.0667
5 Ran T Nguyen . . . . . 98 NP
29007 ★Amas 01 253.941.0460
29009 ♣H Lin . . . . . 00● NP
♣S Lin . . . . . 00● NP
29100
★♣ Mariachi Alegre 04 253.945.7717
1 ★Refurbished Electronics Inc 02 253.839.9377
♣Beatrice Rhodes . . . . . 00● NP
★♣ Salon Edwards 98 253.941.8845
★♣ Spot Investments Inc . . 00 . .

29431 Apartment
A101 Ana B Alvizar . . . . . .
♣Patrona Bonilla . . . . . .
♣Jon Bowman . . . . . .
A206 ♣Cristian Carrasco . . . . . .
A306 Carmelita B Delvalle . . . . . .
A306 Ramil B Delvalle . . . . . .
Ramon Duran . . . . . .
♣Ricky Faifili . . . . . .
♣Tamara Hampton . . . . . .
A30 Sara Hansen . . . . . .
♣James B Hayes . . . . . .
♣Shawna J Hayes . . . . . .
A102 Lenzy Krek . . . . . .
303 Tom Mendez . . . . . .
A101 Freddy L Perez . . . . . .
♣L Pound . . . . . .
A204 ♣Julie Spellacy . . . . . .
A305 Stephen Stanfield . . . . . .
10 Joseph Walker . . . . . .
♣Erie Williams . . . . . .
29500
O ★Branch Tisino Family Se
★♣ Cargo Express . . .
★♣ Las Cazuelas . . .
J ★Las Cazuelas Mexican
♣Leonard C Olsen . . . .
K ★Professionals Barbe
O ★Rhodes Realty Inc
G ★West Coast Custom C
G ★West Coast Custom Con
D ★Youngs TBC Pipe & Va
29625 ★Fw Deli Mart. . . . .
-S 304TH ST INTS
29805 ★Forte Inc. . . . . .
29918 ★♣Kundigi West Af
29928 ★Smart Start Day
30309 ★♣ JDS Properties Inv
30333 ★Silver Dollar Cas
30390
★♣ Central Realty &
♣Norman Kim . . . .
Travel Inc

29431	**Apartment**		
A101	Ana B Alvizar	+	NP
	♣Patrona Bonilla	+	NP
	♣Jon Bowman	05	NP
A206	♣Cristian Carrasco	+	206.653.7618
A306	Carmelita B Delvalle	03	253.945.1313
A306	Ramil B Delvalle	05	NP
	Ramon Duran	05	NP
	♣Ricky Faifili	03	253.945.0568
	♣Tamara Hampton	+	206.653.7348
A30	Sara Hansen	03	NP
	♣James B Hayes	01	NP
	♣Shawna J Hayes	01	NP
A102	Lenzy Krek	01	NP
303	Tom Mendez	03	253.941.4011
A101	Freddy L Perez	99	NP
	♣L Pound	+	NP
A204	♣Julie Spellacy	04	NP
A305	Stephen Stanfield	05	253.946.4627
10	Joseph Walker	+	NP
	♣Erie Williams	01	NP
		95	NP
29500			
O	**★Branch Tisino Family Services**	+	253.941.4405
	★♣ Cargo Express	+	253.946.7777
	★♣ Las Cazuelas	+	253.941.3888
J	**★Las Cazuelas Mexican Buffett**	+ ⊙	253.941.3888
	♣Leonard C Olsen	01	NP
K	**★Professionals Barbers**	96	253.941.3271
O	**★Rhodes Realty Inc**	91	253.941.3800
G	**★West Coast Custom Cmptr Llc**	+	. .
G	**★West Coast Custom Computers Ll**	+	253.249.6548
D	**★Youngs TBC Pipe & Variety Gift**	98	253.839.1653
29625	**★Fw Deli Mart**	01	253.941.1611
-S 304TH ST INTS			
29805	**★Forte Inc**	05	. .
29918	**★♣Kundigi West African Braiding Salon**	05	253.632.3079
29928	**★Smart Start Day Care**	89	253.839.4900
30309	**★♣ JDS Properties Investment Inc**	+	253.839.1040
30333	**★Silver Dollar Casino**	98	. .
30390			
	★♣ Central Realty & Investment	94	253.839.6022
	♣Norman Kim	03	253.839.1040
209	**★Mijoo Travel Inc**	05	. .
	♣Kim Norman Cpa	03	253.839.1040
103	**★Professional Data Services Inc**	88	253.839.7728
-S 305TH PL INTS			
30402	**★Al Holz Auto Service**	92	253.941.0464

	♣Gabriela Vasquez			206.653.7519
	♣Veronica L Warren	02	NP	
	♣Rica Weston	03	NP	
	♣Stacey Williams	01	NP	
	Andy J Yetter	+	NP	
	Joe A Yetter	+	NP	
	★Bluewater Wireless	**05**		
	★MP Medical	**05**	**253.941.2911**	
	★The Wireless Advisors	**93**	**253.941.0777**	
	★Wilkinson Enterprises Inc	**87**	**253.941.0777**	
	★Beads & Billiards	**98**	**253.945.1888**	
29408	**Apartment**			
29411	Martin Allenbaugh	+	206.653.7478	
C101	Manuel V Basas Jr	04	NP	
C103	♣I Bryant	03	NP	
	♣Alvaro Contreras	05	253.941.2552	
	♣Maria Garcia	05	253.941.2552	
C202	Lorenzo Givens	03	NP	
	♣Demetrius Harris	05	NP	
C105	Brandon Harvill	03	NP	
	♣Shawn Huston	02	NP	
C305	Deaundria Macon	+	NP	
	♣F Menefee	03	NP	
C205	♣Okpaluba Nneka	03	NP	
C303	♣Rod G Olson	+	NP	
C102	♣Sarah Owens	+	NP	
C301	John E Payne	02	253.863.0654	
C301	Melanie Payne	02	253.863.0654	
29412	**★C & W Tax Co Inc**	**99**	**253.839.6340**	
29418	**★Electrical Banana Espresso**	**97**	**253.946.8234**	
29421				
	♣Shawnte Fashaw	03	NP	
	♣Nickous Parodi	03	NP	
B103	Darryl Paulsen	04	253.945.6138	
	♣Jason Rice	04	253.529.3792	
	★♣ View At Redondo	**98**	**253.945.6810**	
B304	Levis Watson	+	NP	
29424	**★♣ Absolute Identification.**	**05**		
	★♣Jeff Burnett All State Insurance	**04**	**253.941.4411**	
	★♣ Pacific Builders Inc	**94**	**253.941.2222**	

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DIRECTORY

	Woosuk Ahn	■	253-661-5988		
	Vladimir Alperov	–	253-838-2557		
	Philipe Ancheta	97	253-661-1180		
	Jon Arroyo	■	253-661-0749		
	Bella Austin	99	253-874-4967		
	Megan Bauer	■	253-835-4867		
	David & Sandi Bell	■	253-943-0120		
	Berrittier	■	253-835-0924		
	Viola Bettcher	■	253-835-2128		
	Simon Bobadilla	■	253-838-5354		
	Sarah Boe	98	253-661-2823		
	Ing Bookheat	–	253-835-1125		
	Lea Bottley	99	253-874-8708		
	K Braungardt	■	253-835-3918		
	Brincefield	■	253-661-6701		
	Aura Brookey	■	253-838-6225		
	Bunt	99	253-838-8124		
	Cannia	■	253-952-1163		
	Chida	■	253-835-1393		
	Choi	■	253-661-2808		
	Christensen	■	253-835-0583		
	Chu	97	253-874-2476		
	Coles	96	253-874-4978		
	Corbit	■	253-661-3127		
	otton	■	253-835-0291		
	Cusick	–	253-815-0444		
	a Davenport	–	253-874-3278		
	Dawson	99	253-874♦5282		
		■	253-815-8306		
		–	253-815-8709		
	son	■	253-874-3664		
	Fannon	■	253-661-6136		
	lty	■	253-815-9276		
		–	253-874-9474		
	rd	■	253-661-1958		
		98	253-838-9785		
	atoloai	–	253-838-4722		
		95	253-874-1322		
	en	■	253-661-7354		
	elland	93	253-838-3361		
		–	253-835-3524		
	dez	□	253-815-1770		
		□	253-661-6277		
	Hicks	99	253-835-4349		
		–	253-661-7049		
		94	253-838-6967		
		■	253-661-2994		
		■	253-661◊3669		
		–	253-835-4438		
		□	253-874-3871		
		■	253-838-3142		
		98	253-835◊4438		
		–	253-661◊0732		
		98	253-874-6144		
		99	253-838-3439		
		□	253-661-2244		
	a	–	253-661-7444		
	moto	■	253-815-8578		
		□	253-661-2707		
		96	253-835-2604		
		□			

1901	★ Impri		253-874-6562		
1903	★ Cisco M Irving Ins	95	⊙ 253-874-6562		
	★ Cisco Sandra Ins	95	⊙ 253-874-6562		
	★ Allstt Ins Co SLS	95	⊙ 253-874-6562		
	★ Cisco M Irving Ins	□	⊙ 253-874-6562		
	★ Cisco Sandra Ins	□	⊙ 253-874-6562		
	★ Cisco Vlg Lndrmt	96	253-874-9603		
1905	★ Norge	92	253-874-4366		
1907	★ Best Cmps Cleaners				
1911	Building				
	★ The Rowland Corp	96	253-815-1633		
337	★ Cowan Ron Apprsl	96	253-838-3238		
102	★ Dcksd Seafd&Brgrs	86	253-838-2525		
1913	★ Keybank Keycenters	96	253-838-8550		
1918	★ Keybank Key Cntrs	95	⊙ 253-838-8550		
	★		NP		
1922	636 RESIDENCE		30 BUSINESS		

CAMPUS HIGHLANDS 98023

9th Ave SW

	L A Larson	91	253-874-7685
	T C Larson	92	253-874-7685
	2 RESIDENCE		

CENTER PLAZA SHP 98003

Also See 2012 S 320th

CENTURY CTY SHP CR 98003

Also See 32065 Pacific Highway S

S DASH POINT RD 98003

E	300– 498	CT 301		$A..F29
O	301– 499	CT 302.02		$E..F30
E	800– 898	CT 301		$A..F29
	801– 1098	CT 302.02		$E..F30
E	1100– 1590	CT 301		$A..F29

● THOMAS BROS MAP LOC 744–J1

430	KI Smiley	□	253-945-8247	
829	Todd Miner	–	253-946-4767	
833	837	NP		
841	Robert D Perras	94	253-946-8921	
845	Leslie A Hartung	72	253-839-7072	
849		NP		
901	Randy Parrott	95	253-946♦5005	
909	James W Hay	84	253-839-5375	
941	★ Christs Ch Fed Way	84	253-941-2711	
1101	★ Federal Way Pub	98	253-945-4900	
	★ Elmntry Hgh Schls	□	⊙ 253-945-4900	
1500	★ Suh David C DDS	□	253-839-2800	
	★ Burbidge J D DDS	72	⊙ 253-839-2800	
	★ Suh David C DDS	□	⊙ 253-839-2800	
1520	★ Marine Hill Clnrs	97	253-941-5515	
	★ Sues Rags Qlt Shp	□	253-941-5076	
	★ Sonsation	□	253-529-4600	
1530	★ Harris Lee R DVM	77	253-941-3900	
	★ Scjw Vetrnry Clnc	77	⊙ 253-941-3900	
	9 RESIDENCE		11 BUSINESS	

SW DASH POINT RD 98023

O	201– 339	CT 302.02		$E..F30
E	300– 598	CT 302.01		$E..F29
	341– 698	CT 301		$A..F29
O	601– 699	CT 302.02		$E..F30
E	700– 1898	CT 302.01		$E..F29
O	701– 1599	CT 301		$A..F29
O	1601– 1625	CT 302.02		$E..F30
O	1627– 1899	CT 301		$A..F29
E	2000– 2078	CT 302.01		$E..F29
O	2001– 2499	CT 301		$A..F29
E	2080– 4098	CT 303.05		$C..F29
				$A..F29

3608	★ Federal Way Fed				
3620	★ Federal Way Fed				
3626	R A Horan				
3808	Kevin T Morris				
3812	Paul Krug				
3906	3822 3832				
4326	Jim Chaffee				
4332					
5015	Ronald Zaffino				
5047	★ Palisades Bapt Ch				
5135	Barry Tam-Hon				
5211	Larry W Joslin				
5231	5221				
5243	L M Petruzzi				
5307	Gail McCall				
5309	Jon M Grant				
5325					
5340	Doug McDowell				
5341	B Carr				
5404	D Majors				
5411	5405				
5421	M Summers				
5700	Gordon Labrec				
	Les Kniffen				
	★ McBee Steve				
	69 RESIDENCE				

ENCHANTED PKWY S

	34900–35799	CT 303.04		
	36200–38099	CT 304.02		
	● THOMAS BROS MAP LOC 715–97			
	● THOMAS BROS MAP LOC 745–92			
	● THOMAS BROS MAP LOC 775–92			
34900	★ Sharis			
34910	★ American Gen Finc	–		
	★ Four Cor Tryk 2	99		
	★ Great Clps Hr Fed	99		
	★ Matress Outlet	□		
34930	★ Fitness Shop Fed	99		
	★ Fitness Shop	99	⊙	
	★ Northstar Cleaners	99		
	★ Fast Signs	□		
34950	★ Office Dep Inc Fed	97		
34960	★ Popeyes	92		
35001	★ Alltech Computer	98		
	★ Indpndnt Frghtwys	84		
35020	★ G I Joes Inc NW	98		
35023	Building			
	★ Chadwick Ins Inc	98		
8	★ New Way Internet	97		
	★ Mayberry Mary Lmp	99		
	★ Mercer Trnsprt Co	87		
	★ Mercer Trnsprt Co	89		
	★ Wa State Pool Lea	□		
35025	★ Truck-City C B	.76		
35030	★ Olive Garden Ital	98		
35100	★ Costco Whol Fed	9		
	★ Costco Whol Fed	9		
	★ Rhee Walter Cstc			
	★ Costco Whol Fed			
	★ Costco Whol Fed			
35205	★ Egl Hdwr&Gdns Fe			
35500	★ L & R Landscape			
35610	★ Federal Way At C			
35620	★ Cllsn 1 Fed Wa			
	★ Blckstns At Bdy			
35700	★ Jet Chevrolet I			
	★ Vista Chevy In			
36201	★ Enchanted Vill			

PACIFIC HWY S

98003

27908	**Apartments**		
	Dana Adric	99	253-529-3486
514	Ignacio Andaluz	¤	253-945-6388
533	Isabel Brindley	86	253-941-0844
517	William Chiantera	97	253-941-6872
	Steve Elwell	99	253-941-4475
536	Timothy Frank	¤	253-945-8312
	Victor George	99	253-946-6768
	Milton J Harris	¤	253-941-7946
	Kook Kim	98	253-529-4534
538	Romeo Mara	88	253-941-3439
	L Richardson	86	253-941-4873
	Gerald Salais	95	253-941-1873
	Rebecca Shaw	99	253-529-4908
	Maile Smith	-	253-529-9652
	Patricia M Smith	99	253-946-8313
27910	**Apartments**		
615	Abigail Avila	¤	253-946-4047
	Monica Green	¤	253-529-2324
616	Leticia Guzman	98	253-839-6761
	Dawn Harris	¤	253-529-4383
614	Luis Hernandez	97	253-941-2473
	Brian Jenkins	99	253-529-8769
631	Ronald J Kunst	78	253-941-4646
	Juan Ledezma	¤	253-529-2247
638	Esteban Martinez	99	253-839-7723
	Carlos Ortiz	97	253-941-6694
27912	**Crestview West Apt**		
	Jeuel Asherz	¤	253-839-5785
	R Asherz	¤	253-839-6501
735	Steve Bastrom	87	253-839-9025
716	Esther Bittel	¤	253-945-9205
728	Marvin L Clark	94	253-946-5266

28717 ★ TLC Rental M
★ 35th Ave SLS
★ The Yard Sal
28727 ★ Ernies Fuel S
★ Rnhrd Distrg
28805 . . . . . .
28806 ★ Redondo Txc
28815 Ann Rees
Carol Skog
★ Nakamoto Av
★ Adams Gary
★ Cattins Co
★ Delavergne
★ Dewaard G
★ Edward Jns
★ Federal V
★ McKay Je
★ Skog Car
★ State Fa
★ Adams G
★ Schneide
★ The Kor
★ Ntnl Pp
★ Redondo
★ Rees A
★ State F
★ Wa Ce
★ W Cam

S 288TH ST

28822 ★ Norstre
★ Crstwd
★ Ellison
★ Norstr
28835 ★ Vrzn

253-529-3013
253-528-0881
253-945-6984
253-839-3013
253-945-9879
253-839-7210
253-839-0896
253-945-9306
253-945-1012
253-941-2650
253-529-9545
253-529-0627
253-946-5333

253-941-9397
253-839-4432
253-945-9238
253-941-4765
253-839-6990
253-941-0306
253-946-1347
253-839-8474
253-839-7859
253-839-2256
253-529-3525
253-839-1130
253-839-6024
253-946-4874
253-529-1083
253-529-0840
253-528-0154
253-946-6367
253-945-0286
253-941-1419
253-529-4545
253-946-6209
253-839-1130
253-941-9646
253-945-0846
253-941-4715
253-945-9571
253-941-1989
253-941-8719
253-945-9372
253-945-1044
253-945-7010
253-839-8800
253-529-3939

253-941-5050
253-941-1801
253-946-8733
253-839-5202
253-941-0342
253-946-1597

D309 Ernest [illegible] 253-945-9165
Yvette Saunders 99 253-946-2970
D209 C E Soria 87 253-941-0777
★ The Villa Del Mar 94 253-945-1888
29404 ★ Cnsldtd Cell Inc 99
29408 ★ Beads & Billiards
29411 Apartments
C301 Jennifer Davis 99 253-529-0993
C102 Jessica Martinez 253-941-5906
T Stanley 253-839-6193
C203 Tamika Tylor 253-946-6706
29412 ★ C & W Tax Co Inc 80 253-839-6340
29418 ★ Elctrcl Bnn Esprss 93 253-946-8234
29421 Apartments
B202 Kent G Jones 253-945-7143
Nnamdi E Lekwauwa 99 253-529-3362
B104 Tammy Scherler 99 253-945-6753
Jerry Schroeher 253-529-2306
Zen T Sullivan 253-941-9185
29422 ★ Ardyss Lenceria 253-529-4031
29424 Building
★ Josies Hskpng 99 253-529-8460
★ Pacific Builders 96 253-941-2222
C ★ Allstt Ins Co SLS 98 253-941-4411
C ★ Burnett Jeff Ins 93 ⊙ 253-941-4411
29426 ★ Bebe Salon 96 253-941-6625
★ Salon Bebe Hr&Nls 94 ⊙ 253-941-6625
29431 Apartments
A305 Edwin Berger 98 253-839-2571
A101 Souk Chanvongsa 253-529-1646
A202 V Dykes 99 253-946-1201
A102 Ida M Patino 99 253-945-7586
A205 Raven Shanklin 253-839-8653
29500 ★ Crystal Spa 90 253-839-2726
★ Elegance Beyond 99 253-839-1020
★ Formal Txd&Bridal 99 253-946-1329
★ Rhodes Realty Inc 99 253-941-3800
★ Youngs Pipe&Vrty 90 253-839-1653
★ Atarasi Bathhouse 253-945-1449
★ Blvrs Life Mnstrs 99 253-946-8396
★ Germans Tattoos 98 253-529-8740
★ Music Paging&Cell 99 253-529-5170
★ T&A Adlt Vid Plus 93 253-839-6230
29620 NP
29625 ★ 509 Deli&Town Shl 95 253-941-1611
REDONDO WAY S INTS
29805 ★ United Rentals 96 253-839-6700
★ United Rentals 87 253-839-8804
29815 ★ Federal Way Motel 82 253-941-6996
29868 NP
29918 Building
2 ★ A Plus Trvl&Crus 253-874-6000
29928 ★ Smart Strt Day Cr 90 253-839-4900
30315 ★ Panda China Chin 253-839-3168
30333 ★ New Sonny CSN Inc 253-945-0777
★ New Sonny Casino ⊙ 253-945-0777

C105 Kevin [illegible]
J203 Harry Roberts
Alfredo Rodriguez
Christopher Ross
I304 Juan Ortiz S
E102 Leonid Samolkin
I203 S M Scott
D Sexton
A103 Jack Shelton
D302 Cathrine M Simon
Paula Smith
A101 Kristin Snell
A102 Voeun Son
E304 James R Spack
Peter Starling
D206 Thad Stevens
Antonio Sustaita
E202 Armando Sustait
J M Swan
Elias Vasquez
E106 Teresa Vaughn
A J Villagomez
Lee Vogel
R Yefimchuk
I303 Mike D Yi
B303 Tae Yu
★ Village The
30603 30610 3061
30618
30620 ★ Kinnear M
★ Daniels Do
★ Evergreen
★ Federal Ce
★ Federal W
★ Intercept
★ Kinnear S
★ Muoneke
★ The Healt
★ Kinnear M
★ Kinnear
★ World V
30640
Michl A
★ McDouga
★ Demeres
★ Evans D
★ Investo
★ Joy Ma
★ Payne&
E6 ★ Rainier
★ Smith
★ Tax C
★ Verzan

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APPENDIX E

Photograph 1. Eastern limits of the Site, looking north.

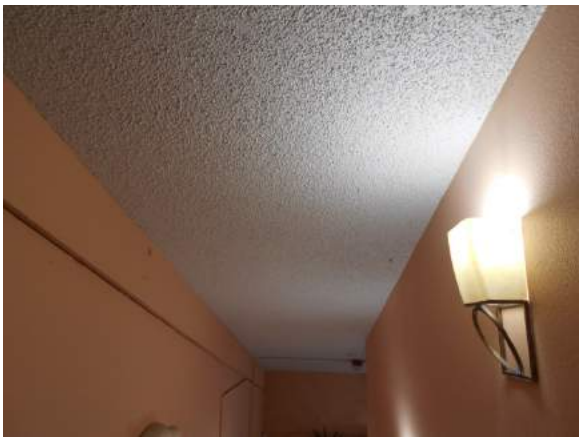
Photograph 2. Northern limits of the Site, looking west.

Photograph 3. West-central limits of the Property, looking south.

Photograph 4. The subject building observed within the southern Site limits.

Photograph 5. Interior of the used car sales office within the eastern portion of the subject building.

Photograph 6. Second-story office area observed within the subject building.



Photograph 7. Pop-corn ceiling observed within office areas of the subject building.

Photograph 8. Interior of Bay 2 within the subject building, reportedly utilized for storage only.

Photograph 9. A vent and ports observed within the concrete (suspect tank) within Bay 2.

Photograph 10. Additional ports observed in connection with a suspect tank within Bay 2.

Photograph 11. A Auto repair activities observed within Bay 3 of the subject building.

Photograph 12. Material storage area observed within Bay 3 with significant staining on concrete around staged materials.

Photograph 13. A sump observed within Bay 3.

Photograph 14. A drum (filled with solid waste) observed exterior of Bay 3; however, beneath the drum a port was observed.

Photograph 15. Accumulated materials staged near a canopy north of the subject building.

Photograph 16. Patched asphalt observed within the north-central Site limits.

Photograph 17. Solid waste dumpster observed north of the subject building.

Photograph 18. Dash Point Road South, beyond which is adjoining land north, a Shell fueling station.

APPENDIX F

006523

006523

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

For Office Use Only	
Owner #	
Site #	

INSTRUCTIONS:

When a release has **not** been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with the Department of Ecology. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all the tanks for which the site check and site assessment is being conducted. Use the tank ID number if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/ site assessment.

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): _____

Site/Business Name: _____

Site Address: 29805 Pac Hz So (Street) Telephone: (___) —

FEDERAL WAY (City) WA (State) 98003 (ZIP-Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
T1		
T2		
T3		

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ____ Investigate suspected release due to on-site environmental contamination.
- ____ Investigate suspected release due to off-site environmental contamination.
- ____ Extend temporary closure of UST system for more than 12 months.
- ____ UST system undergoing change-in-service.
- ____ UST system permanently closed-in-place.
- XXX UST system permanently closed with tank removed.
- ____ Abandoned tank containing product.
- ____ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ____ Other (describe): _____

TANK 1

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

		YES	NO
1.	The location of the UST site is shown on the vicinity map.	MW	
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance)	MW	
3.	A summary of UST system data is provided. (see Section 3.1)	MW	
4.	The soils characteristics at the UST site are described. (see Section 5.2)	MW	
5.	Is there apparent groundwater in the tank excavation?		MW
6.	A brief description of the surrounding land is provided. (see Section 3.1)	MW	
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	MW	
8.	A sketch or sketches showing the following items is provided:		
	- location and ID number for all field samples collected	MW	
	- groundwater samples distinguished from soil samples (if applicable)	MW	
	- samples collected from stockpiled excavated soil	MW	
	- tank and piping locations and limits of excavation pit	MW	
	- adjacent structures and streets	MW	
	- approximate locations of any on-site and nearby utilities	MW	
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	MW	
10.	A table is provided showing laboratory results for each sample collected including: sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	MW	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.	MW	
12.	*The results of this site check/site assessment indicate that a confirmed release of regulated substance has occured.*		MW

SITE ASSESSOR INFORMATION

MARK WATTS (IFCI # 42954) ATC

PERSON REGISTERED WITH ECOLOGY — FIRM AFFILIATED WITH

BUSINESS ADDRESS: 6347 Seaview Ave NW — TELEPHONE: (206) 781-1449

Seattle — WA — 98107

CITY — STATE — ZIP+CODE

I hereby certify that I have been in responsible charge of performing the site check / site assessment described above. Persons submitting false information are subject to penalties under Chapter 173-360 WAC.

1/02/01

Date

Mark Watts

Signature of Person Registered with Ecology

TANK 2

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

		YES	NO
1.	The location of the UST site is shown on the vicinity map.	MW	
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance)	MW	
3.	A summary of UST system data is provided. (see Section 3.1)	MW	
4.	The soils characteristics at the UST site are described. (see Section 5.2)	MW	
5.	Is there apparent groundwater in the tank excavation?		MW
6.	A brief description of the surrounding land is provided. (see Section 3.1)	MW	
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	MW	
8.	A sketch or sketches showing the following items is provided:		
	- location and ID number for all field samples collected	MW	
	- groundwater samples distinguished from soil samples (if applicable)	MW	
	- samples collected from stockpiled excavated soil	MW	
	- tank and piping locations and limits of excavation pit	MW	
	- adjacent structures and streets	MW	
	- approximate locations of any on-site and nearby utilities	MW	
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	MW	
10.	A table is provided showing laboratory results for each sample collected including: sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	MW	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.	MW	
12.	*The results of this site check/site assessment indicate that a confirmed release of regulated substance has occured.*		MW

SITE ASSESSOR INFORMATION

MARK WATTS (IFCI # 92954) ATC

PERSON REGISTERED WITH ECOLOGY — FIRM AFFILIATED WITH

BUSINESS ADDRESS: 6347 Seaview Ave NW — TELEPHONE: (206) 781-1449

Seattle, WA 98107

CITY — STATE — ZIP+CODE

I hereby certify that I have been in responsible charge of performing the site check / site assessment described above. Persons submitting false information are subject to penalties under Chapter 173-360 WAC.

1/02/00 — Date

Mark Watts — Signature of Person Registered with Ecology

TANK

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

		YES	NO
1.	The location of the UST site is shown on the vicinity map.	DH	
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance)	DH	
3.	A summary of UST system data is provided. (see Section 3.1)	DH	
4.	The soils characteristics at the UST site are described. (see Section 5.2)	DH	
5.	Is there apparent groundwater in the tank excavation? Perched Seasonal	DH	
6.	A brief description of the surrounding land is provided. (see Section 3.1)	DH	
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	DH	
8.	A sketch or sketches showing the following items is provided:		
	- location and ID number for all field samples collected	DH	
	- groundwater samples distinguished from soil samples (if applicable)	DH	
	- samples collected from stockpiled excavated soil	DH	
	- tank and piping locations and limits of excavation pit	DH	
	- adjacent structures and streets	DH	
	- approximate locations of any on-site and nearby utilities	DH	
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	DH	
10.	A table is provided showing laboratory results for each sample collected including: sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	DH	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.	DH	
12.	*The results of this site check/site assessment indicate that a confirmed release of regulated substance has occured.*	DH	

SITE ASSESSOR INFORMATION

DONNA HEWITT (IFC I# 104471 6-24) ATC

PERSON REGISTERED WITH ECOLOGY — FIRM AFFILIATED WITH

BUSINESS ADDRESS: 6347 Seaview Avenue NW TELEPHONE: (206) 781-1449

Seattle — WA — 98107

CITY — STATE — ZIP+CODE

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173-360 WAC.

12/29/00

Date

Signature of Person Registered with Ecology

UNDERGROUND STORAGE TANK
Permanent Closure/Change-In-Service Checklist

006523
U0000432

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

RECEIVED
DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS
AUG 26 1993

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: BANK OF CALIFORNIA

Owners Address: PO BOX 3123
Street / P.O. Box

SEATTLE, WA 98114
City / State / ZIP-Code

Telephone: (206) 587-6151

Tank #1 Diesel

Site ID Number (on invoice or available from Ecology if tank is registered):

Site/Business Name: RENTAL MART

Site Address: 29805 PACIFIC HIGHWAY S
Street / County

FEDERAL WAY, WA 98003
City / State / ZIP-Code

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: O'Sullivan Petroleum Equipment Company License Number: S000036

Address: 3214 16th Avenue S. W.
Street / P.O. Box

Seattle WA 98134
City / State / ZIP-Code

Telephone: (206) 682-2440

Licensed Supervisor: John C. Ra

Decommissioning License Number: W001637

[redacted] [redacted] [redacted]

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): N/A
2. Year installed: 1970
3. Tank capacity in gallons: 300
4. Date of last use:
5. Last substance stored: Diesel
6. Date of closure/change-in-service: 7-19-93
7. Type of closure: Closure with Tank Removal ☑ In-place Closure ☐ Change-in-Service ☐
8. If in-place closure is used, the tank has been filled with the following substance:
9. If change-in-service, indicate new substance stored in tank: N/A
10. Local permit(s) (if any) obtained from: KENT HAZARDOUS FIRE PERMIT

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes ☐ No ☐

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	RP		
2. Has all product piping been capped or removed?	RP		
3. Have all non-product lines been capped or removed?	RP		
4. Have all liquid and accumulated sludges been removed from the tank?	RP		
5. Has the tank been properly purged or inerted?	RP		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	RP		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.			RP
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	RP		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	RP		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173-360 WAC.

7-19-93
Date

William V. Hennessy Jr.
Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

8/15/93
Date

Bradley D. Kamrud for O'Sullivan
Signature of Licensed Service Provider (Tank Owner or Authorized Representative)

Date

Signature of Tank Owner or Authorized Representative

ECY 010-162 (12/90)

N.W.

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

For Office Use Only
Owner # 40004332 KB
Site # 006523

INSTRUCTIONS:

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with Ecology. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

RECEIVED MAY 16 1995

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 006523

Site/Business Name: Rental Marts

Site Address: 29805 Pacific Hwy S (Street) Telephone: ( ) _____

Federal Way (City) Washington (State) 98003 (ZIP Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
#1	500 gallons	diesel fuel

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ____ Investigate suspected release due to on-site environmental contamination
- ____ Investigate suspected release due to off-site environmental contamination.
- ____ Extend temporary closure of UST system for more than 12 months.
- ____ UST system undergoing change-in-service.
- ____ UST system permanently closed-in-place.
- ✓ UST system permanently closed with tank removed.
- ____ Abandoned tank containing product.
- ____ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ____ Other (describe): _____

N.W.

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

ECOLOGY

For Office Use Only
Owner # 4000432 KB
Site # 006523

INSTRUCTIONS:

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with Ecology. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

MAY 16 1995

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 006523

Site/Business Name: Rental Marts

Site Address: 29805 Pacific Hwy S. (Street) Telephone: ( ) _____

Federal Way (City) Washington (State) 98003 (ZIP Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
#1	500 gallons	diesel fuel

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ____ Investigate suspected release due to on-site environmental contamination
- ____ Investigate suspected release due to off-site environmental contamination.
- ____ Extend temporary closure of UST system for more than 12 months.
- ____ UST system undergoing change-in-service.
- ____ UST system permanently closed-in-place.
- ✓ UST system permanently closed with tank removed.
- ____ Abandoned tank containing product.
- ____ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ____ Other (describe): _____

4: 7484

N.W. U0000432 KB.
8263 006523

UNDERGROUND STORAGE TANK
30 Day Notice of Intent to Close/Decommission Tanks

The purpose of this form is to provide the Department of Ecology with notice of intent to close/decommission an UST. It must be received 30 days prior to the closure [illegible] r of the UST to be closed or his/her authorized repr[illegible] ology will notify the identified person of the earliest d:

For questions on completing this form pleas

Please type or use ink.

The completed checklist should be mailed t[illegible]

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ One

To Joyce Smith	From Darcy Walker
Co. Dept of Ecology	Co. O'Sullivan Petroleum
Dept. UST Section	Phone # 682-2440
Fax # 438-7484	Fax # 621-8568

1. TANK OWNER AND LOCATION

UST Owner/Operator: Bank of California

Owners Mailing Address: [illegible] RECEIVED 1123

Street

Seattle WA 98114

City State MAY 16 1995 ZIP Code

Telephone: (206) 587-6151

Site ID Number (on invoice or available from Ecology if tank is registered): [illegible] ECOLOGY

Site/Business Name: Rental Mart

Site Address: 29805 Pacific Highway S. King

Street County

Federal Way WA

City State ZIP Code

2. TANK PERMANENT CLOSURE TO BE PERFORMED BY (If known):

Firm: O'Sullivan Petroleum Equipment Co.

Address: 3214 16th ave S.W.

Street

Seattle WA 98134

City State P.O. Box ZIP Code

Telephone: (206) 682-2440 Contact Name: DARCY WALKER

3. TANK INFORMATION

Tank Identification	Approx. Closure Date	Tank Capacity (gallons)	Tank Age (years)	Last Substance Stored
#1	May 10/93	~~1000~~ 500	20-25	diesel

4. SIGNATURE OF TANK OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE:

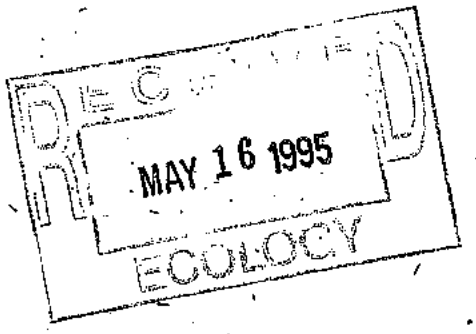
Darcy L Walker — Signature

Estimator/Project Manager — Title

4/2/93 — Date

N.W. 009000 432 K.B.
006523

#2



tank #1
DIESEL

1/1

Rental Marts
UST Removal Project
Federal Way, Washington

UST Site Assessment

Prepared for:

Janice Dimick
The Bank of California
910 Fourth Avenue
Seattle, Washington 98164

&

O'Sullivan Petroleum Equipment Company
3214 - 16th Avenue SW
Seattle, Washington 98134

July, 26 1993

HAZCON, Inc. Project #4259

HEALTH HAZARD CONTROL SERVICES
HAZCON INC.
4636 E. Marginal Way So. # 215
Seattle, WA 98134
(206) 763-7364

HAZCON INC.
HEALTH HAZARD CONTROL SERVICES

4636 East Marginal Way South, Suite 215 • Seattle, Washington 98134
206.763.7364 • Fax 206.763.4189

July 26, 1993

Janice M. Dimick
Assistant Vice President &
Senior Trust Real Estate Officer
The Bank of California
910 Fourth Avenue
Seattle, Wa 98114

Re: UST Site Assessment and Closure
Rental Marts
12401 Pacific Highway South
Federal Way, Washington

Dear Ms. Dimick:

This letter report presents the findings from the Underground Storage Tank (UST) Site Assessment performed by O'Sullivan Petroleum Equipment Company (OPEC) and Hazcon, Inc., of Seattle, Washington, as part of the removal one 500-gallon diesel fuel UST located at the above referenced property (Figures 1 and 2).

The UST was decommissioned and excavated by O'Sullivan Petroleum Equipment Company (OPEC) of Seattle, Washington. Hazcon, Inc. (Hazcon) performed the UST Site Assessment for the project following Washington State Department of Ecology's (Ecology) Guidelines for Site Checks and Site Assessments for USTs.

The objectives of this project included:

- Removing one 500 gallon diesel fuel UST and associated piping and pump island;
- Determining concentrations of diesel total petroleum hydrocarbons (TPHs) in soil adjacent to and underlying the UST system and associated soil stockpile;
- Comparing concentrations of diesel TPHs detected in soil, if any, to the applicable Washington State Model Toxics Control Act (MTCA) Method A Soil Cleanup Guidelines (WAC 173-340) and Guidance for Remediation of Releases from USTs; and
- Interpreting field and analytical data, documenting field and UST removal activities, making recommendations for additional site characterization (if any), and preparing this report (following Washington State Department of Ecology's Guidance for Site Checks and Site Assessment for USTs).

Location

The Rental Mart is located at 29805 Pacific Highway South, Federal Way, Washington, (Section 4, Township 21 North, Range 4 East) (Figures 1 and 2). The subject property lies approximately one mile southeast of Poverty Bay and seven-tenths mile south of 288th Street, at an elevation of approximately 430 feet above sea level. The area immediately adjacent to the subject property is predominately used for residential or light commercial purposes. The subject property is operated by Rental Marts for equipment rental.

The 500 gallon diesel fuel UST was located approximately 35 feet north of the west end of the Rental Mart facility (Figure 2).

Letter Report Organization

This letter report begins with a Summary of Findings for this project. Following the Summary of Findings is a discussion on project area geology and soil/groundwater conditions. Subsequent sections present other elements of Hazcon's UST Site Assessment investigation (UST history and decommissioning activities, excavation descriptions, soil sampling, laboratory analyses, findings, and conclusions). Figures and Tables accompanying this report follow the main text and are followed by the UST 30-Day Notice of Intent, UST Permanent Closure, and UST Site Assessment Checklists (as filed with Ecology). Supporting technical appendices follow the UST Site Assessment Checklist.

SUMMARY OF FINDINGS

Diesel TPH concentrations detected in soil samples collected within the diesel fuel UST excavation ranged from non-detectable to 140 ppm (below MTCA Method A Soil Cleanup Levels). The TPH concentration (as diesel and lubricating oil) for one representative sample collected from the soil stockpile was 490 ppm (above the MTCA Cleanup Level). The soil stockpile classified as a Class III soil and was disposed of at the permitted Rabanco Landfill (by Rabanco) as a non-hazardous MTCA material.

LOCAL GEOLOGY AND GROUNDWATER

Local Geology

The geology in the vicinity of the subject property is dominated by Upper Pleistocene ground moraine deposits (Waldron, 1961) generally composed of thin ablation till overlying lodgment till (Mullineaux, 1965). Lodgement till is generally a compact, coherent, unsorted mixture of sand, silt, clay, and gravel; commonly termed hardpan. Ablation till is similar, but less compact and coherent. Lodgement till is practically impermeable and relatively difficult to excavate and stable along steep exposures.

Site Geology

Soil within the UST excavation generally consisted of dry gravely sands from the surface to a depth of 2 feet below ground surface (BGS), sandy fine gravel from 2 to 3 feet BGS, and moist gravely sands from 3 feet to at least 8 feet BGS (Photo 1/Appendix A).

Groundwater

Groundwater was not encountered in the UST excavation pit.

UST HISTORY

The 500-gallon diesel fuel UST and pump island dispenser were located 35 feet north of the Rental Marts facility (Figure 2). According to Rental Marts the UST and single pump island dispenser where installed in about 1970. According to records on-file with the Washington State DOE UST Section, this UST was installed before 1965 (personal communication, Roger Nye). The UST was active until being decommissioned on May 21, 1993 (personal communication, Mike Muller, OPEC). The UST system stored diesel fuel #2 during it's tenure and was used to refuel Rental Mart's rental equipment.

The UST system consisted of a single-wall steel tank and associated steel piping. The UST was not anchored nor was it equipped with overfill or cathodic protection. The UST system check valve was located at the pump island dispenser and consisted of suction-type piping. OPEC is unaware of any volumetric tank tightness tests performed on the UST.

The UST was inerted and excavated by OPEC on June 25, 1993. Prior to excavation the UST was triple rinsed and inerted with CO_2 under OPEC's supervision. OPEC removed the UST from the excavation using a tire mounted backhoe. The tank showed minimal signs of rust and corrosion (e.g., pock marks) (Photo 2). OPEC transported the UST to Coastal Tank Inc. of Seattle, Washington for scrap metal (Appendix B).

EXCAVATION SITE DESCRIPTION

The UST was oriented north-south. The removal of the UST, associated piping, and the pump island dispenser (Photo 3) resulted in a single excavation pit (i.e., the pump island and was located above the UST).

OPEC excavated the UST system using a tire mounted backhoe. The UST system excavation pit was 13 feet by 8 feet in plan and had a depth of 8 feet BGS. Approximately 30 cubic yards of excavated soil was stockpiled adjacent to and west of the excavation pit (Figure 2). The soil stockpile was placed on and covered with visquene and bermed. The UST system excavation was surrounded with a chain link fence until site restoration.

SOIL SAMPLING

Soil samples were selected by a Hazcon geologist (registered site assessor with the Washington State Department of Ecology), based on visual and olfactory observations. Hazcon collected a total of eight discrete soil samples from the UST excavation (five samples) and associated soil stockpile (three samples) (Figure 2). The five samples collected from the UST excavation pit included four samples from the excavation pit sidewalls (samples SW1-6.0, SW2-6.5, SW3-6.5, and SW4-7.0) and one from the excavation pit floor (sample B1-8.0). Sidewall samples were collected between 6.0 feet and 7.0 feet BGS. The excavation pit floor sample was collected at 8.0 feet BGS. Groundwater was not encountered the UST excavation pit.

Soil samples from the UST excavation were collected using the backhoe to withdraw soil from the excavation pit. An aliquot of soil was then removed from the center of the backhoe bucket using a stainless steel spoon and transferred to a preconditioned sterilized glass jar (soil sampling protocols, Appendix C). Soil samples collected from the soil stockpile were collected with a hand auger from the approximate soil stockpile center (samples STP1 to STP3). Soil samples were placed in an ice chest and transported to the analytical laboratory. Chain of custody procedures were followed for all samples.

LABORATORY ANALYSES

Soil samples were analyzed for parameters outlined in Ecology's Guidance for Site Checks and Site Assessments for USTs (their Table 6-1. Required and Recommended Analyses for Petroleum Substances). A total of five soil samples (two composite and three discrete soil samples) were analyzed for diesel TPHs by Friedman and Bruya Laboratories, Inc. of Seattle, Washington. Samples SW1-6.0 and SW3-6.5, (collected from the east and south sidewall respectively) were composited together into one sample for analysis (samples were composited together by the laboratory chemist). Samples SW2-6.5, SW4-7.0, and B1-8.0 (west sidewall, north sidewall, pit floor, respectively) were analyzed as discrete soil samples. Soil stockpile samples STP1, STP2, and STP3 were composited together into one sample for analysis.

A full laboratory report and a quality assurance review of the laboratory results are given in Appendix D.

FINDINGS

Composite sidewall sample SW1-6.0/SW3-6.5 had non-detectable diesel TPHs (Table 1). Discrete sidewall samples SW2-6.5 and SW4-7.0 had a diesel TPH concentrations of 80 ppm and 140 ppm, respectively. Soil sample SW4-7.0 was collected from a narrow zone of soil contamination restricted to the northwest corner of the UST excavation (Photo 1). This soil sample was selected with the intent of representing a *worst case scenario* of contaminated soil within this narrow band. Discrete sample B1-8.0 had a diesel TPH concentration of 20 ppm. Soil stockpile composite sample (STP1/STP2/STP3) had a TPH (as a mixture of diesel and lubricating oil) concentration of 490 ppm (see Table 1/Appendix D).

CONCLUSIONS

All soil samples collected from within the UST excavation pit had diesel TPH concentrations below the MTCA Method A Cleanup Guidelines (200 ppm for diesel TPHs). Based on these results, further soil excavation was not required nor recommended. Based on the TPH concentrations detected in the soil stockpile (490 ppm), the soil stockpile designated as a Class III non-hazardous MTCA waste material. According to Ms. Janice Dimick, the petroleum contaminated soil stockpile was subsequently transported by Rabanco and disposed of at Rabanco's permitted landfill facility. The UST system excavation was backfilled with clean fill material to subgrade and finished with asphalt under OPEC supervision.

LIMITATIONS

Work for this project was performed, and this report prepared, in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities at the time the work was performed. Hazcon's results and findings from the select areas do not necessarily reflect the soil or groundwater quality underlying other site areas not investigated. This report is not meant to represent a legal opinion. No other warranty, expressed or implied, is made.

Any questions regarding our work and this letter report, the presentation of the information, and the interpretation of the data are welcome and should be referred to the undersigned.

Sincerely,
Hazcon, Inc.

Paul Riley, M.S.
Project Geologist

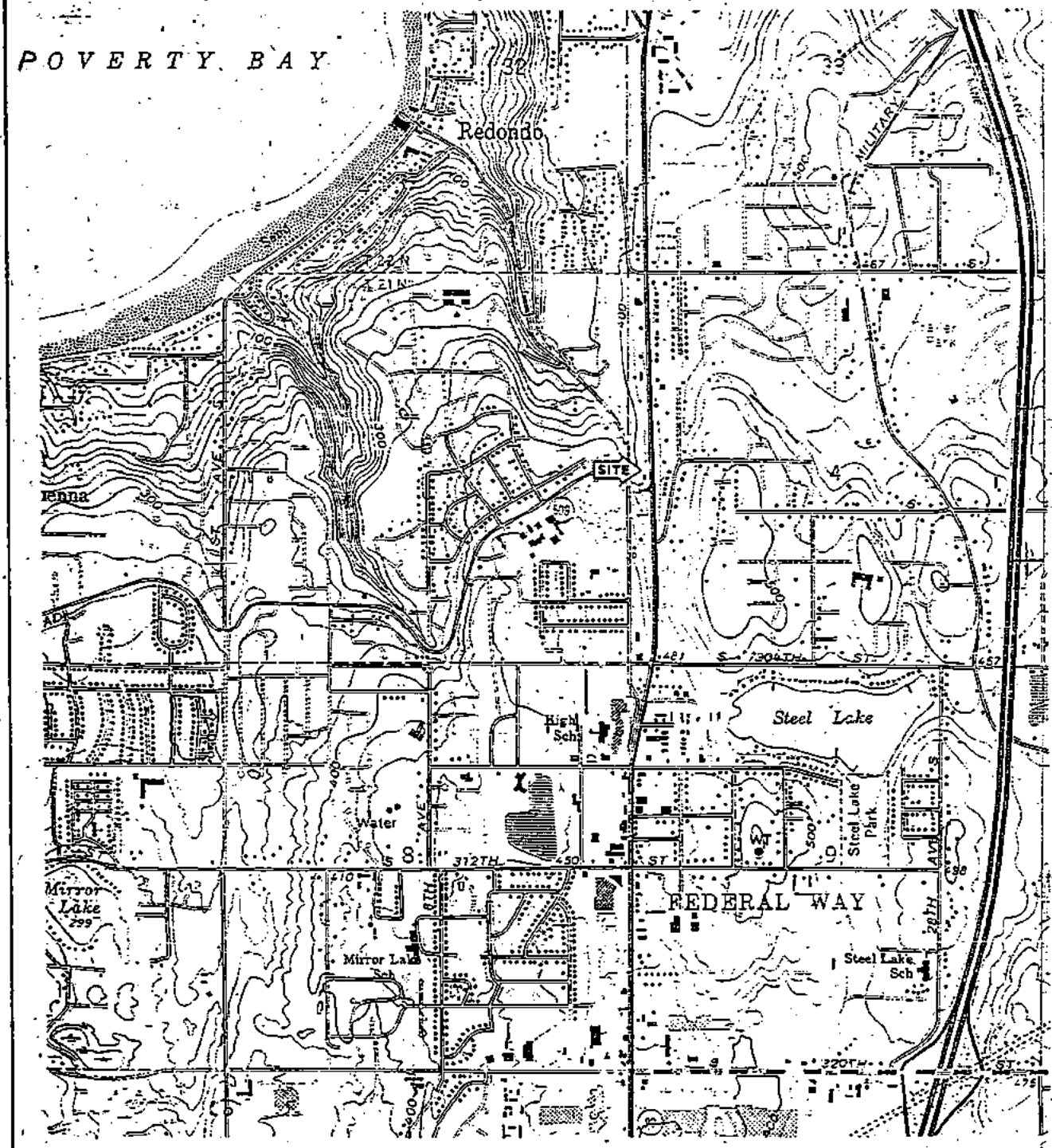
Cynthia Torzynski, M.S.
Staff Geologist
Cynthia Torzynski
Attachments

cc: Mike Muller
O'Sullivan Petroleum Equipment Company
3214 - 16th Avenue SW
Seattle, Wa 98134

John Strub
Federal Way Fire Dept.
31617 - 1st Avenue South
Federal way Washington 98003

Cathy Downs
UST Section
Department of Ecology
P.O. Box 47655
Olympia, Washington 98504-7655

Rental Marts Vicinity Map



From U.S.G.S. 7.5 MIN. X 15 MIN.
Series Quadrangle
Poverty Bay, Washington
1961

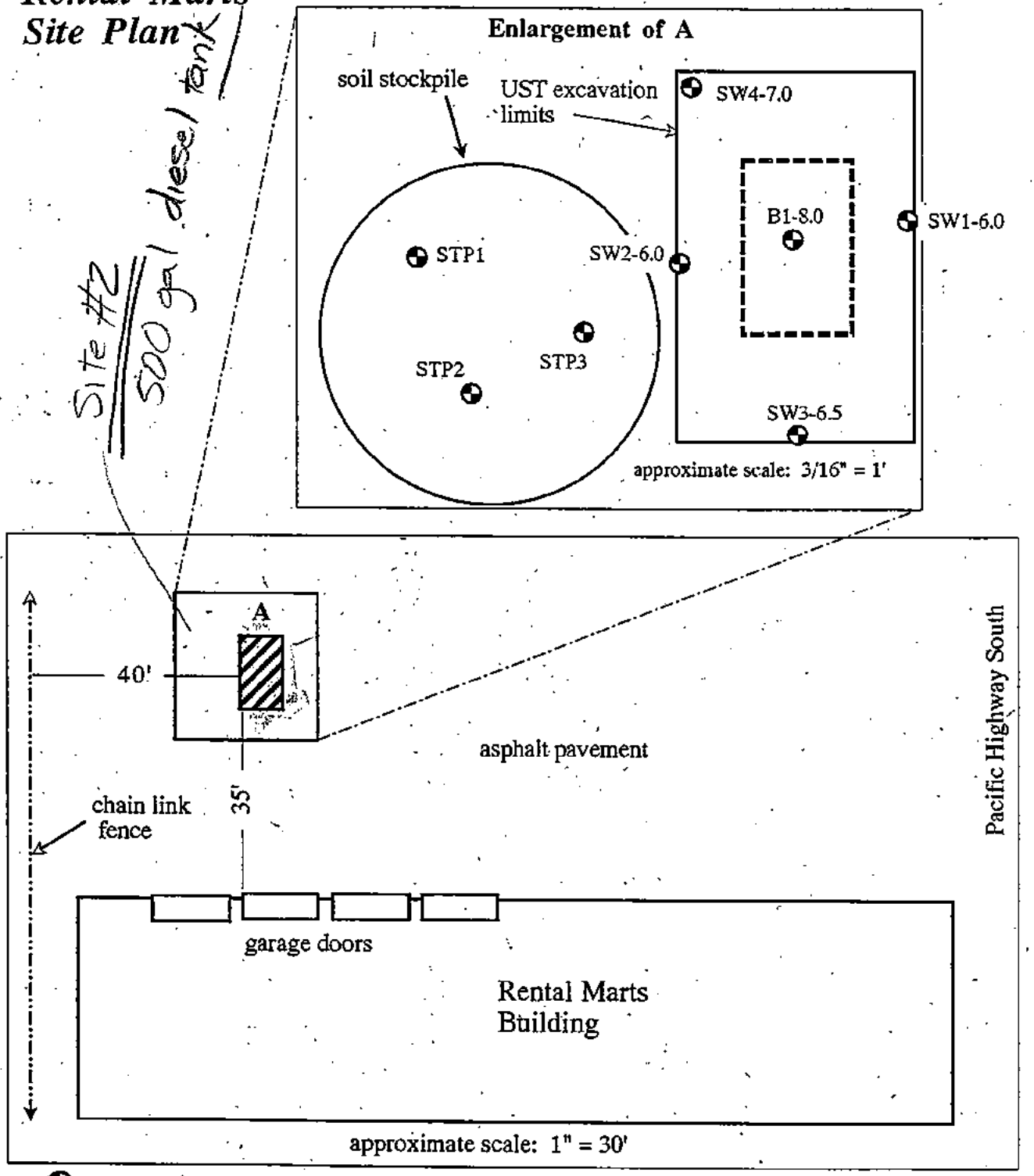
N

Scale: 1: 24 000			Figure 1

HEALTH HAZARD CONTROL SERVICES
HAZCON INC.
4636 E. Marginal Way S.
Suite 215
Seattle, Wa 98134

Rental Marts Site Plan

Site #2
500 gal diesel tank



Soil Sample Location
UST Fill Pipe
Former UST and Associated Pump Island Location
Outline of Former UST

N

Scales as indicated	Date: 7/26/93	Drawn by: PDR	Figure 2

HEALTH HAZARD CONTROL SERVICES
HAZCON INC.
4636 E. Marginal Way S.
Suite 215
Seattle, Wa 98134

Table 1. Summary of Analytical Results for Soil Samples Collected Adjacent to and Underlying the Diesel Fuel UST and Associated Pump Island.

Sample Number	Soil Sample Location	Sample Depth	Sample Date	WTPH-D (ppm)
B1-8.0	pit floor	8.0	6/25/93	20
B1-8.0 (duplicate)	---	---	---	20
SW1-6.0 & SW3-6.5*	east/south sidewalls	6.0/6.5	6/25/93	<10
SW2-6.5	west sidewall	6.5	6/25/93	80
SW4-7.0	north sidewall	7.0	6/25/93	140
STP1 & STP2 & STP3*	soil stockpile	---	6/25/93	490
MTCA	NA	NA	NA	200

Samples SW1-6.0 & SW3-6.5* collected as two discrete samples and composited together into one sample by the laboratory for analysis.
duplicate, laboratory duplicate analysis.
Sample Depth, given in feet below ground surface.
NA, not applicable.
WTPH-D, Washington State Test Method for diesel range petroleum hydrocarbons,
ppm, parts per million = mg/kg.
MTCA, Model Toxics Control Method A Soil Cleanup Levels (WAC-173-340).

APPENDIX A
Photographs

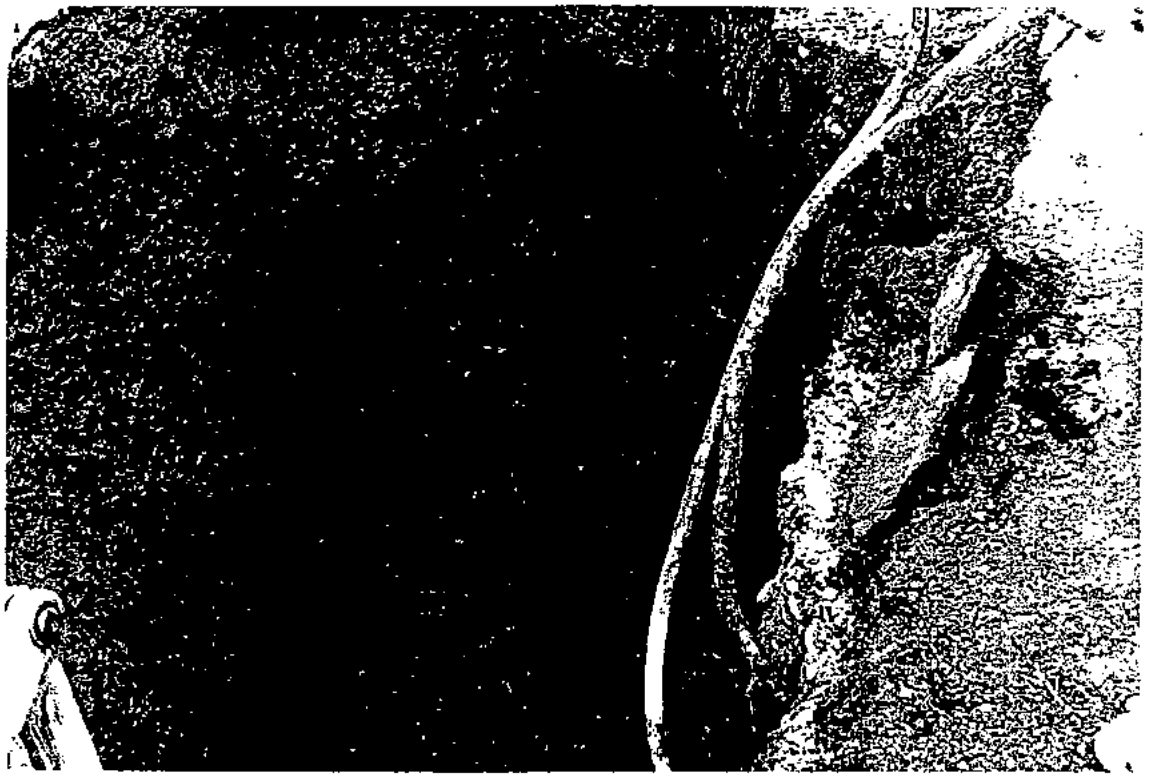


Photo 1. View of UST system excavation and characteristic soil types. Notice slight petroleum stained soil located at bottom of UST excavation, northwest corner. Soil sample SW4-7.0 was collected from this narrow zone of petroleum contamination.

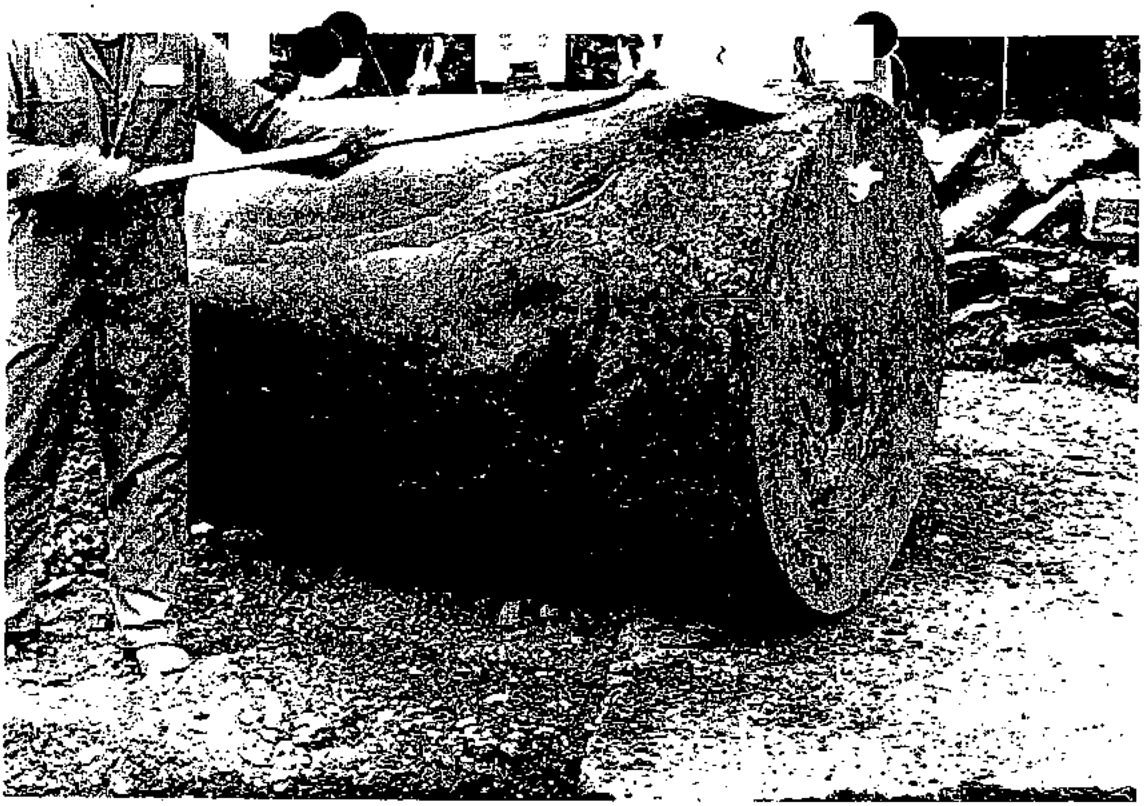


Photo 2. View of 500 gallon diesel fuel UST. Note the presence of minor rust along UST bottom and north end. The rag on north side of UST plugs hole punched by backhoe teeth.

Photo 3. View of decommissioned pump island, formerly used with 500 gallon diesel fuel UST.

APPENDIX B
UST Cleaning and
Disposal Certificate

223-02-CC-AS-TI'202RE

Coastal Tank Cleaning, Inc.
3801 7th Avenue South, Seattle, Washington 98108

Phone (206) 624-9843
Fax No. (206) 624-9766

DISPOSAL CERTIFICATION

DATE: June 15, 1993, 1993

TO: O'Sullivan Petroleum Equipment Co.
3214 16th Ave SW
Seattle, Wa. 98134

JOB SITE : Rental Mart, 29805 Pacific Hwy South, Federal Way

CTC's JOB#: 8429-93

YOUR PO #: 15556

Dear Sirs,

This letter is to certify that Coastal Tank Cleaning, Inc. (CTC) has received the following tank(s) for cleaning and disposal in accordance with all Federal, State and Local rules and regulations:

1: 500 gallon Diesel

DATE RECEIVED: 5-24-93

DATE CLEANED: 5-26-93

DATE DISPOSED: 5-27-93

BILL OF LADING #: 4026

METHOD OF DISPOSAL: Scrap Metal

If you have any questions regarding this matter please feel free to call at (206) 624-9843

Sincerely,

Don Austin
UST DISPOSAL MANAGER

APPENDIX C
Field Exploration & Soil Sampling Protocols

APPENDIX C
FIELD EXPLORATION AND SOIL SAMPLING PROTOCOLS

Soil samples were collected from either the center of the backhoe bucket or the hand auger sampler using a stainless steel spoon. All samples were collected using standard sampling procedures which minimize the risk of sample contamination. Prior to soil sampling, sampling tools were cleaned with a stiff brush and detergent solution consisting of Alconox and warm water, then rinsed with tap water and liberal quantities of distilled, deionized water. The soil samples were collected in 4 ounce borosilicate glass containers with teflon-lined screw caps. Samples were stored in a chilled ice chest and delivered directly to Friedman and Bruya Laboratories, Inc. of Seattle, Washington for analysis. Chain of custody forms accompanied each sample shipment, signed by field personnel, the shipping agency (if used), and the laboratory chemist.

APPENDIX D
Laboratory Report &
Quality Assurance
Data Review

APPENDIX D
LABORATORY REPORT
& QUALITY ASSURRANCE REVIEW

Analytical results were reported by the laboratory as a net weight value. The results shown in this report were converted to dry weight values by dividing the wet weight results by the percentage of total solids in the soil sample.

Laboratory quality assurance and quality control was performed by analyzing duplicate samples and surrogate recoveries. The duplicate sample results indicate good sampling and analytical precision.

In general, all analytical data were deemed acceptable.

FRIEDMAN & BRUYA, INC.
ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3008-B 16th Avenue West
Seattle, WA 98119
FAX: (206) 283-5044

May 27, 1993

Paul Riley, Project Leader
HAZCON
4636 E. Marginal Way South, Suite 215
Seattle, WA 98134

Dear Mr. Riley:

Enclosed are the results from the testing of material submitted on May 25, 1993 from Project 4259, Rental Marts.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

Amy Gray

Amy M. Gray
Chemist

AMG/dp

Enclosures

FRIEDMAN & BRUYA, INC.
ENVIRONMENTAL CHEMISTS

Date of Report: May 27, 1993
Date Received: May 25, 1993
Project: 4259, Rental Marts
Date Samples Extracted: May 26, 1993
Date Extracts Analyzed: May 26, 1993

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL BY GC/FID (Modified 8015) per Washington DOE Guidelines

Results Reported as µg/g (ppm)

Sample #	Diesel	Internal Standard (% Recovery)
Composite: SW1 - 6.0 SW3 - 6.5	<10	93%
SW2 - 6.5	80	91%
SW4 - 7.0	140	93%
B1 - 8.0	20	90%
Composite: STP1 STP2 STP3	490[id]	93%
Quality Assurance		
Blank	<10	95%
B1 - 8.0 (Duplicate)	20	92%
B1 - 8.0 (Matrix Spike) % Recovery	71%	90%
B1 - 8.0 (Matrix Spike Duplicate) % Recovery	70%	89%
Spike Blank % Recovery	71%	91%
Spike Level	500	

[id] The material present appears to be indicative of a mixture of diesel and a lubricating oil.

FRIEDMAN & BRUYA, INC.
3008 B 16th Avenue West
Seattle, WA 98119

SAMPLE CHAIN OF CUSTODY

Send Report To:
Company Hazcon Inc Contact Paul Riley
Address 4636 E. Marginal Way Suite 215
City, State, Zip Seattle, WA 98134
Phone # (206) 763-7864 Date 5/25/93

SITE NO.	PROJECT NAME	PURCHASE ORDER #
4259	Rental Marts	

SAMPLERS (Signature)

PROJECT LOCATION: Federal Way

REMARKS: Need results on May 26

SAMPLE DISPOSAL INFORM.
- Dispose after 30 days
- Return Samples
- Call for Instructions

SAMPLE #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyses Requested
SW1-6.0	5/25/93 11:10	soil	1	40310	~~COMPOSITE~~; WTPH-D
SW3-6.5	11:45			40311	
SW2-6.5	13:35			40312	WTPH-D
SW4-7.0	12:10			40313	WTPH-D
B1-8.0	11:25			40314	WTPH-D
STP1	12:05			40315	
STP2	12:08			40316	COMPOSITE;
STP3	12:12			40317	WTPH-D

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by:	Paul Riley	Hazcon, Inc.	5/25/93	12:45
Received by:	CL Hicks	F&B I	5:25:93	3:45 PM
Relinquished by:				
Received by:				

APPENDIX E
References

APPENDIX E
REFERENCES

Guidance for Site Checks and Site Assessment for Underground Storage Tanks, Washington State Department of Ecology Underground Storage Tank Program, Revised October, 1992,

Guidance for Remediation of Releases from Underground Storage Tanks, Washington State Department of Ecology Toxics Cleanup Program, July 1991.

The Model Toxics Control Act Cleanup Regulations Chapter 173-340 WAC, February 28, 1991.

Waldron, H.,: Geologic Map of the Poverty Bay Quadrangle (scale 1:24,000), Washington, 1961.

N.W. 0000432
006523

UNDERGRC ID STORAGE TANK
Permanent osure/Change-In-Service Ch klist

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

RECEIVED
MAY 16 1995

RECEIVED
AUG - 8 1995
DEPT. OF ECOLOGY

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: BANK OF CALIFORNIA

Owners Address: PO BOX 3123 (Street / P.O. Box)

SEATTLE, WA 98114 (City / State / ZIP-Code)

Telephone: (206) 587-6151

Site ID Number (on invoice or available from Ecology if tank is registered): tank #2 GAS

Site/Business Name: RENTAL MART

Site Address: 29805 PACIFIC HIGHWAY S (Street) KING (County)

FEDERAL WAY, WA 98003 (City / State / ZIP-Code)

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: O'Sullivan Petroleum Equipment Company License Number: S000036

Address: 3214 16th Avenue S. W. (Street)

Seattle WA 98134 (City / State / P.O. Box / ZIP-Code)

Telephone: (206) 682-2440

Licensed Supervisor: Tom C. Ra

Decommissioning License Number: W001682

ECY 010-162 (12/90)

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): ?
2. Year installed: N/K
3. Tank capacity in gallons: 5,000
4. Date of last use: ?
5. Last substance stored: GASOLINE
6. Date of closure/change-in-service: 9 Feb 93
7. Type of closure: Closure with Tank Removal ☐ In-place Closure ☐ Change-in-Service ☐
8. If in-place closure is used, the tank has been filled with the following substance: N/A
9. If change-in-service, indicate new substance stored in tank: N/A
10. Local permit(s) (if any) obtained from: DOE, City of Federal Way Fire Dept

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes ☒ No ☐

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 070-15B).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	JCP		
2. Has all product piping been capped or removed?	JCP		
3. Have all non-product lines been capped or removed?	JCP		
4. Have all liquid and accumulated sludges been removed from the tank?	JCP		
5. Has the tank been properly purged or inerted?	JCP		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	JCP		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	JCP		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	JCP		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	JCP		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

9 Feb 93 — Date
Sam L. Ra — Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

2-13-93 — Date
[signature] — Signature of Licensed/Certified Provider [firm] Owner or Authorized Representative

7-26-95 — Date
Janice M. Dimick — Signature of Tank Owner or Authorized Representative

N.W. #1

ECOLOGY

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

For Office Use Only K.B.
Owner # U0000432
Site # 006523

INSTRUCTIONS:

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with Ecology. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 006523

Site/Business Name: Federal Way Rental Mart

Site Address: 29805 Pacific Hwy S (Street) Telephone: ( )

Federal Way (City) WA (State) 98003 (ZIP Code)

RECEIVED MAY 16 1995 ECOLOGY

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
Tank 1 on sketch	5,000	Gasoline
#2 GASOLINE		

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ____ Investigate suspected release due to on-site environmental contamination
- ____ Investigate suspected release due to off-site environmental contamination.
- ____ Extend temporary closure of UST system for more than 12 months.
- ____ UST system undergoing change-in-service.
- ____ UST system permanently closed-in-place.
- ✓ UST system permanently closed with tank removed.
- ____ Abandoned tank containing product.
- ____ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ____ Other (describe): ____

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

		YES	NO
1.	The location of the UST site is shown on a vicinity map.	✓	
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	✓	
3.	A summary of UST system data is provided. (see Section 3.1)	✓	
4.	The soils characteristics at the UST site are described. (see Section 5.2)	✓	
5.	Is there any apparent groundwater in the tank excavation?		✓
6.	A brief description of the surrounding land use is provided. (see Section 3.1)	✓	
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	✓	
8.	A sketch or sketches showing the following items is provided:		
	- location and ID number for all field samples collected	✓	
	- groundwater samples distinguished from soil samples (if applicable) NA		✓
	- samples collected from stockpiled excavated soil	✓	
	- tank and piping locations and limits of excavation pit	✓	
	- adjacent structures and streets	✓	
	- approximate locations of any on-site and nearby utilities	✓	
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)		✓
10.	A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	✓	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.	✓	
12.	The results of this site check/site assessment indicate that a confirmed release of a regulated substance has not occurred.		✓

SITE ASSESSOR INFORMATION

Robert F. Simons — Person registered with Ecology

Nowicki & Associates Inc — Firm Affiliated with

Business Address: 33516 9th Ave S #6 (Street) — Telephone: (___) _____

Federal Way (City), Wa (State) 98003 (ZIP+Code)

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

3/7/93 — Date

Robert F. Simons — Signature of Person Registered with Ecology

Underground Storage Tank Removal

Site Assessment /Site Characterization

Gasoline Tank and Dispenser
DOE ID # 006523

Location: Federal Way Rental Mart
29805 Pacific Hwy S
Federal Way, WA 98003

Owner: Bank of California
PO Box 3123
Seattle, WA 98114
Attn: Jan Dimick

Contractor: O'Sullivan Environmental Services
3214 16th Avenue SW
Seattle, WA 98134

Site Assessor: Robert F. Simons

Robert F. Simons
Site Assessor
Nowicki & Associates Inc.
33516 9th Ave S
Federal Way, WA 98003

Excutive Summary

One approximately 5000 gallon gasoline storage tank and dispenser were removed on 2/9/93 from the Federal Way Rental Mart Site. Contamination was found on top of the tank and on the west side of the tank. Tank and contamination were removed on the afternoon of 2/9/93. Lab analysis done on samples taken at the end of the day showed soils at the site to be below Model Toxic Control Act (MTCA) standards for a clean site. Fifty yards of soil was stored next to the excavation site and lab analysis showed this soil to be contaminated. Lead analysis on stockpiled soil showed lead levels to be below MTCA cleanup levels.

Site History and Uses

Light commercial uses are prevelant along Pacifice Highway. A junior high school is located directly behind the property. A warehouse shop is found to the south of Rental Mart. Accross the street to the east and up an

embankment are apartments which were built within the last five years. Across Dash Point Road to the north is an abandonded service station(now a used car lot) which had its tanks and contamination removed within the last two years.

Prior to the site's current use a tire shop was located on the property facing Pacific Highway. Enclosed is a site sketch showing a foundation and sewers from the former buildings. The gasoline tank removed was installed next to the septic tank and sewer from this demolished structure. Abandonded piping and a concrete pad were located a few feet west of the pump island. Upon excavation this piping appeared to have served an underground tank which had been removed many years ago. Probably this older tank had been in the same area as the present tank which was removed on 2/9/93.

Tank installation was done just prior to 1970 which makes the installation approximately 25 years old.

Tank Removal 2/9/93

Cleaning and inerting of the tank was complete just after 10:00 AM. Representatives from the City of Federal Way Building Department and the local Fire District were onsite at this time to witness the inerting process. Asphalt was cut around the outline of the proposed excavation, but upon actual excavation it was found that the dispenser was over the middle of the tank and the excavation was expanded to compensate. This top to the tank was exposed by about 11:00 AM. Contamination was evident around the plumbing and the top of the tank. Tank removal was accomplished just before 12:00. Tank condition was good with minimal corrosion and no visible holes.

Contamination showed on the west side of the tank and flowed down the tank spreading to the west along the entire length of the tank. Dark grey soil with gasoline odor was excavated west about eight feet. A 4- inch sewer pipe connected to an approximately 1000 gallon septic tank was discovered during the excavation of contaminated soil. The sewer tank was located just to the northwest of the tank. North, south, and east sidewalls along with the bottom appeared to be clean. Excavation progressed west past the sewer pipe approximately eight feet along the entire length of the tank. A strong odor of organics or waste petroleum and solid grey soil was still noticeable on the west side of the excavation. Field screening with the Tank Techtor was done with negative results. Sewer often introduces an odor like waste petroleum and this was later found to be the case.

At approximately 3:30PM samples were taken and sent to Spectra Labs of Tacoma, WA for lab analysis. WTPH-G and BTEX were run on the five excavation samples following DOE Sampling guidelines. Sample results showed the excavation to be below Model Toxic Control Act (MTCA) regulations for a clean site. Sample analysis done on the stockpile confirmed contamination by gasoline. Lead sample analysis was 74 PPM which is below

the MTCA cleanup level of 250 PPM.

No groundwater was encountered during excavation.

Approximately 50 yards of stockpiled soil was placed on 6 mil plastic and the pile covered with 6 mil plastic at the end of the work day.

Closure of this site is recommended.

Sample Log

UST Removal - Gasoline

Federal Way Rental Mart

Date Sampled: 2/9/93

Sampler: Robert F. Simons

#	Location	Lab Results
01	Bottom Center of tank	<20
02	East wall of Excavation	<20
03	North wall of excavation	<20
04	Pump island soil from stockpile	1050 PPM
05	West wall at end of day	<20
06	Stockpile, west end	203 PPM
07	Stockpile, east side	43.3 PPM
08	Stockpile, north side	955 PPM
	Lead	73 PPM

Robert F. Simons

Robert F. Simons
Site Assesser
Nowicki & Associates Inc.

SPECTRA Laboratories, Inc.

CHAIN of CUSTODY

DATE 2/9

PAGE 1 OF 1

2221 Ross Way * Tacoma, WA 98421 * (206) 272-4850 * FAX (206) 572-9838

LABORATORY ANALYSES REQUEST

CLIENT: Nowicki

PROJECT: FWD Rental Mart

CONTACT: Bob Sievers

PHONE #: 927-5233

PURCHASE ORDER #:

SAMPLE ID	DATE	TIME	MATRIX
01	2/9	5:09	
02			
03			
04			
05			
06			
07			
08			

624/ 8240 VOLATILES	625/ 8270 SEMI-VOLATILE	8240 CHLOR. SOLVENTS	8240 BTEX	602/ 8020 BTEX	418.1 TPH	WTPH-HCID	WTPH-G	WTPH-D	8015 Mod. TPH	LEAD 7421 (WATER)	LEAD 6010 (SOIL)	pH 150.1	TOX 9020/ 9076	METALS 6010/ AES-0029	METALS AA/FURNACE	METALS (8) (TCLP)	8240 VOL (TCLP)	8270 SEMI-VOL (TCLP)	8270 PEST. (6) (TCLP)	8270 HERB. (2) (TCLP)						NORMAL TURNAROUND	RUSH
			X				X				X																

RETURN

DISPOSE

Fee applies

LAB ID

SPECIAL INSTRUCTIONS / COMMENTS:

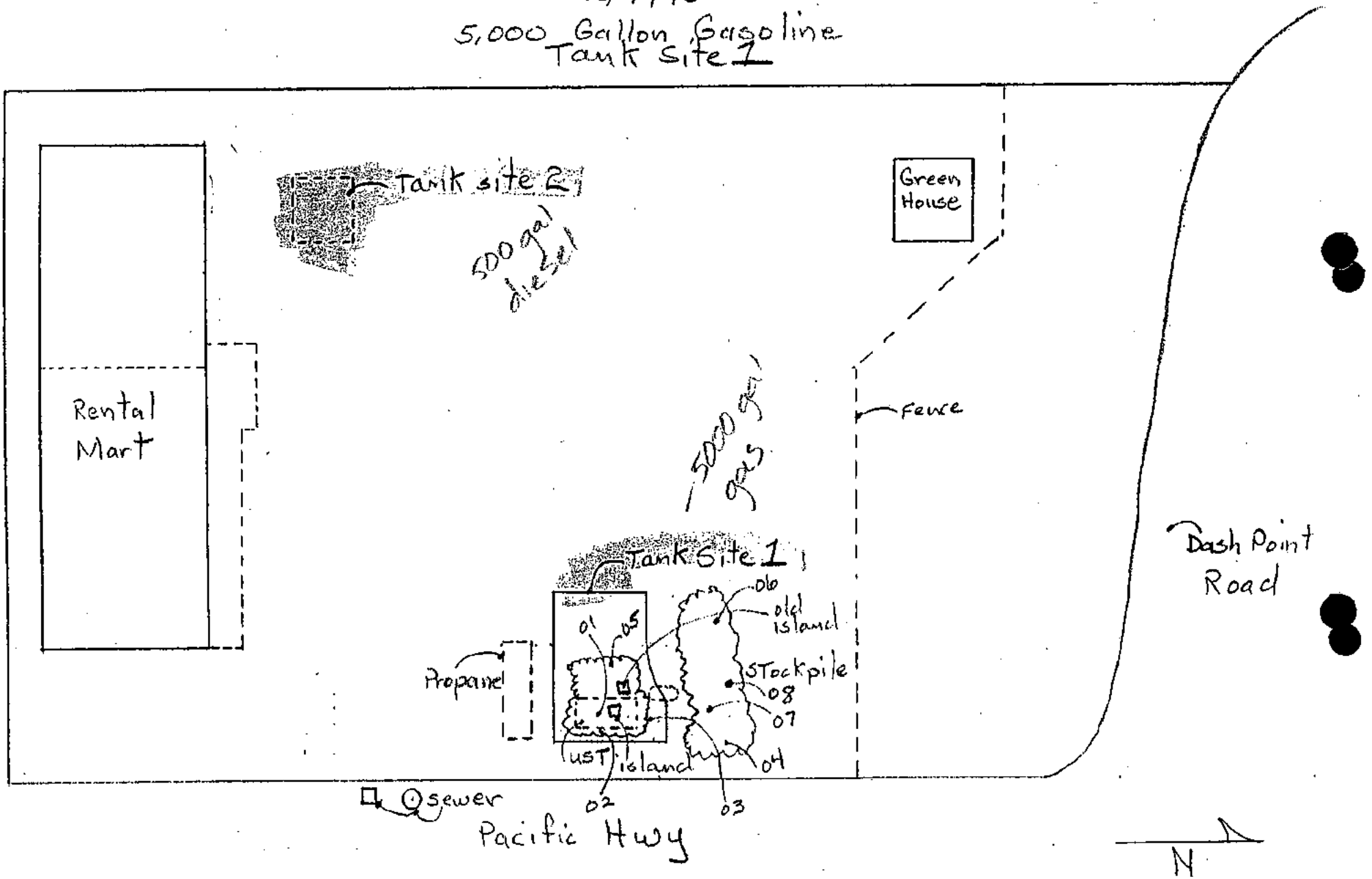
1. lead QS composite
2. Will early Thursday
3. Soil high in organics

(Signature) Relinquished by: Robert F. Sievers	(Signature) Relinquished by:	(Signature) Relinquished by:
Printed Name: Robert F. Sievers	Printed Name:	Printed Name:
Company: Nowicki	Company:	Company:
Date: 2/9 Time: 5:09	Date: Time:	Date: Time:
(Signature) Received by: Mike Munro	(Signature) Received by:	(Signature) Received by:
Printed Name: Mike Munro	Printed Name:	Printed Name:
Company: Spectra	Company:	Company:
Date: 2-9-93 Time: 5:09	Date: Time:	Date: Time:

Fed[redacted] Way
Rental Mart
UST location
2/9/93

Federal Way Rental Mart UST Removal
2/9/93

5,000 Gallon Gasoline Tank Site 1



SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Mr. Bob Simons
Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

RE: FW Rental Mart

Dear Mr. Simons,

Please find enclosed the results for the above referenced project.

If you have any questions or need any further information, please feel free to call any time.

Sincerely,

SPECTRA LABORATORIES, INC.

Mike Minner
Lab Director

Enclosure

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #01
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0806
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #02
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0807
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #03
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0808
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #04
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0809
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	3.68
Total Xylenes	7.68

WTPH-G, mg/Kg	1,050

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #05
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0810
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #06
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0811
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	0.73
Total Xylenes	4.4

WTPH-G, mg/Kg	203

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #07
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0812
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	0.77

WTPH-G, mg/Kg	43.6

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SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #08
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0813
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	4.73
Total Xylenes	28.7

WTPH-G, mg/Kg	955

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Steven G. Hibbs, Chemist

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: Comp. 1,2,3,4,5,6,7,8
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0814
RUSH

Total Lead (Pb), mg/Kg	73

Total Lead testing performed by EPA Method 6010

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Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.
2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample Matrix: Soil
EPA Method: BETX 8020
Sample Spiked: Method Blank
Date Extracted: 2-1-93
Date Analyzed: 2-1-93
Units: mg/Kg
Spectra Project: S302-074
Applies to Spectra #'s
0806 through 0813

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL RESULTS

Compound	Sample Result	Spike Amount Added	Spike Amount Found	% Recovery	Dup. Spike Amount Found	% Recovery	% RPD
Benzene	<0.30	0.88	0.90	103	0.93	106	4
Toluene	<0.30	0.88	0.96	109	0.98	111	2
Ethylbenzene	<0.30	0.88	0.94	107	0.97	110	3
m,p-Xylene	<0.30	1.70	1.67	98	1.73	102	4
o-Xylene	<0.30	0.88	0.96	109	0.97	110	1

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Steven G. Hibbs, Chemist

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2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Method: WTPH-G
Sample Matrix: Soil
Spectra Project: S302-074
Applies to Spectra #'s
0806 through 0813

HYDROCARBON ANALYSIS
QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank
Units: mg/Kg

Date Extracted: 2-1-93
Date Analyzed: 2-1-93

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. Recovery	% RPD
Gasoline	<20	51.4	52	101	46.4	90	11

METHOD BLANK

Date Extracted: 2-10-93

Date Analyzed: 2-10-93

WTPH-G, mg/Kg

<20

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Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

METHOD BLANK
Sample Matrix: Soil
Spectra Project: S302-074
Applies to Spectra #'s
0806 through 0813

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

METHOD BLANK
Date Analyzed: 2-10-93
Spectra Project: S302-074
Applies to Spectra #0814

Total Lead (Pb), mg/Kg	<4

Total Lead testing performed by EPA Method 6010

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

438-7484

NW 006523
U0000432

UNDERGROUND STORAGE TANK
30 Day Notice of Intent to Close/Decommission Tanks

The purpose of this form is to provide the Department of Ecology with notice of intent to close/decommission an UST. It must be received 30 days prior to the closure r of the UST to be closed or his/her authorized repr ology will notify the identified person of the earliest da

For questions on completing this form, pleas

Please type or use ink.

The completed checklist should be mailed to

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 0 as

To Joyce Smith	From Darcy Walker
Co. Dept of Ecology	Co. O'Sullivan Petroleum
Dept. UST Section	Phone # 682-2440
Fax # 438-7484	Fax # 621-8568

RECEIVED
APR 07 1993
DEPT. OF ECOLOGY

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS
RECEIVED
APR 02 1993

1. TANK OWNER AND LOCATION

UST Owner/Operator: Bank of California

Owners Mailing Address: 3123 (Street)

Seattle (City) WA (State) 98114 (ZIP Code)

Telephone: 1-206 587-6151

Site ID Number (on invoice or available from Ecology if tank is registered):

Site/Business Name: Rental Mart

Site Address: 29805 Pacific Highway S. (Street) King (County)

Federal Way (City) WA (State) (ZIP Code)

2. TANK PERMANENT CLOSURE TO BE PERFORMED BY (if known):

Firm: O'Sullivan Petroleum Equipment Co.

Address: 3214 16th ave SW (Street)

Seattle (City) WA (State) P.O. Box 98134 (ZIP Code)

Telephone: (206) 682-2440 Contact Name: DARCY WALKER

3. TANK INFORMATION

Tank Identification	Approx. Closure Date	Tank Capacity (gallons)	Tank Age (years)	Last Substance Stored
	May 10/93	1000	20-25	diesel

4. SIGNATURE OF TANK OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE

Darcy L. Walker (Signature) Estimator/Project Manager (Title) 4/2/93 (Date)

(Print or Type)

NW 40000432 SD

ecv

BANKCAL

THE BANK OF CALIFORNIA

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS
MAR 17 1993

March 15, 1993

State of Washington
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504

RE: Evans Trust
42123503/9940018C2
SITE NO. 006523 —
RENTAL MARTS
24805 Pac Highway S
Federal Way

Gentlemen:

Please be advised that we have had one tank removed from the above site. The tank we had removed held gasoline.

Very truly yours,

Susan L. Nakamichi
Trust Real Estate Assistant

sln

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS
006523
DEC 27 1991

UNDERGROUND STORAGE TANK
Tightness Testing Checklist

JB/3B/NW

The purpose of this form is to certify the proper tightness testing of underground storage tank (UST) systems including connecting underground piping. Tightness testing shall be conducted in accordance with Chapter 173.360 WAC.

This Tightness Testing Checklist shall be completed and signed by a **Licensed Tightness Testing Supervisor.** The supervisor shall be on site when all tank tightness testing activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a **Service Provider.**

Underground storage tank rules require owners/operators to employ a licensed tank services provider to repair, replace, upgrade, or close the UST system and to begin corrective action in accordance with WAC 173-360-399 if the test results indicate that a leak exists.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping) tightness tested, except that separate UST systems tightness tested at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of completion of tightness testing:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator: BANK OF CALIFORINA

Owners Address: PO BOX 3123 (Street / P.O. Box)

SEATTLE (City) WA (State) 98132 (ZIP-Code)

Telephone: ( )

Site ID Number (on invoice or available from Ecology if tank is registered): N/A 006503

Site/Business Name: RENTAL MARTS

Site Address: 29805 PACIFIC HWY SO (Street) KING (County)

FEDERAL WAY (City) WA (State) (ZIP-Code)

2. TIGHTNESS TESTING PERFORMED BY:

Firm: B & C EQUIPMENT CO License Number: 5000007

Address: 20320 80TH AV SO (Street / P.O. Box)

KENT (City) WA (State) 98032 (ZIP-Code)

Telephone: (206) 872-8890

Licensed Supervisor: JOSEPH C. SHOCK Tightness Testing License Number: W001108

This page must be completed separately for each tank and associated piping located at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK AND TESTING INFORMATION

1. Tank ID Number (as registered with Ecology): #2
2. Date installed:
3. Tank capacity in gallons: 500
4. Last substance stored: DIESEL
5. Reason for conducting tightness test:
   - [x] To comply with leak detection requirements in UST rules.
   - [ ] System test to investigate suspected release
   - [ ] Other (describe)
6. Date tightness test was conducted: 12-18-91
7. Type of test conducted: Tank tightness test [X] Line tightness test [ ]
8. Tightness testing method used:

   Test method name: PETRO-TITE TL

   Test method manufacturer: HEATH CONSULTANTS

   Volumetric [X] Non-volumetric [ ]

   If a non-volumetric method was used indicate approximate percentage tank was filled during test relative to capacity ____ %

4. CHECKLIST

The following items shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Does the tightness testing method used meet the performance standard specified in the UST rules (e.g., detecting at least a 0.10 gallon per hour leak rate with probability of detection of at least 95% and probability of false alarm of no more than 5%)?	JH		
2. Has the tightness testing method used been demonstrated by the manufacturer of the testing method to meet the above performance standard using EPA's standard test procedures for evaluating leak detection methods?	JH		
3. Have all testing procedures recommended by the manufacturer of the testing method been followed while the test was being set up and conducted?	JH		
4. Do the test results indicate that a leak exists in either the tank or piping system? If "yes" test results indicate that the leak is located in the: Tank [ ] Piping system [ ] If known, indicate leak rate:		JH	
5. If Item No. 4 is checked "yes" has the owner/operator been notified of the test results? *NOTE: Underground storage tank rules require owners/operators to report all suspected releases to the Department of Ecology or delegated agency within 24 hours.*			

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed tightness testing activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC

12-18-91 — Date

Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

12-26-91 — Date

Signature of Licensed Service Provider (firm) Owner or Authorized Representative

12-18-91 — Date

V.P.

Signature of Tank Owner or Authorized Representative

JOHN URBAN

RENTAL MARTS
FEDERAL WAY
LUST 4709

29805 PACIFIC HWY S NFA 5/17/01

4709/6523
1993-2001

RENTAL MARTS
FEDERAL WAY
29805 PACIFIC HWY S
1993-2001
NW 0623

ATC
ASSOCIATES INC.

REPORT OF SUBSURFACE INVESTIGATION AT

AT 29805 PACIFIC HIGHWAY SOUTH IN FEDERAL WAY, WASHINGTON

FOR
UNION BANK OF CALIFORNIA
BY
ATC ASSOCIATES INC.
PROJECT NO. 76.17883.0901
February 2, 2001

RECEIVED
MAR 0 8 2001
DEPT. OF ECOLOGY

REPORT OF
SUBSURFACE INVESTIGATION
AT

AT 29805 PACIFIC HIGHWAY SOUTH
IN FEDERAL WAY, WASHINGTON

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February 2, 2001

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Mark Watts
Project Manager,
WA UST Site Assessor

Jon R. Lovegreen
Certified Professional
Geological Scientist #4379

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FIGURES

Figure 1 – Site Vicinity Map
Figure 2 – Site Plan

APPENDICES

Appendix A. GEOPHYSICAL EXPLORATION REPORT
Appendix B. LABORATORY ANALYTICAL REPORTS
Appendix C. BORING LOGS AND FIELD PROCEDURES
Appendix D. LIKELIHOOD STATEMENTS

1.0 INTRODUCTION

1.1 Site Description

The site is located at 29805 Pacific Highway South in Federal Way, King County, Washington on the southwest corner of Pacific Highway South and Dash Point Road. The site consists of a 1.75-acre land parcel occupied at the time of this investigation by a vacant 6,350 square foot one-story commercial building located in the southern portion of the site. The building was reported to have been constructed in 1970 and has been utilized as an equipment rental facility since that time. Land use in the site vicinity consists of both commercial and residential interests. Figure 1 depicts the location of the project area on a topographic map (*Poverty Bay, WA),* United States Geological Survey topographic map, 7.5-minute series, 1:24,000 scale, 1961, Photorevised 1994).

The work was conducted by ATC Associates Inc. during the period of September 17, 2000 to January 12, 2001 in general accordance with Union Bank's Letter of Authorization for Union Bank of California File Log I.D. No. E00-1339-T dated September 11, 2000 pursuant to the Professional Environmental Services Agreement between Union Bank of California and ATC Associates Inc. dated 11 February 2000. The work was conducted at the request of and by the authorization of Ms. Cynthia Wagner of Union Bank of California.

1.2 Objectives

The objective of the subsurface investigation was to evaluate the likelihood that elevated concentrations of petroleum hydrocarbons, volatile organic compounds (VOCs) and heavy metals are present in the vicinity of UBOC-specified site features.

In addition, a supplemental objective was to evaluate whether a reported septic tank was present in an area where a geophysical anomaly was found during the initial stage of the subsurface investigation.

1.3 Scope

The scope of work that was developed initially to meet the scope of work was consistent with that requested by UBOC in its request for proposal dated August 31, 2000. Following the completion of the geophysical survey and the utility scan on September 29, 2000 and October 2, 2000, the scope of work was modified to that described below.

Health & Safety Plan
Geophysical Survey
Sump Outlet (Utility Scan)
Soil Sample Collection via Geoprobe Drilling Equipment
Laboratory Analyses of Selected Soil Samples
UST Exposure Based on the Results of the Geophysical Survey
Report and Management

The number of borings, their respective depths, and the analyses that were conducted are summarized in Section 5.

2.0 BACKGROUND

According to a Phase I Environmental Site Assessment (ESA) of the site performed by Kleinfelder, Inc. in June 2000, the following environmental concerns were reported to be present at the site:

- Historical review indicated that a combination restaurant and gasoline service station occupied the eastern portion of the site from approximately 1920 to the late 1960s. The number and location of the USTs associated with the gasoline station was not disclosed. The approximate location of the former gasoline station building is shown on Figure 2.

- In 1993, a 500-gallon diesel UST located in the southwest portion of the site was removed. According to Mr. Lee Forte, manager of United Rentals (previous tenant of the site), this UST was used by the equipment rental business. At the time of removal, all petroleum hydrocarbon-impacted soils were reported to have been removed. A 5,000-gallon gasoline UST (presumably from the former gasoline service station) located in the northeastern portion of the site was also removed in 1993. At the time of the UST removal, all impacted/contaminated soil was reported to have been removed. The approximate locations of these former USTs are shown on Figure 2.

- A 1,000-gallon septic tank was reported to have been left at the site. It was reported by Kleinfelder, Inc. (2000) to be north of the former 5,000-gallon UST that was removed in 1993.

- Following demolition of the gasoline service station, the existing site building was built on the southern part of the site in 1970.

- The site has been occupied by an equipment rental business since 1970, however the site is currently vacant.

- Several sumps were located both on the outside and inside of the building at the site. Water was present within the sumps and evidence of petroleum staining around the sumps was observed.

Based on the results of a Phase I Environmental Site Assessment (ESA) which included a number of the above observations, Kleinfelder, Inc. (2000) recommended the following:

- The performance of a geophysical survey of the site in order to further assess the presence of USTs or septic tanks that may be present from the former gasoline station.

- The completion of a subsurface soil sampling program in the areas adjacent to the two collection sumps located within the on-site structure, in the location of the former gasoline and diesel USTs removed in 1993, and in the location of the pump dispensers located at the former gasoline service station.

These and other concerns cited in UBOC's RFP were addressed in the scope of work described above for this subsurface investigation.

According to Kleinfelder, Inc. (2000) the site would be expected to be underlain by glacial deposits of the Vashon Drift which include dense, compact till and various types of glacial outwash. In

conversations with representatives of UBOC who are familiar with the area, it is ATC's understanding that the site is located in a former stream valley which lay approximately 30 feet below the present ground surface (bgs). The former stream/creek is reported to have been diverted to a drain that lies at a depth of approximately 30 feet bgs and trends approximately north-south across the eastern part of the site. No information on the depth to groundwater was reported in the immediate site vicinity by Kleinfelder (2000). The report stated that a water well located approximately 1.2 miles south of the site had a static water depth of approximately 45 feet bgs. The reported groundwater gradient was to the west-northwest (toward Puget Sound). ATC's experience with other sites in the general area of site is consistent with this reported depth to groundwater and gradient.

3.0 GEOPHYSICAL SURVEY

On September 19, 2000, a geophysical survey was performed across the site by Apollo Geophysics Corporation (AGC) under subcontract to ATC. AGC elected to use electromagnetics (EM) and ground penetrating radar (GPR) for the geophysical survey. The purpose of the survey was to evaluate the presence of buried ferrous objects throughout the site. AGC conducted its survey by initially traversing the entire site on 5-foot line spacings with the EM equipment. The GPR was then used to evaluate anomalies found by the EM equipment. AGC's report, including the equipment used, is included in Appendix A.

AGC reported three anomalies which they interpreted to be indicative of subsurface features during their geophysical exploration. The location of each of these anomalies is shown on Figure 1 in the Geophysical Survey Report in Appendix A and summarized as follows:

- AGC anomaly #1, located approximately 50 feet north of the northeast corner of the building at the site, indicated the presence of a potentially "crushed" UST.
- AGC anomaly #2, located in the vicinity of the reported septic tank on the eastern portion of the site, indicated the potential for several pipes entering the septic tank area.
- AGC anomaly #3, located in the northwestern portion of the site, indicated the presence of a potential UST.

In addition, AGC located and marked the outfall from the on-site sumps. According to AGC, the outfall was located approximately 50 feet north of the existing building at the site. This corresponded with a surface drain to the storm water sewer system. The surface drain is approximately three feet in diameter. This outfall is the subsurface discharge point where the drain from the sumps discharges into the storm water sewer. AGC marked the locations of these subsurface features on the asphalt pavement using white marking paint

On September 29, 2000, Emerald (under subcontract to ATC) used a backhoe to excavate the areas of the three anomalies. AGC anomalies #1 and #3 were found to have metal auto parts' debris at the depth interval of 5 to 8 feet bgs. No evidence of petroleum impacts (such as staining associated with petroleum hydrocarbons) to the soil was noted in these areas. The excavations were filled with the same soil that was excavated from these areas. However, one UST was found at approximately eight feet bgs in the area of AGC anomaly #2. This UST was investigated further as discussed below.

4.0 UTILITY SCAN

Utility Detection Services (UDS) utilized a 60-cycle Metrotech 6890 (line locator) to detect energized electrical lines and an A-10 Metrotech Line Locator to detect metallic objects (i.e., water lines, telephone cables, corrugated pipes) in the proposed boring locations. No utilities were identified by UDS in any in the vicinity of any of the proposed boring locations.

5.0 SUBSURFACE INVESTIGATION

5.1 Health and Safety Plan

The Health and Safety Plan was prepared by ATC prior to commencement of the fieldwork. It is the policy of ATC to provide a health and safety plan for all projects where hazardous wastes potentially may be found. The Health and Safety Plan is designed to minimize exposure of personnel of ATC and its subcontractors to potentially hazardous waste.

5.2 Soil Investigation

Following the completion of the geophysical survey and the exposure of the UST in the eastern portion of the site, ATC and UBOC discussed the number, location, and depth of borings to be drilled. Based on those discussions, on October 2, 2000, a total of ten (10) direct-push sampling probe borings (B-1 through B-10) were advanced at the locations shown on Figure 2.

The following table indicates the boring location, boring depth and the type of laboratory analysis that were performed for each analyzed soil sample. The depth of some borings was less than planned due to difficulty in advancing the drilling equipment to the desired depth (e.g., refusal). The planned depth is shown parenthetically in the following table.

Boring Number	Location	Depth (feet bgs)	Laboratory Analyses
B-1	Former 500-gallon diesel UST area; approx. 30 ft north of NE corner of existing site building	12 (20)	DRO
B-2	Reported septic tank area; in the area of the 750-gallon UST and reported former 5,000-gallon UST; in the area of the former gas service station	16 (10)	DRO, GRO, VOCs (including BTEX), metals
B-3	In an asphalt-patched indicative of a possible UST; also in the area of the former gas service station	15 (20)	GRO, BTEX
B-4	Approx. 5 ft NE of "north outside" sump (north of site building)	10 (10)	DRO, GRO, VOCs (including BTEX), metals
B-5	Adjacent to manhole (near sumps' outfall (discharge point) to the sewer line) approx. 50 ft north of site building	10.5 (10)	DRO, GRO, VOCs (including BTEX), metals
B-6	Adjacent to "west outside" sump (west of site building)	8 (10)	DRO, GRO, VOCs (including BTEX), metals
B-7	Adjacent to "eastern inside" sump (in main service bay)	10 (10)	DRO, GRO, VOCs (including BTEX), metals
B-8	On north side of former drum storage area; a heavily stained area	5 (5)	DRO, total lead
B-9	On south side of former drum storage area	4 (5)	DRO, total lead
B-10	Adjacent to "western inside" sump (in west service bay)	10 (10)	DRO, GRO, VOCs (including BTEX), metals

Depths indicated in parenthesis refer to the UBOC-specified depths (10)
VOCs = volatile organic compounds analyzed in general accordance with U.S. EPA Method No.8021B.
GRO = gasoline-range organics (total petroleum hydrocarbons [TPH]) analyzed in general accordance with State of Washington Method NWTPH-Gx.
DRO = diesel- and oil-range organics TPH analyzed in general accordance with State of Washington Method NWTPH-Dx.
BTEX = benzene, toluene, ethylbenzene and xylene analyzed in general accordance with U.S. EPA Method No. 8021B.
Metals = total lead, cadmium, chromium, arsenic, and mercury analyzed in general accordance with U.S. EPA-7000 Series.

Differences in the actual boring depths versus the proposed boring depths were due primarily to boring refusal (typically caused by large cobbles). Boring B-3 was advanced to 16 feet bgs to evaluate conditions of the nearby UST discovered on September 29, 2000.

TEG Northwest, Inc., under subcontract to ATC, used a truck-mounted Strataprobe™ direct-push probe apparatus to advanced the soil probe borings. All of the probes were advanced to approximately 4 to 16 feet bgs. The borings were logged by an ATC Project Manager and reviewed by a Certified Professional Geological Scientist. Soil samples were examined for evidence of impacted soil (such as staining or odors) and scanned using a photoionization detector (PID). The soil samples were placed into laboratory-provided glass containers. The collected soil samples were placed into a cooler chilled with "blue" ice and transported to the laboratory following chain-of-custody protocols.

The soil samples were sent to TEG Northwest Inc. in Lacey, Washington for analysis. Soil samples with obvious indications of impact by petroleum hydrocarbons were analyzed for the presence of gasoline-range organics (GRO) total petroleum hydrocarbons (TPH) using Method NWTPH-G, diesel- and oil-range organics (DRO) TPH using Method NWTPH-Dx and for BTEX using EPA Method 8021B.

5.3 Subsurface Conditions

The soil conditions encountered consisted of brown, dry to moist silty sand with gravel and cobbles in the upper 13 feet. Below 13 feet to the bottom of the borings at approximately 16 feet bgs were gray, silty, gravelly, medium to fine sands. In ATC's judgment, all of the soils encountered were non-native fill material. This judgment is based on the presence of the amount of demolition debris (i.e., concrete, car parts, tires and wood) found while excavating to the top of the UST.

Groundwater was not encountered in any of the borings. However, the two borings drilled to a depth of 15 to 16 feet bgs encountered wet soil conditions indicative of possible seasonal perched water. Boring logs are included in Appendix C.

Petroleum-impacted soil was encountered in boring B-3 at a depth of approximately 11.5 feet bgs. This soil was observed to be visually stained, had a petroleum odor and had a low PID reading of 2.0. No other borings had observed field indicators of petroleum hydrocarbons or VOCs.

5.4 Soil Sample Observations and Laboratory Analyses

One to two soil samples were collected from each boring (B-1 through B-10) and submitted for analysis. Field screening of soil samples using a PID revealed no detectable organic vapors in the soil samples except for one soil sample in boring B-3 at a depth of approximately 11.5 feet bgs. Sample B-3 (11.5 – 12.0) was analyzed for the presence of GRO TPH and BTEX. Laboratory analysis revealed that sample B-3 (11.5 - 12.0') did not contain detectable concentrations of either GRO TPH or BTEX. As discussed above, the remaining soil samples collected from borings B-1 through B-10 showed no visual indications that soil was impacted by petroleum hydrocarbons or VOCs. The soil sample analytical results and chain-of-custody documentation are included in Appendix B.

Soil sample B-5 (10-10.5) contained 140 milligrams per kilogram (mg/kg) lead. Soil samples B-4 (7.5 – 8.0) and B-10 (3.5 – 4.0) both contained 21 mg/kg chromium. These concentrations are not considered significant as discussed below in Section 7.

No VOCs were detected in any of the analyzed soil samples.

6.0 UST EXCAVATION

Based on the results of the geophysical survey, feature #2 was interpreted to be a possible UST along the eastern portion of the site. On September 29, 2000 the area in this anomaly was excavated and the top of a UST was exposed. The interior of the UST was observed to have a minimal amount of liquid in the bottom of the UST. The UST was observed to be oriented in an east - west direction. It was estimated to be approximately seven feet long and three feet wide with an estimated capacity of 750 gallons.

The top of the UST was encountered at a depth of approximately eight feet bgs. Soil was excavated to a depth of approximately nine feet, around the UST. No evidence of petroleum-impacted soil was observed during the exposure of the top of the UST. Following the confirmation of its presence, the UST was covered with the excavated soil pending finalization of the scheduling to remove the UST.

7.0 DISCUSSION

The results of the geophysical survey were used to locate where the outfall (subsurface discharge point) from the on-site sumps discharged into the sewer. According to AGC, the outfall was located approximately 50 feet north of the existing building at the site at the location shown on Figure 2. Boring B-5 was drilled in the vicinity of this sump discharge location. No evidence of impacted soil was observed in the collected soil samples and no DRO or GRO TPH or VOCs were detected in the analyzed soil sample collected at a depth of approximately 10 feet bgs. No metals were detected except for lead, which was detected in the analyzed soil sample at a concentration of 140 mg/kg. The State of Washington Model Toxics Control Act (MTCA) Cleanup Level for unrestricted land use for lead in soil is 250 mg/kg. Based on these results, there is a very low likelihood that the soils in the vicinity of this discharge location have elevated concentrations of petroleum hydrocarbons, VOCs or heavy metals. Likelihood statements are discussed in Appendix D.

The results of the geophysical survey also were interpreted by AGC to show that there were three features indicative of a possible septic tank and two possible USTs at the locations shown on Figure 2. Subsequent excavation in the area of each of these anomalies found metal debris in the area of two of the anomalies (AGC anomalies #1 and #3). No evidence of impacted soil was observed in the soils excavated in these areas. An approximately 750-gallon UST was found in the area of AGC anomaly #2. No evidence of impacted soil was observed in the soils excavated from above the top of this UST. Following its observation, the UST was recovered with excavated soil until such time as it could be decommissioned by removal under an agency permit. Boring B-2 was advanced near the east side of this 750-gallon UST. No evidence of impacted soil was observed in the collected soil samples and no DRO or GRO TPH, VOCs, or metals were detected in the analyzed soil sample collected at a depth of approximately 15.5 feet bgs. Based on these results, there is a low likelihood that the soils in the vicinity of this UST have elevated concentrations DRO or GRO TPH, VOCs, or metals.

The results of the drilling, soil sampling, and laboratory analysis of soil samples collected in the vicinity of the four sumps included no observed field evidence of impacted soil or detectable concentrations of DRO or GRO TPH, or VOCs (including BTEX). No heavy metals were detected in any of the analyzed soil samples except for chromium which was detected in borings B-4 (7.5 – 8.0) and B-10 (3.5 – 4.0).

Both samples contained 21 mg/kg chromium. This concentration is below those reported to be "normal" in soils in general and soils in the western United States (Fink, 1996; Shacklette and Boerngen, 1984). The Model Toxics Control Act Method A Cleanup Level for chromium in soil is 100 mg/kg. Based on these results, there is a low likelihood that the soils in the vicinity of this UST have elevated concentrations of DRO or GRO TPH, VOCs, or metals.

The results of the soil sampling in boring B-2 near the former 5,000-gallon gasoline UST decommissioned in 1993, the 750-gallon UST and the formerly reported septic tank showed no field evidence of petroleum hydrocarbon impacted soil. No DRO or GRO TPH, VOCs, or metals were detected in the analyzed soil sample collected at a depth of approximately 15.5 feet bgs. Based on these results, there is a low likelihood that the soils in the vicinity of this UST have been impacted by DRO or GRO TPH, VOCs, or metals.

No evidence of impacted soil was observed in sampled soil in boring B-3 (in the area with of an asphalt-patch indicative of a possible UST) except for a thin zone (approximately one-inch thick) of stained soil that was observed in soil collected from a depth of approximately 11.5 feet bgs. This thin zone of stained soil had a petroleum odor and a low PID reading of 2.0. The soil sample collected in this depth interval was analyzed was for GRO TPH and BTEX. Analytical results of this soil sample revealed no detectable concentrations of GRO or BTEX. Based on these results, there is a low likelihood that the soils in the vicinity of this UST have been impacted by GRO TPH and BTEX.

8.0 CONCLUSIONS

Based on the results of this investigation, current regulatory guidelines, and the judgment of ATC, the following conclusions have been drawn:

- A geophysical anomaly in the eastern portion of the site was found to have one UST of approximately 750-gallon capacity.
- During excavation of geophysical anomaly #2, no evidence of the reported septic tank was found.
- None of the analyzed soil samples had concentrations of GRO or DRO TPH, VOCs (including BTEX), or metals that exceeded MTCA Method A Cleanup Levels.
- There is a low likelihood that elevated concentrations of petroleum hydrocarbons (DRO or GRO TPH); VOCs, or metals are present in soils in the vicinity of the sumps, sump outfall area, drum storage area, and the former 500- and 5000-gallon USTs.

9.0 RECOMMENDATION

Based on the results of this investigation, current regulatory guidelines, and the judgment of ATC, the following recommendation is presented for your consideration:

- The approximately 750-gallon UST discovered on September 29, 2000 should be decommissioned according to Washington Department of Ecology guidelines.

10.0 REFERENCES

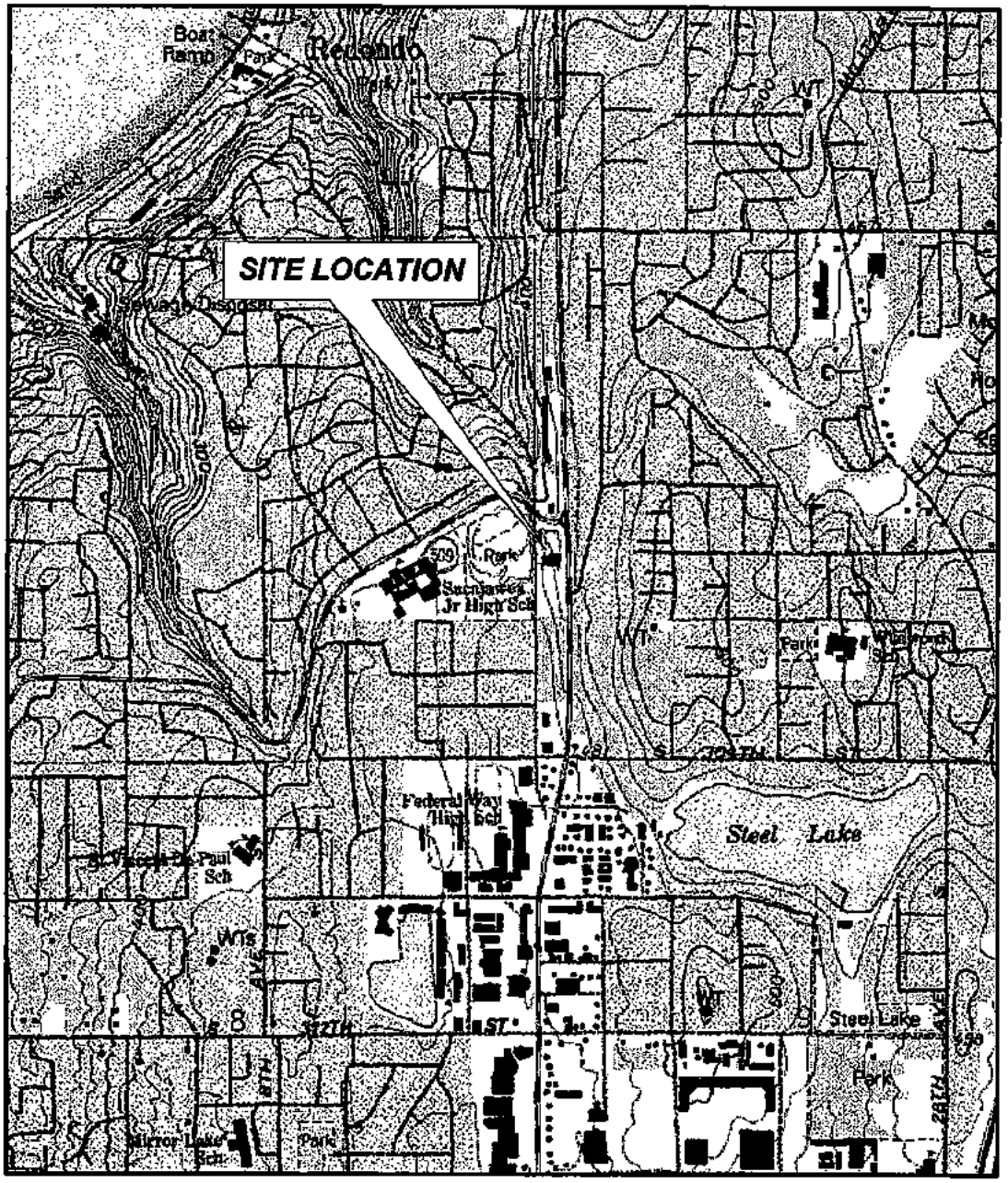
Fink, C.R., 1996, A perspective on metals in soils: Journal of Soil Contamination, v. 5, no. 4, pp 329-359.

Kleinfelder, Inc., 2000, Phase I Environmental Site Assessment Vacant Commercial Property, 29805 Pacific Highway South, Federal Way Washington 98003, UBOC File No. E00-1148-T: Unpublished professional report prepared for Ruth Evans Trust c/o UBOC of Orange, California, dated June 13, 2000.

Shacklette H.T., and Boerngen, J.G., 1984, Element concentrations in soils and other surficial materials of the conterminous United States: U.S. Geological Survey Professional Paper 1270, U.S. Government Printing Office, Washington, D.C., 105p.

R 4 E.

T 21 N.



SOURCE: USGS 7.5 X 15 MINUTE TOPOGRAPHIC SURVEY MAP OF
POVERTY BAY, WASHINGTON QUADRANGLE; 1961, PHOTOREVISED 1994

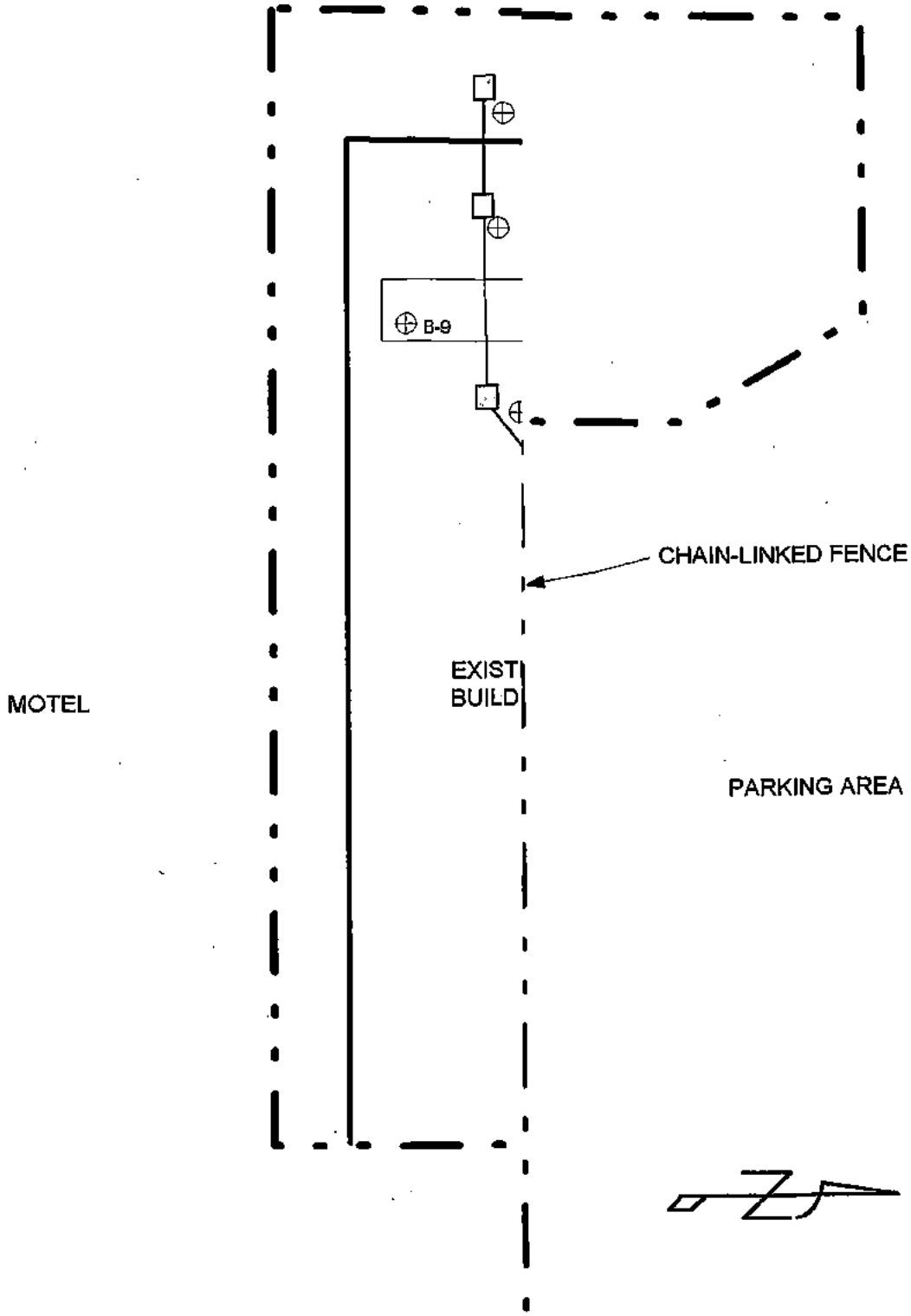
VATC ASSOCIATES INC.
Solutions for Environmental Concerns

PROJECT NO.: 76.17883.0901		
DESIGNED BY: MW	SCALE: 1:24,000	
DRAWN BY: MW	DATE : 12/15/00	FILE: Fig1.VSD

FIGURE 1

SITE VICINITY MAP

PHASE II SUBSURFACE INVESTIGATION
RUTH EVANS TRUST
29805 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WASHINGTON



ATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.: 76.17883.0901		
DESIGNED BY: MW	SCALE: 1" ~ 25'	TYPE:
DRAWN BY: MW	DATE : 01/16/01	FILE: 0901Fig2.vsd

FIGURE 2

SITE MAP

PHASE II SUBSURFACE INVESTIGATION
RUTH EVANS TRUST
29805 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WASHINGTON

APPENDIX A

GEOPHYSICAL EXPLORATION REPORT

APOLLO GEOPHYSICS CORPORATION

Engineering, Geology, Environmental, Construction & Mining

Wednesday, October 04, 2000

Mark Watts
ATC Associates, Inc.
6347 Seaview NW
Seattle, Washington 98107

AGC File No.: **00.347**

Re: **UST Locate**
Federal Way Site
Federal Way, Washington

Dear Mr. Watts,

This letter reports the results of geophysical exploration for potential Underground Storage Tanks (USTs) at the above referenced site. The site is located at 29805 Pacific Highway South in Federal Way, Washington. A two-person field crew from **APOLLO GEOPHYSICS** completed the geophysical field program on Tuesday, September 19, 2000.

We investigated the site with an Electromagnetic (EM) instrument, which locates buried metal objects. We traversed the site with the EM instrument on approximate 5-foot line spacings, which produced target areas for the Ground Penetrating Radar (GPR). We further investigated the target areas using GPR, which enabled us to identify the targets as potential USTs, underground utilities, or demolition debris. Ground Penetrating Radar established a relative depth, size and ground projection of the object (i.e. to determine if the object was indicative or was not indicative of a UST or utility). Small objects in the near surface, 1 to 2 feet, will respond the same as a larger object (UST) at depth.

RESULTS OF THE GEOPHYSICAL SURVEY

We investigated the inside the existing building with the GPR instrument for the piping, which connects the sumps together. We traversed the parking lot area with an EM instrument, which

found several target areas for further investigation with the GPR instrument, to evaluate their potential as USTs.

One of the EM target areas, Target #3, showed potential as a UST after being traversed with the GPR Instrument. We recommend this area to be further evaluated with direct exploration.

Target area #2 showed potential as a buried septic tank after being traversed with the GPR instrument. We recommend this area to be further evaluated with direct exploration. The GPR Imagery indicated the potential for several pipes entering the septic tank.

The GPR Imagery for Target #1 was not indicative of a UST however; the Imagery may indicate the potential for a crushed UST. We recommend this area to be further evaluated with direct exploration.

The approximate locations of the pipes connecting the sumps inside the building and the approximate locations of target areas #1 through #3 are shown on the Site Plan in Figure 1. The GPR images for target areas #1 through #3 are presented in Figures 2 through 6. All EM target areas and recommended direct exploration locations were marked in the field with environmentally degradable paint. Suspected pipes, demolition debris, etc., were not marked in the field.

The 'GPR Imagery' presented in Figures 2 through 6 have a horizontal and vertical scale of approximately 1 inch equals 4 feet. With regard to the estimated vertical scale, the normal relationship between radar time and actual depth for the Northwest Region is approximately 4 to 4.5 nanoseconds per foot. It should be noted that this relationship holds true in a general sense. Variations of water content, silt content and other factors, such as the presence of concrete flooring, may also change this relationship. Therefore it should be expected that the vertical scale is an estimate only and may vary from the shown scale.

ELECTROMAGNETIC

The electromagnetic, or EM device, transmits and receives an electromagnetic signal. The EM signal is transmitted through the ground, which in turn radiates a signal that is dependent on the ground conductivity and which is also received at the receiver. The two signals, the transmitted

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and ground response EM waves, are balanced for a zero response in the instrument. When the ground conditions change, for example, when the transmitted signal encounters buried metal, the balance or null point changes, and the instrument responds with an audible signal. Depending on the size of the metal object, the penetration is up to 10 feet in depth. The EM survey was limited in areas, where reinforcing steel was present in the concrete or immediately adjacent to any above ground metal objects on the site.

GROUND PENETRATING RADAR

APOLLO GEOPHYSICS uses a PE1000 with either a 450 or 110 MHz antenna for shallow UST Locates. The radar antenna transmits an electromagnetic step-pulse at a frequency of 450/110 MHz at a selected stack rate of 32/64. When the signal encounters a change in electrical properties/permittivity, a portion of the signal energy is reflected back to the surface. The character of the reflection is used to define the source of the reflection. The reflected signal is received by the antenna, processed by a DSP radar processor with signal gain control and the raw data is recorded by the outboard 80486 computer with 16 MB RAM & 300 MB Hard Drive. The radar data is displayed by the computer on a 16.5 cm Color Active Matrix LCD VGA screen in real-time. The radar displays the data in real-time, which enables us to review the data in the field for on the spot evaluation. The recorded raw data, as recorded by the computer, is then later processed to remove unwanted peripheral effects by proprietary GPR software.

A typical circular UST will produce, in cross-section, a hyperbolic reflection. A traverse parallel to the centerline of the UST will show a horizontal (if there is no velocity or elevation change along the traverse) reflection, with a partial hyperbolic signature at both ends of the UST. The hyperbolic signature is the result of "seeing" the tank before the center of the antenna is over the tank.

WARRANTY OF SERVICES

Electromagnetic methods may define UST's constructed of non-ferrous metals, but not fiberglass or plastic materials. Ground Penetrating Radar may define fiberglass or plastic UST's or drums provided they fall within the exploration grid of the GPR.

All geophysical information presented is based upon geophysical measurements made by generally accepted methods and field procedures and **APOLLO GEOPHYSICS'** interpretation of these data. The geophysical results are, therefore, interpretative in nature and are considered to be a reasonably accurate presentation of existing conditions within the limitations of the methods employed. Services performed by **APOLLO GEOPHYSICS** under this agreement are conducted in a manner consistent with, but no less than, that level of care skill ordinarily exercised by members of the profession currently practicing under similar conditions. We cannot guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, cost, damages or expenses incurred or sustained by the Client resulting from any interpretation made by any of our officers, agents or employees. No other warranty, expressed or implied, is made. **APOLLO GEOPHYSICS** recognizes that subsurface conditions may vary from those encountered at the location where geophysical or other explorations are made. The data interpretations and recommendations made by **APOLLO GEOPHYSICS** are based solely on the information available to them at the time of performance; and **APOLLO GEOPHYSICS** shall not be responsible for the interpretation, by others, of the information developed.

We trust this will complete your requirements for this project and look forward to working with you on future projects. If you have any further questions or need further assistance, please don't hesitate to call.

Sincerely,

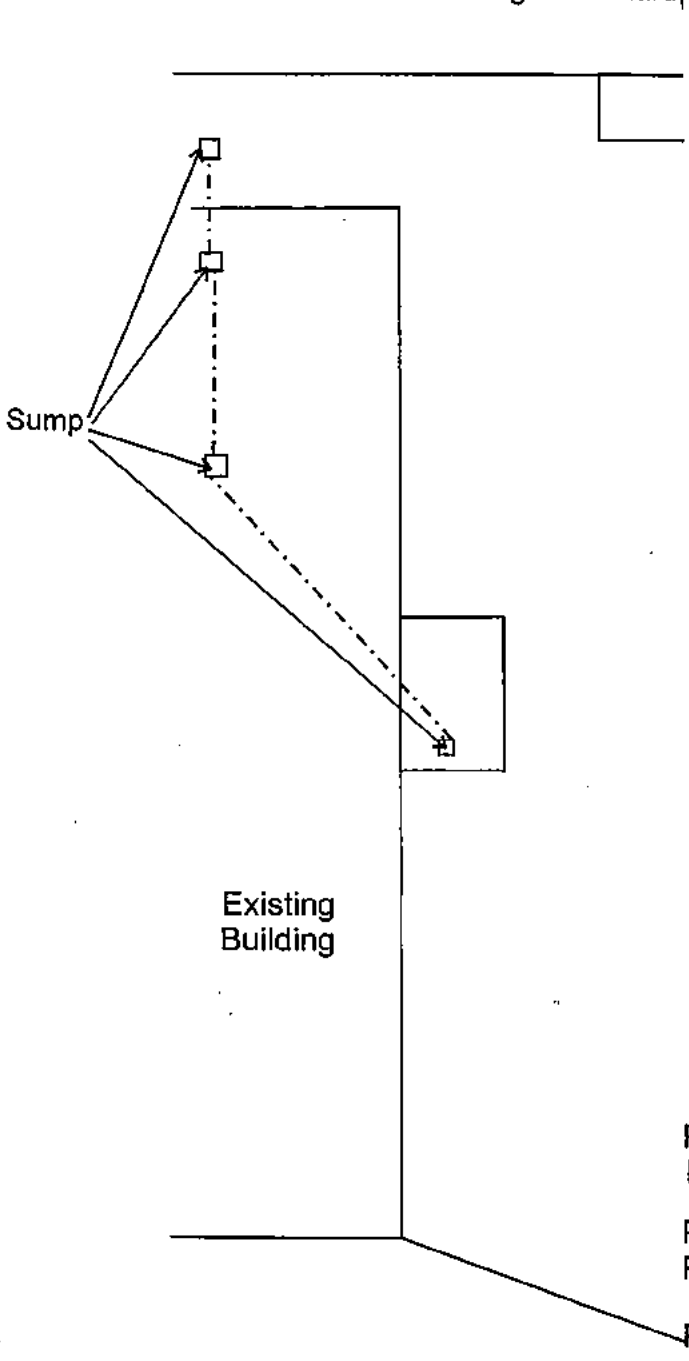
APOLLO GEOPHYSICS CORPORATION

Lynn M. Ringstad

Lynn M. Ringstad
Project Geologist/Geophysicist

Matthew C. Ringstad
Project Geophysicist

Site Plan



LEGEND

PROXIMATE LOCATION OF SUSPECTED DERGROUND STORAGE TANK

PROXIMATE LOCATION OF SUSPECTED PTIC TANK

PROXIMATE LOCATION OF EM/GPR ANOMALY

PROXIMATE LOCATION OF POTENTIAL PIPE

0 30 60

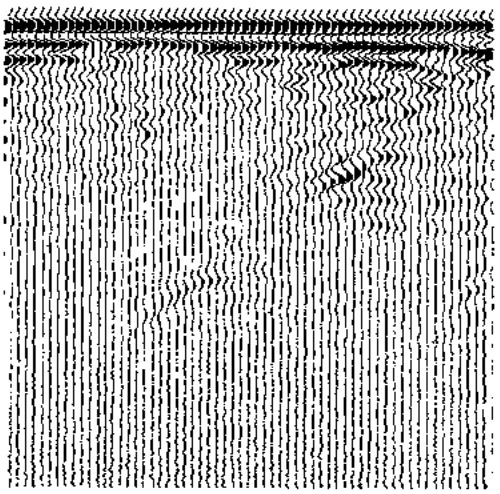
Approximate Scale 1" = 30'

Note: Site Plan created from measurements made in the fi

UST Locate - Federal Way Site Federal Way, Washington	FIGURE 1
FILE NO. 00.347	DATE October 2000

Geophysics\2000 Project Reports & Data\00.347\00.347sp.cdr

UST Locate - GPR Imagery - Target #1



top of anomaly

limits of anomaly

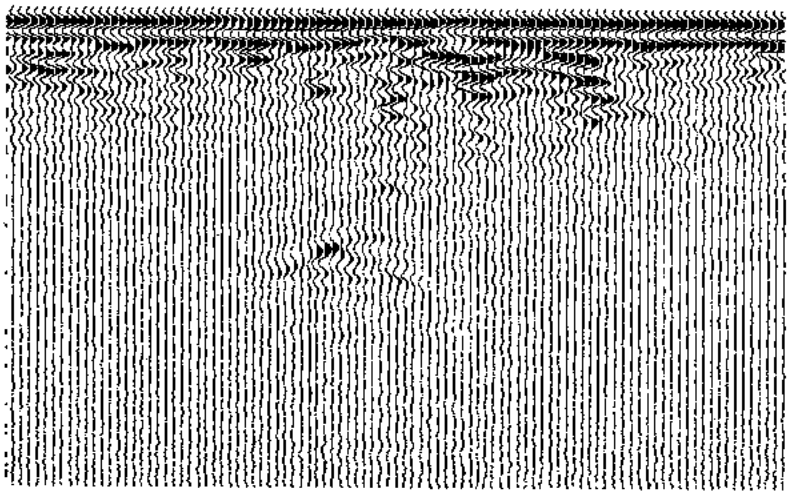
0 4 8

Approximate Scale 1" = 4'

NOTE: The normal relationship between radar time and actual depth for the Northwest Region is approximately 4 to 4.5 nanoseconds per foot. It should be noted, that this relationship holds true in a general sense. Variations of water content, silt content and other factors, such as the presence of concrete flooring, may also change this relationship.

APOLLO GEOPHYSICS CORPORATION ENGINEERING, GEOLOGY, ENVIRONMENTAL CONSTRUCTION & MINING	UST Locate - Federal Way Site Federal Way, Washington	FIGURE 2
	FILE NO. 00.347	DATE October 2000

UST Locate - GPR Imagery - Target #1



top of anomaly

limits of anomaly

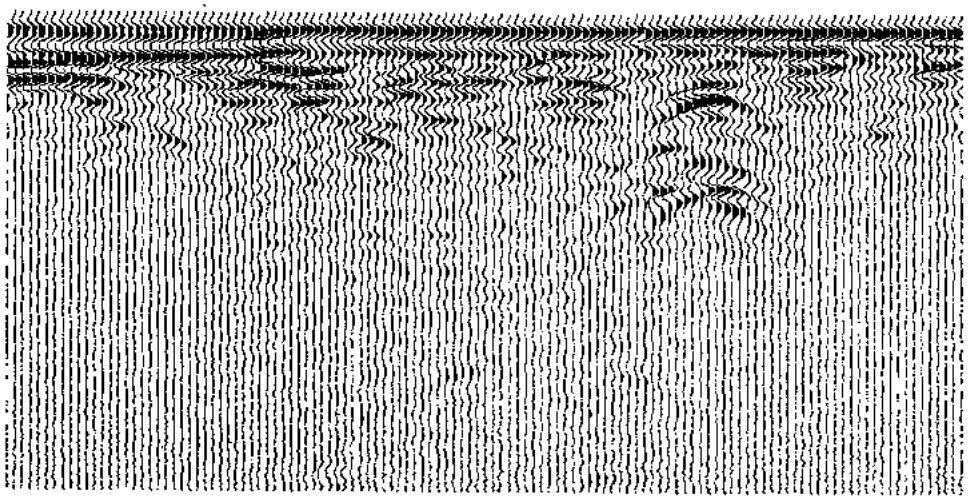
0 4 8

Approximate Scale 1" = 4'

NOTE: The normal relationship between radar time and actual depth for the Northwest Region is approximately 4 to 4.5 nanoseconds per foot. It should be noted, that this relationship holds true in a general sense. Variations of water content, silt content and other factors, such as the presence of concrete flooring, may also change this relationship.

APOLLO GEOPHYSICS CORPORATION ENGINEERING, GEOLOGY, ENVIRONMENTAL CONSTRUCTION & MINING	UST Locate - Federal Way Site Federal Way, Washington	FIGURE 3
	FILE NO. 00.347	DATE October 2000

UST Locate - GPR Imagery - Target #2



top of suspected septic tank

limits of suspected septic tank

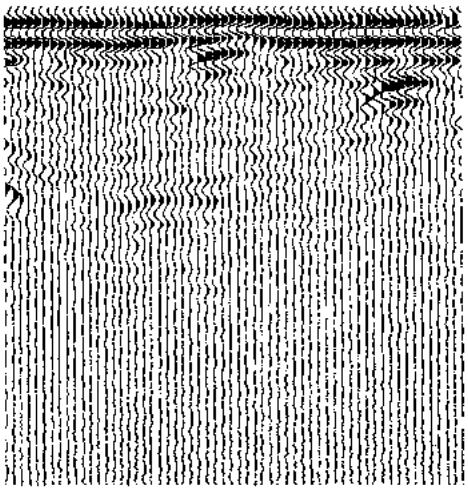
0 4 8

Approximate Scale 1" = 4'

NOTE: The normal relationship between radar time and actual depth for the Northwest Region is approximately 4 to 4.5 nanoseconds per foot. It should be noted, that this relationship holds true in a general sense. Variations of water content, silt content and other factors, such as the presence of concrete flooring, may also change this relationship.

APOLLO GEOPHYSICS CORPORATION ENGINEERING, GEOLOGY, ENVIRONMENTAL CONSTRUCTION & MINING	UST Locate - Federal Way Site Federal Way, Washington	FIGURE 4
	FILE NO. 00.347	DATE October 2000

UST Locate - GPR Imagery - Target #3



top of
suspected UST

limits of
suspected UST

0 4 8

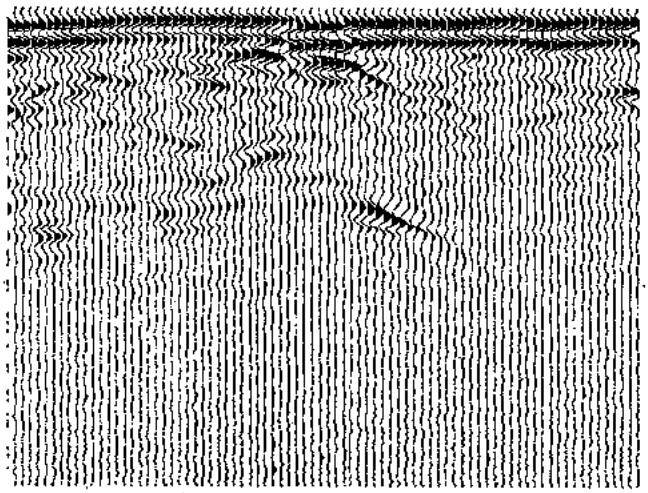
Approximate Scale 1" = 4'

NOTE: The normal relationship between radar time and actual depth for the Northwest Region is approximately 4 to 4.5 nanoseconds per foot. It should be noted, that this relationship holds true in a general sense. Variations of water content, silt content and other factors, such as the presence of concrete flooring, may also change this relationship.

APOLLO GEOPHYSICS CORPORATION
ENGINEERING, GEOLOGY, ENVIRONMENTAL
CONSTRUCTION & MINING

UST Locate - Federal Way Site Federal Way, Washington	FIGURE 5
FILE NO. 00.347	DATE October 2000

UST Locate - GPR Imagery - Target #3



top of
suspected UST

limits of
suspected UST

0 4 8

Approximate Scale 1" = 4'

NOTE: The normal relationship between radar time and actual depth for the Northwest Region is approximately 4 to 4.5 nanoseconds per foot. It should be noted, that this relationship holds true in a general sense. Variations of water content, silt content and other factors, such as the presence of concrete flooring, may also change this relationship.

APOLLO GEOPHYSICS CORPORATION ENGINEERING, GEOLOGY, ENVIRONMENTAL CONSTRUCTION & MINING	UST Locate - Federal Way Site Federal Way, Washington	FIGURE 6
	FILE NO. 00.347	DATE October 2000

APPENDIX B

LABORATORY ANALYTICAL RESULTS

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

800 Sleater-Kinney SE, PMB #262
Lacey, Washington 98503-1127

Mobile Environmental Laboratories
Environmental Sampling Services

Telephone: **360-459-4670**
Fax: **360-459-3432**

October 17, 2000

Mark Watts
ATC Associates
6347 Seaview Ave. NW
Seattle, WA 98107

Dear Mr. Watts:

Please find enclosed the analytical data report for the Ruth Evans Trust Project in Federal Way, Washington. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/Dx Extended, Gasoline by NWTPH-Gx, Specific Halogenated Hydrocarbons and BTEX by Method 8021B, and MTCA 5 Metals by Method 7000 series on October 4 – 6, 2000.

The results of these analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to ATC Associates for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec
President

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

RUTH EVANS TRUST PROJECT
Federal Way, Washington
ATC Associates
Client Project #76.17833.0901

Specific Halogenated and Aromatic Hydrocarbons (EPA 8021B) in Soil

Sample Description		Method Blank	B2 (15.5-16)	B4 (7.5-8.0)	B5 (10-10.5)	B6 (4.5-5)	B7 (7.5-8)
Date Sampled		10/2/00	10/2/00	10/2/00	10/2/00	10/2/00	10/2/00
Date Analyzed		10/5/00	10/5/00	10/5/00	10/5/00	10/5/00	10/5/00
	MDL (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Vinyl chloride	0.25	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
Methylene chloride	0.05	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.05	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.05	nd	nd	nd	nd	nd	nd
Carbon tetrachloride	0.05	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	0.05	nd	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.05	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.05	nd	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.05	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd
Surrogate Recovery (%)		110	104	67	66	125	113

"nd" Indicates not detected at listed detection limit.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65%- 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

RUTH EVANS TRUST PROJECT
Federal Way, Washington
ATC Associates
Client Project #76.17833.0901

QA/QC Data - EPA 8021B Analyses

Sample Description: B2 (8.5-9)							
	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	(%)
Benzene	1.00	1.13	113	1.00	1.17	117	3.48
Toluene	1.00	0.97	97	1.00	1.06	106	8.87
1,1-Dichloroethene	1.00	1.04	104	1.00	1.13	113	8.29
Trichloroethene (TCE)	1.00	0.93	93	1.00	1.08	108	14.9
Surrogate Spike			118			127	

	Laboratory Control Sample		
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
Benzene	1.00	1.19	119
Toluene	1.00	1.13	113
1,1-Dichloroethene	1.00	1.14	114
Trichloroethene (TCE)	1.00	0.98	98
Surrogate Spike			127

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 80%-120%
ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Sherry Chilcott

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

RUTH EVANS TRUST PROJECT
Federal Way, Washington
ATC Associates
Client Project #76.17833.0901

Specific Halogenated and Aromatic Hydrocarbons (EPA 8021B) in Soil

Sample Description		B10 (3.5-4)	B10 (3.5-4) Dup	B2 (8.5-9)
Date Sampled		10/2/00	10/2/00	10/2/00
Date Analyzed		10/5/00	10/5/00	10/5/00
	MDL (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Vinyl chloride	0.25	nd	nd	nd
Benzene	0.05	nd	nd	nd
Toluene	0.05	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd
Methylene chloride	0.05	nd	nd	nd
trans-1,2-Dichloroethene	0.05	nd	nd	nd
1,1-Dichloroethane	0.05	nd	nd	nd
cis-1,2-Dichloroethene	0.05	nd	nd	nd
Chloroform	0.05	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.05	nd	nd	nd
Carbon tetrachloride	0.05	nd	nd	nd
1,2-Dichloroethane	0.05	nd	nd	nd
Trichloroethene (TCE)	0.05	nd	nd	nd
1,1,2-Trichloroethane	0.05	nd	nd	nd
Tetrachloroethene (PCE)	0.05	nd	nd	nd
1,1;1,2-Tetrachloroethane	0.05	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.05	nd	nd	nd
Surrogate Recovery (%)		123	87	119

"nd" Indicates not detected at listed detection limit.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65%- 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

RUTH EVANS TRUST PROJECT
Federal Way, Washington
ATC Associates
Client Project ##76.17833.0901

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	10/4/00	87	nd	nd
B-1 (11.5-12)	10/4/00	90	nd	nd
B-2 (15.5-16)	10/4/00	115	nd	nd
B-4 (7.5-8)	10/4/00	107	nd	nd
B-5 (10-10.5)	10/4/00	92	nd	nd
B-6 (4.5-5)	10/4/00	107	nd	nd
B-7 (7.5-8)	10/4/00	106	nd	nd
B-8 (4-5)	10/4/00	88	nd	nd
B-9 (3-4)	10/4/00	85	nd	nd
B-10 (3.5-4)	10/4/00	100	nd	nd
B-2 (8.5-9)	10/4/00	90	nd	nd
B-2 (8.5-9) Dup.	10/4/00	110	nd	nd
Method Detection Limits			20	40

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Marilyn Farmer

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

RUTH EVANS TRUST PROJECT
Federal Way, Washington
ATC Associates
Client Project ##76.17833.0901

Analyses of Gasoline (NWTPH-Gx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Gasoline (mg/kg)
Method Blank	10/4/00	114	nd
B-2 (15.5-16)	10/4/00	100	nd
B-3	10/4/00	112	nd
B-4	10/4/00	129	nd
B-5	10/4/00	74	nd
B-6	10/4/00	105	nd
B-7	10/4/00	95	nd
B-10	10/4/00	88	nd
B-2 (8.5-9)	10/4/00	83	nd
Method Detection Limits			10

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65% TO 135%

ANALYSES PERFORMED BY: Marilyn Farmer

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

RUTH EVANS TRUST PROJECT
Federal Way, Washington
ATC Associates
Client Project ##76.17833.0901

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	10/4/00	nd	nd	nd	nd	nd	114
B-3	10/4/00	nd	nd	nd	nd	nd	112
Method Detection Limits		0.05	0.05	0.05	0.05	10	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65% TO 135%

ANALYSES PERFORMED BY: Marilyn Farmer

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

Feseral Way, Washington
ATC Associates, Inc.
Client Project #RUTH EVANS TRUST

Heavy Metals in Soil by EPA-7000 Series

Sample Number	Date Analyzed	Lead (Pb) EPA 7420 (mg/kg)
Method Blank	10/6/00	nd
B8 (4-5)	10/6/00	nd
B9 (3-4)	10/6/00	nd
B10 (3.5-4)	10/6/00	7.9
Method Detection Limits		5

"nd" Indicates not detected at listed detection limits.

ANALYSES PERFORMED BY: Tim McCall

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

Feseral Way, Washington
ATC Associates, Inc.
Client Project #RUTH EVANS TRUST

QA/QC Data - Total Metals EPA-7000 Series Analyses

Sample Number: 001002-1 (B5 10-10.5)

	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	(%)
Lead	250	195	78	250	217	87	10.68

	Laboratory Control Sample		
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
Lead	250	214	86

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%
ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Tim McCall
DATA REVIEWED BY: Sherry Chilcutt

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

Feseral Way, Washington
ATC Associates, Inc.
Client Project #RUTH EVANS TRUST

Heavy Metals in Soil by EPA-7000 Series

Sample Number	Date Analyzed	Lead (Pb) EPA 7420 (mg/kg)	Cadmium (Cd) EPA 7130 (mg/kg)	Chromium (Cr) EPA 7190 (mg/kg)	Arsenic (As) EPA 7061 (mg/kg)	Mercury (Hg) EPA 7471 (mg/kg)
Method Blank	10/6/00	nd	nd	nd	nd	nd
B2 (8.5-9)	10/6/00	nd	nd	nd	nd	nd
B2 (8.5-9) Dup.	10/6/00	nd	nd	nd	nd	nd
B2 (15.5-16)	10/6/00	nd	nd	nd	nd	nd
B4 (7.5-8)	10/6/00	nd	nd	21	nd	nd
B5 (10-10.5)	10/6/00	140	nd	nd	nd	nd
B6 (4.5-5)	10/6/00	nd	nd	nd	nd	nd
B7 (7.5-8)	10/6/00	nd	nd	nd	nd	nd
B10 (3.5-4)	10/6/00	nd	nd	21	nd	nd
Method Detection Limits		5	1	20	5	0.5

"nd" Indicates not detected at listed detection limits.

ANALYSES PERFORMED BY: Tim McCall

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

Feseral Way, Washington
ATC Associates, Inc.
Client Project #RUTH EVANS TRUST

QA/QC Data - Total Metals EPA-7000 Series Analyses

Sample Number: B5 (10-10.5)

	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	(%)
Lead	250	195	78	250	217	87	10.68
Cadmium	25	26	104	25	25	100	3.92
Chromium	250	243	97	250	243	97	0.00
Arsenic	63	69	110	63	70	111	1.44

	Laboratory Control Sample		
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
Lead	250	214	86
Cadmium	25	23	92
Chromium	250	231	92
Arsenic	63	73	116

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%
ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Tim McCall

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES

CHAIN-OF-CUSTODY RECORD

CLIENT: ATC Associates

ADDRESS: 6347 Seaview Ave. NW, Seattle 98107

PHONE: 206-781-1449 FAX: 206-781-1543

CLIENT PROJECT #: 26.17833.0901 PROJECT MANAGER: Mark Watts

DATE: 10/2/00 PAGE 1 OF

PROJECT NAME: Ruth Evans Trust

LOCATION: Federal Way, WA

COLLECTOR: Mark Watts DATE OF COLLECTION 10/2

Sample Number	Depth	Time	Sample Type	Container Type	VOA 8010/8021B	VOA 8021B BTEX only	VOA 8260	SEMI VOL 8270	TPH - HCID	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (d & o)	PAH 8100	PCBs 8082	Pesticides 8081	TOTAL LEAD	pH	BTEX (8021B)	NOTES	Total Number of Containers	Laboratory Note Number
1. B-1 (11.5-12)	11.5	1107	Soil	4 oz							✓								see	1	
2. B-2 (11.5-12)	11.5	1152			✓	✓		✓		✓	✓						✓		(hold for TCLP)	1	
3. B-3 (11.5-12)	11.5	1020				✓			✓											1	
4. B-4 (11.5-12)	11.5	1105			✓	✓		✓	✓		✓						✓			1	
5. B-5 (10-10.5)	10	1130			✓	✓		✓	✓		✓						✓			1	
6. B-6 (9.5-10)	9.5	1155			✓	✓		✓	✓		✓						✓			2	
7. B-7 (2.5-3)	2.5	1315			✓	✓		✓	✓		✓						✓			1	
8. B-8 (4-5)	4	1336									✓				✓					2	
9. B-9 (3-4)	3	1350									✓				✓					2	
10. B-10 (3.5-4)	3.5	1400	↓	↓	✓	✓		✓	✓		✓				✓		✓		see	1	
11. B-2 (9.5-10)	9.5	0915	↓	↓	✓	✓		✓	✓		✓						✓		(hold for TCLP)	1	
12.																					
13.																					
14.																					
15.																					
16.																					
17.																					
18.																					

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
Mark Watts	10/2/00 1445		
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

Turn Around Time:

APPENDIX C

BORING LOGS AND FIELD PROCEDURES

ATC Associates Inc.

BORING LOG

BORING NO: B-1

PROJECT NO: 76.17883.0901

PROJECT NAME: Ruth Evans Trust CLIENT: USOC

PROJECT LOCATION: Federal Way, Washington DRILLING CONTRACTOR: TEG Northwest

DRILLING MTHD: Stratoprobe SAMPLE MTHD: 2" Macro Core

DATE STARTED: Oct. 2, 2000 DATE FINISHED: Oct. 2, 2000 DRILLER: Eric Noseau INSPECTOR: Mark Watte

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	SURFACE ELEVATION: NA LITHOLOGIC DESCRIPTION	REMARKS
0.0	1		100	0		Asphalt SM: Silty sand Dry brown loose silty sand with gravel, cobbles - non-native fill	
							B-1 (3.5-4.0)
5.0	2		10	0			Becomes moist at 5 Ft bgs
							B-1 (7.5-8.0)
	3		100	0			
10.0							B-1 (10.0-10.5)
	4		100	0			B-1 (11.5-12.0) Refusal at 12.0 Ft bgs
15.0							
20.0							
25.0							
30.0							

BOTTOM OF TEST BORING: 12.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: B-2

PROJECT NO: 76.17883.0901

PROJECT NAME: Ruth Evans Trust CLIENT: UBOC

PROJECT LOCATION: Federal Way, Washington DRILLING CONTRACTOR: TEG Northwest

DRILLING MTHD: Strgtoprobe SAMPLE MTHD: 2" Macro Core

DATE STARTED: Oct. 2, 2000 DATE FINISHED: Oct. 2, 2000 DRILLER: Eric Nassau INSPECTOR: Mark Watts

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0						Asphalt	
	1		100	0		SM: Silty sand Dry brown loose silty clayey, sand with gravel - non-native fill	
5.0							B-2 (4.5-5.0)
	2		10	0			Becomes moist at 6 Ft. bgs
							B-2 (8.5-9.0)
10.0	3		0	0			
15.0	4		100	0			Soil becomes wet at 15 ft bgs B-2 (15.5-16.0) Refusal at 16.0 ft bgs
20.0							
25.0							
30.0							

BOTTOM OF TEST BORING: 16.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: B-3

PROJECT NO: 76.17883.0901

PROJECT NAME: Ruth Evans Trust CLIENT: UBOC

PROJECT LOCATION: Federal Way, Washington DRILLING CONTRACTOR: TEG Northwest

DRILLING MTHD: Strataprobe SAMPLE MTHD: 2" Macro Core

DATE STARTED: Oct. 2, 2000 DATE FINISHED: Oct. 2, 2000 DRILLER: Eric Noseau INSPECTOR: Mark Watts

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0						Asphalt	
	1		50	0		SM: Silty sand Dry brown loose silty clayey, sand with gravel - non-native fill	
5.0	2		50	0			B-3 (4.5-5.0)
							B-3 (8.5-9.0)
10.0	3		70	2.0			
	4		50	0			B-3 (11.5-12.0) Dark oil-layer - 1 inch thick Concrete debris between 13 to 14 ft. bgs B-3 (13.0-14.0) Clay lens between 14 to 15 ft. bgs
15.0							Refusal at 15.0 ft bgs
20.0							
25.0							
30.0							

BOTTOM OF TEST BORING: 15.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: B-4

PROJECT NO: 76.17883.0901

PROJECT NAME: Ruth Evans Trust CLIENT: UBOC

PROJECT LOCATION: Federal Way, Washington DRILLING CONTRACTOR: TEG Northwest

DRILLING MTHD: Stratoprobe SAMPLE MTHD: 2" Macro Core

DATE STARTED: Oct. 2, 2000 DATE FINISHED: Oct. 2, 2000 DRILLER: Eric Noesau INSPECTOR: Mark Watts

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	SURFACE ELEVATION: NA LITHOLOGIC DESCRIPTION	REMARKS
0.0						Asphalt - gravel and cobbles	
	1		50	0		SM: Silty sand Dry brown loose silty clayey, sand with gravel - non-native fill	B-4 (3.5-4.0)
5.0	2		50	0			Clay lens at 4.5 ft bgs Becomes moist 7 ft bgs B-4 (7.5-8.0)
	3		60	0			B-4 (9.5-10.0) Refusal at 10.0 ft bgs
10.0							
15.0							
20.0							
25.0							
30.0							

BOTTOM OF TEST BORING: 10.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: B-5

PROJECT NO: 76.17883.0901

PROJECT NAME: Ruth Evans Trust CLIENT: UBOC

PROJECT LOCATION: Federal Way, Washington DRILLING CONTRACTOR: TEG Northwest

DRILLING MTHD: Stratoprobe SAMPLE MTHD: 2" Macro Core

DATE STARTED: Oct. 2, 2000 DATE FINISHED: Oct. 2, 2000 DRILLER: Eric Nassau INSPECTOR: Mark Watts

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	SURFACE ELEVATION: NA LITHOLOGIC DESCRIPTION	REMARKS
0.0						Asphalt	
	1		50	0		SM: Silty sand Moist brown-olive loose silty sand with gravel and cobbles non-native fill	
5.0	2		60	0			
	3		50	0			B-5 (7.5-8.0) B-5 (10.0-10.5) Refusal at 10.5 ft bgs
10.0							
15.0							
20.0							
25.0							
30.0							

BOTTOM OF TEST BORING: 10.50'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: B-6
PROJECT NO: 76.17883.0901

PROJECT NAME: Ruth Evans Trust CLIENT: UBOC
PROJECT LOCATION: Federal Way, Washington DRILLING CONTRACTOR: TEG Northwest
DRILLING MTHD: Strataprobe SAMPLE MTHD: 2" Macro Core
DATE STARTED: Oct. 2, 2000 DATE FINISHED: Oct. 2, 2000 DRILLER: Eric Nadeau INSPECTOR: Mark Watts

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0						Concrete	
	1		100	0		SM: Silty sand Moist brown-olive loose silty course sand with gravel and cobbles - non-native fill	
5.0							B-6 (4.5-5.0)
	2		80	0			B-6 (7.5-8.0)
							Refusal at 8.0 ft bgs
10.0							
15.0							
20.0							
25.0							
30.0							

BOTTOM OF TEST BORING: 8.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: B-7

PROJECT NO: 76.17883.0901

PROJECT NAME: Ruth Evans Trust CLIENT: UBOC

PROJECT LOCATION: Federal Way, Washington DRILLING CONTRACTOR: TEG Northwest

DRILLING MTHD: Strataprobe SAMPLE MTHD: 2" Macro Core

DATE STARTED: Oct. 2, 2000 DATE FINISHED: Oct. 2, 2000 DRILLER: Eric Nassau INSPECTOR: Mark Watts

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	SURFACE ELEVATION: NA LITHOLOGIC DESCRIPTION	REMARKS
0.0						Concrete	
	1		40	0		SM: Silty sand Dry brown loose silty course sand with gravel and cobbles - non-native fill Becomes moist at 4 ft bgs	
5.0							B-7 (4.5-5.0)
	2		40	0			
							B-7 (7.5-8.0)
	3		40	0			
10.0							B-7 (9.5-10.0)
15.0							
20.0							
25.0							
30.0							

BOTTOM OF TEST BORING: 10.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: B-8

PROJECT NO: 76.17883.0901

PROJECT NAME: Ruth Evans Trust CLIENT: UBOC

PROJECT LOCATION: Federal Way, Washington DRILLING CONTRACTOR: TEG Northwest

DRILLING MTHD: Stratoprobe SAMPLE MTHD: 2" Macro Core

DATE STARTED: Oct. 2, 2000 DATE FINISHED: Oct. 2, 2000 DRILLER: Eric Naseau INSPECTOR: Mark Watts

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0						Concrete	
	1		100	0		SM: Silty sand Dry brown loose silty sand with gravel and cobbles - non-native fill	B-8 (4.5-5.0)
5.0							
10.0							
15.0							
20.0							
25.0							
30.0							

BOTTOM OF TEST BORING: 5.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: B-9

PROJECT NO: 76.17883.0901

PROJECT NAME: Ruth Evans Trust CLIENT: UBOC

PROJECT LOCATION: Federal Way, Washington DRILLING CONTRACTOR: TEG Northwest

DRILLING MTHD: Strataprobe SAMPLE MTHD: 2" Macro Core

DATE STARTED: Oct. 2, 2000 DATE FINISHED: Oct. 2, 2000 DRILLER: Eric Noseau INSPECTOR: Mark Watts

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0						Concrete	
	1		100	0		SM: Silty sand Dry brown loose silty sand with gravel and cobbles - non-native Fill	B-9 (3.5-4.0) Refusal at 4 ft bgs
5.0							
10.0							
15.0							
20.0							
25.0							
30.0							

BOTTOM OF TEST BORING: 4.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: B-10

PROJECT NO: 75.17883.0901

PROJECT NAME: Ruth Evans Trust CLIENT: UBOC

PROJECT LOCATION: Federal Way, Washington DRILLING CONTRACTOR: TEG Northwest

DRILLING MTHD: Stratoprobe SAMPLE MTHD: 2" Macro Core

DATE STARTED: Oct. 2, 2000 DATE FINISHED: Oct. 2, 2000 DRILLER: Eric Nassau INSPECTOR: Mark Watts

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0						Concrete	
	1		100	0		SM: Silty sand Dry brown loose silty sand with gravel and cobbles - non-native fill	B-10 (3.5-4.0) Refusal at 4 ft bgs
5.0							
10.0							
15.0							
20.0							
25.0							
30.0							

BOTTOM OF TEST BORING: 4.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

APPENDIX C

FIELD PROCEDURES AND BORING LOGS

SOIL SAMPLING PROCEDURES

1. Soil samples were collected using a direct-push Strataprobe rig equipped with a split-spoon sampler and acetate sample tubes.

2. Soil samples were collected on a generally continuous basis, although in selected locations the retrieved sample was less than 100%.

3. Each sampled interval was approximately 4-feet long (e.g., from 0 to 4 feet bgs for the "4-foot depth interval."

4. Soil from each sampled interval was removed from the sampler by nitrile-glove hand and placed in a 4-ounce soil sample jar. A new glove was used for each sample interval. The jar was overfilled to minimize the likelihood of loss of volatile compounds. The jar was then capped with a screw-type lid. The sample jars were supplied by the laboratory. The remainder of the soil was placed in a ziploc-type bag that was then "sealed", the sample disagreggated, and then set aside for approximately 15 minutes. A

5. PID was calibrated to 100 ppm isobutane was then used to "sniff" the bagged sample.

6. Lithologic descriptions were recorded on boring logs along with observations regarding staining or odors and the PID readings.

7. The sampler was washed between sampling locations, using a bristle brush, with a detergent solution; this was followed by two tapwater rinses and a deionized-water rinse. The sampler was dried by air or with a paper towel prior to being used for sampling.

8. The sample jars were placed in an ice chest cooled using ice and/or blue ice to a temperature of approximately 40 degrees Fahrenheit.

9. The samples collected for chemical analyses were delivered to the laboratory within 24 hours of collection. Sample handling, transport, and delivery to the laboratory were documented using chain-of-custody procedures, including the use of chain-of-custody.

10. Following completion of the borings, they were backfilled with hydrated bentonite.

APPENDIX D

LIKELIHOOD STATEMENTS

APPENDIX D

LIKELIHOOD STATEMENTS

Many statements have been made in this report regarding the likelihood of the occurrence of certain adverse events. The term "likelihood," as used here, pertains to chances of a match between the prediction for the event and its actual occurrence. Likelihood statements are based on the professional judgments of ATC Associates Inc. A prediction made for the occurrence of an event will either match the actual occurrence or not. Uncertainty about the natural processes, lack of adequate scientific understanding of the physical and chemical interactions at the site, and insufficient data and information about the specific site conditions usually preclude a perfect or 100 percent likelihood of match between predictions and actual occurrences. Therefore, where a perfect match is not possible, the likelihood statement assigns a measure for a "degree of belief" or a "betting score" for the match between the prediction for the event and the actual event outcome.

The likelihood statements can be made either qualitatively, expressed verbally, or quantitatively, expressed in percent ranges. The qualitative terms expressed verbally, however, can be approximately related to percent ranges. The following approximate percent ranges have been used by ATC Associates Inc. for the qualitative terms used in likelihood statements.

QUALITATIVE TERMS	APPROXIMATE PERCENT RANGE
Very Low	Less than 10%
Low	10% to 20%
Low to Moderate	20% to 40%
Moderate	40% to 60%
Moderate to High	60% to 80%
High	80% to 90%
Very High	More than 90%

The following is a typical likelihood statement and its interpretation.

Statement: Based on site conditions, data collected, and current regulatory guidelines delineating a hazardous waste, it is the judgment of ATC Associates Inc. that there is a low likelihood that hazardous waste from the landfill has migrated to the site.

Interpretation of Statement: The statement reflects an extrapolation of a discrete data set to the entire site. This statement is made within the context of regulatory guidelines delineating hazardous wastes in effect at the time the statement is made. It is important to note that these guidelines periodically change; consequently, the judgment made corresponds to the guidelines cited in the report.

An extrapolation made from a discrete data set precludes making a statement with certainty that the event has occurred (i.e., one cannot really say with 100 percent certainty that hazardous waste from the landfill has not migrated to the site). Therefore, a professional judgment is made for the event that is expressed in terms of the likelihood (less than 100 percent) that the event either has or has not occurred.

The statement given above renders a professional judgment that there is a low likelihood that the event has occurred. The above statement could also have been expressed as "there is a high likelihood that hazardous waste from the landfill has not migrated to the site."

ATC
ASSOCIATES INC.

UNDERGROUND STORAGE TANK SITE ASSESSMENT AT THE RUTH EVANS TRUST SITE 29805 PACIFIC HIGHWAY SOUTH FEDERAL WAY, WASHINGTON 98003

PROJECT NO. 76.17883.0902
FEBRUARY 16, 2001

RECEIVED
MAR 0 8 2001
DEPT. OF ECOLOGY

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SITE ASSESSMENT
AT THE
RUTH EVANS TRUST SITE
29805 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WASHINGTON 98003

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FEBRUARY 16, 2001

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RECEIVED
MAR 1 3 2001
DEPT. OF ECOLOGY

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   - Federal Way Fire Department Application for Temporary Permit
   - Emerald Services Cleaning and Disposal Certification
   - TPS Technologies Soil Disposal Receipts (12 pages)

B. LABORATORY REPORTS
C. SITE PHOTOGRAPHS (1 through 6)
D. WASHINGTON DEPARTMENT OF ECOLOGY UST SITE ASSESSMENT CHECKLIST

UNDERGROUND STORAGE TANK
SITE ASSESSMENT
AT THE
RUTH EVANS TRUST SITE
29805 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WASHINGTON 98003

1.0 INTRODUCTION

A former gasoline service station and restaurant were present at the site based on the results of a Phase I Environmental Site Assessment (ESA) conducted by Kleinfelder, Inc. (dated June 13, 2000). The former gasoline service station was situated in the northeast portion of the site. Previously, two underground storage tanks (USTs) were removed by others in 1992 and 1993. UST Closure Reports for these USTs were included in the Kleinfelder, Inc. (2000) report. The ESA indicated that other USTs could be present at the site.

A geophysical survey was conducted at the site under subcontract to ATC Associates Inc. (ATC) at the site and an anomaly was found in the eastern part of the site in approximately the location shown in Figure 2. The area in the vicinity of this anomaly was excavated and an UST was found. This UST is designated in this report as T1. The results of this geophysical survey and excavation were summarized in a report prepared by ATC (2001).

At the request of Union Bank of California (UBOC), ATC has performed an Underground Storage Tank Site Assessment and oversaw the UST decommissioning at the Ruth Evans Trust site located at 29805 Pacific Highway South in Federal Way, Washington. This report summarizes the results of the assessment and decommissioning. State of Washington Department of Ecology (Ecology) and International Fire Code (IFC) registered site assessors and decommissioning supervisors, Ms. Donna Hewitt (IFCI# 1044716-26) and Mark Watts (IFCI# 92954), monitored the UST decommissioning. The contractor performing the UST decomissioning and related excavation activities was Emerald Services (Emerald). Emerald provided these services under subcontract to ATC.

2.0 SITE CONDITIONS

2.1 UST Locations

During the subsurface investigation conducted by ATC in October 2000, an UST (T-1) was discovered in the northeastern part of the site. The UST location is shown in Figure 2. As discussed in Section 3.1, during removal of UST T-1, two additional USTs (designated as USTs T2 and T3) were encountered and removed. The capacity of the each UST was estimated to be approximately 750 gallons (the contractor cited different capacities in the disposal paperwork; the capacities cited here are based on measured dimensions.

The USTs were located on the northeastern portion of the site approximately 50 feet south of the northern property boundary and 25 feet west of the eastern property boundary (the property line is assumed to be consistent with the fencing around the site perimeter). This location is approximately 150 feet north of the northeast corner of the existing building. During UST removal activites, a concrete foundation including walls and a concrete floor slab was uncovered. The USTs were located in the vicinity of the former gas station.

2.2 Buried Building Foundation Walls and Concrete Floor Slab

During removal of the three UST's, part of what appeared to be an old building foundation was discovered. It appears that the aboveground portion of the building was demolished and the demolition materials were placed in the basement portion of the building which was then filled in with concrete debris, trash and imported fill. Part of this basement portion was exposed as the concrete walls shown on Figure 3 and a concrete floor slab. Based on the number of tires and the amount of car parts found during soil removal activites it appears that this building was part of the former gasoline service station and possibly had an automobile repair facility.

2.3 Utilities and Stormwater Conduits

Utilities (water, telephone and electrical) are present in the immediate vicinity of the UST's along Pacific Highway South that borders the property and located approximately 25 feet to the east of the UST area.

Several buried pipes (metal conduits approximately 2 feet in diameter) were encountered at depths of approximately 14 to 17 feet bgs. These pipes were encountered approximately 60 feet west of the eastern property boundary and appeared to be stormwater conduits. The pipes had a north/south direction orientation where they were encoountered (Figure 3). Their exact configuration or why they were installed is unknown. During site exploration a portion of one of the drainage pipes was uncovered, unfortunately broken, but subsequently replaced by Emerald.

2.4 Geology

According to the *Geology of the Poverty Bay Quadrangle Washington Map USGS*, dated 1961, the soil underlying the site is designated "ground moraine deposits." This soil type consists mainly compacted unoxidized till. Soil conditions encountered during ATC's Phase II Site Investigation (ATC, 2001) consisted of brown, dry to moist silty sand with gravel and cobbles in the upper 13 feet. Below a depth of 13 feet below the ground surface (bgs) to the bottom of the borings at approximately 16 feet bgs was gray, silty, gravelly, medium to fine sands. In one of the borings (B-3), concrete was encountered at a depth of approximately 13 feet bgs. In ATC's judgment, all of the soils encountered were non-native fill material to a depth of 16 feet bgs based on the wood debris, concrete, and tires, and other materials that were found during the excavation at the site.

Soils surrounding the UST's consisted of a mixture of old fill, and construction debris most likely from the demolition of the former service station. Concrete, brick, tires, automobile trash, metal and an old septic tank and lines were visible and removed. Native soil (consisting of silty, gravelly sands) was encountered at approximately 16 feet bgs during UST and PCS removal activities.

According to the Kleinfelder ESA, the shallowest water-producting aquifer in the site vicinity belongs to Vashon recessional outwash unit, which consists of sand and gravel. Groundwater was encountered at approximately 45 feet bgs in a well located approximately 1.2 miles south of the site. Groundwater was reported to have a gradient (flow direction) toward the northwest. During excavation activities associated with the USTs decommissioning, a seasonal perched water zone was encountered. Depending on where in the excavation it was encountered, the depth appeared to be variable: between 14 and 16 feet bgs. This water zone was considered by ATC to be a seasonal perched water zone as discussed further in Section 3.5.

3.0 UST DECOMMISSIONING

3.1 USTs' Removal

On November 3, 2000, UST-T1 and UST-T2 were removed. The tops of USTs T1 and T2 were approximately seven feet below ground surface (bgs). Emerald Services, Inc evacuated residual product and inerted the UST's prior to removal. A representative from the Federal Way Fire Marshal's office issued a permit to removed the USTs. The UST's were then removed from the excavation. Upon inspection, several areas of corrosion were noted in UST

T2; however, no evidence of holes or leakage was observed. During removal of these USTs, part of a buried concrete wall on top of which was what appeared to be an old building foundation, was encountered north of the USTs. The buried concrete wall was oriented in an east-west direction and it extended to a depth of approximately 13 feet bgs.

On November 6, 2000, the third UST T3 was removed from the site. The top of the UST was approximately 10 feet bgs. Upon inspection, several holes and areas of corrosion were noted on T3. During removal operations obvious petroleum hydrocarbon-impacted soil (PCS) was noted under and on the east side of the UST T3. The PCS was excavated, segregated from non-PCS, and stockpiled. In additon, seasonal perched water was encountered at a depth of approximately 14 feet bgs and a concrete floor slab was encountered at the base of the buried concrete wall. The depth of this concrete floor slab, located on the north side of the buried concrete wall, was approximately 14 feet bgs. Trash, including car parts and tires,tire rims, concrete, brick, and burned wood, were also discovered in the excavated soil during this portion of the PCS removal operations.

All of the UST's were removed to Emerald Services facility to be cleaned. Upon final cleaning, the UST's were then cut up and recycled at Bloch Steel Industries of Seattle, Washington. The documentation for the transport of the USTs to Block Steel Industries is in Appendix A.

On December 14, 15, and 20, 2000, excavation of PCS continued and was completed to a depth of between 15 and 16 feet bgs. During these activities the concrete floor slab was found to have an area with a sludgelike material that is referred to here as DRO-impacted concrete (DRO is defined below in Section 3.2). The limits of the DRO-impacted concrete were evaluated with backhoe pits and the observed DRO-impacted concrete was removed from the excavation. Concrete floor slab without the DRO sludge was left in place. The DRO sludge was scraped off the concrete floor slab and disposed of with the PCS. The scraped concrete and excavated concrete debris that did not have the DRO sludge was removed from the site and disposed of at Rabanco-Roosevelt, Washington landfill. All PCS was removed from the excavation using a backhoe and stockpiled on-site prior to transport to TPS Technologies in Tacoma, WA under manifest.

3.2 Soil Sample Collection and Analysis

3.2.1 Soil Sample Collection Procedures

Field sampling was performed in general accordance with the Washington State Department of Ecology (Ecology) protocol as described in "Guidance for Site Checks and Site Assessments for Underground Storage Tanks" (Ecology Guidance Document). Soil samples were collected from the backhoe and placed directly into laboratory provided 4-ounce glass jars. Soil was collected by scooping the soil out of the backhoe with the sample jar. An ample amount of soil was placed in the jar and compacted to the degree that there was no observed headspace. Stockpile samples were collected in the same manner (without assistance of the backhoe). Some of the samples were collected directly from side walls in areas that were sufficiently excavated and considered safe for collection. The sample jar was secured with a screw lid and labeled with the sample ID number, the date, and the project number. Soil samples were placed on ice in a cooler and transported under chain-of-custody to TEG Northwest Laboratories, Inc. in Bellevue, Washington for analysis.

Soil samples collected were submitted to TEG. Analysis was conducted in general accordance with the methods described above in Section 3.2.

Soil samples were given identification numbers that differed in format depending on where the sample was collected and the date. There are some format inconsistencies in how the sample numbers were recorded between the identifiers that ATC used and those that were reported by the laboratory. For example the sample designated as 110600-S11 also may also be cited as S11 and S-11. These variations are all the same sample.

3.2.2 Laboratory Analyses

The Ecology Guidance Document provides a protocol where soil samples can be analyzed using a "screening" methodology. This screening method utilizes an analysis referred to as the NWTPH-HCID. It is used to assess whether a petroleum compound is present. If it is, then the sample can be analyzed for diesel- and oil-range organics (DRO) petroleum hydrocarbons (including kerosene/jet fuel, diesel/fuel oil, and heavy oil) using analytical method NWTPH-Dx, and gasoline-range organics (GRO including benzene, toluene, ethylbenzene, and xylenes (BTEX)) petroleum hydrocarbons (including mineral spirits/stoddard solvent and gasoline) using analytical method NWTPH-Gx. All of these methods are based on U.S. EPA Method No. 8015. In addition to these analyses, the sample with the highest GRO concentration (B12) was analyzed for RCRA metals and PCB's in general accordance with U.S. EPA Method Nos. 7000 series and 8082, respectively. The laboratory analytical results are summarized in Tables 1 through 3 and the laboratory reports are included in Appendix B.

3.2.3 USTs T1 and T2

During the removal of USTs T1 and T2 no evidence of PCS was observed that was considered related to these USTs. Five confirmation soil samples were collected from the UST T1 and T2 excavation to document the absence of PCS. This included two soil samples collected from the bottom of the excavation (samples BS-1 and BS-2). The analytical results from these five samples are summarized in Table 1. They showed no detectable concentrations of petroleum hydrocarbons. It is the judgment of ATC that there had been no release from these USTs.

Although no evidence of PCE was observed that was considered related to USTs T1 and T2, it was visually evident that soil in the western part of the UST T1 and T2 excavation (at the east side of UST T3) was impacted with petroleum hydrocarbons. The impacted soil was excavated, sampled (sample #Stock-6) and analysed. Based on laboratory data this stockpiled soil was considered to be impacted with DRO. An additional sample (#110600-CS3) of this stockpiled material was collected at a later date (November 6, 2000) and analyzed for diesel fuel. The sample contained DRO in the amount of 240 ppm. The results of these analyses are summarized in Table 2 and the additional removal and excavation of PCS is discussed below in Section 3.2.2. In ATC's judgment, this petroleum hydrocarbon impact is the result of a release from UST T3.

TABLE 1. SOIL SAMPLE AND ANALYTICAL DATA FROM UST T1 AND UST T2 EXCAVATION

Sample No.	Location	Depth (feet)	Pet. HC Conc. (mg/kg)
BS-1	Bottom sample below UST T2	10.5	ND
BS-2	Bottom sample below UST T1	10.5	ND
WSW-3	West sidewall, west of USTs' T1 and T2	8	ND
SSW-4	South sidewall, south of UST T1	8.5	ND
ESW-5	East side wall, east of USTs' T1 and T2	9	ND
B-3	Boring drilled previously in northeast part of USTs' excavation; analyzed sample collected above concrete with DRO sludge	11.5	ND
Method A Model Toxics Control Act (MTCA) Cleanup Level for Diesel Fuel			200

NOTES:
Pet. HC Conc. = Petroleum hydrocarbon concentration based on laboratory analysis by NWTPH-HCID with the exception of sample from boring B-3 which was analyzed by NWTPH-Gx.
ND = not detected; the detection limits were well below the current and proposed MTCA Method A cleanup levels
mg/kg = milligrams per kilogram which is equal to parts per million (ppm).
Depth is in feet below the ground surface (bgs).

3.2.4 UST T3

Four (4) soil samples were collected during the removal of UST T3 on November 6, 2000. Holes were noted in the UST and obvious PCS was noted underneath the UST and to the south and west of this UST. After laboratory analysis confirmed the presense of PCS (sample #110600-B12) additional overexcavation was conducted and test pits were excavated to evaluate the extent of the PCS and/or the sludgelike material on the concrete floor slab. This is discussed chronologically below.

On November 10, 2000 a sample (N-11) was collected along (what was at the time) the northern portion of the UST T3 excavation at approximately 11 feet bgs in visually stained soil. This sample was subsequently reported to have a heavy oil (DRO) concentration of 3,400 ppm (Table 2). On the same day test pit WTP-14 was excavated to the west of the UST excavation and a soil sample was collected to document the western extent of the PCS. No evidence of an impact by petroleum hydrocarbons was observed in test pit WTP-14 and the soil sample (WTP-14) was collected at 14 feet bgs and had no detectable petroleum hydrocarbons. This test pit served to document the western extent of the PCS.

On November 27, 2000 a sludgelike material was found on top of the concrete floor slab. This material had an observed thickness of up to 4 inches. A sample of the material (#112700-02) was analyzed and found to contain 480 ppm of heavy oil (DRO). Based on this analysis and the results of the analysis of sample N-11 (which was considered to be representative of the sludgelike material) this material is referred to here as DRO sludge.

On November 29, 2000 additional test pits and overexcavation were completed to evaluate the extent of the PCS, the sludge-impacted concrete floor slab and the extent of building foundation wall. One sample (#112900-TP1-13), collected at a depth of 13 ft bgs in test pit TP1 was reported to contain 800 ppm heavy oil. This was excavated near the western extent of the concrete floor slab and numerous bricks and trash were unearthed in this area as well as part of a chimney and what appeared to be a burn barrel.

Excavation activities continued on December 14 and 15, 2000. Additional soil samples were collected in the vicinity of #112900-TP1-13. Samples #121400-03 (at a depth of 16 feet bgs) and #121500-08 (at a depth of 15 feet bgs) were collected and analyzed using NWTPH-HCID. Sample #121500-08 had no detectable petroleum hydrocarbons. However, sample #121400-03 contained detectable petroleum hydrocarbons. Further analysis using NWTPH-Dx, showed that sample 121400-03 contained less than the Model Toxics Control Act (MTCA) Cleanup levels of 200 ppm for DRO (Table 3). Additional discussion of confirmation soil sampling and analysis is discussed below in Section 3.3.

On December 14 and 15, 2000 part of the the excavated PCS (including the DRO sludge which had been scraped off the concrete) and excavated concrete was stockpiled on site and part of it was transported to either TPS Technologies (DRO sludge and DRO-impacted soil) or to the Rabanco landfill (scraped concrete). On December 20th all remaining impacted stockpiled soil was removed from the site and transported to TPS Technologies. All PCS transport to TPS Technologies was conducted under manifest.

TABLE 2. SOIL SAMPLE AND ANALYTICAL DATA FROM UST T3 AND SITE EXPLORATION

Sample No.	Location	Depth (feet)	GRO	DRO (mg/kg)
110600-CS1	Composite sample of stockpiled soil	N/A	NA	ND
110600-CS2	Composite sample of stockpiled soil	N/A	NA	ND
110600-CS3	Composite sample of stockpiled soil	N/A	NA	**240 heavy oil**
110600-B12	Bottom sample below UST T3. This sample was also analyzed for RCRA metals and PCB's, none of which were detected.	12	**Gasoline – 100 mg/kg** B – ND T – ND E - 210 ug/kg Xylenes – 580 ug/kg	**3,500 heavy oil**
110600-S11	South sidewall sample at bottom of excavation, south of UST T3	11	ND BTEX - ND	ND
110600-S12	South sidewall sample at bottom of excavation, south of UST T3	12	GRO- ND BTEX ND	ND
110600-W11	West sidewall sample at bottom of excavation, southwest of UST T3	11	Gasoline – 8.2 mg/kg B – ND T – ND E - 120 ug/kg Xylenes – 120 ug/kg	**320 heavy oil**
WTP-14	Sample from west sidewall of test pit WTP-14 west of UST T3	14	NA	ND
N-11	North sidewall sample adjacent to concrete foundation	11	NA	**3,400 heavy oil**
EASTSTOCK	Sample from east stockpile	N/A	NA	ND
WESTSTOCK	Sample from west stockpile	N/A	NA	ND
Stock-6	Sample from PCS excavated from below east end of UST T3. NWTPH-HCID analysis followed by analysis of sample 110600-CS3 for DRO	N/A	NA	Heavy oil detected see sample 110600-CS3
112700-01	Sample of soil from below concrete with DRO sludge where sample 112700-02 was collected, north of USTs' area	13	NA	160 diesel/fuel oil
112700-02	DRO sludge on top of concrete floor slab north of USTs' area	12.5	NA	**480 heavy oil**
112900-TP1-13	Sample from test pit TP1, west of western edge of impacted concrete floor slab	13	NA	**800 heavy oil**
112900-TP2-4	Sample from test pit TP2, northwest of concrete floor slab	4	NA	ND
112900-TP2-13	Sample from test pit TP2, northwest of concrete floor slab	13	NA	ND

NOTES:
DRO = Diesel Range Organics (WDOE Method A cleanup level is 200 mg/kg).
GRO = Gasoline Range Organics (WDOE Method A cleanup level is 100 mg/kg).
BTEX = Benzene (B), toluene (T), ethylbenzene (E), xylenes (X)
PCBs = Polychlorinated biphenyls.
ND = not detected; the detection limits were well below the current and proposed MTCA Method A cleanup levels.
mg/kg = milligrams per kilogram which is equal to parts per million (ppm).
ug/kg = micrograms per kilogram which is equal to parts per billion (ppb).
WDOE Method A cleanup levels for BTEX are: 0.02, 6.3, 5.3, and 8.4 mg/kg, respectively
A blank space means the indicated analyses was not conducted for the specified soil sample.
NA = Not analyzed.
N/A = Not applicable
Depths are in feet below the ground surface (bgs).
For Stock-6, heavy oil was reported to be detected at or above the listed reporting limit (100mg/kg).
Concentrations that exceed the WDOE Method A cleanup level are in **bold** typeface.

3.3 Confirmation Soil Sampling and Analysis

During removal of the USTs PCS was observed in the area of former UST T3 and immediately beneath part of the southern part of the concrete floor slab (north of former UST T3). With the exception of two samples, the PCS was found to be heavy oil (DRO) with concentrations (where they were above the WDOE Method A Cleanup Level) ranging from 240 to 3,500 mg/kg. The exceptions (in soil samples #110600-B12 and #110600-W11) had reported gasoline (GRO) concentrations that were either right at the WDOE Method Cleanup Level of 100 mg/kg or less (8.2 mg/kg), respectively. Based on the absence of GRO in other soil samples and the overexcavation of the soil in the area of the soil samples with detected GRO, it is the judgment of ATC that the PCS was impacted with DRO and the two reported GRO concentrations are not considered to be significant.

During or following initial soil overexcavation, there were three areas of soil found to be DRO impacted based on laboratory analyses. These areas were subsequently overexcavated and the confirmation soil samples cited in Table 3 were collected and analyzed. As shown in this table, all confirmation soil samples did not have detectable DRO concentrations (e.g., the analytical results were ND) with the exception of sample 121400-03 which had petroleum hydrocarbon concentrations below the WDOE Method A Cleanup Level for DRO of 200 mg/kg.

TABLE 3. CONFIRMATION SOIL SAMPLE AND ANALYTICAL DATA

Sample No.	Sample Location	Depth (feet)	NWTPH-HCID
121400-01	Below concrete with DRO sludge, 8 feet west of foundation wall	16	ND
121400-02	Below concrete with DRO sludge, 1 foot west of foundation wall.	16	ND
121400-03	Below concrete with DRO sludge, at western extent of concrete floor slab.	16	Diesel – 90 mg/kg* Heavy oil -160 mg/kg
121500-04	Bottom of excavation, approx.18 feet west of eastern extent of excavation in former UST T3 area.	16	ND
121500-05	Near base of west wall of USTs' excavation.	15	ND
121500-06	South sidewall of UST excavation, approx. 15 feet east of western extent of excavation.	15	ND
121500-07	Bottom sample at western sidewall approx. 27 feet east of western extent of excavation.	15	ND
121500-08	Bottom sample, approx. 7 feet from eastern extent of excavation. Former USTs T1 and T2 location	14	ND

NOTES:
DRO = Diesel Range Organics (WDOE Method A cleanup level is 200 mg/kg)
GRO = Gasoline range Organics (WDOE Method A cleanup level is 100 mg/kg)
ND = not detected; the detection limits were well below the current and proposed MTCA Method A cleanup levels
mg/kg = milligrams per kilogram which is equal to parts per million (ppm).
* After initial analysis by NWTPH-HCID, sample #121400-03 was reanalyzed by method NWTPH-Dx with the reported compounds detected at the concentrations cited.

The three areas of PCS and the subsequent confirmation soil samples are as follows:

- The area around soil samples #110600-B12 and #N-11 which had reported concentrations of 3,000 to 3,400 DRO. These soil samples were collected at a depth of approximately 11 to 12 feet bgs. Following

overexcavation in these areas, the following confirmation soil samples were collected which documented the removal of this impacted soil: #121400-01; #121500-04; #121500-05; and #121500-08. These soil samples were collected at depths of approximately 14 to 16 feet bgs (approximately 3 to 5 feet below the depth of the DRO-impacted soil samples). As summarized in Table 3, none of these confirmation soil samples had detectable concentrations of petroleum hydrocarbons.

- The area around soil sample #110600-W11 had a reported DRO concentration of 320 mg/kg at a depth of approximately 11 feet bgs. Following overexcavation of this area the following confirmation soil samples were collected which documented the removal of this impacted soil: #121500-06 and #121500-07. These soil samples were collected at a depth of approximately 15 feet bgs (approximately 4 feet below the depth of the DRO-impacted soil sample). As summarized in Table 3, neither of these confirmation soil samples had detectable concentrations of petroleum hydrocarbons.
- The area beneath part of the concrete floor slab that had the DRO sludge where soil sample 112900-TP1-13 was collected at a detph of approximately 13 feet bgs from the test pit which had the same designation. Following overexcavation of this area the following confirmation soil samples were collected which documented the removal of this impacted soil: #121500-03 and #121500-05. These soil samples were collected at depths of approximately 15 to 16 feet bgs (approximately 2 to 3 feet below the depth of the DRO-impacted soil sample). As summarized in Table 3, neither of these confirmation soil samples had concentrations of petroleum hydrocarbons above the WDOE Method A Cleanup Level of 200 mg/kg for DRO.

Upon receipt of the confirmation soil sample analyses, a total of 259.52 tons of PCS and DRO sludge was removed from the site under current State of Washington Department of Transportation Standards (including the use of manifests to track transportation and disposal) and disposed of at TPS Technologies of Tacoma, Washington. Transportation. Transportation and disposal of the PCS and DRO sludge and disposal were conducted by Emerald under subcontract to ATC. Copies of the manifests are presented in Appendix A.

Based on the information obtained during the UST removal activities, it is the judgment of ATC that the PCS was likely was the result of leakage from small holes and corroded areas in former UST T3 as well as possibly poor houskeeping during the life of the former service station. It also is ATC's judgment that the lateral and vertical extent of PCS has been characterized and removed.

Based on field observations and the results of the confirmation soil sampling and analysis, it is the judgment of ATC that there is a low likelihood that PCS associated with former UST T3 remains at the site. The Washington Department of Ecology UST Site Assessment Checklist (Checklist) has been completed to document the UST and impacted soil and DRO sludge removal. A copy of the Checklist is presented in Appendix D.

3.4 Excavation Backfilling

In December 2000, the lower part of the excavation was backfilled with screened pit run and gravel. Above this fill material, non-impacted soil from the USTs' excavation was placed as fill. It has been Emerald's experience that the screened pit run and gravel can be expected to have an inherent compaction of 80% to 90%. A hydraulic compactor was used to compact the backfilled soil in one to two-foot thick lifts to approximately 90 percent compaction, according to Emerald. This compaction information is considered approximate and should be verified by a geotechnical engineer if there are to be any significant engineered loads (such as those for buildings) in this area.

3.5 Groundwater

According to Kleinfelder (in its report dated June 2000), regional groundwater was reported to be approximately 45 feet bgs with a flow direction to the west-northwest. As discussed above and in ATC's report (dated February 2, 2001), this depth and flow direction is based on information approximately 1.2 miles from the site. This depth to groundwater and flow direction is consistent with ATC's experience.

Water was encountered intermittently in the site excavation. This water was encountered at a depth of approximately 14 feet bgs in some of the excavations and test pits that were excavated. In other excavated areas and test pits the water was encountered at depths below 14 feet bgs (to 16 feet bgs which was the deepest depth excavated). Based on the depth of this water above the reported regional groundwater table, the heterogeneous nature of the fill at the site (which could result in localized "ponding" of precipitation in a manner consistent with the observed conditions), the historical stream valley above which the site is located (and which has since been filled in), and the intermittent occurrence of water in the site excavations, this water is, in the judgment of ATC, seasonal perched water.

In ATC's judgment, any potential impacts to the seasonal perched water are not an environmental concern. This judgment is based on the following: the seasonal perched water was only intermittently present, the source of potential impacts (the former USTs and the petroeum hydrocarbon impacted soil) has been removed, the detected petroleum hydrocarbons at this site were heavier end DRO petroleum hydrocarbons which tend to be of limited mobility, volatility, and toxicity, the depth of the water below the ground surface and distance above the reported depth of the regional groundwater, and the "soil" in which the seasonal perched water is located is debris filled fill which would likely result in the water being less than pristine.

It is also ATC's judgment that there is a very low likelihood that regional groundwater has been impacted by the former DRO-impacted soil at the site. This judgment is based on the results of the confirmation soil sampling and analysis (which had did not have detectable DRO concentrations with the exception of one sample which had petroleum hydrocarbon concentrations below the WDOE Method A Cleanup Level for DRO of 200 mg/kg) and the distance (more than 25 feet) between the perched seasonal water and the reported depth to regional groundwater. With the removal of the USTs and DRO-impacted soil the source for any future impacts has been removed.

4.0 DISCUSSION

Historically the site had a former gasoline service station. In the area of this former gasoline service station, a total of three USTs ultimately were encountered. These three USTs (designated UST T1 through T3) were removed, cleaned and recycled offsite at Bloch Steel Industries. Petroleum-impacted soil (PCS) was encountered during UST decommissioning and was disposed of at the TPS Technologies Facility in Tacoma, Washington under manifest. Part of a buried foundation wall and concrete floor slab (indicative of a possible basement floor slab) were encountered in the UST excavation north of where the USTs were located. Some of the concrete floor slab was covered with a sludge-like material (DRO sludge). Where observed, the DRO sludge was scraped off the concrete and disposed of with the PCS. The scraped concrete was disposed of at the Rabanco disposal facility in Roosevelt, Washington.

Confirmation soil samples were collected and analyzed following excavation and removal of the PCS, DRO sludge, and the concrete floor slab from which the DRO sludge had been removed.

Based on field observations it is the judgment of ATC that petroleum hydrocarbon- (DRO-) impacted soil (PCS) encountered at the site likely was the result of leakage from small holes and corroded areas in former UST T3 as well as possibly poor housekeeping during the life of the former gasoline service station. It is also the judgment of ATC that the vertical and lateral extent of the former PCS-impacted soil has been characterized and that the PCS-impacted soil has been removed from the area of former UST T3. It is ATC's judgment that there is a low likelihood that PCS associated with former UST T3 remains at the site.

The age of the UST's is unknown but most likely associated with a service station previously located at the site. No other USTs are known to be present at the site.

In ATC's judgment, there is a very low likelihood that regional groundwater has been impacted by the former DRO-impacted soil at the site. This judgment is based on the results of the confirmation soil sampling and analysis and the distance (more than 25 feet) between the perched seasonal water and the reported depth to regional groundwater.

5.0 CONCLUSIONS

Based on the results of this investigation, current regulatory guidelines, and the judgment of ATC, the following conclusions have been drawn:

- Petroleum hydrocarbon- (DRO-) impacted soil (PCS) encountered at the site likely was the result of leakage from small holes and corroded areas in former UST T3 as well as possibly poor housekeeping during the life of the former service station.
- The vertical and lateral extent of former PCS-impacted soil has been characterized and the PCS-impacted soil has been removed from the area of former UST T3.
- There is a low likelihood that PCS associated with former UST T3 remains at the site.
- All of the DRO sludge (4.63 tons) observed on the subsurface concrete floor slab has been scraped off the concrete and transported to the Rabanco facility in Roosevelt, WA for disposal.
- All of the observed PCS-impacted soil and the DRO sludge (259.52 tons) was transported under manifest to TPS Technologies in Tacoma, WA for incineration.
- The excavation has been backfilled with "clean" fill from the excavation and imported fill that was compacted to approximately 80 to 90 percent. This compaction is approximate.
- Significant quantities of trash (that included tires, bricks, concrete, car parts, metal, and wood debris) were encountered in the excavations at the site. It is likely that this type of trash is present elsewhere at the site.
- Seasonal perched water was encountered intermittently at a depth of approximately 14 feet bgs.
- Seasonal perched water is not considered to be an environmental concern.
- There is a very low likelihood that regional groundwater has been impacted by the former DRO-impacted soil at the site.

6.0 RECOMMENDATIONS

Based on the results of this investigation, current regulatory guidelines, and the judgment of ATC, the following recommendations are presented for consideration:

- No further investigation is recommended.
- This report should be transmitted to the State of Washington Department of Ecology with a request for site closure.
- During any future site development, the characteristics of fill at the site should be considered along with the remaining foundation wall and concrete floor slab as they relate to potential foundation (geotechnical engineering) impacts.
- Compaction of fill in the UST-related excavations should be verified by a geotechnical engineer if there is to be any significant engineered loads (such as those for buildings) in the area of the USTs' excavations.

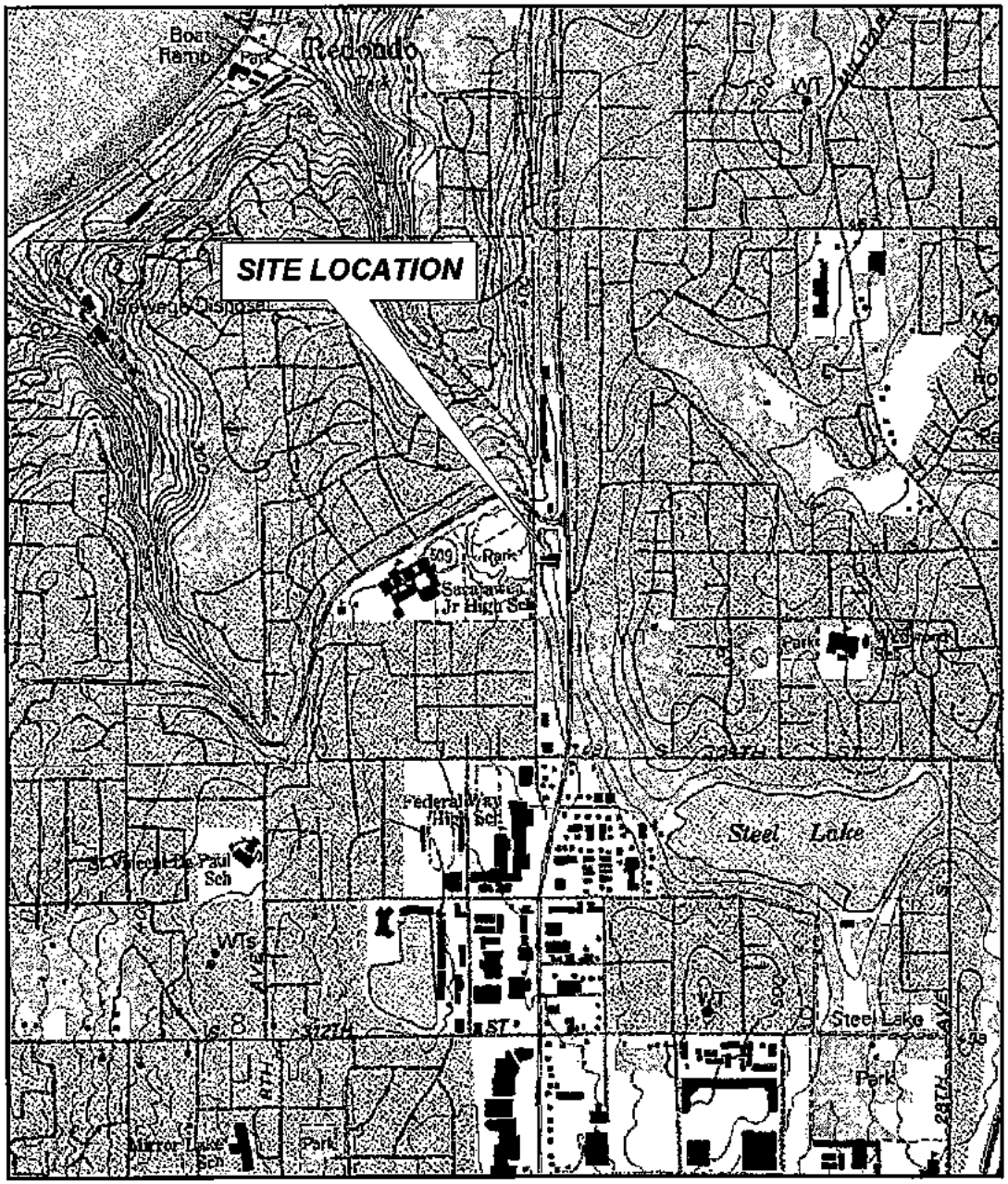
7.0 REFERENCES

ATC Associates Inc., 2001, Report of subsurface investigation at the Ruth Evans Trust property located at 29805 Pacific Highway South in Federal Way, Washington: Unpublished professional report prepared for the Ruth Evans Trust c/o Union Bank of California, Orange, CA, dated February 2, 2001.

Kleinfelder, 2000, Phase I Environmental Site Assessment for the Ruth Evans Trust property located at 29805 Pacific Highway South in Federal Way, Washington: Unpublished professional report prepared for the Ruth Evans Trust c/o Union Bank of California, Orange, CA, dated June 2000.

R 4 E.

T 21 N.



1/2 mile 0 1 mile

SOURCE: USGS 7.5 X 15 MINUTE TOPOGRAPHIC SURVEY MAP OF POVERTY BAY, WASHINGTON QUADRANGLE; 1961, PHOTOREVISED 1994

VATC ASSOCIATES INC.
Solutions for Environmental Concerns

PROJECT NO.: 76.17883.0902		
DESIGNED BY: MW	SCALE: 1:24,000	
DRAWN BY: MW	DATE : 12/15/00	FILE: Fig1.VSD

FIGURE 1

SITE VICINITY MAP

PHASE II SUBSURFACE INVESTIGATION
RUTH EVANS TRUST
29805 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WASHINGTON

LIGHTS

SIGNS

POSTS

B-6

B-10

FORMER 55-GALLON DRUM STORAGE LOCATION

B-9

B-8

B-7

APPROXIMATE LOCATION OF FORMER 500-GALLON DIESEL UNDERGROUND STORAGE TANK

B-1

AGC - ANOMALY #3

MOTEL

CHAIN-LINK FENCED AREA

EXISTING BUILDING

B-4

OUTFALL FROM SUMPS

B-5

APPROXIMATE LIMIT OF EXCAVATION AS SHOWN IN FIGURE 3.

PARKING AREA

AGC - ANOMALY #1

AGC - ANOMALY #2

B-3

FOUNDATION WALL

Posts

B-2

PACIFIC HIGHWAY SOUTH

LEGENDS

- Outfall from Sumps
- B-6 Soil Boring Locations
- Extent of Excavation
- Sump Locations

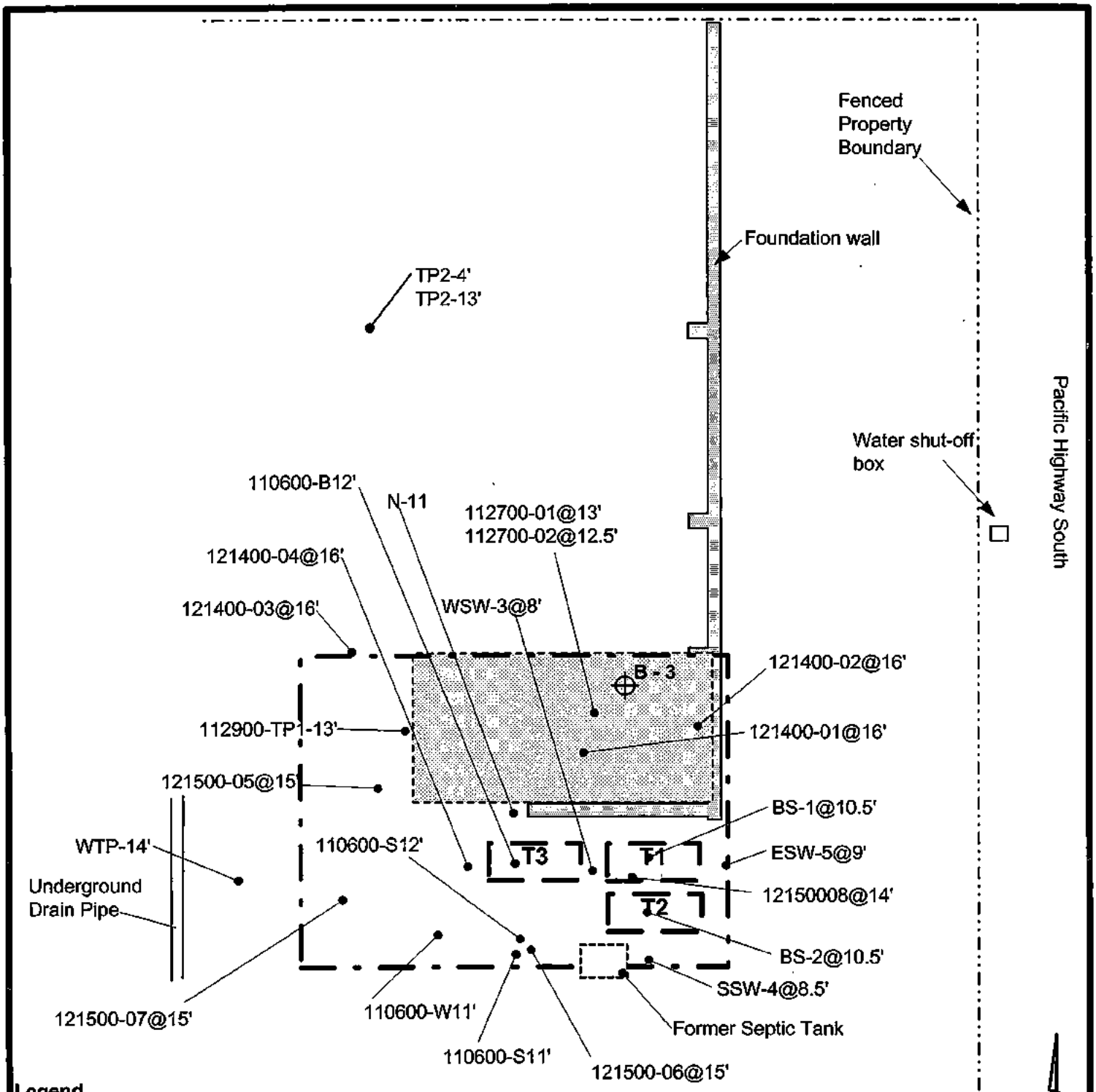
VATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.: 76.17883.0902		
DESIGNED BY: MW	SCALE: 1" ~ 26'	TYPE:
DRAWN BY: MLL	DATE : 11/6/00	FILE: Fig2.vsd

FIGURE 2

SITE MAP

UNDERGROUND STORAGE TANK SITE ASSESSMENT
RUTH EVANS TRUST
29850 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WASHINGTON



Legend

- N-11 Soil Sample Location and Designation
- Former Concrete Floor Slab with DRO Sludge
- B - 3 Soil Boring Location
- Limit of Excavation
- T3 Former UST Location & Designation
- * All locations and dimensions are approximate

VATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.: 76.17883.0902		
DESIGNED BY: MW	SCALE: 1"=10'	TYPE:
DRAWN BY: DFK	DATE : 1/2/01	FILE: Fig2.vsd

SOIL SAMPLE LOCATIONS

SUBSURFACE INVESTIGATION
RUTH EVANS TRUST
29805 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WASHINGTON

APPENDIX A

UNDERGROUND STORAGE TANK DECOMMISSIONING DOCUMENTATION

TPS

Date	Ticket #	Qty (Tons)
15-Dec	479050	14.08
15-Dec	479044	25.04
15-Dec	479033	26.45
15-Dec	479012	13.18
15-Dec	478999	26.35
15-Dec	478970	26.11
15-Dec	478993	13.49
19-Dec	479259	29.18
19-Dec	479231	29.66
20-Dec	479316	29.77
20-Dec	479365	24.21
Total		259.52

Marine View Sand & Gravel

Date	Ticket #	Qty (Tons)
15-Dec	3325	13.96
15-Dec	3324	31.14
19-Dec	3348	27.49
19-Dec	3347	26.92
20-Dec	3358	27.79
20-Dec	3350	28.64
20-Dec	3359	28.89
21-Dec	3365	12.26
21-Dec	3364	12.82
21-Dec	3366	11.4
21-Dec	3357	12.81
21-Dec	3356	13.76
21-Dec	3363	10.55
21-Dec	3361	10.92
TOTAL		269.35

RW Rhine

Date	Ticket #	Qty (Tons	Material
15-Dec	11187	27.75	RC

Stoneway - Quarry Rock

Date	Ticket #	Qty (Tons)
20-Dec	28218	26.15

Stoneway - Concrete Dump

Date	Ticket #	Qty (Load)
14-Dec	27921	1
20-Dec	28210	1
		2 Loads

Rabanco CDL

Date	Ticket #	Qty (tons)
21-Dec	1935775	4.63

32-48697

WASHINGTON STATE DEPARTMENT OF ECOLOGY

UNDERGROUND STORAGE TANK
Closure and Site Assessment Notice

See back of form for instructions

FOR OFFICE USE ONLY
Site ID #:
Owner ID #:

Please ✓ the appropriate box(es)
☐ Temporary Tank Closure ☐ Change-In-Service ☐ Permanent Tank Closure ☐ Site Check/Site Assessment

Site Information

Site ID Number _____
(Available from Ecology if the tanks are registered)
Site/Business Name _____
Site Address 29805 PACIFIC Hwy S. (Street)
City/State FEDERAL WAY, WA
Zip Code _____ Telephone (___) _____
Owners Signature _____

Owner Information
(This form will be returned to this address)

UST Owner/Operator _____
Mailing Address _____ (Street)
_____ (P.O. Box)
City/State _____
Zip Code _____ Telephone (___) _____

Tank Closure/Change-In-Service Company

Service Company EMERALD SERV. INC.
Certified Supervisor Jerry Smiley Decommissioning Certification No. 0877828-26
Supervisor's Signature Jerry Smiley Date 11/3/00
Address 7343 E. MARGINAL WAY S (Street) (P.O. Box)
SEATTLE (City) WA (State) 98108 (Zip Code) Telephone (206) 832 3000

Site Check/Site Assessor

Certified Site Assessor Mark Watts (ATC)
Address _____ (Street) (P.O. Box)
_____ (City) (State) (Zip Code) Telephone (___) _____

Tank Information

Tank ID	Closure Date	Closure Method	Tank Capacity	Substance Stored
T1				
T2				
T3				

Contamination Present at the Time of Closure

☒ Yes ☐ No ☐ Unknown
Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

☐ Yes ☐ No
If contamination is present, has the release been reported to the appropriate regional office?

To receive this document in an alternative format, contact the TOXICS CLEANUP PROGRAM at 1-800-826-7716 (VOICE) OR (360) 407-6006 (TDD).

ECY 020-94 (Rev. 6-99)

Emerald SERVICES INC.

Emerald Services
Emerald Construction
Emerald Sanitary Service
Emerald Portable Storage
Emerald Petroleum Services

DISPOSAL CERTIFICATION

January 11, 2001

ATC Associates, Inc.
6347 Seaview Avenue NW
Seattle, WA 98107
Attn: Mark Watts

Dear Mr. Watts:

This letter is to certify that Emerald Services, Inc. has received the following tank(s) for cleaning and disposal in accordance with all federal, state and local rules and regulations:

- (1) 750 gallon diesel underground heating oil tank
- (1) 500 gallon diesel underground heating oil tank
- (1) 300 gallon diesel underground heating oil tank

EMERALD SERVICES JOB # 32-48697

DATE RECEIVED: 11/03/00

DATE CLEANED: 12/01/00

DATE OF DISPOSAL: 12/01/00

METHOD OF DISPOSAL: Metal Recycling by Bloch Steel Industries

LOCATION OF TANK ORIGIN: 29805 Pacific Hwy S., Federal Way, WA
If you have any questions or requests for service, feel free to contact this office at (206) 832-3000.

Thank you for your business and we look forward to being of service in the future.

Sincerely,
Emerald Services Inc.

Sandi Shanklin
Project Administrator

dispcert.doc

Soil Recycling Certificate

TPS Technologies Inc. does hereby certify

that 259.52 tons of non-hazardous contaminated soil

received from

29805 Pac Highway SOuth
Emerald Construction (Consultant)
Federal Way, WA

Under Manifest / authorization number 03-03174
4930

have been properly recycled to approved regulatory standards

at our Soil Recycling Facility in Lakewood, WA

Dated this 29th Dec 00

Sworn and Attested by:
TPS Technologies Inc.

By:

CLEANING CERTIFICATE

THIS IS AN ON-SITE CLEANING CERTIFICATE. CERTIFICATE INDICATES THAT THE FOLLOWING TANK(S) HAS(HAVE) BEEN CLEANED AND TRIPLE RINSED IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS:

QTY.	GALLONAGE	DESCRIPTION
1	750	U.S.T HEATING OIL

WPEI JOB # 32-48697

TRUCK # 777

DRIVER SIGNATURE

Dan Doyle DATE 12-1-00

SITE INFORMATION

COMPANY: FORMER 40 RENTALS

ADDRESS: HWY 99 & 80TH (OR DASH PT. RD. FEDERAL WAY

CUSTOMER SIGNATURE

_____ DATE _____

P.O. Box 80743 • Seattle, WA 98108 • 54 So. Dawson St. • Seattle, WA 98134 • Phone 206-762-1190 • Toll-Free 1-800-441-1090

32-48697

NS 4898

West Pac Environmental, Inc.

CLEANING CERTIFICATE

THIS IS AN ON-SITE CLEANING CERTIFICATE. CERTIFICATE INDICATES THAT THE FOLLOWING TANK(S) HAS(HAVE) BEEN CLEANED AND TRIPLE RINSED IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS:

QTY.	GALLONAGE	DESCRIPTION
1	300	UST HEATING oil
1	500	" "

WPEI JOB # 32-48697

TRUCK # 777

DRIVER SIGNATURE

Dan Doyle DATE 12-1-00

SITE INFORMATION

COMPANY: Former 40 RENTALS

ADDRESS: HWY-99 & Dash point RD.
FEDERAL WAY.

CUSTOMER SIGNATURE

_____ DATE _____

P.O. Box 80743 • Seattle, WA 98108 • 54 So. Dawson St. • Seattle, WA 98134 • Phone 206-762-1190 • Toll-Free 1-800-441-1090

dworth & Company, Inc.

GENERAL CONTRACTORS

East D Street / Tacoma, Washington 98421
Telephone (253) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

Ticket # 478993
Wmaster REBECCA

CAUTION: HOT ASPHALT WILL BURN YOU!

ROBERT

RECEIVED *

CUSTOMER:

PURCHASE ORDER:

	JOB LOAD	JOB TONS
TOTAL		
DAILY 2		41.60

	PLANT	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
5/00 :16			3174-		3089		

	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
0 NT. SOIL	50680	23700	13.49		

INSTRUCTIONS

26980 Net LB 2

Net Metric Tons
12.24

TAX %
PAY THIS AMOUNT

PIT B180

REMARKS

X

SCALE OPERATOR

Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421

Telephone (253) 383-3585

32-18697

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

Ticket # 479050

Wmaster REBECCA

CAUTION: HOT ASPHALT WILL BURN YOU!

ROBERT

RECEIVED *

CUSTOMER: P.S.
)1384

PURCHASE ORDER:

	JOB LOAD	JOB TONS
TOTAL		
DAILY	7	146.70

2/15/00
21
200
ONT. SOIL

PLANT	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
		3174-		3089		

GROSS	TARE	NET WT. TONS	PRICE	TOTAL
51860	23700	14.08		

INSTRUCTIONS

28160 Net LB 2

Net Metric Tons
12.77

TAX %
PAY THIS AMOUNT

PIT B160

REMARKS

X

SCALE OPERATOR

MasterCard

32-48697

Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (253) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

MEMBER NAPA NATIONAL ASPHALT PAVEMENT ASSOCIATION

Ticket # 479044
Wmaster REBECCA

CAUTION: HOT ASPHALT WILL BURN YOU!

RECEIVED *

CUSTOMER: P.S. 1384

PURCHASE ORDER:

	JOB LOAD	JOB TONS
TOTAL		
DAILY	6	132.62

DATE	PLANT	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
2/15/00 *53			3174-		0192T		

200 ONT. SOIL	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
	83760	33680	25.04		

INSTRUCTIONS

50080 Net LB 2

Net Metric Tons 22.72

TAX %
PAY THIS AMOUNT

PIT B160

REMARKS

X

SCALE OPERATOR

MasterCard

32-48697

Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (253) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

Ticket # 479033
Wmaster REBECCA

CAUTION: HOT ASPHALT WILL BURN YOU!

STEPHANIE

RECEIVED *

CUSTOMER: P.S. 1384

PURCHASE ORDER:

	JOB LOAD	JOB TONS
TOTAL		
DAILY	5	107.58

DATE	PLANT	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
6/15/00 :23			3174-		0192T		

	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
200 ONT. SOIL	86580	33680	26.45		

INSTRUCTIONS

52900 Net LB 2

Net Metric Tons 24.00

TAX %
PAY THIS AMOUNT

PIT B160

REMARKS

X

SCALE OPERATOR

32-48697

Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (253) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

NAPA
NATIONAL ASPHALT PAVEMENT ASSOCIATION

Ticket # 479012
Wmaster REBECCA

CAUTION: HOT ASPHALT WILL BURN YOU!

ROBERT

RECEIVED *

CUSTOMER:
P.S.
1384

PURCHASE ORDER:

	JOB LOAD	JOB TONS
TOTAL		
DAILY	4	81.13

	PLANT	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
6/15/00 1:40			3174-		3089		

	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
200 ONT. SOIL	50060	23700	13.18		

INSTRUCTIONS

26360 Net LB. 2/

Net Metric Tons 11.96

TAX %
PAY THIS AMOUNT

PIT B160

REMARKS

X

SCALE OPERATOR

MasterCard

3248697

Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (253) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

Ticket # 478999
Wmaster REBECCA

CAUTION: HOT ASPHALT WILL BURN YOU!

STEPHANIE

RECEIVED *

CUSTOMER: P.S.
1384

PURCHASE ORDER:

	JOB LOAD	JOB TONS
TOTAL		
DAILY	3	67.95

/15/00	PLANT	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
0:52			3174-		0192T		

200	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
ONT. SOIL	86380	33680	26.35		

L INSTRUCTIONS

52700 Net LB 2

Net Metric Tons
23.90

TAX %
PAY THIS AMOUNT

PIT B160

REMARKS

X

SCALE OPERATOR

32-48697 1697

odworth & Company, Inc.
GENERAL CONTRACTORS
it D Street / Tacoma, Washington 98421
Telephone (253) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

NAPA
NATIONAL ASPHALT PAVEMENT ASSOCIATION

Ticket # 478970
Wmaster REBECCA

ON: HOT ASPHALT WILL BURN YOU!

STEPHANIE

RECEIVED *

PURCHASE ORDER:

	JOB LOAD	JOB TONS	JOB TONS
TOTAL			
DAILY	1	28.11	1.60

PLANT	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE	REFERENCE
		3174-		0192T			

GROSS	TARE	NET WT. TONS	PRICE	TOTAL	TOTAL
89900	33680	28.11			

56220 Net LB 2

Net Metric Tons
25.50

TAX %
PAY THIS AMOUNT

T B160

REMARKS

X

SCALE OPERATOR

32-48697

Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (253) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

Member NAPA National Asphalt Pavement Association

Ticket # 479259
Wmaster REBECCA

CAUTION: HOT ASPHALT WILL BURN YOU!

RECEIVED *

CUSTOMER: U.S. 1384

PURCHASE ORDER:

	JOB LOAD	JOB TONS
TOTAL		
DAILY	2	58.84

	PLANT	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
1.19/00 :44			3174-		0192T		

	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
:00 ONT. SOIL	92040	33680	29.18		

INSTRUCTIONS

58360 Net LB 2

Net Metric Tons
26.47

TAX %
PAY THIS AMOUNT

PIT B160

REMARKS

X _____ SCALE OPERATOR

MasterCard

Lds. 2U ONLY

32-48697

Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (253) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

MEMBER NAPA NATIONAL ASPHALT PAVEMENT ASSOCIATION

Ticket # 479231
Wmaster REBECCA

CAUTION: HOT ASPHALT WILL BURN YOU!

RECEIVED *

CUSTOMER: U.S. 1384

PURCHASE ORDER:

	JOB LOAD	JOB TONS
TOTAL		
DAILY	1	29.66

DATE	PLANT	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
/19/00 2:33			3174-		0192T		

GROSS	TARE	NET WT. TONS	PRICE	TOTAL
93000	33680	29.66		

:00 CONT. SOIL

INSTRUCTIONS

59320 Net LB 2

Net Metric Tons
26.91

TAX %
PAY THIS AMOUNT

PIT B160

REMARKS

X

SCALE OPERATOR

MasterCard

32-48697

Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (253) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

Member NAPA National Asphalt Pavement Association

Ticket # 479316
Wmaster REBECCA

CAUTION: HOT ASPHALT WILL BURN YOU!

RECEIVED *

CUSTOMER: P.S. 11384

PURCHASE ORDER:

	JOB LOAD	JOB TONS
TOTAL		
DAILY	1	29.77

/20/00 :07	PLANT	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
			3174-		0192T		

200 ONT. SOIL	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
	93220	33680	29.77		

INSTRUCTIONS

59540 Net LB 2

Net Metric Tons
27.01

TAX %
PAY THIS AMOUNT

PIT B160

REMARKS

X

SCALE OPERATOR

MasterCard

32-48497

Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (253) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

Member NAPA National Asphalt Pavement Association

Ticket # 479365
Wmaster REBECCA

CAUTION: HOT ASPHALT WILL BURN YOU!

RECEIVED *

CUSTOMER: P. S. 1384

PURCHASE ORDER:

	JOB LOAD	JOB TONS
TOTAL		
DAILY	2	53.98

	PLANT	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
2/20/00			3174-		0192T		
2103							

	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
200 ONT. SOIL	82100	33680	24.21		

INSTRUCTIONS

48420 Net LB 2

Net Metric Tons
21.96

TAX %
PAY THIS AMOUNT

PIT B160

REMARKS

X Sm
SCALE OPERATOR

MasterCard

32-48697 3365

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer Name Emerald Services

To / From Yelm Job # _____

SCALE #1

GROSS 48480 LB
TARE 23960 LB KEYED
NET 24520 LB

12/21/00 01:21 PM 12.26T

Truck # Stephen Gisvold Date 12/21

32-48697 3364

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer Name Emerald Services

To / From Graveyard Job # Select Pitrun

SCALE #1

GROSS 49600 LB
TARE 23960 LB KEYED
NET 25640 LB

12/21/00 12:18 PM 12.82T

Truck # Stephen Gisvold Date 12/21

32-48697 3366

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer Name Emerald Services

To / From Yelm Job # Select

SCALE #1

GROSS 46760 LB
TARE 23960 LB KEYED
NET 22800 LB

12/21/00 02:26 PM 11.40T

Truck # Stephen Gisvold Date 12/21

32-48697 3357

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer Name Emerald Services

To / From Salem Job # _____

Return

SCALE #1

GROSS 49580 LB
TARE 23960 LB KEYED
NET 25620 LB

12/21/00 09:27 AM 12.81T

Truck # Stephen Criswell Date 12/21

32-48697 3356

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer Name Emerald Services

To / From Select Job # _____

SCALE #1

GROSS 51480 LB
TARE 23960 LB KEYED
NET 27520 LB

12/21/00 08:29 AM 13.76T

Truck # Stephen Criswell Date 12/21

32-48697 3360

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer Name Emerald Services

To / From Spanaway Job # _____

Return

SCALE #1

GROSS 45060 LB
TARE 23960 LB KEYED
NET 21100 LB

12/21/00 11:18 AM 10.55T

Truck # Stephen Criswell Date 12/21

32-48697 3361

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer Name Emerald Services

To / From Spanaway Job # _____

Select

SCALE #1

GROSS 45800 LB
TARE 23960 LB KEYED
NET 21840 LB

12/21/00 10:17 AM 10.92T

Truck # Stephen Criswell Date 12/21

3358
32-48697

rine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

omer
ame Emerald Services

/ From Sequim Job # _____

Return

SCALE #1
T 34000
GROSS 89580 LB
N 55580
12/20/00 12:42 PM

27.79T

Truck # 1 Dale Date 12/20

3350
32-48697

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer
Name Emerald Services

To / From Sequim Job # _____

Return

SCALE #1
T 34000
GROSS 91280 LB
N 57280
12/20/00 09:56 AM

28.64 ton

Truck # 1 Dale Date 12/20

3359
32-48697

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer
Name Emerald Services

To / From Sequim Job # _____

Return

SCALE #1

GROSS 91780 LB
TARE 34000 LB KEYED
NET 57780 LB

12/20/00 02:06 PM

28.89T

Truck # 1 Dale Date 12/20

4-16 32-48697 3348

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer Name Emerald Services

To / From Green Job #

SCALE #1

GROSS 88700 LB
TARE 33720 LB KEYED
NET 54980 LB

12/19/00 03:27 PM 27.49T

Truck # Dale Date 12/19

32-48697 3347

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer Name Evergreen Environ

To / From Leased Job #
Pitman

26.92 tons

SCALE #1

GROSS 87560 LB
TARE 33720 LB KEYED
NET 53840 LB

12/19/00 01:16 PM 26.92T

Truck # Dale Date 12/19

32-48697 3325

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer Name Emerald Services

Job # _____

SCALE #1

GROSS 51660 LB
TARE 23740 LB
NET 27920 LB

13.96 T

12/15/00 12:12 PM

57

Date 12/15

32-48697 3324

Marine View Sand & Gravel, L.L.C.

(253) 572-2867 • Fax (253) 572-8842
1635 Marine View Drive • Tacoma, WA 98422

Customer Name Evergreen Services

To / From Pitman Job # _____

SCALE #1

GROSS 95680 LB
TARE 33400 LB KEYED
NET 62280 LB

31.14 T

12/15/00 11:37 AM

Truck # _____ Date 12/15

Y ROCK & RECYCLING

9125 TENTH AVENUE SOUTH
EATTLE, WA 98108 • (206) 762-2566
IVER QUARRY
TH ST. • RENTON • (425) 226-1000 A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

DELIVERY TICKET

ACCOUNTING (206) 762-2566
SALES/PLANT & ORDER DESK (425) 226-1000
FAX (206) 763-4178

DATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT
12/14/00				

CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
952701			22

CUSTOMER NAME: WEST PAC ENVIRONMENTAL

CUSTOMER P.O.:

JOB NO.: 00050

DELIVERY TICKET NO.: 027921

JOB ADDRESS: DUMP

SPECIAL INSTRUCTIONS: HWY 99 & DASH POINT ROAD

COLLECT ON DELIVERY (C.O.D.)

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ___/___

☐ VISA ☐ MASTERCARD ☐ DISCOVER

JOB # 33-48697

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
1	LD	910118	DUMP FEE — CONC W/REB				

ATT: Jeanne 40 Rentals

4400.00 32 60.00 332 48697

DRIVER	TRUCK NO.	ORDERED BY	REMIT TO	SUB-TOTAL	
	257		9125 10th AVE. S. SEATTLE, WA 98108 TERMS ON REVERSE		
DISPATCHER	TAX CODE	TIME DUE		SALES TAX	
	WA01	3:32pm		BALANCE FORWARD	
				TOTAL AMOUNT	

RELEASE — CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS STONEWAY ROCK & RECYCLING, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE _____

PRINT NAME Robert Shuttle DATE _____

REV 12/99 NBF

CUSTOMER COPY

32-48697

STONEWAY ROCK & RECYCLING

9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 762-2586

RIVER QUARRY
40TH ST. • RENTON • (425) 226-1000
A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

DELIVERY TICKET

ACCOUNTING (206) 762-2566
SALES/PLANT & ORDER DESK (425) 226-1000
FAX (206) 763-4178

DATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT
12/30/00				

CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
952701			22

CUSTOMER NAME: WEST PAC ENVIRONMENTAL

CUSTOMER P.O. | JOB NO. | DELIVERY TICKET NO.

JOB ADDRESS: DUMP

COLLECT ON DELIVERY (C.O.D.) 02821

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ____/____

SPECIAL INSTRUCTIONS: HWY 99 & DASH POINT ROAD

☐ VISA ☐ MASTERCARD ☐ DISCOVER

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
1	LD	910103	DUMP FEE CLEAN CONC S				

RECEIVED
DEC 29 2000
ACCOUNTING

DRIVER	TRUCK NO.	ORDERED BY	REMIT TO	SUB-TOTAL	
	23X		9125 10th AVE. S. SEATTLE, WA 98108 TERMS ON REVERSE		
DISPATCHER	TAX CODE	TIME OUT		SALES TAX	
	WA01	5:56am		BALANCE FORWARD	
				TOTAL AMOUNT	

RELEASE – CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS STONEWAY ROCK & RECYCLING, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE Robert Sheffer

PRINT NAME Robert Sheffer DATE _____

REV 12/99 N8F

CUSTOMER COPY

32-48697

ROCK & RECYCLING

TENTH AVENUE SOUTH
ATTLE, WA 98108 • (206) 762-2566
VER QUARRY
ST S, RENTON • (425) 226-1000
A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

DELIVERY TICKET

ACCOUNTING (206) 762-2566
SALES/PLANT & ORDER DESK (425) 226-1000
FAX (206) 763-4178

LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT

DATE	CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
12/20/00	952701			22

CUSTOMER NAME	CUSTOMER P.O.	JOB NO.	DELIVERY TICKET NO.
WEST PAC ENVIRONMENTAL		032-1	028218

JOB ADDRESS
AGG CALL

SPECIAL INSTRUCTIONS
29805 PAC HWY SO

COLLECT ON DELIVERY (C.O.D.)

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ___/___

☐ VISA ☐ MASTERCARD ☐ DISCOVER

JOB # 3248697

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
86.700	Gross						
34.400	Tare						
52.300	Net	65017	85 LEDGE ROCK	26.15	26.15		
52.300	TN	70015	ENVIRONMENTAL SURCHAR				

RECEIVED
DEC 29 2000
ACCOUNTING

DRIVER	TRUCK NO.	ORDERED BY	REMIT TO	SUB-TOTAL	
	254		9125 10th AVE. S. SEATTLE, WA 98108 TERMS ON REVERSE		
DISPATCHER	TAX CODE	TIME DUE		SALES TAX	
	WA01	7:34am		BALANCE FORWARD	
				TOTAL AMOUNT	

RELEASE — CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS STONEWAY ROCK & RECYCLING, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE _____

PRINT NAME _____ DATE _____

REV 12/99 NBF

CUSTOMER COPY

32-48697

R. W. RHINE

OFFICE: 1124 112th St. East, TACOMA, WASHINGTON 98455
PHONE:(253) 537 5852 FAX:(253) 531 9548
SITE: 1621 Marine View Dr, TACOMA, WASHINGTON *** REPRINT ***
PHONE: (253) 383 4001

BILL TO: EMERALD CONSTRUCTION INC

7343 E MARGINAL WAY S

SEATTLE WA 98108

TICKET # 11187

Date: 12/15/2000
Time In: 09:10
Time Out: 09:13

JB LOCATION:
TRUCKING COMPANY: EMERALD CONSTRUCTION INC TRUCK # 254
OUTBOUND 1 1/4" MINUS CRUSHED CONCRETE

GROSS	TARE	NET LB	NET TN	UNIT PRICE	AMOUNT
89340	33840	55500	27.750		

TAX @ 8.4% >

NOTICE: The undersigned hereby represents and warrants that the material and items delivered herewith do not contain any hazardous materials, toxic waste or ASBESTOS.

TOTAL DUE _____

Driver's Signature _____

Weighmaster: 123

* Includes applicable city, county, and state fees.

32-48687

RABANCO RECYCLING CO.
A DIVISION OF RABANCO COMPANIES
2733 3rd Avenue South
Seattle, Washington 98134
(206) 623-4080

ET NUMBER 1335775

DATE: 12/21/00
TIME: 16:42

10498 - WEST PAC ENVIRO
EMERALD SERVICES
TRUCK #: 257 DUMP TRUCK PLACE: FEDERAL WAY
PRODUCT: CDL DEMOLITION-KING

	WEIGHT	TIME	DATE	SCALE
GROSS:	31300 LBS	16:38	12/21/00	IN
TARE:	22040 LBS	16:42	12/21/00	OUT

NET LBS: 9260
NET TONS: 4.630
RATE PER TON: $ 84.00

AMOUNT: $ 388.92

TOTAL AMOUNT: $ 388.92

Weighmaster - MATT

X _____
CUSTOMER SIGNATURE

ed * pplicable city, county, and state fees.

I HAVE READ AND AGREE TO THE CONDITIONS ON THE REVERSE SIDE.

APPENDIX B

LABORATORY REPORTS

SO1103-4

teg TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES

CHAIN-OF-CUSTODY RECORD

CLIENT: ATC

ADDRESS: 6347 Seaview Ave. NW, Seattle

PHONE: 206-781-1449 FAX: 206-781-1543

CLIENT PROJECT #: 76.12883.0002 PROJECT MANAGER: Mark Watts

DATE: 11/3/00 PAGE 1 OF 1

PROJECT NAME: Ruth Evans Trust

LOCATION: Federal Way, WA

COLLECTOR: Mark Watts DATE OF COLLECTION 11/3

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES: VOA 8010/8021B	VOA 8021B BTEX	VOA 8260	SEMI VOL 8270	TPH - HCID	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (d & o)	PAH 8100	PCBs 8082	Pesticides 8081	TOTAL LEAD	pH	NOTES	Total Number of Containers	Laboratory Note Number
1. BS-1	10.5	1128	Soil	402				X												
2. BS-2	10.5	1130	"	"				X												
3. WSW-3	8'	1135	"	"				X												
4. SSW-4	8.5'	1140	"	"				X												
5. ESW-5	9.0'	1150	"	"				X												
6. ~~S~~Stock-6	~	1310	"	"				X										Stockpile Composite		
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
13.																				
14.																				
15.																				
16.																				
17.																				
18.																				

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
[signature]	11/3/00 1120	[signature]	11/3/00
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

24 hr

Turn Around Time:

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01103-4
Client:	ATC
Client Job Name:	RUTH EVANS TRUST
Client Job Number:	76.17883.0902

Analytical Results

NWTPH-HCID, mg/kg		MTH BLK	BS-1	BS-2	WSW-3	SSW-4	ESW-5
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00
Date analyzed	Limits	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00	11/03/00
Gasoline	20	nd	nd	nd	nd	nd	nd
Stoddard solvent/Mineral spirits	20	nd	nd	nd	nd	nd	nd
Kensol	20	nd	nd	nd	nd	nd	nd
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd	nd
Diesel/Fuel oil	50	nd	nd	nd	nd	nd	nd
Bunker C	50	nd	nd	nd	nd	nd	nd
Heavy oil	100	nd	nd	nd	nd	nd	nd
Unidentifiable petroleum products	20	nd	nd	nd	nd	nd	nd
Surrogate recoveries:							
Fluorobiphenyl		95%	84%	85%	87%	86%	87%
o-Terphenyl		86%	81%	80%	80%	82%	82%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
D - detected at or above listed reporting limits
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01103-4
Client:	ATC
Client Job Name:	RUTH EVANS TRUST
Client Job Number:	76.17883.0902

Analytical Results

NWTPH-HCID, mg/kg		STOCK-6	DUPL STOCK-6
Matrix	Soil	Soil	Soil
Date extracted	Reporting	11/03/00	11/03/00
Date analyzed	Limits	11/03/00	11/03/00
Gasoline	20	nd	nd
Stoddard solvent/Mineral spirits	20	nd	nd
Kensol	20	nd	nd
Kerosene/Jet fuel	20	nd	nd
Diesel/Fuel oil	50	nd	nd
Bunker C	50	nd	nd
Heavy oil	100	D	D
Unidentifiable petroleum products	20	nd	nd
Surrogate recoveries:			
Fluorobiphenyl		86%	88%
o-Terphenyl		78%	79%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
D - detected at or above listed reporting limits
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

P.03

teg TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES

S01106-2

CHAIN-OF-CUSTODY RECORD

CLIENT: ATC

ADDRESS: 6347 Seaview Ave NW Seattle

PHONE: 206-781-1449 FAX: 206-781-1543

CLIENT PROJECT #: 76-17833.090 PROJECT MANAGER: Mark Hall

DATE: Nov. 6 2000 PAGE 1 OF 1

PROJECT NAME: Federal Way / Beth Evans

LOCATION: 29805 Pac Hi So.

COLLECTOR: Donna Hewitt DATE OF COLLECTION 11/6/00

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES: VOA 8010/8021B	VOA 8021B BTEX	VOA 8260	SEMI VOL 8270	TPH - HCID	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (cl & o)	PAH 8100	PCBs 8082	Pesticides 8081	TOTAL LEAD	pH	NWTPH-Dx	RCRA Metals	NOTES	Total Number of Containers	Laboratory Note Number
1. 110600 - CS1	0		Soil														X					
2. 110600 - CS2	0		"														X					
3. 110600 - CS3			"														X					
4. 110600 - S12	12'		"							X							X					
5. 110600 - B12	12'		"							X			X				X	X				
6. 110600 - S11	11'		"							X							X					
7. 110600 - W11	11'		"							X							X					
8.																						
9.																						
10.																						
11.																						
12.																						
13.																						
14.																						
15.																						
16.																						
17.																						
18.																						

Please Hold

OK to run by Mike Lewis 11/07/00 at 10:30

VG

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
[signature]	11/6/00 3:20PM	[signature]	11-6-00 3:25
[signature]	11-6-00 3:25	[signature]	11/6/00

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

Turn Around Time: 2 day

NOV-22-00 01:52P

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

800 Sleater-Kinney SE, PMB #262
Lacey, Washington 98503-1127

Mobile Environmental Laboratories
Environmental Sampling Services

Telephone: 360-459-4670
Fax: 360-459-3432

November 20, 2000

Mark Watts
ATC Associates
6347 Seaview Ave. NW
Seattle, WA 98107

Dear Mr. Watts:

Please find enclosed the analytical data report for the Ruth Evans Trust Project in Federal Way, Washington. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/Dx Extended, Gasoline by NWTPH-Gx, BTEX by Method 8021B, PCB's by Method 8082, and RCRA 8 Metals on November 6 – 10, & 17, 2000.

The results of these analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to ATC Associates for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec
President

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01106-2
Client:	ATC
Client Job Name:	FEDERAL WAY
Client Job Number:	76.17833.0901

Analytical Results

8082(PCBs), mg/kg		MTH BLK	LCS	B-12
Matrix	Soil	Soil	Soil	Soil
Date extracted	Reporting	11/10/00	11/10/00	11/10/00
Date analyzed	Limits	11/10/00	11/10/00	11/10/00
A1221	0.50	nd		nd
A1232	0.50	nd		nd
A1242 (A1016)	0.20	nd	85%	nd
A1248	0.20	nd		nd
A1254	0.20	nd		nd
A1260	0.20	nd		nd
Surrogate recoveries:				
Tetrachloro-m-xylene		66%	79%	86%
Decachlorobiphenyl		78%	68%	83%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number: S01106-2
Client: ATC
Client Job Name: FEDERAL WAY
Client Job Number: 76.17633.0901

Analytical Results				110600	MS 110600	MSD 110600	RPD 110600
NWTPH-Gx / BTEX		**MTH BLK**	**LCS**	**S-11**	**S-11**	**S-11**	**S-11**
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	11/06/00	11/06/00	11/06/00	11/06/00	11/06/00	11/06/00
Date analyzed	Limits	11/06/00	11/06/00	11/06/00	11/06/00	11/06/00	11/06/00
Moisture, %							
NWTPH-Gx, mg/kg							
Mineral spirits/Stoddard solvent	5.0	nd		nd			
Gasoline	5.0	nd		nd			
BTEX , ug/kg							
Benzene	50	nd	76%	nd	79%	72%	9%
Toluene	50	nd	82%	nd	88%	76%	15%
Ethylbenzene	50	nd		nd			
Xylenes	50	nd		nd			
Surrogate recoveries:							
Trifluorotoluene		85%	83%	91%	82%	70%	
Bromofluorobenzene		94%	103%	110%	90%	84%	

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01106-2
Client:	ATC
Client Job Name:	FEDERAL WAY
Client Job Number:	76.17633.0904

Analytical Results		110600	110600	DUP 110600	110600
NWTPH-Gx / BTEX		**S-12**	**W-11**	**W-11**	**B-12**
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	11/06/00	11/06/00	11/06/00	11/06/00
Date analyzed	Limits	11/06/00	11/06/00	11/06/00	11/06/00
Moisture, %			15%	15%	15%
NWTPH-Gx, mg/kg					
Mineral spirits/Stoddard solvent	5.0	nd	nd	nd	nd
Gasoline	5.0	nd	nd	8.2	100
BTEX , µg/kg					
Benzene	50	nd	nd	nd	nd
Toluene	50	nd	nd	nd	nd
Ethylbenzene	50	nd	120	120	210
Xylenes	50	nd	120	110	580
Surrogate recoveries:					
Trifluorotoluene		82%	81%	75%	79%
Bromofluorobenzene		89%	93%	91%	106%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01106-2
Client:	ATC
Client Job Name:	FEDERAL WAY
Client Job Number:	76.17833.0901

Analytical Results		110600	110600	DUPL 110600	RPD 110600
NWTPH-Dx, mg/kg		**W-11**	**B-12**	**B-12**	**B-12**
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	11/07/00	11/07/00	11/07/00	11/07/00
Date analyzed	Limits	11/07/00	11/07/00	11/07/00	11/07/00
Moisture, %		15%	15%	15%	
Kerosene/Jet fuel	20	nd	nd	nd	
Diesel/Fuel oil	20	nd	nd	nd	
Heavy oil	50	320	3,000	3,500	15%
Surrogate recoveries:					
Fluorobiphenyl		98%	94%	94%	
o-Terphenyl		87%	89%	83%	

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01106-2
Client:	ATC
Client Job Name:	FEDERAL WAY
Client Job Number:	76.17633.0901

Analytical Results			110600	110600	110600	110600	110600
NWTPH-Dx, mg/kg		MTH BLK	CS1	CS2	CS3	S-11	S-12
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	11/07/00	11/07/00	11/07/00	11/07/00	11/07/00	11/07/00
Date analyzed	Limits	11/07/00	11/07/00	11/07/00	11/07/00	11/07/00	11/07/00
Moisture, %							
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	nd	nd
Heavy oil	50	nd	nd	nd	240	nd	nd
Surrogate recoveries:							
Fluorobiphenyl		94%	96%	95%	97%	96%	96%
o-Terphenyl		89%	89%	91%	88%	90%	89%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

FEDERAL WAY PROJECT
Federal Way, Washington
ATC
Client Project #76.17883.0902

Heavy Metals in Soil by EPA-7000 Series

Sample Number	Date Analyzed	Lead (Pb) EPA 7420 (mg/kg)	Cadmium (Cd) EPA 7130 (mg/kg)	Chromium (Cr) EPA 7190 (mg/kg)	Arsenic (As) EPA 7061 (mg/kg)	Silver (Ag) EPA 7760 (mg/kg)	Barium (Ba) EPA 7080 (mg/kg)	Selenium (Se) EPA 7741 (mg/kg)	Mercury (Hg) EPA 7471 (mg/kg)
Method Blank	11/17/00	nd	nd	nd	nd	nd	nd	nd	nd
B12	11/17/00	nd	nd	nd	nd	nd	nd	nd	nd
Method Detection Limits		5	1	20	5	50	50	50	0.5

"nd" Indicates not detected at listed detection limits.

ANALYSES PERFORMED BY: Tim McCall

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

FEDERAL WAY PROJECT
Federal Way, Washington
ATC
Client Project #76.17883.0902

QA/QC Data - Total Metals EPA-7000 Series Analyses

Sample Number: 001119-7

	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	(%)
Lead	250	227	91	250	263	105	14.7
Cadmium	25	24	96	25	25	100	4.08
Chromium	250	251	100	250	267	107	6.18
Arsenic	63	67	106	63	60	95	11.0

	Laboratory Control Sample		
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
Lead	250	251	100
Cadmium	25	24	96
Chromium	250	277	111
Arsenic	63	59	94

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%
ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Tim McCall

teg TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES

CHAIN-OF-CUSTODY RECORD

CLIENT: ATC

ADDRESS: 6347 Seaview Ave. NW, Seattle

PHONE: 206-781-0449 FAX: 206-781-1543

CLIENT PROJECT #: 76,1783,0909 PROJECT MANAGER: Mark Watts

DATE: 11/10/00 PAGE 1 OF 1

PROJECT NAME: Ruth Evans Trust

LOCATION: Federal Way

COLLECTOR: Donna Hewitt DATE OF COLLECTION 11/10

Sample Number	Depth	Time	Sample Type	Container Type	VOA 8010/8021B	VOA 8021B BTEX	VOA 8260	SEMI VOL 8270	TPH - HCID	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (d & o)	PAH 8100	PCBs 8082	Pesticides 8081	TOTAL LEAD	pH	NWTPH-Dx	NOTES	Total Number of Containers	Laboratory Note Number
1. WTP-14	14'		Soil	Glass													X				
2. N-11	11'		"	"													X				
3. EASTSTOCK	-		"	"				X													
4. WESTSTOCK	-		"	"				X													
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					
11.																					
12.																					
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SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

Turn Around Time: 48 hr

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

800 Sleater-Kinney SE, PMB #262
Lacey, Washington 98503-1127

Mobile Environmental Laboratories
Environmental Sampling Services

Telephone: 360-459-4670
Fax: 360-459-3432

November 20, 2000

Mark Watts
ATC Associates
6347 Seaview Ave. NW
Seattle, WA 98107

Dear Mr. Watts:

Please find enclosed the analytical data report for the Ruth Evans Trust Project in Federal Way, Washington. Soil samples were analyzed for Hydrocarbon Identification by NWTPH-HCID and Diesel and Oil by NWTPH-Dx/Dx Extended on November 14, 2000.

The results of these analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to ATC Associates for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec
President

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01114-1
Client:	ATC
Client Job Name:	RUTH EVANS TRUST
Client Job Number:	76.17883.0901

Analytical Results			EAST	WEST
NWTPH-HCID, mg/kg		**MTH BLK**	**STOCK**	**STOCK**
Matrix	Soil	Soil	Soil	Soil
Date extracted	Reporting	11/14/00	11/14/00	11/14/00
Date analyzed	Limits	11/14/00	11/14/00	11/14/00
Gasoline	20	nd	nd	nd
Stoddard solvent/Mineral spirits	20	nd	nd	nd
Kensol	20	nd	nd	nd
Kerosene/Jet fuel	20	nd	nd	nd
Diesel/Fuel oil	50	nd	nd	nd
Bunker C	50	nd	nd	nd
Heavy oil	100	nd	nd	nd
Unidentifiable petroleum products	20	nd	nd	nd
Surrogate recoveries:				
Fluorobiphenyl		95%	95%	94%
o-Terphenyl		90%	92%	91%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
D - detected at or above listed reporting limits
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01114-1
Client:	ATC
Client Job Name:	RUTH EVANS TRUST
Client Job Number:	76.17883.0901

Analytical Results

NWTPH-Dx, mg/kg		MTH BLK	WTP-14	N-11
Matrix	Soil	Soil	Soil	Soil
Date extracted	Reporting	11/14/00	11/14/00	11/14/00
Date analyzed	Limits	11/14/00	11/14/00	11/14/00
Moisture, %				15%
Kerosene/Jet fuel	20	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd
Heavy oil	50	nd	nd	3,400
Surrogate recoveries:				
Fluorobiphenyl		95%	95%	92%
o-Terphenyl		90%	90%	85%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

teg TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES

30.1 25-1

CHAIN-OF-CUSTODY RECORD

CLIENT: ATC

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: PROJECT MANAGER: Mark Watts

DATE: 11/27/00 PAGE 1 OF 1

PROJECT NAME: Ruth Evans Trust

LOCATION: Ruth Evans Trust Pac Hwy / Kelso

COLLECTOR: Donna Hewish DATE OF COLLECTION 11/27/00

Sample Number	Depth	Time	Sample Type	Container Type	VOA 8010/8021B	VOA 8021B BTEX	VOA 8260	SEMI VOL 8270	TPH - HCID	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (d & o)	PAH 8100	PCBs 8082	Pesticides 8081	TOTAL LEAD	pH	NOTES	Total Number of Containers	Laboratory Note Number
1. 112700-01		1430	Soil								X							NWTPH - Dx	1	
2. 112700-02		11	11					X										NWTPH - HCID	1	
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
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SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

24 HR TAT.

Turn Around Time:

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

800 Sleater-Kinney SE, PMB #262
Lacey, Washington 98503-1127

Mobile Environmental Laboratories
Environmental Sampling Services

Telephone: **360-459-4670**
Fax: **360-459-3432**

December 6, 2000

Mark Watts
ATC Associates
6347 Seaview Ave. NW
Seattle, WA 98107

Dear Mr. Watts:

Please find enclosed the analytical data report for the Ruth Evans Trust Project in Federal Way, Washington. One soil sample was analyzed for Diesel and Oil by NWTPH-Dx/Dx Extended, Gasoline by NWTPH-Gx and BTEX by Method 8021B on November 27, 2000.

The results of these analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to ATC Associates for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec
President

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01127-1
Client:	ATC ASSOCIATES
Client Job Name:	RUTH EVANS TRUST
Client Job Number:	0

Analytical Results

NWTPH-Dx, mg/kg		MTH BLK	112700-01
Matrix	Soil	Soil	Soil
Date extracted	Reporting	11/27/00	11/27/00
Date analyzed	Limits	11/27/00	11/27/00
Moisture, %			15%
Kerosene/Jet fuel	20	nd	nd
Diesel/Fuel oil	20	nd	160
Heavy oil	50	nd	nd
Surrogate recoveries:			
Fluorobiphenyl		91%	91%
o-Terphenyl		88%	89%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01127-1
Client:	ATC ASSOCIATES
Client Job Name:	RUTH EVANS TRUST
Client Job Number:	0

Analytical Results

NWTPH-HCID, mg/kg		MTH BLK	112700-02
Matrix	Soil	Soil	Soil
Date extracted	Reporting	11/27/00	11/27/00
Date analyzed	Limits	11/27/00	11/27/00
Moisture, %			15%
Gasoline	20	nd	nd
Stoddard solvent/Mineral spirits	20	nd	nd
Kensol	20	nd	nd
Kerosene/Jet fuel	20	nd	nd
Diesel/Fuel oil	50	nd	nd
Bunker C	50	nd	nd
Heavy oil	100	nd	D
Unidentifiable petroleum products	20	nd	nd
Surrogate recoveries:			
Fluorobiphenyl		91%	90%
o-Terphenyl		88%	87%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
D - detected at or above listed reporting limits
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

800 Sleater-Kinney SE, PMB #262
Lacey, Washington 98503-1127

Mobile Environmental Laboratories
Environmental Sampling Services

Telephone: **360-459-4670**
Fax: **360-459-3432**

December 14, 2000

Mark Watts
ATC Associates
6347 Seaview Ave. NW
Seattle, WA 98107

Dear Mr. Watts:

Please find enclosed the analytical data report for the Ruth Evans Trust Project in Federal Way, Washington. One soil sample was analyzed for Diesel and Oil by NWTPH-Dx/Dx Extended on November 27, 2000.

The results of these analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to ATC Associates for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Vice President

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01127-1
Client:	ATC ASSOCIATES
Client Job Name:	RUTH EVANS TRUST
Client Job Number:	NA
Printed:	12/14/00 12:24

Analytical Results

NWTPH-Dx, mg/kg		MTH BLK	112700-01	112700-02
Matrix	Soil	Soil	Soil	Soil
Date extracted	Reporting	11/27/00	11/27/00	11/27/00
Date analyzed	Limits	11/27/00	11/27/00	11/27/00
Moisture, %			15%	15%
Kerosene/Jet fuel	20	nd	nd	nd
Diesel/Fuel oil	20	nd	160	nd
Heavy oil	50	nd	nd	480
Surrogate recoveries:				
Fluorobiphenyl		91%	91%	89%
o-Terphenyl		88%	89%	87%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

teg TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES

5w1su-10

CHAIN-OF-CUSTODY RECORD

CLIENT: ATC Associates Fence 98107
ADDRESS: 6347 Seaview Ave N.W. Seattle WA
PHONE: 206-781-1949 FAX: 206-781-1543
CLIENT PROJECT #: 76.178 33.0901 PROJECT MANAGER: Mark Watts

DATE: 11/29/00 PAGE 1 OF 1
PROJECT NAME: Ruth Evans Trust
LOCATION: Federal Way, WA
COLLECTOR: Donna Hewitt DATE OF COLLECTION 11/29/00

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES: VOA 8010/8021B	VOA 8021B BTEX	VOA 8260	SEMI VOL 8270	TPH - HCID	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (d & o)	PAH 8100	PCBs 8082	Pesticides 8081	TOTAL LEAD	pH	NWTPH-DX	NOTES	Total Number of Containers	Laboratory Note Number
1. 112900-TP1-13	13'																	X			
2. 112900-TP2-4	4'																	X			
3. 112900-TP2-13	13'																	X			
4.																					
5.																					
6.																					
7.																					
8.			Ruth Evans Trust																		
9.																					
10.																					
11.																					
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[signature]	11-30-00 9:30 am	[signature]	11/30/00

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

RUSH
24HR

Turn Around Time:

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

800 Sleater-Kinney SE, PMB #262
Lacey, Washington 98503-1127

Mobile Environmental Laboratories
Environmental Sampling Services

Telephone: 360-459-4670
Fax: 360-459-3432

December 14, 2000

Mark Watts
ATC Associates
6347 Seaview Ave. NW
Seattle, WA 98107

Dear Mr. Watts:

Please find enclosed the analytical data report for the Ruth Evans Trust Project in Federal Way, Washington. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/Dx Extended on November 30, 2000.

The results of these analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to ATC Associates for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Vice President

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01130-6
Client:	ATC ASSOCIATES
Client Job Name:	RUTH EVENS TRUST
Client Job Number:	76.17833.0901

Analytical Results

NWTPH-Dx, mg/kg		MTH BLK	112900-TP1-13	112900-TP2-4
Matrix	Soil	Soil	Soil	Soil
Date extracted	Reporting	11/30/00	11/30/00	11/30/00
Date analyzed	Limits	11/30/00	11/30/00	11/30/00
Moisture, %			15%	
Kerosene/Jet fuel	20	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd
Heavy oil	50	nd	600	nd
Surrogate recoveries:				
Fluorobiphenyl		91%	89%	89%
o-Terphenyl		87%	86%	86%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01130-6
Client:	ATC ASSOCIATES
Client Job Name:	RUTH EVENS TRUST
Client Job Number:	76.17833.0901

Analytical Results

NWTPH-Dx, mg/kg		112900-TP2-13
Matrix	Soil	Soil
Date extracted	Reporting	11/30/00
Date analyzed	Limits	11/30/00
Moisture, %		
Kerosene/Jet fuel	20	nd
Diesel/Fuel oil	20	nd
Heavy oil	50	nd
Surrogate recoveries:		
Fluorobiphenyl		88%
o-Terphenyl		89%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES

S0121S-3

CHAIN-OF-CUSTODY RECORD

CLIENT: ATC

ADDRESS:

PHONE: FAX:

CLIENT PROJECT #: 76.17883.0902 PROJECT MANAGER: Mark Watson

DATE: 12/15/00 PAGE 1 OF 1

PROJECT NAME: Ruth Evans Trust

LOCATION: Federal Way

COLLECTOR: Donna Heath DATE OF COLLECTION 12/14/00

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES: VOA 8010/8021B	VOA 8021B BTEX	VOA 8260	SEMI VOL 8270	TPH - HCID	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (d & o)	PAH 8100	PCBs 8082	Pesticides 8081	TOTAL LEAD	pH	NOTES	Total Number of Containers	Laboratory Note Number
1. 121400-01	15'		Soil					X												
2. 121400-02	15'							X												
3. 121400-03	16'							X												
4. 121500-04	16'							X												
5. 121500-05	15'							X												
6. 121500-06	15'							X												
7. 121500-07	15'							X												
8. 121500-08	14'		↓					X												
9.																				
10.																				
11.																				
12.																				
13.																				
14.																				
15.																				
16.																				
17.																				
18.																				

HOLD UNTIL Verbal TO PROCEED FROM ATC

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
Donna Heath	12/15/00 1pm	[illegible]	12/15/00
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND./COLD	
NOTES:	

LABORATORY NOTES:

RUSH

24 HR (50%)

Turn Around Time:

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

800 Sleater-Kinney SE, PMB #262
Lacey, Washington 98503-1127

Mobile Environmental Laboratories
Environmental Sampling Services

Telephone: **360-459-4670**
Fax: **360-459-3432**

January 4, 2001

Mark Watts
ATC Associates
6347 Seaview Ave. NW
Seattle, WA 98107

Dear Mr. Watts:

Please find enclosed the analytical data report for the Ruth Evans Trust Project in Federal Way, Washington. Soil sample was analyzed for Hydrocarbon Identification by NWTPH-HCID and Diesel and Oil by NWTPH-Dx/Dx Extended on December 15, 2000.

The results of these analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to ATC Associates for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec
President

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01215-3
Client:	ATC
Client Job Name:	RUTH EVANS TRUST
Client Job Number:	76.17883.0902

Analytical Results			121400	121400	121400	121400	121400
NWTPH-HCID, mg/kg		**MTH BLK**	**01**	**02**	**03**	**04**	**05**
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/15/00	12/15/00	12/15/00	12/15/00	12/15/00	12/15/00
Date analyzed	Limits	12/15/00	12/15/00	12/15/00	12/15/00	12/15/00	12/15/00
Gasoline	20	nd	nd	nd	nd	nd	nd
Stoddard solvent/Mineral spirits	20	nd	nd	nd	nd	nd	nd
Kensol	20	nd	nd	nd	nd	nd	nd
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd	nd
Diesel/Fuel oil	50	nd	nd	nd	D	nd	nd
Bunker C	50	nd	nd	nd	nd	nd	nd
Heavy oil	100	nd	nd	nd	D	nd	nd
Unidentifiable petroleum products	20	nd	nd	nd	nd	nd	nd
Surrogate recoveries:							
Fluorobiphenyl		100%	104%	103%	104%	100%	87%
o-Terphenyl		100%	99%	98%	104%	101%	84%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
D - detected at or above listed reporting limits
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01215-3
Client:	ATC
Client Job Name:	RUTH EVANS TRUST
Client Job Number:	76.17883.0902

Analytical Results		121400	DUPL 121400	121400	121400
NWTPH-HCID, mg/kg		06	06	07	08
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/15/00	12/15/00	12/15/00	12/15/00
Date analyzed	Limits	12/15/00	12/15/00	12/15/00	12/15/00
Gasoline	20	nd	nd	nd	nd
Stoddard solvent/Mineral spirits	20	nd	nd	nd	nd
Kensol	20	nd	nd	nd	nd
Kerosene/Jet fuel	20	nd	nd	nd	nd
Diesel/Fuel oil	50	nd	nd	nd	nd
Bunker C	50	nd	nd	nd	nd
Heavy oil	100	nd	nd	nd	nd
Unidentifiable petroleum products	20	nd	nd	nd	nd
Surrogate recoveries:					
Fluorobiphenyl		88%	87%	87%	87%
o-Terphenyl		86%	85%	86%	84%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
D - detected at or above listed reporting limits
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number:	S01215-3
Client:	ATC
Client Job Name:	RUTH EVANS TRUST
Client Job Number:	76.17883.0902

Analytical Results			121400
NWTPH-Dx, mg/kg		**MTH BLK**	**03**
Matrix	Soil	Soil	Soil
Date extracted	Reporting	12/15/00	12/15/00
Date analyzed	Limits	12/15/00	12/15/00
Moisture, %			15%
Kerosene/Jet fuel	20	nd	nd
Diesel/Fuel oil	20	nd	90
Heavy oil	50	nd	160
Surrogate recoveries:			
Fluorobiphenyl		100%	104%
o-Terphenyl		100%	104%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

APPENDIX C

SITE PHOTOGRAPHS

Photo 1: A view looking north of the northeast corner of the site prior to the UST excavation.

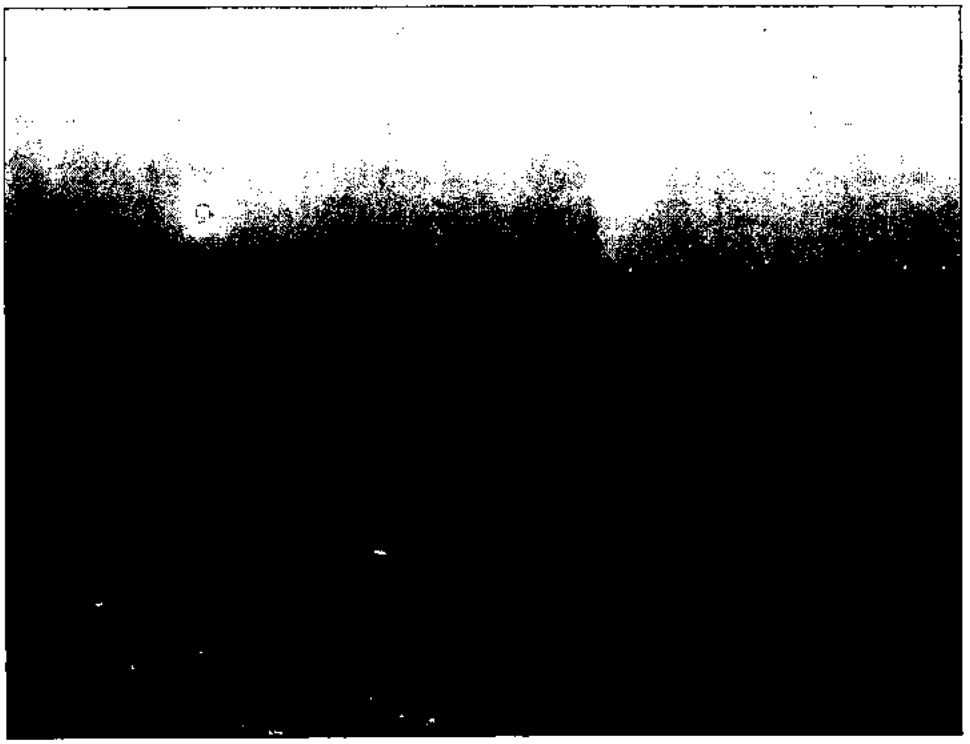


Photo 2: A view the UST excavation after backfilling and compaction.

VATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:76.17883.0902		
DRAWN BY:	MW	FILE: 0902Photos 1-2.VSD
CHECKED BY:	MW	DATE : 2/7/01

SITE PHOTOGRAPHS

UNDERGROUND STORAGE TANK SITE ASSESSMENT
RUTH EVANS TRUST
29805 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WASHINGTON

Photo 3: A view of the approximate location where USTs designated T1 and T2 were removed. Note the presence of the foundation wall on the right.

Photo 4: A view looking north of USTs T1 and T2 on November 3, 2000.

VATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:76.17883.0902		
DRAWN BY:	MW	FILE: 0902Photos 3-4.VSD
CHECKED BY:	MW	DATE : 2/7/01

SITE PHOTOGRAPHS

UNDERGROUND STORAGE TANK SITE ASSESSMENT
RUTH EVANS TRUST
29805 PACIFIC HIGHWAY SOUTH
FEDERAL WAY, WASHINGTON

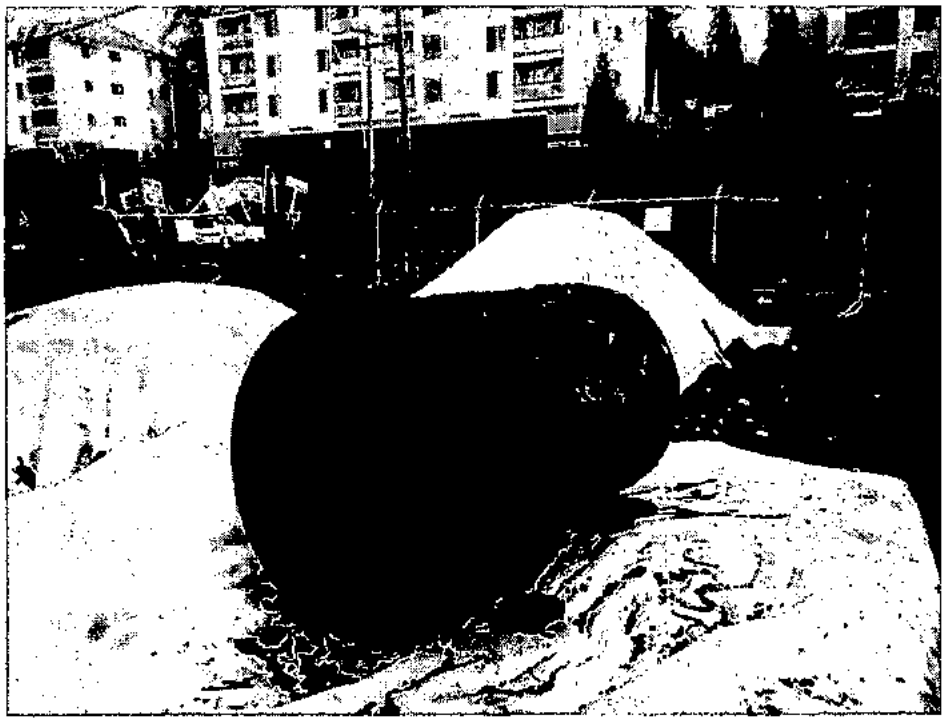


Photo 5: A view of the UST-T3. Photograph taken on November 6, 2000.

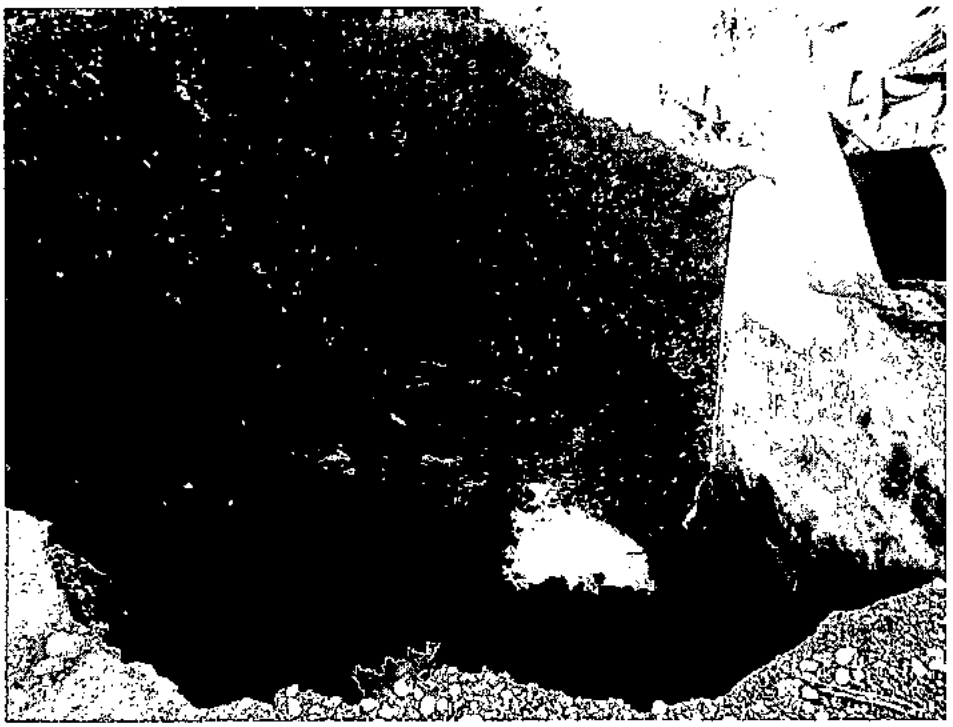


Photo 6: A view looking west of the area below the former location of UST - T3.

VATC ASSOCIATES INC. Solutions For Environmental Concerns			**SITE PHOTOGRAPHS**
PROJECT NO.:76.17883.0902			**UNDERGROUND STORAGE TANK SITE ASSESSMENT**
DRAWN BY:	MW	FILE: 0902Photos 5-6.VSD	**RUTH EVANS TRUST**
CHECKED BY:	MW	DATE : 2/7/01	**29805 PACIFIC HIGHWAY SOUTH**
			FEDERAL WAY, WASHINGTON

APPENDIX D

WASHINGTON DEPARTMENT OF ECOLOGY –
UST SITE ASSESSMENT CHECKLIST

WASHINGTON STATE DEPARTMENT OF ECOLOGY

UNDERGROUND STORAGE TANK TEMPORARY/PERMANENT CLOSURE and SITE ASSESSMENT NOTICE

See back of form for instructions
Please ☑ the appropriate box(es)
Please type or print information

For Office Use Only
Owner #
Site #

☐ Temporary Tank Closure ☒ Permanent Tank Closure ☐ Change-In-Service ☒ Site Assessment/ Site Check

SITE INFORMATION:

Site ID Number (on invoice or available from Ecology if the tanks are registered):

Site/Business Name:

Site Address: 29805 PACIFIC HIGHWAY SO. (Street) Telephone: ( )

FEDERAL WAY (City) WA (State) 98003 (ZIP-Code)

TANK INFORMATION:

Tank ID	Closure Date	Tank Capacity	Substance Stored
T1	11/3/2000	750 gal	gas
T2	11/3/2000	750 gal	gas
T3	11/6/2000	750 gal	gas
	tank could have contained diesel		
	but is unknown		

CONTAMINATION PRESENT AT THE TIME OF CLOSURE

☒ Yes ☐ No ☐ Unknown

Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

UST SYSTEM OWNER/OPERATOR:

UST Owner/Operator:

Owners Signature: Telephone: ( )

Address: (Street) (P.O. Box)

(City) (State) (ZIP-Code)

TANK CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Service Provider: EMERALD SERVICES License Number:

Licensed Supervisor: Decommissioning License Number:

Supervisors Signature:

Address: 7343 E. MARGINAL WAY SO. (Street) (P.O. Box)

Seattle (City) WA (State) 98108 (ZIP-Code)

Telephone: (206) 832-3000

SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Name of Registered Site Assessor: MARK WATTS AND DONNA HEWITT

Telephone: (206) 781-1449

Address: 6347 Seaview Avenue NW (Street)

Seattle (City) WA (State) 98107 (ZIP-Code) (P.O. Box)

ECY 020-34

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

For Office Use Only
Owner #
Site #

INSTRUCTIONS:

When a release has **not** been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with the Department of Ecology. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all the tanks for which the site check and site assessment is being conducted. Use the tank ID number if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/ site assessment.

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): _____

Site/Business Name: _____

Site Address: 29805 Pac Hi So (Street) Telephone: ( ) —

FEDERAL WAY (City) WA (State) 98003 (ZIP-Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
T1		
T2		
T3		

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ____ Investigate suspected release due to on-site environmental contamination.
- ____ Investigate suspected release due to off-site environmental contamination.
- ____ Extend temporary closure of UST system for more than 12 months.
- ____ UST system undergoing change-in-service.
- ____ UST system permanently closed-in-place.
- XXX UST system permanently closed with tank removed.
- ____ Abandoned tank containing product.
- ____ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ____ Other (describe): _____

TANK 1

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

		YES	NO
1.	The location of the UST site is shown on the vicinity map.	MW	
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance)	MW	
3.	A summary of UST system data is provided. (see Section 3.1)	MW	
4.	The soils characteristics at the UST site are described. (see Section 5.2)	MW	
5.	Is there apparent groundwater in the tank excavation?		MW
6.	A brief description of the surrounding land is provided. (see Section 3.1)	MW	
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	MW	
8.	A sketch or sketches showing the following items is provided:		
	- location and ID number for all field samples collected	MW	
	- groundwater samples distinguished from soil samples (if applicable)	MW	
	- samples collected from stockpiled excavated soil	MW	
	- tank and piping locations and limits of excavation pit	MW	
	- adjacent structures and streets	MW	
	- approximate locations of any on-site and nearby utilities	MW	
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	MW	
10.	A table is provided showing laboratory results for each sample collected including: sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	MW	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.	MW	
12.	*The results of this site check/site assessment indicate that a confirmed release of regulated substance has occured.*		MW

SITE ASSESSOR INFORMATION

MARK WATTS (IFCI # 92954) DATE

PERSON REGISTERED WITH ECOLOGY — FIRM AFFILIATED WITH

BUSINESS ADDRESS: 6347 Seaview Ave NW — TELEPHONE: (206) - 781-1449

Seattle — WA — 98107

CITY — STATE — ZIP+CODE

I hereby certify that I have been in responsible charge of performing the site check / site assessment described above. Persons submitting false information are subject to penalties under Chapter 173-360 WAC.

1/02/01

Date

Mark Watts

Signature of Person Registered with Ecology

TANK 2

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

		YES	NO
1.	The location of the UST site is shown on the vicinity map.	MW	
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance)	MW	
3.	A summary of UST system data is provided. (see Section 3.1)	MW	
4.	The soils characteristics at the UST site are described. (see Section 5.2)	MW	
5.	Is there apparent groundwater in the tank excavation?		MW
6.	A brief description of the surrounding land is provided. (see Section 3.1)	MW	
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	MW	
8.	A sketch or sketches showing the following items is provided:		
	- location and ID number for all field samples collected	MW	
	- groundwater samples distinguished from soil samples (if applicable)	MW	
	- samples collected from stockpiled excavated soil	MW	
	- tank and piping locations and limits of excavation pit	MW	
	- adjacent structures and streets	MW	
	- approximate locations of any on-site and nearby utilities	MW	
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	MW	
10.	A table is provided showing laboratory results for each sample collected including: sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	MW	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.	MW	
12.	*The results of this site check/site assessment indicate that a confirmed release of regulated substance has occured.*		MW

SITE ASSESSOR INFORMATION

MARK WATTS (IFCI # 92954) / ATC

PERSON REGISTERED WITH ECOLOGY / FIRM AFFILIATED WITH

BUSINESS ADDRESS: 6347 Seaview Ave NW TELEPHONE: (206) 781-1449

Seattle, WA 98107

CITY / STATE / ZIP+CODE

I hereby certify that I have been in responsible charge of performing the site check / site assessment described above. Persons submitting false information are subject to penalties under Chapter 173-360 WAC.

1/02/08

Date

Mark Watts

Signature of Person Registered with Ecology

TANK 3

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

		YES	NO
1.	The location of the UST site is shown on the vicinity map.	DH	
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance)	DH	
3.	A summary of UST system data is provided. (see Section 3.1)	DH	
4.	The soils characteristics at the UST site are described. (see Section 5.2)	DH	
5.	Is there apparent groundwater in the tank excavation? Perched Seasonal	DH	
6.	A brief description of the surrounding land is provided. (see Section 3.1)	DH	
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	DH	
8.	A sketch or sketches showing the following items is provided:		
	- location and ID number for all field samples collected	DH	
	- groundwater samples distinguished from soil samples (if applicable)	DH	
	- samples collected from stockpiled excavated soil	DH	
	- tank and piping locations and limits of excavation pit	DH	
	- adjacent structures and streets	DH	
	- approximate locations of any on-site and nearby utilities	DH	
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	DH	
10.	A table is provided showing laboratory results for each sample collected including: sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	DH	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.	DH	
12.	*The results of this site check/site assessment indicate that a confirmed release of regulated substance has occured.*	DH	

SITE ASSESSOR INFORMATION

DONNA HEWITT (IFCI # 10447 16-24) ATC

PERSON REGISTERED WITH ECOLOGY — FIRM AFFILIATED WITH

BUSINESS ADDRESS: 6347 Seaview Avenue NW TELEPHONE: (206) 781-1449

Seattle — WA — 98107

CITY — STATE — ZIP+CODE

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173-360 WAC.

12/29/00

Date

Donna Hewitt

Signature of Person Registered with Ecology

#4709 Rental mart
King Co / Fed Way

Underground Storage Tank Removal

Site Assessment /Site Characterization

Gasoline Tank and Dispenser
DOE ID # 006523

NW Unknown when UST/city received report. CR

RECEIVED
JUL 27 1994
DEPT. OF ECOLOGY

Location: Federal Way Rental Mart
29805 Pacific Hwy S
Federal Way, WA 98003

Owner: Bank of California
PO Box 3123
Seattle, WA 98114
Attn: Jan Dimick

Contractor: O'Sullivan Environmental Services
3214 16th Avenue SW
Seattle, WA 98134

Site Assessor: Robert F. Simons
Robert F. Simons
Site Assessor
Nowicki & Associates Inc.
33516 9th Ave S
Federal Way, WA 98003

DEPARTMENT OF ECOLOGY
9/18/94 NWRO/TCP TANKS UNIT
INTERIM CLEANUP REPORT ☐
SITE CHARACTERIZATON ☑
FINAL CLEANUP REPORT ☑
OTHER ☐
AFFECTED MEDIA: SOIL ☑
OTHER GW ☐
INSPECTOR (INIT.) DATE 9-21-94

Excutive Summary

One approximately 5000 gallon gasoline storage tank and dispenser were removed on 2/9/93 from the Federal Way Rental Mart Site. Contamination was found on top of the tank and on the west side of the tank. Tank and contamination were removed on the afternoon of 2/9/93. Lab analysis done on samples taken at the end of the day showed soils at the site to be below Model Toxic Control Act (MTCA) standards for a clean site. Fifty yards of soil was stored next to the excavation site and lab analysis showed this soil to be contaminated. Lead analysis on stockpiled soil showed lead levels to be below MTCA cleanup levels.

Site History and Uses

Light commercial uses are prevelant along Pacifice Highway. A junior high school is located directly behind the property. A warehouse shop is found to the south of Rental Mart. Accross the street to the east and up an

RECEIVED
JUL 27 1994
DEPT OF ECOLOGY

Independent Action Report Update

Site Name: Rebak mart

Inc. #: 4709 Date of Report: undated

County: King Date Report Rec'd: 7-27-94

Reviewed by: J. Hickey

Comments (please include: free prod., tank info., media, contaminant migration, GW conc. trends, PCS treated/fate?):

1 - 5K gallon gasoline tank was removed 2-9-93, and 50 yds^3 of PCS was over-excavated successfully, according to the report. No groundwater was reported to have been encountered. The PCS was treated on-site, then taken away to the Rabanco Transfer station with soils from the later tank removal and cleanup (already in file).

DEPT OF ECOLOGY
UST TANKS UNIT
UST REPORT
REVIEW
REPORT
FAC SCR
CW
DATE

the MTCA cleanup level of 250 PPM.

No groundwater was encountered during excavation.

Approximately 50 yards of stockpiled soil was placed on 6 mil plastic and the pile covered with 6 mil plastic at the end of the work day.

Closure of this site is recommended.

Sample Log

UST Removal - Gasoline

Federal Way Rental Mart

Date Sampled: 2/9/93

Sampler: Robert F. Simons

#	Location	Lab Results
01	Bottom Center of tank	<20
02	East wall of Excavation	<20
03	North wall of excavation	<20
04	Pump island soil from stockpile	1050 PPM
05	West wall at end of day	<20
06	Stockpile, west end	203 PPM
07	Stockpile, east side	43.3 PPM
08	Stockpile, north side	955 PPM
	Lead	73 PPM

Robert F. Simons

Robert F. Simons
Site Assesser
Nowicki & Associates Inc.

SPECTRA Laboratories, Inc.

CHAIN of CUSTODY

DATE 2/9

PAGE 1 OF 1

2221 Ross Way * Tacoma, WA 98421 * (206) 272-4850 * FAX (206) 572-9838

LABORATORY ANALYSES REQUEST

CLIENT: Nowicki

PROJECT: FW Retail Mart

CONTACT: Bob Sievers

PHONE #: 927-5233

PURCHASE ORDER #:

SAMPLE ID	DATE	TIME	MATRIX
01	2/9	5:09	
02			
03			
04			
05			
06			
07			
08			

	624/ 8240 VOLATILES	625/ 8270 SEMI-VOLATILE	8240 CHLOR. SOLVENTS	8240 BTEX	602/ 8020 BTEX	418.1 TPH	WTPH-HCID	WTPH-G	WTPH-D	8015 Mod. TPH	LEAD 7421 (WATER)	LEAD 6010 (SOIL)	pH 150.1	TOX 9020/ 9076	METALS 6010/ AES-0029	METALS AA/FURNACE	METALS (8) (TCLP)	8240 VOL (TCLP)	8270 SEMI-VOL (TCLP)	8270 PEST. (6) (TCLP)	8270 HERB. (2) (TCLP)						NORMAL TURNAROUND	RUSH
01																												
02																												
03																												
04																												
05																												
06																												
07																												
08																												

RETURN

DISPOSE

Fee applies

LAB ID

SPECIAL INSTRUCTIONS / COMMENTS:

1 lead 6/9 Composite

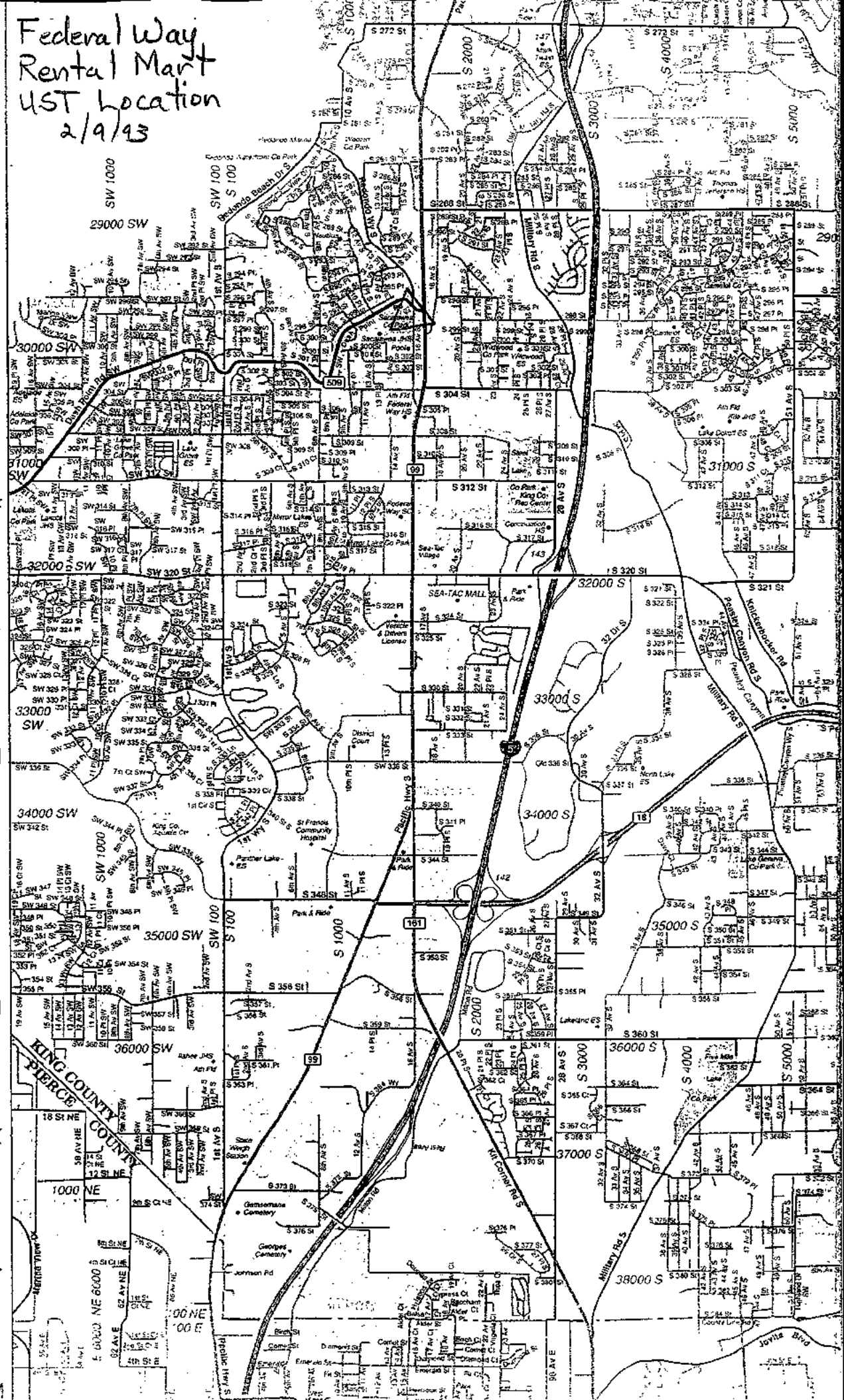
Need early Thursday

2 11

soil high inorganics

(Signature) Relinquished by:	Robert F. Sievers	(Signature) Relinquished by:	(Signature) Relinquished by:
Printed Name:	Robert F. Sievers	Printed Name:	Printed Name:
Company:	Nowicki	Company:	Company:
Date: 2/9	Time: 5:09	Date: Time:	Date: Time:
(Signature) Received by:		(Signature) Received by:	(Signature) Received by:
Printed Name:	Barb Mineer	Printed Name:	Printed Name:
Company:	Spectra	Company:	Company:
Date: 2-9-93	Time: 5:09	Date: Time:	Date: Time:

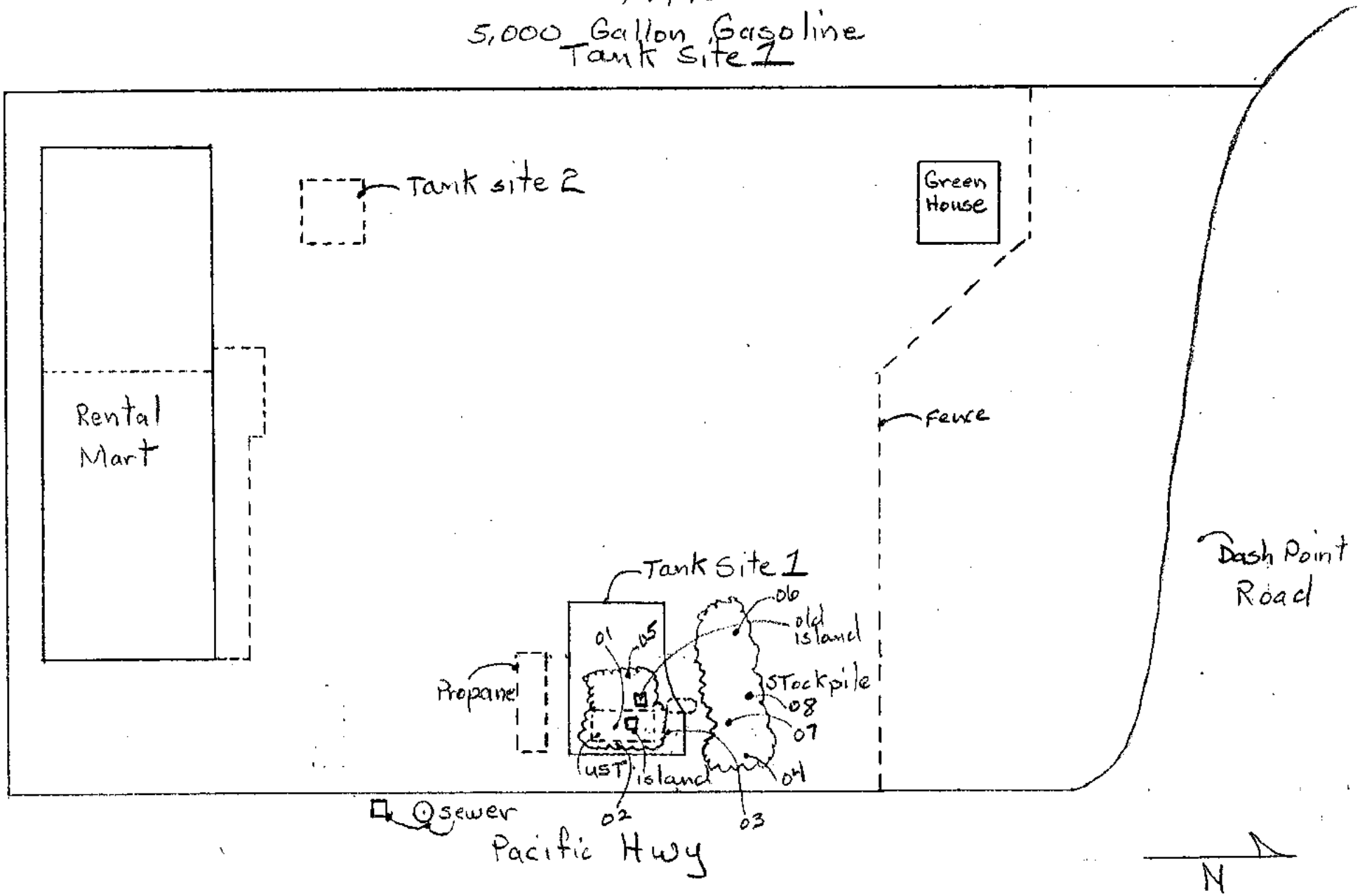
Federal Way
Rental Mart
UST Location
2/9/93

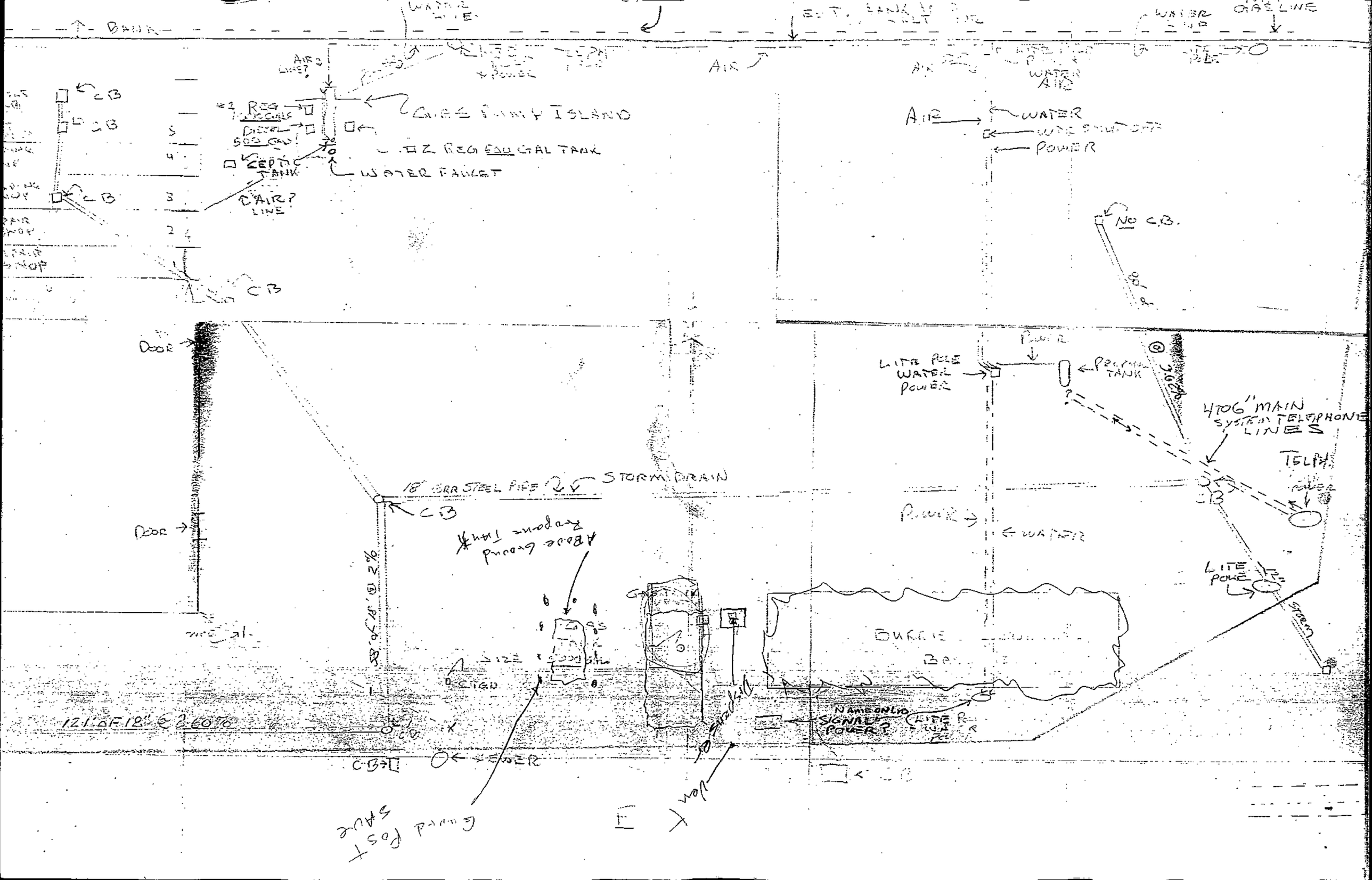


Federal Way Rental Mart UST Removal

2/9/93

5,000 Gallon Gasoline Tank Site 1




DRAIN
WATER LINE
ELEC. LINE + POWER
GAS LINE
AIR
AIR LINE?
CB
REG
DIESEL
500 GAL
SEPTIC TANK
AIR? LINE
GAS FUEL ISLAND
2 REGULAR TANK
WATER FAUCET
WATER
WATER SHUT OFF
POWER
NO C.B.
DOOR
18" CMP STEEL PIPE
STORM DRAIN
LITE POLE
WATER
POWER
PHONE TANK
4"06" MAIN SYSTEM TELEPHONE LINES
TELPH. POLE
LITE POLE
STREAM
BURRIE
BAY
SIGNAL POWER?
LITE POLE
SEWER
12" CMP @ 2.60%
Above Ground Propane Tank
Ground Post Base

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Mr. Bob Simons
Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

RE: FW Rental Mart

Dear Mr. Simons,

Please find enclosed the results for the above referenced project.

If you have any questions or need any further information, please feel free to call any time.

Sincerely,

SPECTRA LABORATORIES, INC.

Mike Minner
Lab Director

Enclosure

SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #01
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0806
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #02
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0807
RUSH

BTEX, EPA Method 8020 Dilution Factor: 1	Date Extracted: 2-10-93 Date Analyzed: 2-10-93 Units: mg/Kg
Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

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Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #03
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0808
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

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Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #04
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0809
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	3.68
Total Xylenes	7.68

WTPH-G, mg/Kg	1,050

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Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #05
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0810
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

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Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #06
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0811
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	0.73
Total Xylenes	4.4

WTPH-G, mg/Kg	203

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Steven G. Hibbs, Chemist

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #07
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0812
RUSH

BTEX, EPA Method 8020 Dilution Factor: 1	Date Extracted: 2-10-93 Date Analyzed: 2-10-93 Units: mg/Kg
Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	0.77

WTPH-G, mg/Kg	43.6

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #08
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0813
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	4.73
Total Xylenes	28.7

WTPH-G, mg/Kg	955

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: Comp. 1,2,3,4,5,6,7,8
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0814
RUSH

Total Lead (Pb), mg/Kg	73

Total Lead testing performed by EPA Method 6010

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample Matrix: Soil
EPA Method: BETX 8020
Sample Spiked: Method Blank
Date Extracted: 2-1-93
Date Analyzed: 2-1-93
Units: mg/Kg
Spectra Project: S302-074
Applies to Spectra #'s
0806 through 0813

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL RESULTS

Compound	Sample Result	Spike Amount Added	Spike Amount Found	% Recovery	Dup. Spike Amount Found	% Recovery	% RPD
Benzene	<0.30	0.88	0.90	103	0.93	106	4
Toluene	<0.30	0.88	0.96	109	0.98	111	2
Ethylbenzene	<0.30	0.88	0.94	107	0.97	110	3
m,p-Xylene	<0.30	1.70	1.67	98	1.73	102	4
o-Xylene	<0.30	0.88	0.96	109	0.97	110	1

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Method: WTPH-G
Sample Matrix: Soil
Spectra Project: S302-074
Applies to Spectra #'s
0806 through 0813

HYDROCARBON ANALYSIS
QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank
Units: mg/Kg

Date Extracted: 2-1-93
Date Analyzed: 2-1-93

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. Recovery	% RPD
Gasoline	<20	51.4	52	101	46.4	90	11

METHOD BLANK

Date Extracted: 2-10-93

Date Analyzed: 2-10-93

WTPH-G, mg/Kg

<20

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

METHOD BLANK
Sample Matrix: Soil
Spectra Project: S302-074
Applies to Spectra #'s
0806 through 0813

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

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SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

METHOD BLANK
Date Analyzed: 2-10-93
Spectra Project: S302-074
Applies to Spectra #0814

Total Lead (Pb), mg/Kg	<4

Total Lead testing performed by EPA Method 6010

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Steven G. Hibbs, Chemist

RENTAL MARTS
Federal Way, K. 29805 Pacific Hyw S

B/C 002741

Department of Ecology - Northwest Regional Office
Underground Storage Tank Notice of Confirmed Release

Incident #: 4709 Date Ecology Notified: 8/26/93 ~~9/1/93~~ - Report Received by: Memasu

UST #: 006523 Incident Reported by: Hazcon Inc. Phone: 763-7364

ERTS #: 13741

Site

Name: Rental Mart
Address: 29805 Pacific Hwy S.
City: Federal Way WA
Zip + 4: 98003
County: King
Phone:
Contact:

Owner

Name: Bank of California
Address: PO Box 3123
City Seattle
Zip + 4: 98114
County: King
Phone: 587-6151
Contact:

Consultant/Other Contacts

Contact Name	Affiliation	Phone	Ext.
O'Sullivan Petr. Equip Co.	Contractor	682-2440	
Paul Riley	Hazcon, Inc.	763-7364	

Affected Media

[X] Soil [ ] GW [ ] DW [ ] SW [ ] Sed.

Free Product?

[ ] Yes [X] No [ ] Excavation? [ ] GW?

Tank Information

	Tank ID	Substance	Status	Status Date	Tank ID	Substance	Status	Status Date
1.	1	Diesel	Removed	6/15/93	6.			
2.					7.			
3.					8.			
4.					9.			
5.					10.			

Cleanup Status: [ ] Assessing [ ] In Progress [ ] Monitoring [X] Conducted [ ] Unknown

Comments (include remediation methods, PCS status, and if this is a "limited" cleanup):

500 gal tank removed.
30 cy soil contaminated; excavation below MTCA standards
Stockpile (490ppm TPH) taken to Rabanco Landfill.

RENTAL MARTS AKA RUTH EVANS TRUST
FEDERAL WAY
TCP/VCP] 29805 PACIFIC HWY S NFA 5/17/01

NW 0623
1993-2001

KLEINFELDER

NW 0623

RECEIVED
MAR 0 8 2001
DEPT. OF ECOLOGY

Phase I Environmental Site Assessment
Vacant Commercial Property
29805 Pacific Highway South
Federal Way, Washington 98003
UBOC File No.: E00-1148-T

Prepared for: Ruth M. Evans Trust
c/o Ms. Cyndy Wagner
Union Bank of California
500 South Main Street, Suite #320
Orange, California 92868

Prepared by: Kleinfelder Inc.
2405 140th Avenue, NE
Suite A101
Bellevue, Washington 98005

Telephone: (425) 562-4200
Facsimile: (425) 562-4201

RECEIVED
MAR 1 3 2001
DEPT. OF ECOLOGY

June 13, 2000

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KLEINFELDER

June 13, 2000
Kleinfelder Project No: 60-208101

Ruth M. Evans Trust
C/o Ms. Cyndy Wagner
Union Bank of California
500 South Main Street, Suite #320
Orange, California 92868

Subject: **Phase I Environmental Site Assessment**
Vacant Commercial Property
29805 Pacific Highway South
Federal Way, Washington 98003
UBOC File No.: E00-1148-T

Dear Ms. Wagner:

Kleinfelder is pleased to present this report of our Phase I Environmental Site Assessment (ESA) of the above-referenced property. We have identified several environmental issues associated with the subject property which we believe will require some level of additional investigations. A detail description of the environmental issues and are recommendations are presented in Sections 6.0 and 7.0 of this report.

We appreciate this opportunity to provide our services to the Ruth M. Evans Trust and Union Bank of California. Should you require additional information or have any questions regarding this report, please contact us at (425) 562-4200.

Sincerely,

KLEINFELDER, INC.

Timothy W. Stott, M.S.
Project Manager

Dennis J. O'Neill, M.S.
Senior Project Manager

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KLEINFELDER 2405 140th Avenue, NE, Suite A101, Bellevue, WA 98005 (425) 562-4200 (425) 562-4201 fax

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1.0 SUMMARY

At the request of Union Bank of California, Kleinfelder has completed a Phase I Environmental Site Assessment (ESA) of the subject property located at 29805 Pacific Highway South in Federal Way, Washington (Figures 1 and 2). The subject property is currently vacant and occupies approximately 1¾ acres. A 6,350 square foot one-story commercial steel building is situated on the southern portion of the subject property (Figure 2). The steel building was previously used as part of an equipment rental facility, with office and maintenance/storage areas located in the eastern and western portions of the building, respectively.

Land use in the site vicinity is mixed commercial and residential. Our review of aerial photographs suggests that the general area of the subject property was rural in character until the 1950s. An additional review of historical information revealed that a combination gasoline station and restaurant was constructed on the eastern portion of the subject property in 1920 and was present until the late 1960s (Figure 3). The number and locations of the underground storage tanks (USTs) associated with this former service station were not disclosed in the historical information. In addition, information regarding the closure of these USTs was not included in the Department of Ecology UST files. Thus, it is not known whether these USTs have been properly closed or if the soils and/or groundwater quality has been impacted from the potential release of petroleum hydrocarbons associated with these USTs.

The existing steel building was constructed in 1970, and has apparently always been an equipment rental business, first as Rental Mart, and later as 40-Rentals beginning in about 1995. A 500-gallon diesel UST and a 5,000-gallon gasoline UST were installed on the subject property as part of the former rental equipment operations. These tanks were removed in 1993. Information presented in the UST closure reports indicated that petroleum-impacted soils were encountered in each UST excavation at concentrations above the Washington State Model Toxics Control (MTCA) Method A cleanup levels. These impacted soils were reportedly stockpiled on-site and subsequently disposed offsite at the Roosevelt Regional Landfill. No evidence of the petroleum-impacted soil affecting the regional groundwater quality was reported. .

During the removal process of the 5,000-gallon gasoline UST previously discussed, a septic tank was observed in the northwest corner of the gasoline UST excavation. No information was

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provided that would indicate whether the septic tank and associated piping was removed or closed in-place.

During our site visit, a drum storage area was observed within the service bay of the building. A total of six 55-gallon drums containing waste oil were located in this area. Evidence of significant petroleum staining was observed on the concrete floor beneath the drum storage area and other locations throughout the service area. Several concrete sumps were observed within the equipment servicing bays and in the asphalt-covered parking lot immediately outside of the service bay (Figure 2). Due to the presence of water in the sumps, the integrity of these sums are unknown; however, evidence of petroleum staining was observed near the sumps. According to Mr. Forte the sumps connect to the storm drain system.

Regarding potential off-site sources of impact, several sites were identified within the specified search distances in our review of regulatory-agency databases. Nearby USTs were also identified. In our opinion none of the identified sites are likely to have impacted the subject property. Furthermore, contamination from such offsite sources (if present) likely does not present an area-wide cleanup liability to the subject property due to Engrossed Senate Bill (ESB) 7900, which provides that the owner of a site that overlies a plume of contaminated groundwater is not strictly liable for that contamination.

To address identified issues we recommend the following:

- Require the recent property tenant to remove and dispose of the drums of waste oil and paints remaining on the subject property in accordance with applicable local, state and federal regulations.
- Complete a geophysical survey of the site in order to further assess the presence of USTs or septic tanks that may be present from the former gasoline station.
- Complete subsurface soil and possibly groundwater sampling in the areas adjacent to the two collection sumps located within the on-site structure, in the location of the former gasoline and diesel tanks removed in 1993, and in the location of the pump dispensers located at the former gasoline station..
- Conduct geophysical and possibly subsurface investigation of an area of concrete pad or patch located in the asphalt parking area on the northwest side of the facility.
- Contract a utility locating firm to confirm that the sumps are connected to the storm water system.

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Kleinfelder's work was performed in accordance with our authorized proposal. Our conclusions and recommendations are discussed more fully in Sections 6.0 and 7.0 of this report. This summary and our report are subject to the limitations presented in Section 8.0 of this report.

2.0 INTRODUCTION

This work was authorized on May 30, 2000 (Log #E00-1148-T) and conducted in accordance with Kleinfelder's Master Service Agreement with Union Bank of California, dated February 22, 2000. The following report is a summary of work performed using the guidelines set forth in American Society for Testing and Materials (ASTM) Standard E-1527-97, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and Union Bank of California Trust or Corporate Real Estate Phase I Environmental Site Assessment.* This report also follows the ASTM Standard's suggested table of contents. Kleinfelder has made minor format modifications to the suggested table of contents to assist in reading and understanding the report findings.

2.1 Purpose of Assessment

Kleinfelder understands that Union Bank of California is interested in identifying site historical practices or activities that may have resulted in soil and/or groundwater contamination at the subject property. The purpose of the Phase I Environmental Site Assessment (ESA) is to evaluate the potential for the presence or likely presence of regulated hazardous or dangerous wastes and/or substances, including petroleum products, under conditions that indicate an existing release, a past release, or a material threat of a release into the structures of the property or into the ground, groundwater, or surface water of the property. In addition to the Phase I ESA workscope, the potential presence of asbestos and lead-based paint were considered for construction materials that were easily accessible and visible (e.g., assessment of the roof, crawl spaces, under-flooring, or areas requiring demolition to access was not performed). The site's "Radon Zone Level" was also reviewed, as was the potential presence of on-site wetlands and critical habitats.

This report describes Kleinfelder's assessment procedures and the information identified. Opinions and recommendations concerning the potential for soil and/or groundwater contamination are presented in Sections 6.0 and 7.0 of this report.

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2.2 Special Terms and Conditions

This report is intended for the sole use of Union Bank of California. Any party other than Union Bank of California or the Ruth Evans Trust who wishes to use this report to identify recognized environmental conditions at this site or surrounding properties shall notify Kleinfelder by executing the "Application for Authorization to Use" included as an attachment to this document. Based on the intended use of this report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by Union Bank of California, Ruth Evans Trust, or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

2.3 Limiting Conditions and Methodology Used

This environmental site assessment follows the methodology set forth in ASTM Standard E-1527-97, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* and *Union Bank of California Trust or Corporate Real Estate Phase I Environmental Site Assessment.*

Please refer to Sections 5.0 and 8.0 of this report for other limitations of this work.

3.0 SITE DESCRIPTION

The following information provides a brief description of the subject property. Figure 1 presents a site vicinity map, and Figure 2 presents site plan. Figure 3 presents areas of environmental concern associated with the previous site activities. Additional site-description information was obtained during the site visit and through interviews. Please refer to the appropriate sections of the report that cover this information.

3.1 Location and Legal Description

The subject property is situated at the southwest corner of Pacific Highway South and Dash Point Road at 29805 Pacific Highway South in Federal Way, Washington (Figure 1). The subject property is currently vacant and occupies approximately 1¾ acres. A 6,350 square foot one-story steel building is situated on the southern portion of the subject property (Figure 2). The steel building was previously used as part of an equipment rental facility, with office and maintenance/storage areas located in the eastern and western portions of the building, respectively. The subject property is bounded to the north by Dash Point Road, to the west by 16th Avenue South, to the east by Pacific Highway South, and to the south by a motel. Land use in the site vicinity is mixed commercial and residential.

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The legal description and tax identification number of the property were obtained from the King County Assessor's Office, and is included in Appendix A. Archive information indicates that the address of the former gasoline station/restaurant located on the subject property was 29651 Pacific Highway South.

3.2 Geologic Setting

Review of the U.S. Geologic Survey (USGS) topographic map for the Poverty Bay Quadrangle (USGS, 1961) indicates that the property is located at an elevation of approximately 400 feet above mean sea level (MSL). The nearest large surface water body is Puget Sound, located approximately 1-mile northwest of the subject property. The topography in the vicinity of the property slopes to the northwest.

The Puget Sound area has been glaciated numerous times over the last several hundred thousand years. The most recent of these events was the Vashon Stade of Fraser Glaciation. The subject site and its vicinity are situated within semi- and unconsolidated materials, deposited during the Vashon Stade of Fraser Glaciation which occurred approximately from 15,000 to 12,000 years ago (Griffin, et al, 1962). The glacial deposits of the Vashon Drift include dense, compact till and various types of glacial outwash.

The shallowest water-productive aquifer within the subject property belongs to Vashon recessional outwash unit, which consist mostly of sand and gravel. The groundwater was encountered at approximately 45 feet below ground surface (bgs) in the well, located approximately 1.2 miles south of the subject property. The lower boundary of Vashon recessional outwash is the top surface of Vashon till, very compact and cemented mixture of fine- and coarse-grained sediments. Ground water in the Vashon recessional outwash, as well as uncontrolled surface water, follow the land-surface gradient; water moves from high-altitude areas towards stream valleys. It can be expected that the water within the site and its vicinity flow toward the Puget Sound, to the northwest. It should be noted that perched groundwater conditions are frequently encountered in shallow soils throughout the Puget Sound area. No regional groundwater impairments are known to exist in the area.

3.3 Environmental Liens

No environmental liens are known to be present against the property. However, Kleinfelder did not have access to a chain-of-title to confirm or dispute our understanding.

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4.0 RECORDS REVIEW

Public agency and company records are sources of information that may be helpful in evaluating activities that may have contributed to contamination of soil and/or groundwater. The following agencies, companies, and individuals were contacted for information regarding the subject property:

- Walker and Associates, Aerial Photographs;
- VISTA Information Solutions, Inc. (VISTA) Report, May 10, 2000;
- Federal Way Fire Department;
- King County Library, Seattle Main Branch - Polk Reverse Telephone Directories, Sanborn Fire Insurance Maps, Kroll City Maps, Metsker's Atlases;
- King County Assessor's Office;
- Mr. Lee Forte, proprietor of 40-Rentals;
- King County Regional Archives;
- Federal Way Building Department; and
- Washington Department of Ecology, Northwest Regional Office.

4.1 Federal Environmental Record Sources

The following information was obtained from regulatory-agency databases and listings. Search distances were those specified in the ASTM standard.

As part of a government database search completed by VISTA Information Solutions (VISTA), the following federal database records were searched as required by ASTM: the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), Emergency Response Notification System (ERNS), National Priority List (NPL), and the Resource Conservation and Recovery Act (RCRA) Information System (RCRIS) including the Corrective Action Report (CORRACTS), listing of hazardous waste treatment, storage, and disposal facilities (TSDs), and large- (LG GEN) and small-quantity (SM GEN) generators of hazardous waste. Appendix B contains a copy of the complete VISTA report. The dates of the database information are also identified in the VISTA report. Please note that the VISTA report may include search results for several databases not discussed in this report. Kleinfelder's review of the VISTA report focused on the most significant database information, inclusive of the information specified for review in the ASTM standard. The following summaries contain information from the VISTA search. In general, listed sites with known contamination and in close proximity to the subject site are discussed.

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4.1.1 Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)

CERCLIS is a database of information concerning sites that have come to the Environmental Protection Agency's (EPA) attention as having potential contamination significant enough to be addressed under the Superfund program. CERCLIS contains sites that either are proposed for, or on, the National Priorities List (NPL). Also included are sites that are in the screening and assessment phase for possible inclusion on the NPL.

> The subject property was not identified on the CERCLIS. However, King County Redondo Oil Pit, located approximately 0.03-mile west of the subject property at SR 509 and 16th Avenue South was listed in CERCLIS. A Preliminary Assessment and a Screening Site Assessment of the site were completed by EPA, after which no further action is planned. This site also appears on the State SCL with a slightly different address and name (as discussed in Section 4.2, below). This is the current location of Sacajawea Park. This site is not considered a concern for the subject property because it is expected to be hydraulically cross-gradient from the subject property, and is apparently not considered a priority concern for EPA or the Washington Department of Ecology.

4.1.2 Federal National Priorities List (NPL)

The NPL list (i.e. Superfund list) is a compilation of CERCLIS properties with the highest priority for cleanup pursuant to EPA's Hazard Ranking System.

> Neither the subject property nor any site within a mile of the subject property was identified on the NPL.

4.1.3 Federal Resource Conservation and Recovery Act (RCRA) Information System (RCRIS) and Corrective Action Report (CORRACTS) Database

The RCRIS database contains information about facilities registered with EPA as hazardous waste generators, transporters, storage, or disposal facilities. Note, however, that being registered with EPA has a hazardous waste handler does not in itself mean that any hazardous materials have been improperly managed. The CORRACTS Database identifies those sites that are listed by the EPA as hazardous waste handlers with RCRA corrective action activity.

> Neither the subject property nor any site within a mile of the subject property was identified in RCRIS or CORRACTS.

4.1.4 Generators of Hazardous Waste

As previously discussed, the RCRIS database contains information about facilities registered with EPA as hazardous waste generators. Large-quantity generators (LG GEN) are those that

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generate at least 1000 kilograms per month (Kg/month) of non-acutely hazardous waste, or 1 Kg/month of acutely hazardous waste. Small-quantity generators (SM GEN) generate less than the threshold quantities for being classified as large-quantity generators. Note, however, that being registered with EPA has a hazardous waste generator does not in itself mean that any hazardous materials have been improperly managed.

> Neither the subject property nor any site within a mile of the subject property was identified as a hazardous waste generator.

4.1.5 Federal Emergency Response Notification System (ERNS)

ERNS identifies those sites that are listed under the EPA's emergency response notification systems list of reported CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity. This list is maintained by the National Response Center. Notification requirements for such releases or spills are codified in Chapter 40 of the Code of Federal Regulations (CFR) parts 302 and 355.

> Neither the subject property nor any site within a mile of the subject property was identified in ERNS.

4.2 State Environmental Records Reviews (Washington State Department of Ecology)

As part of a government database search completed by VISTA, the following state database records were searched as required by ASTM: the Confirmed & Suspected Contaminated Sites List (CSCSL) List including the Hazardous Sites List (HSL), Leaking Underground Storage Tank (LUST) List, the Underground Storage Tank (UST) Database, and the Solid Waste Facility (SWF) Database. Appendix B contains a copy of the complete VISTA report. The dates of the database information are also identified in the VISTA report. Please note that the VISTA report may include search results for state databases not discussed in this report. Kleinfelder's review of the VISTA report focused on the most significant database information, inclusive of the information specified for review in the ASTM standard. The following summaries contain information from the VISTA search.

4.2.1 Confirmed and Suspected Contaminated Sites List (CSCSL) and Hazardous Sites List (HSL)

The Washington Department of Ecology (Ecology) CSCSL is the states' equivalent to CERCLIS. Confirmed contaminated sites are referred to in the VISTA report as State Priorities List (SPL) sites. Suspected contaminated sites as referred to simply as SCL. Sites being addressed by the Washington State Department of Ecology's Toxics program are listed in the

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TOXICS Database. The HSL is a subset of the CSCSL Report that includes sites that have been assessed and ranked using the Washington Ranking Method (WARM).

The subject property was not identified on the SPL, SCL, but was identified in the TOXICS database, and on the LUST and UST lists. Two USTs were removed from the subject property in 1993; a 500-gallon diesel tank and a 5,000-gallon gasoline tank. At the time of removal, soil contamination associated with the gasoline tank was discovered. The contaminated soil was reportedly excavated at the time of tank removal, and the site is reported cleaned up in the LUST database. The UST removal reports for these tanks were obtained from the Washington Department of Ecology and will be discussed later in this report.

Redondo Oil Pit King County, located approximately 0.03-miles west of the subject property at the intersection of 16th Avenue South and Southwest Dash Point Road is identified in the SCL. This site was discussed in Section 4.1 because it was identified in CERCLIS, but where no further remedial action is planned. As previously discussed, this site is not considered a concern for the subject property because it is expected to be hydraulically cross-gradient from the subject property, and is apparently not considered a priority concern for EPA or the Washington Department of Ecology.

Two sites, one within 1/8-mile and another within ½-mile of the subject property were also identified in TOXICS.

1. Unocal #6227, located within 100 yards north of the subject property at 29625 Pacific Highway South (the site of the present-day Shell station) is listed in TOXICS, and under the name of 509 Deli Town Pump on the LUST and UST lists. Soil affected by petroleum release from USTs at the site has reportedly been cleaned up. The UST and LUST files for this site were requested from the Washington Department of Ecology, however Ecology could not locate the files for our review. Nevertheless, this site is not considered a concern for the subject property because it is expected to be hydraulically down-gradient of the property, has reportedly been cleaned up, and only soil was reportedly affected.

2. Texaco #004479, located approximately 0.47-miles north of the subject property at 28806 Pacific Highway South, is listed in TOXICS, and on the LUST and UST lists. Soil contamination at the site has reportedly been cleaned up. The site is not considered a concern for the subject property because it is relatively distance from the subject property, has reportedly been cleaned up, only soil was reportedly affected, and because the site is expected to be hydraulically down-gradient of the subject property.

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4.2.2 Leaking Underground Storage Tanks (LUST) List

The subject property (under the name of Rental Mart) as well as two other sites were identified in the LUST database. All three sites are also listed in other databases and were previously discussed.

Two USTs were removed from the subject property in 1993. Contaminated soil was found to be associated with one of the tanks, which was reportedly excavated at the time of tank removal.

The two other sites identified in the LUST database include the 509 Deli Town Pump, now the site of the Shell station located on the north side of Dash Point Road across from the subject site, and Texaco #004479, located at 28806 Pacific Highway South. As previously discussed, neither of these two sites are considered a concern for the subject property because they are reported cleaned up, only soil was affected, and/or they are expected to be either cross- or down-gradient of the subject property.

4.2.3 Registered Underground Storage Tank (UST) Database

The subject property is listed in the UST Database under the name of Rental Mart. The database information lists four tanks; two closed in place, and two removed. However, this information is apparently in error. Each of the two tanks removed in 1993 is likely listed twice in the database, once as closed in place, and once as removed. The size of the tanks and age in each case is repeated among corresponding listings for closed in place and removed. It should be noted, that tanks that were likely associated with the former gasoline station on the property would not be expected to be listed in the UST database because the station was demolished prior to 1970, prior to UST notification requirements, and prior to the formation of the Washington Department of Ecology.

509 Deli Town Pump, now the site of the Shell station located on the north side of Dash Point Road across from the subject site, was also identified in the UST Database. In addition to three USTs previously removed from the site, there reportedly four USTs still in service at the Shell station.

4.2.4 State Landfill and/or Solid Waste Disposal Site Database (SWF)

VISTA's review of Ecology's SWF Database did not identify that any state landfills and/or solid waste disposal sites were located within 0.5 mile of the subject property.

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4.3 Historical Use Information

The following information was obtained from reviewed sources of historical information and interviews.

4.3.1 Polk City Directories

No historical Polk City directories with coverage of this area of Federal Way area are available

4.3.2 Sanborn Fire Insurance Maps

No Sanborn Fire Insurance maps are available for the subject property or surrounding areas.

4.3.3 Kroll Maps and Metsker's Atlases

We reviewed Kroll and Metsker's Atlases covering the area of the subject property at the Seattle Library. A Kroll Map dated 1926 depicts the subject property simply as Lots 33 and 35. The area of the present-day park located several hundred yards west of the subject property is labeled as "King County". This is the site which shows up in several agency databases as Redondo Oil Pit King County.

4.3.4 Federal Way Fire Department

We contacted the Federal Way Fire Department (under the present address and the address of the former service station) regarding any fires, hazardous materials storage incidents, or information concerning USTs associated with the subject property under the current address and the address of the former service station. The Department responded that 40 Rentals had maintained a permit for the storage of flammables and combustibles for several years. The Department also has record of a 5,000 gallon gasoline and 500 gallon diesel tanks present at the property as of 1992. The diesel tank was removed in 1993 according to Department records. No records of any fires or hazardous material incidents were found.

4.3.5 Federal Way Building Department

We contacted the Federal Way Building Department concerning any building plans or permits on file for the subject property (under the present address and the address of the former service station) We were provided with a copy of a UST removal permit for the 5,000 gallon gasoline UST, and brief field notes completed by the Fire Marshal upon removal of the 500 gallon diesel UST. No other records concerning the subject property are on file with the Department. According to Tom Noble of the Department, the subject property was likely not incorporated into the City of Federal Way when the Rental Mart was constructed in approximately 1970.

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4.3.6 Washington Department of Ecology, Northwest Regional Office

We requested copies of files pertaining to the subject property (under the present address and the address of the former service station) and the Shell Station located at 29625 Pacific Highway South (on the north side of Dash Point Road across from the subject property) from the Northwest Regional Office of Ecology. Copies of UST Site Assessment Reports and supporting information for the 500-gallon diesel and 5,000-gallon gasoline USTs removed from the subject property were obtained, and are provided in Appendix C. Ecology indicated that they had log records of having UST and LUST files pertaining to the Shell Station (AKA: Unocal and/or 509 Deli Town Pump); however, the files could not be located for our review. Note that it is not anticipated that Ecology would have any information concerning USTs that were likely associated with the former service station located on the subject property because the station was demolished prior to UST notification requirements and before Ecology was formed. Furthermore, as previously discussed in Section 4.2.3, we believe Ecology only has information on the two USTs removed from Rental Mart in 1993, and that the UST Database erroneously lists two other USTs as being closed in place on the subject property.

In February 1993, a 5,000-gallon gasoline UST and pump dispenser unit were removed from the eastern portion of the subject property as shown on Figure 3(Nowicki & Associates, 1993). The tank was located on the eastern side of the property, roughly 50 yards north of what was at that time the Rental Mart building. The tank was reportedly installed in 1970 when the Rental Mart was constructed, and had been used for fueling of equipment at the Rental Mart store. At the time of removal, petroleum-impacted soil was found above the tank (the pump dispenser was situated above the tank) and on the western side of the tank excavation. Approximately 50 cubic yards of petroleum-impacted soil was over-excavated, and confirmatory sampling indicated the excavation to be clean. The petroleum-impacted soils were removed and disposed of at Roosevelt Regional Landfill. Post-excavation soil samples indicated that the MTCA Method A cleanup levels were met.

During removal of the gasoline tank, a septic tank and previously abandoned petroleum product piping were encountered. The septic tank was located immediately northwest of the gasoline tank, and the product piping was located west of the gasoline tank (Figure 3). Conjecture in the UST removal report suggests that the septic tank and abandoned product piping was associated with the former gasoline and tire service station that had previously been located on the site (perhaps more accurately, a service station and restaurant based on King County Archive records). The report fails to indicate whether the septic tank and product piping were left in

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place or removed. The report also mentions a warehouse shop being present south of the subject property, the building that is today a motel. A former service station is described as being present on the north side of Dash Point Road at the location of the present-day Shell Station. This is likely the Unocal/509 Deli Town Pump identified in several agency databases.

In May 1993, a 500-gallon diesel UST and an associated pump dispenser situated over the tank were removed from the subject property (Hazcon, 1993). The tank was located approximately 35 feet north of the west end of the Rental Mart building, and was used to store diesel fuel for fueling of equipment. The UST site assessment report indicates that the tank was installed in 1965, which predates the construction of the Rental Mart facility (constructed in 1970). Analysis of composite samples collected from the limits of the UST excavation found the excavation to be clean (i.e. concentrations below the Method A Cleanup Levels specified in Ecology's Model Toxics Control Act). However, the stockpile of excavated soil was found to contain diesel concentrations above the Method A Cleanup Levels, and the material was disposed of as petroleum-impacted soil at Roosevelt Regional Landfill.

4.3.7 King County Assessor's Office and Regional Archives

A Kleinfelder representative reviewed the tax records and property information for the subject property at the King County Assessor's Office. Assessor's records indicate that the structure currently present on the subject property was constructed in 1970. The taxpayer is reported as Union Bank of California.

Historic tax records were obtained from the King County Regional Archives. The historical records indicate that combination gasoline station and restaurant was formerly present on the eastern side of the subject property, along Pacific Highway South. The facility was constructed in 1920, utilized stove heating, and included several fuel dispensers located immediately east of the southern end of the building. A photograph from 1938 shows a Mobil service station, and a sketch of the layout of the building shows the pump dispensers immediately east of the southern side of the building. The structure was demolished in 1969. As previously mentioned, copies of information obtained from the Assessor's Office and Regional Archives is provided in Appendix A.

4.3.8 Aerial Photograph Review

A review of historical aerial photography may indicate past activities at a property that may not be documented by other means, or observed during a property visit. The effectiveness of this technique depends on the scale and quality of the photographs and the available coverage.

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Aerial photographs were obtained from Walker and Associates of Seattle, Washington. The following is a tabulation of information concerning the aerial photographs reviewed:

Date	Flight #	Scale	Color	Stereo
1936	A36	1" = 1000'	No	Yes
1946	A46	1" = 1000'	No	Yes
1960	KC-60	1" = 1000'	No	Yes
1969	KC-69	1" = 1500'	No	Yes
1974	KC-74	1" = 1500'	No	Yes
1980	SC80A	1" = 1500'	No	Yes
1985	SKP-85	1" = 1500'	No	Yes
1990	KC-90	1" = 1000'	Yes	Yes
1997	Kisk-97	1" = 2000'	Yes	Yes

1936 A structure (former gasoline and tire service facility) is present on the eastern side of the subject property along Pacific Highway South. An apparent residence is present north of the subject property on the immediate north side of Dash Point Road. What appears to be quarry activity is occurring a short distance west of the subject property in the location of a present-day park. The general area is rural in character.

1946 The subject property and immediate area appear as in the 1936 photographs.

1960 The subject property and immediate area appear as in the 1936 and 1946 photographs. Scattered residential development has occurred in the vicinity, which no longer appears rural in character.

1969 The subject property and immediate area appear as in the 1960 photograph.

1974 The structure formerly present on the subject property has been demolished, and the currently-day structure is present. Other than the area of the structure on the property, the lot has been cleared of brush and trees but has not been paved. An apparent commercial structure is present on the immediate north side of Dash Point Road across from the subject property, likely the Unocal Station identified in agency databases.

1980 The lot on the subject property is now paved. A park is now present west of the subject property in the area which appeared to previously be a quarry. Land clearing has occurred south of the subject property on the site of the present-day motel.

1985 The subject property and immediate area appear as in the 1980 photograph. The motel is now present immediately south of the subject property.

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1990 An awning or elevated cover is present along the western boundary of the lot on the subject property. An apartment building has been constructed on the east side of Pacific Highway South across from the subject property.

1997 The subject property appears as present. The Shell Station has now been constructed on the north side of Dash Point Road across from the subject property.

Note: Aerial photographs only provide information on indications of land use and no conclusions can be drawn from the photographs alone.

5.0 SITE RECONNAISSANCE AND INTERVIEWS

Kleinfelder's assessment activities included personal on-site and telephone interviews, and a property visit. This section summarizes the findings from the site visit, and interviews.

On May 16, 2000, an Environmental Scientist (Tim Stott) from Kleinfelder visited the subject property. During the site visit, the Kleinfelder representative was accompanied by Mr. Lee Forte, proprietor of 40-Rentals. The purpose of the visit was to look for visual indications of possible soil and/or groundwater contamination resulting from past or current site use. The site visit included a visual review of the property for indications of activities such as waste storage and disposal, storm drainage, underground and aboveground storage tanks, and hazardous-material storage or use areas. Observed conditions are described below. Photographs taken during the site visit are provided in Appendix D.

Mr. Forte indicated that he was aware that a UST had been removed from the site when it was operated by Rental Mart. Concerning hazardous materials used at 40 Rentals, Mr. Forte explained that small quantities of kerosene for retail sale were stored outside of the rental building in the approximate location of the former diesel UST (removed in 1993). Mr. Forte also stated that an above-ground propane tank had previously been along the eastern side of the property, several hundred feet north of the rental building. Waste oil was occasionally generated during maintenance of rental equipment, that according to Mr. Forte, was picked up by a waste oil recycling company. The waste oil was stored in the western site of the service bay in 55-gallon drums. Mr. Forte stated that he was not aware of any environmental liens associated with the subject property, or contamination on the subject property.

Two collection sumps were observed in the floor of the service bays in the on-site structures (Figure 2). Two more similar sumps were located on the exterior of the building, one on the north side and one on the west side. One of the collection sumps is located within a few feet of

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an area of hazardous material storage (used oil, paint, and wax stripper, see Section 5.2) that contained six 55-gallon drums of waste oil. An approximate 50 square-foot area of dark staining was observed on the concrete floor adjacent to the hazardous materials storage area (Drum Storage Area, Figure 2). The concrete of the floor and sump was observed to be cracked in several places. Upon closer inspection, one of the sumps was found to be full of water exhibiting a slight hydrocarbon sheen. According to Mr. Forte, the sumps are connected to the storm water system. Exit piping could be observed in one of the sumps.

Several storm drains were observed in the asphalt parking lot. A concrete pad, approximately 50 square feet in size, was observed on the northwest side of the lot. Mr. Forte said the pad dated from when the facility was operated as Rental Mart, and he did not know the purpose of the pad. The construction of the pad is consistent with concrete patching, or for supporting material storage.

5.1 Physical Setting Analysis

The subject property consists of a rectangular-shaped parcel of land approximately 23,522 square feet in size, which includes a single-story with mezzanine steel structure approximately 6,350 square feet in size (Figure 2). The subject property is located in a mixed commercial and residential area of Federal Way. The subject property is bound to the north by Dash Point Road, to the west by 16th Avenue South, to the east by Pacific Highway South, and to the south by a motel. The property is generally flat, with an embankment present along the western boundary below 16th Avenue South.

Heating is provided by electric baseboard heating in the office areas of the structure and electricity is provided by Puget Sound Energy. Water and sanitary sewer service is provided by Lakehaven Utility District. Runoff is directed to storm drains located in the asphalt paved parking lot, and within the service bays of the on-site structure. Utility service was apparently provided when the facility was constructed in approximately 1970. No open ditches or drainage culverts were observed on the property.

The subject property is entirely developed as a commercial business, and no wetlands or critical habitats are present on the property.

5.2 Hazardous Substances in Connection with Identified Uses

Several potentially hazardous substances were identified on the subject property during the site visit. Six 55-gallon drums of used oil were observed within a secondary containment pallet in a

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service bay on the western side of the 40 Rentals Building, and an approximate 50 square-foot area of dark petroleum staining was observed on the concrete floor adjacent to the drums. Approximately six 5-gallon buckets of paint, a 5-gallon bucket of wax stripper, and several gallon cans of paint were also observed in this location. According to Mr. Forte, he plans on having these materials removed.

Two collection sumps were observed in the floor of the service bays. One of the collection sumps is located within a few feet of the hazardous materials and area of floor staining. As previously mentioned, the concrete of the floor and sump was observed to be cracked in several places. Upon closer inspection, one of the sumps was found to be full of water exhibiting a slight hydrocarbon sheen. According to Mr. Forte, the sumps are connected to the storm water system. Exit piping could be observed in one of the sumps.

5.3 Storage Tank Information

As previously mentioned, two USTs are known to have previously existed on the subject property associated with the Rental Mart. A septic tank is also known to have existed on the property, and this septic tank may still be present. Underground storage tank(s) were likely associated with the former service station located on the property, and despite conjecture in one of the reports written when a UST was removed from the Rental Mart, such tanks may still be present on the property. No above-ground storage tanks or evidence of USTs, such as vent or fill lines, were observed during our site visit.

5.4 Indications of Polychlorinated Biphenyls (PCBs)

A number of fluorescent light fixtures are present within the on-site structure. The electrical ballasts associated with these fixtures potentially contain PCBs. When these light fixtures are removed, any oil-filled electrical ballasts or other electrical equipment should be segregated, inspected and/or tested for PCBs, and properly disposed of.

No transformers were observed on the subject property.

5.5 Indications of Solid Waste Disposal

We did not observe any indication of improper disposal of solid waste on the property.

5.6 Other Conditions of Concern

Presented below is a listing of other issues reviewed as part of this assessment.

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5.6.1 Asbestos and Lead Paint

Several suspect asbestos-containing materials were observed in the on-site structure during our site visit, including: "popcorn" textured ceiling, floor tile, and the interior wallboard system. All suspect materials appeared to be in good condition in an intact state, and in our opinion, do not present a health risk in their current condition. However, the Puget Sound Clean Air Agency requires that an asbestos survey be completed by an accredited inspector, and any identified asbestos-containing materials be abated from structures prior to demolition, or re-modeling activity that may disturb the materials.

Based on the age of the on-site structure (constructed in 1970), the presence of lead-based paint is suspect. All painted surfaces generally appeared in good condition during our site visit with little pealing or chipping, and in our opinion, the paint does not present a health risk in such non-residential scenarios. Contractors or others who may come in contact with potential lead-based paint should be notified of the potential presence of lead and be advised to follow applicable occupational health and safety regulation.

5.6.2 Radon Information

Radon is a naturally occurring gas produced by the radioactive decay of uranium and thorium. Adverse health effects can occur when radon migrates from underlying soils or concrete and accumulates inside structures. The EPA has established a radon concentration of 4.0 pico-Curies per liter (pC/l) of air as an "action level" beyond which abatement measures are recommended.

The Puget Sound region of Washington, and the subject site, are underlain by glacially-deposited soils which contain very low concentrations of radon-forming minerals. In 1993, the Washington Department of Health published a listing of radon measurements indicating a state-wide average of 1.0 pC/l, and a King County average of 0.60 pC/l (Washington Department of Health, 1993). Furthermore, the United States Environmental Protection Agency (EPA) has identified King County as having a "Average Radon Potential" (<2pC/liter). Based on this information, it is considered unlikely that radon levels on the site exceed the EPA's 4.0 pC/l action level especially because there are no basement areas. However, Kleinfelder did not collect samples during this assessment to prove or dispute this expectation.

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6.0 FINDINGS AND CONCLUSIONS

The following conclusions are based on Kleinfelder's knowledge of the subject property from our site observations and information gathered during our review. These conclusions are subject to the limitations presented at the end of this report, and may change if additional information becomes available.

Kleinfelder has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 and Union Bank of California's scope of work. Any exceptions to, or deletions from, this practice are described in Section 2.3 of this report. This work was authorized on May 30, 2000 (Log #E00-1148-T) and conducted in accordance with Kleinfelder's Master Service Agreement with Union Bank of California, dated February 22, 2000.

6.1 Identified On-site Issues

Several recognized environmental conditions were identified in our review of the site, in particular, the former presence of the gasoline and tire service station from 1920 until about 1969. There is the potential that a UST(s) and a septic tank associated with this former business may still exist on the property. Furthermore, there is the potential for soil and groundwater contamination to be present from the former fueling operations and handling.

Six drums of waste oil and a small quantity of paint and wax stripper remain in the rental building.

A 500-gallon diesel UST and a 5,000-gallon gasoline UST were removed from the equipment rental business in 1993, one of which was found to have released gasoline (although all soil contamination was reportedly excavated at the time of removal). Post-excavation soil samples indicated that the MTCA Method A cleanup levels were met. No evidence of the petroleum-impacted soil affecting the regional groundwater quality was reported. Petroleum impacted stock piled soils were transported off site to Roosevelt Regional Landfill for proper disposal.

Various hazardous materials and waste oil containers were observed in the service bays during our site visit, and staining of the concrete floor was also observed in this area. Several runoff collection sumps were observed within the equipment servicing bays of the on-site structure, and in several areas in the lot immediately outside of the structure. One of the sumps within the service bay is in close proximity to the area where hazardous materials and floor staining was observed. The integrity of the sumps and floor is suspect based on observed cracks in the

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concrete. Water in one of the sumps exhibited a hydrocarbon sheen. There is the potential that petroleum products and other hazardous materials have been collected in the sumps and possibly released to the subsurface soils during the historical site operations.

6.2 Identified Off-site Issues

Regarding potential off-site sources of impact, several sites were identified within the specified search distances in our review of regulatory-agency databases. Nearby USTs were also identified. In our opinion none of the identified sites are likely to have impacted the subject property. Furthermore, contamination from such offsite sources (if present) likely does not present an area-wide cleanup liability to the subject property due to Engrossed Senate Bill (ESB) 7900, which provides that the owner of a site that overlies a plume of contaminated groundwater is not strictly liable for that contamination.

7.0 RECOMMENDATIONS

We recommend Phase II investigations of the property to address the identified environmental conditions. Recommended investigations include:

- Complete a geophysical survey of the site to further assess the potential presence of USTs or septic tanks on the subject property.
- Complete subsurface soil and possibly groundwater sampling in areas adjacent to the two collection sumps and drum storage areas located in the service bay of the on-site structure, in the location of the pump dispensers for the former gasoline stations, and in the location of the former gasoline and diesel tanks removed in 1993.
- Remove and properly dispose of the drums of waste oil and paints remaining on site.
- Complete a geophysical and possibly subsurface investigation of the concrete pad or patching observed in the asphalt parking lot located on the northwest side of the facility.
- Complete a utility locate to confrim that the onsite sumps are connected to the existing stormwater system.

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8.0 LIMITATIONS

Phase I Environmental Site Assessments are non-comprehensive by nature and are unlikely to identify all environmental problems or eliminate all risk. The attached report is a qualitative assessment. Kleinfelder offers a range of investigative and engineering services to suit the needs of our clients, including more quantitative investigations. Although risk can never be eliminated, more detailed and extensive investigations yield more information, which may help to better understand and manage site risks. Since such detailed services involve greater expense, we ask our clients to participate in identifying the level of service that will provide them with an acceptable level of risk. Please contact the signatories of this report if you would like to discuss this issue of risk further. .

The scope of work on this project was presented in our identified proposal and subsequently approved by you as our client. Please be aware our scope of work was limited to those items specifically identified in the proposal. Other activities not specifically included in the presented scope of work (in the proposal, correspondence, or this report) are excluded and should not be considered to be a part of our scope of services.

Kleinfelder performed this environmental assessment in accordance with the guidelines set forth in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (Designation E-1527-97).

Land use, site conditions (both on-site and off-site) and other factors will change over time. Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings and opinions can be considered valid only as of the date of the site visit. This report should not be relied upon after 180 days from the date of its issuance (ASTM Standard E-1527, Section 4.6).

The property owner is solely responsible for notifying all governmental agencies, and the public at large, of the existence, release, treatment, or disposal of any hazardous materials observed at the project site. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury which results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials.

Any party other than Union Bank of California and Ruth Evans Trust who would like to use this report shall notify Kleinfelder of such intended use by executing the "Application for Authorization to Use" included as Attachment E to this document. Based on the intended use of

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the report, Kleinfelder may require that additional work be performed and that a revised report be issued. Non-compliance with any of these requirements by Union Bank of California or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party. No warranty, either express, or implied is made.

9.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The Phase I Environmental Site Assessment (ESA) was completed by Mr. Timothy Stott and reviewed by Mr. Dennis O'Neill. Mr. Stott is an environmental scientist with 10 years experience, and Mr. O'Neill is a geochemist with 15 years of experience. More detailed resumes are on file at Kleinfelder's office.

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REFERENCES

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_____, 1995, Dangerous Waste Regulations, chapter 173-303 WAC: Olympia, Wash., Publications No. 92-91, Amended November.

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Other references as noted in Section 4.0 of this report.

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Reference: DELORME Street Atlas USA - Version 4.0
Used with Permission, Washington, 1996.

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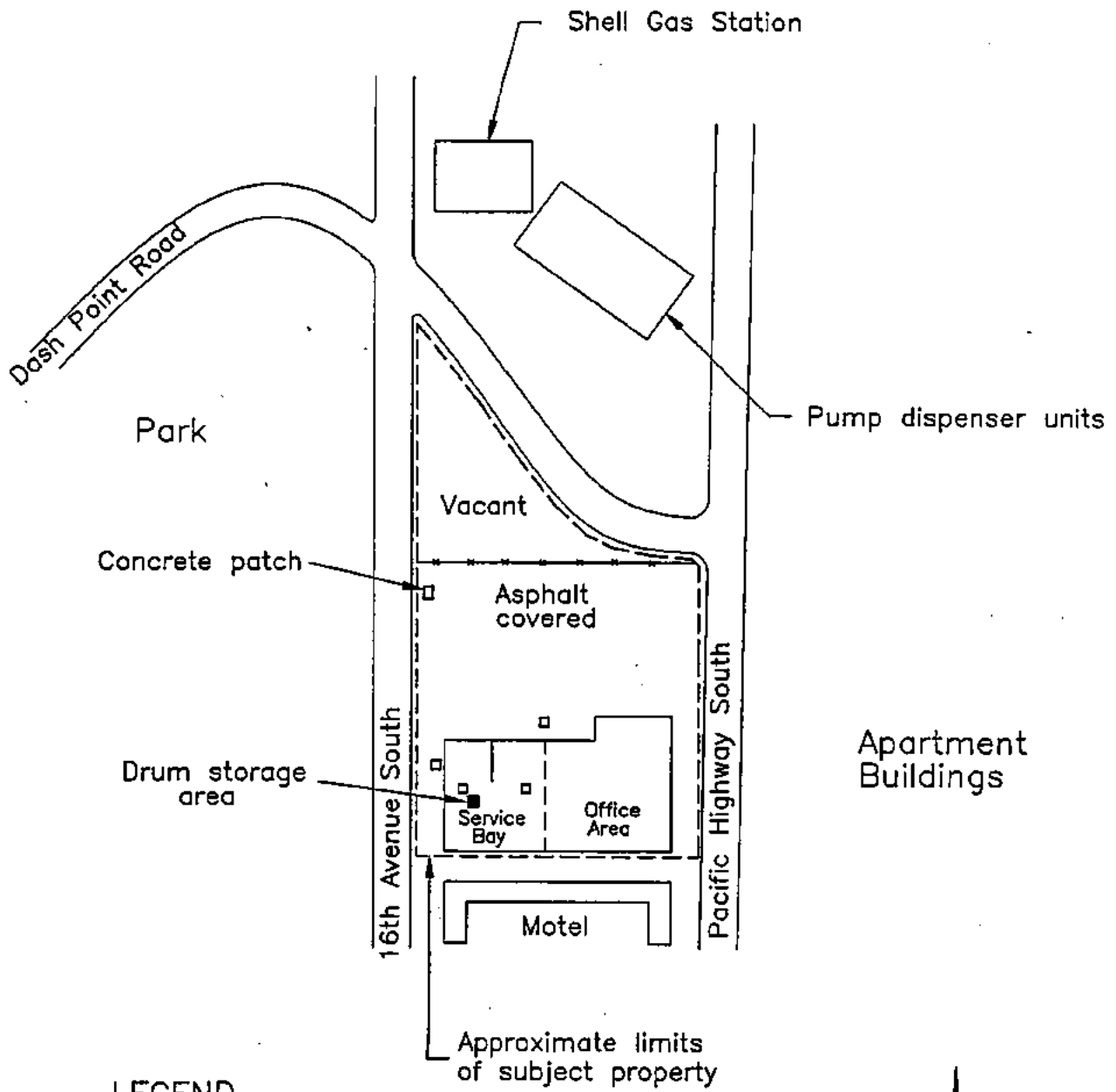
PROJECT NO. Project #: 60-2081-01 May, 2000

Vicinity Map

29805 Pacific Highway South
Federal Way, WA
98003

FIGURE
1



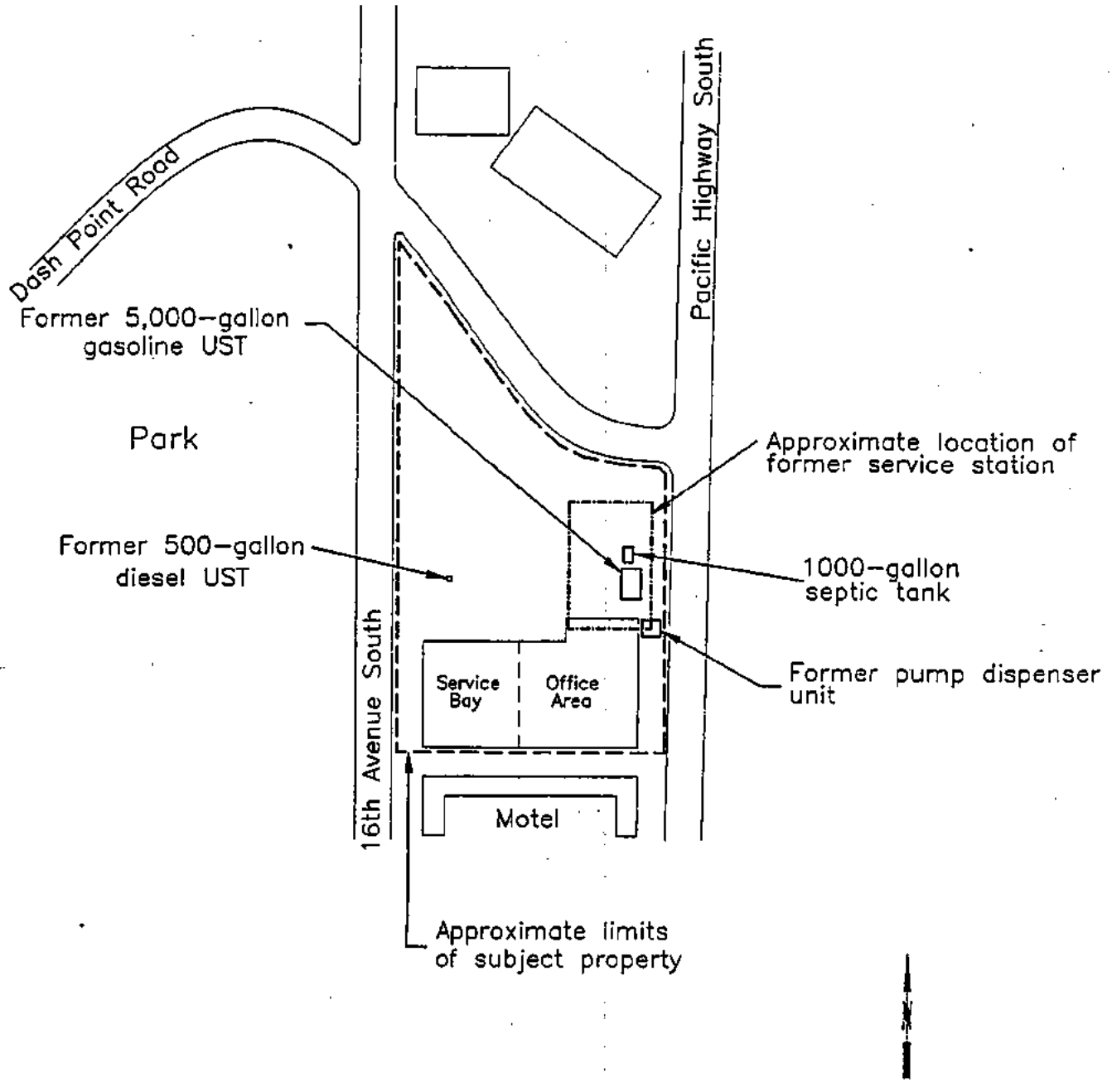
KLEINFELDER

Project: 60-2081-01 May 2000

Site Plan

29805 Pacific Highway South
Federal Way, WA
98003

FIGURE
2



KLEINFELDER

Project: 60-2081-01 May 2000

Past Site Plan

29805 Pacific Highway South
Federal Way, WA
98003

FIGURE
3

Page: 1 Document Name: Assessor

LAST BUILDING.
AS37 TXAS
AN07

KING COUNTY DEPARTMENT OF ASSESSMENTS
COMMERCIAL/INDUSTRIAL PROPERTY CHARACTERISTICS

C
05/16/00 AI110M50
13:56:08 AI110P50

ACCOUNT NUMBER: 042104-9157-0 TAXABLE
TAXPAYER NAME: UNION BANK OF CALIFORNIA NA
PROPERTY NAME: 40 RENTALS

PROPERTY ADDRESS: 29805 PACIFIC HW S FEDERAL WAY
QTR: SW SEC: 04 TWN: 21 RNG: 04 FOLIO: C21479-B-1 AREA: 440
LAND USE: (532) GARAGE-SVC BLDG 2 TO 10K SF LEVY-CODE: 1205

* LAND DATA *	* * * * * * * * * * * * * * * * IMPROVEMENTS SUMMARY *
JURISDICTION: FEDERAL W	DESCRIPTION: RETAIL/WHSE — NUMBER OF BLDGS: 1 — GROSS AREA: 6,350
ZONE ACTUAL: BC	YEAR-BUILT: 70 — CLASS: PREFAB STEEL — NET AREA: 6,350
ZONE CODE: COMML	EFF YEAR: 70 — QUALITY: FAIR
SQ FEET: 23,522	LOT COVERAGE: 5,600 — NUMBER OF UNITS:
CORNER LOT: NO	* BUILDING 01 *
WATERFRONT:	DESCRIPTION: RENTAL MARTS — NUMBER OF STORIES: 1 — GROSS AREA: 6,350
PERCENT USABLE: 100	YEAR BUILT: 70 — CLASS: PREFAB STEEL — NET AREA: 6,350
TOPOGRAPHY:	EFF YEAR: 70 — QUALITY FAIR — HEATING: SUS. HTR
SHAPE: REGULAR	% COMPLETE: 100 — SPRINKLERS: NO
ACCESS: STANDARD	
VISUAL EXP: STANDARD	
OPEN SPACE: NO	
RESTRICTIVE COND: NO	
CONTAMINATED PROP: NO	

* * * * * * * INTERIOR SECTIONS * * * * * * *

SECTION	USE CODE & DESCRIPTION	STORY HEIGHT	NET AREA
1	C03-STORE,SPECIALITY	09	3,350
2	D06-GARAGE,STORAGE	12	2,250
3	C92-SEMI-FINISHED AREA	08	750

* ACCESSORY SUMMARY *

NEXT ACCOUNT: 042104 9157 0 NEXT BLDG: JUMP CODE:
ENTER-PF1--PF2--PF3--PF4--PF5--PF6--PF7--PF8--PF9--PF10-PF11-PF12-PF13-PF14-PF15-PF16-PF17-PF18-PF19-PF20-PF21-PF22-PF23----PF24--
HELP END MENU CHAR RCVB HIST LEGL APPR PF-HELP MENU+

Date: 5/16/ 0 Time: 01:56:10 PM

AS37 KING COUNTY DEPARTMENT OF ASSESSMENTS C
REAL PROPERTY HISTORY PAI11070-S1
05/16/00

ACCOUNT NUMBER: 042104-9157-0
TAXPAYER NAME: UNION BANK OF CALIFORNIA NA
PROPERTY ADDRESS: 29805 PACIFIC HW S
SHORT LEGAL DESCRIPTION: LOT BLOCK QTR: SW SECT: 4 TWN: 21 RNG: 4 FOLIO: C21479-B-1 SUBAREA: 440-000
0 PLAT:

* * * * * * * * * * * * * V A L U E H I S T O R Y * * * * * * * * * * * *

Page: 1 Document Name: Assessor

NEXT ACCOUNT NUMBER REQUIRED.

AS37 KING COUNTY DEPARTMENT OF ASSESSMENTS PAI11080-S1
REAL PROPERTY LEGAL DESCRIPTION 05/16/00
ACCOUNT NUMBER: 042104-9157-0 PROPERTY ADDRESS: 29805 PACIFIC HW S
TAXPAYER NAME: UNION BANK OF CALIFORNIA NA QTR: SW SECT: 04 TWN: 21 RNG: 04 FOLIO: C21479-B-1 SUBAREA: 440-000

LEGAL DESCRIPTION - PAGE 1 NOTE: READ LEGAL LINES LEFT TO RIGHT ACROSS SCREEN.
LOT BLOCK PLAT:

N 100 FT AS MEAS ON W LN OF BEG 241.13 FT M/L TO W LN OF PAC HWY LN OF NW 1/4 OF SW 1/4 TH S
AT PT 30 FT E & 329 FT N OF SW TH N ALG SD W LN OF HWY 329.57 FT 329.91 FT TO POB
COR OF NW 1/4 OF SW 1/4 TH E TH W 234.86 FT TO PT 30 FT E OF W

* * * END OF LEGAL DESCRIPTION * (0.1)

NEXT ACCOUNT: 042104 9157 0
JUMP CODE: _____
ENTER-PF1--PF2--PF3--PF4--PF5--PF6--PF7--PF8--PF9--PF10-PF11-PF12-PF13-PF14-PF15-PF16-PF17-PF18-PF19-PF20-PF21-PF22-PF23----PF24--
HELP END MENU CHAR RCVB HIST LEGL APPR PF-HELP MENU+

Date: 5/16/ 0 Time: 01:56:26 PM

Page: 1 Document Name: Assessor

RPCI 042104915709 DOC: 07/14/99 REVALUE ST:CURNT ACTIVE
UNION BANK OF CALIFORNIA NA772501 N 100 FT AS MEAS ON W LN OF BEG
R E OPERATIONS/ACCTS PAYABL 05/16/00 AT PT 30 FT E & 329 FT N OF SW
PO BOX 85602 COR OF NW 1/4 OF SW 1/4 TH E
SAN DIEGO CA 92186 241.13 FT M/L TO W LN OF PAC HWY
LOT:04-21-04 BLOCK:9157 LAST LEGAL TH N ALG SD W LN OF HWY 329.57 FT
IS 8 TH W 234.86 FT TO PT 30 FT E OF W

RY	OY	ST	SC	NC	LEVY	OM-LV	LAND	IMPS	BILLED	PAID	P	A
01		T			1205		164,600	128,000	.00	.00		
00		T			1205		164,600	128,000	3,938.05	.00	F	
99		T			1205		164,600	128,000	4,050.10	4,050.10		
98		T			1205		164,600	128,000	4,075.75	4,075.75		
97		T			1205		164,600	128,000	4,392.59	4,392.59		
									TOTAL DUE:	4,492.39		

YEAR	RECEIVABLE TYPE	LEVY	BILLED AMT	PAID AMT	ACRE	BENEFIT
00	SURFACE WATER	9443	553.40	.00		
00	NOXIOUS WEED	9420	.94	.00		
99	SURFACE WATER	9443	553.40	553.40		
99	NOXIOUS WEED	9420	.94	.94		
98	SURFACE WATER	9443	553.40	553.40		
98	CONSERVATION	9430	5.00	5.00		

RPCI 042104915709 JUMP CODE: _____ AS37 ADDITIONAL DATA P/N

Date: 5/16/ 0 Time: 01:56:38 PM

DISTRICT 9
LIMITS CC
CODE NO.
PERMIT NO.

2 ADDITION TAX LOT NAME
SECTION SW 4 TWP. 21 N. RANGE 4 EWM: BLOCK TRACT OR LOT NO. Tax Lot 33
DESCRIPTION

3 ADDRESS — PROPERTY 396 51 Pacific Highway So. CONT. PURCHASER
4 FEE OWNER Andrew Otto 10-23-28
5 ARCHITECT CONTRACTOR

ORIG. COST
6 BUILDINGS Service Station No. 2
Tavern & Gas Station
1 Story
1 Stores
2 Rooms
1 cheap room under store

BASEMENT None
FOUNDATION P & B.
ROOF Tar Paper

STORE FRONTS large sash
Marquee 12x14 168 s.f. 3x70 210 s.f.
WALLS
EXTERIOR Frame Shiplap

VOID

EXTRA FEATURES None
CONSTRUCTION Medium
MISCELLANEOUS see remarks
CONDITION: EXTERIOR fair INTERIOR poor FOUND. poor
MAIN SUPPORT COLUMN 8 x 8 FOOTING conc SPAN 12' FT.
FIRST FLOOR JOIST 2x6-24 o/c. INCH CENTERS BRIDGED
BASEMENT Finished BUILDING
GROSS INCOME $ EXPENSE $ NET INCOME $
% DEPRECIATION Cond. 60 % OBSOLE. % ECON. SUIT. % TOTAL 60
YEAR BUILT 1920 REMODELED no
EFFECTIVE AGE 18 YEARS FUTURE LIFE 12 YEARS
DIMENSIONS 24 x 84 x SQUARE FT. AREA CUBIC FT.

INTERIOR
Post & Beam
5 Partitions
2x4 Ceiled Fir Trim
FLOORS
fir
FIRE PLACE
None
PLUMBING 8 fix. 1 tub 1 shower 4 toilets 2 basins 1 sink cheap
TILE WORK none
WIRING open 24 outlets
HEATING Stove
ELEVATORS none
CEILING — HEIGHT 1st flr 8 ft.

185d 11/69
NL 50%

2016

IMPROVEMENT VALUE
MAIN BUILDING $ 530.
OTHER BUILDINGS $ 10.
TOTAL $ 540.
ASSESSED VALUE 50% $ 270.
DATE 1-1-38.

LAND INFORMATION
1. SIZE x
2. STREET — ROAD
3. SIDEWALK
4. LANDSCAPING
5. TREND VALUE $
6. USE
7. DISTRICT

OTHER BUILDINGS	CONSTRUCTION	FLOOR	ROOF	STY.	DIMENSION	AREA	VALUE
P. H.	Conc	conc	paper	1	6 x 7	42	$21.

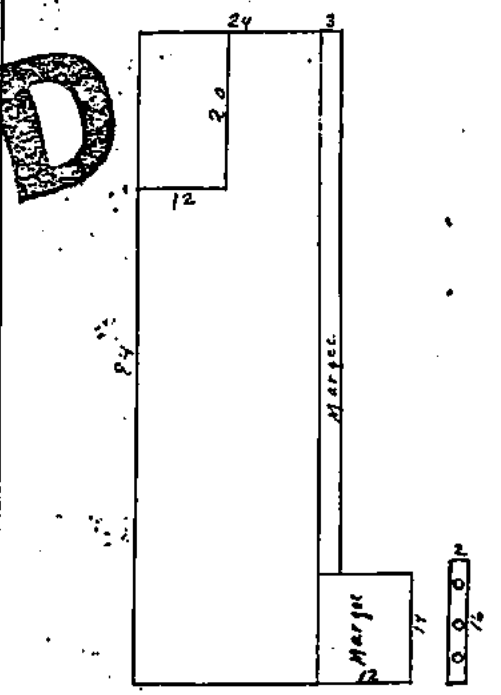
OWNER OR CONTRACT PURCHASER	DATE	FILE NO.	PRICE	MTGE.	STAMPS
1/					
2/ J. JENNINGS & CLERGET	11-17-66	E021204	32 FT		
3/ DR. THOS MURPHY	7-21-69	E084323	7' LAND		

VOID

REMARKS

71-1600
SCALE 1/8"

FLOOR PLAN



DISTRICT 9
LIMITS CC
CODE NO.
PERMIT NO.

2 ADDITION TAX LOT NAME
SECTION 34 TWP. 21 N. RANGE 4 EWM: BLOCK TRACT OR LOT NO. Tax Lot 33
DESCRIPTION

3 ADDRESS — PROPERTY [illegible] FONT PURCHASER
4 FEE OWNER
5 ARCHITECT

ORIG. COST
6 BUILDING ~~Tavern & Gas Station~~
1 Story
X Stores
~~29~~ Rooms
1 cheap room under stairs

BASEMENT None
FOUNDATION P & B.
ROOF Tar Paper

INTERIOR
Post & Beam
~~3 Partitions~~
~~2x4 Cutlet Fir Trim~~
FLOORS
Fir
FIRE PLACE
None
PLUMBING ~~2~~ 8 Fir. ~~1 Tub Bath~~
~~24~~ toilets ~~2~~ basins ~~1 sink~~
cheap
TILE WORK None
WIRING open 24 outlets
HEATING Stove
ELEVATORS none
CEILING — HEIGHT 1st flr 8 ft.

185d 11/69
-NLA-F
50'01

IM
INTERIOR POOR FOUND. POOR
FOOTING CONC SPAN 12' FT.
C. INCH CENTERS BRIDGED
ST $ NET INCOME $
SE. % ECON. SUIT. % TOTAL 65%
REMODELED NO
YEARS FUTURE LIFE 12 YEARS
SQUARE FT. AREA CUBIC FT.
2016

IMPROVEMENT VALUE
MAIN BUILDING $ 530.
OTHER BUILDINGS $ 10.
TOTAL $ 540.
ASSESSED VALUE 50% $ 270.
DATE 1-1-38.

LAND INFORMATION
1. SIZE X
2. STREET — ROAD
3. SIDEWALK
4. LANDSCAPING
5. TREND VALUE $
6. USE
7. DISTRICT

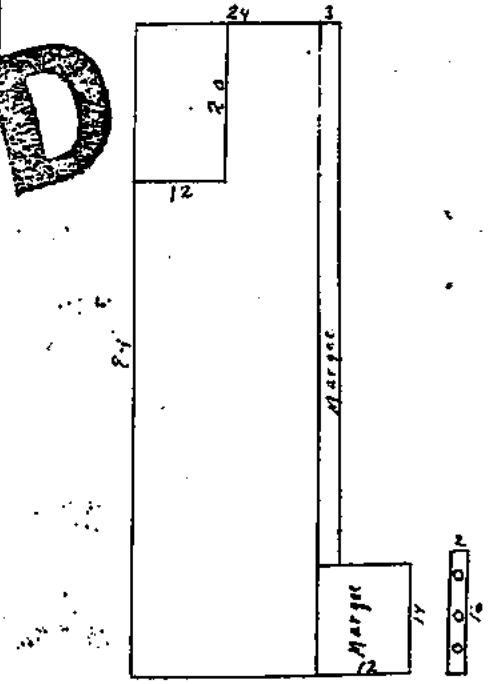
C O	OTHER BUILDINGS	CONSTRUCTION	FLOOR	ROOF	STY.	DIMENSION	AREA	VALUE
	P. H.	Conc	conc	paper	1	6 x 7	42	$21.

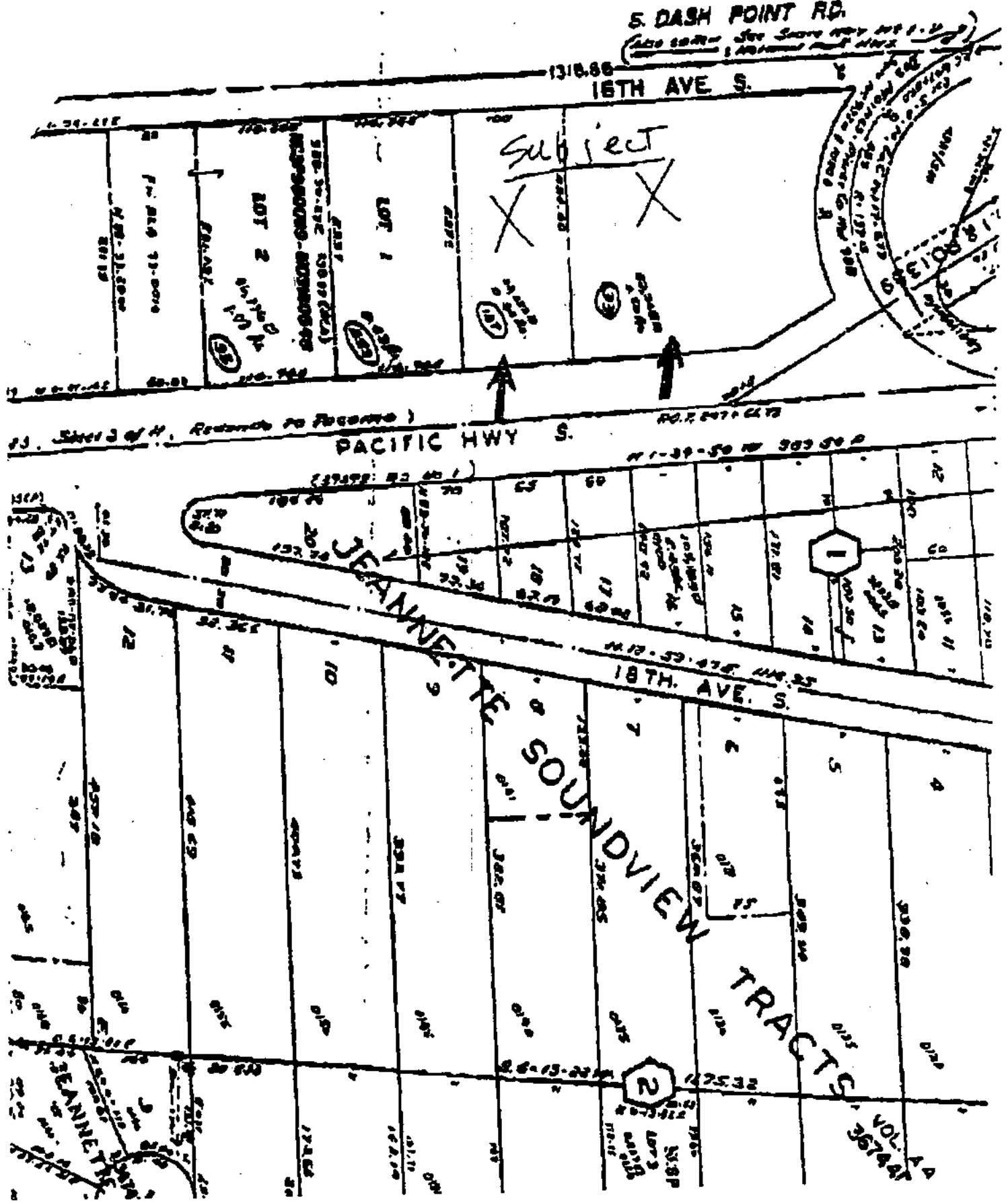
C O	OWNER OR CONTRACT PURCHASER	DATE	FILE NO.	PRICE	MTGE.	STAMPS
	T. I. C.					
P/C	JENNINGS + CLERGET	11-17-66	E6-1124	37 rm		
W/P	MR. THOS MURPHY	7-31-69	E080323	37 dep		

REMARKS

71-1600
Sec 20

FLOOR PLAN




S. DASH POINT RD.
1318.86
16TH AVE. S.
Subject
LOT 2
LOT 1
PACIFIC HWY S.
JEANNETTE
18TH. AVE. S.
SOUNDVIEW TRACTS
VOL. 36 PAT

LAND CLASSIFICATION OR SEGREGATION

SECTION SW¼ 4
TWP. 21
RGE 4

That por NW¼ of NW¼ of SW¼ ly W of Pac Hway & S of Nat'l Park Hway ~~2~~ W 30' (pt 11)

AERIAL PHOTO
QUARTER MAP
PLAT MAP

Folio # Co 21479

LOT No. 33
PARCEL No.
LOT No.
BLOCK No.

YEAR	AC.	RECORD OF ASSESSED VALUE LAND	BLDGS.	TOTAL	DATE	BY	REASON	DECREASE	INCREASE	DECREASE	IN
19 38			210								
19 39	1¾	170	274	444							
19 40		200	270	470							
19 41		200	270	470							
19 42		200	270	470							
19 43		200	270	470							
19 44		200	270	470							
19 45		200	270	470							
19 46		200	270	470							
19 47		200	270	470							
19 48		200	270	470							
19 49		200	270	470							
19 50		200	270	470							
19 51		200	270	470							
19 52		200	270	470							
19 53		200	270	470							
19 54		200	270	470							
19 55		200	270	470							
19 56		200	270	470							
19 57		200	270	470							
19 58		200	270	470							
19 59		200	270	470							
19 60		200	270	470							
19 61		200	270	470							
19 62		200	270	470							
19 63		200	270	470							
19 64		200	270	470							
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19 69		200	270	470							
19 70		200	270	470							
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19 72		200	270	470							
19 73		200	270	470							
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19 76		200	270	470							
19 77		200	270	470							
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19 98		200	270	470							
19 99		200	270	470							
19 00		200	270	470							
19 01		200	270	470							
19 02		200	270	470							
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19 04		200	270	470							
19 05		200	270	470							
19 06		200	270	470							
19 07		200	270	470							
19 08		200	270	470							
19 09		200	270	470							
19 10		200	270	470							
19 11		200	270	470							
19 12		200	270	470							
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19 19		200	270	470							
19 20		200	270	470							
19 21		200	270	470							
19 22		200	270	470							
19 23		200	270	470							
19 24		200	270	470							
19 25		200	270	470							
19 26		200	270	470							
19 27		200	270	470							
19 28		200	270	470							
19 29		200	270	470							
19 30		200	270	470							
19 31		200	270	470							
19 32		200	270	470							
19 33		200	270	470							
19 34		200	270	470							
19 35		200	270	470							
19 36		200	270	470							
19 37		200	270	470							
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19 63		200	270	470							
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19 66		200	270	470							
19 67		200	270	470							
19 68		200	270	470							
19 69		200	270	470							
19 70		200	270	470							
19 71	L	11800	18 50	13450	12/15/69	RM	Poly - Mineral deposits		3000		
19 72		11800	—	11800	4-24-71	EM	Used - Farm Use		3000		
19 73		3000		9000	4-10-72	AL					
19 74											
19 75											
19 76											
19 77											
19 78											
19 79											

71 L 11800 B 1600 T 13400*#421C4-9C33-01/8/9

19 66		5400	800	6200	3-16-67	AB					
19 67	L	2000	8 —	2800	9/29/67	EB					
19 68		4000	950	4950	3-7-68	LL					
19 69		1640	950	2590	10/23/69	Mbw					
19 70	"	1600	500	2100	4/23/70	JB					
19 71	1¾	1600	500	2100	4-23-71	Pm					
19 72	1¾	520	500	1020	4-4-72	Mwd					
19 73		200	970	1170	8-16-73	NS					
19 74		200	270	470							
19 75		200	270	470							
19 76		200	270	470							
19 77		200	270	470							
19 78		200	270	470							
19 79		200	270	470							

(Old Forge Plus/Eq NLTTE 5009)

3428 1/

#47 info from house - 4/7/2x 04210x - 9033

ASSESSOR'S FORM #49

ASSESSMENT REVIEW

DATE 4/13/7x

Made by [illegible]

Owner's address [illegible] Phone [illegible]

Real Property Described as [illegible]

Property address 2945 [illegible]

Addition [illegible] 21479

Lot [illegible] Blk [illegible] SW Folio # [illegible]

Tax Lot 33 Sect NE4 Twsp [illegible] Rng [illegible]

Assessed Valuation - Land 11800

Assessed Valuation - Improvements 1850

Remarks: Building complete

Ok for Value & Depr

Use Building

Taken by [illegible]

SW¼ 4-21-4

TL 33 THAT PCR NW¼ OF NW¼ OF SW¼ LY W OF PAC HWY & S OF NAT'L PARK HWY W 30' (PT11)

ADDITION Tax Lot

N 2t 1/4 SECTION 4 TWP. 21 N. RANGE 4 BLOCK LOT 25

DESCRIPTION Legal on back

LIMITS

OWNER OR CONTRACT PURCHASER	DATE	FILE NUMBER	PRICE	REMARKS

DISTRICT:	ROAD	SCHOOL	WATER	FIRE	SEWER	FLOOD ZONE	HOSPITAL	PARK & REC. DIST.	AIRPORT	METRO		LEVY CODE
Cv	2	210	124	32								3488

ASSESSED VALUE

YEAR	ACRES	TIMBER	LAND	BLDGS.	TOTAL	DATE	BY	REASON	SEG. NO.
1971			5580	—	5580	8/9		50% Cons	
1972			15450	—	15450	5-10-72	nl	Rev	
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									

10M 9-71

1. DISTRICT 0 LIMITS C.O. CODE NO.

2. ADDITION TAX LOT 3488. 4405

SECTION SW¼ 4 TWP. 21 N. RANGE 4 EWM. BLOCK TRACT OR LOT NO. Tax lot 35

DESCRIPTION

3. ADDRESS OF PROPERTY

4. FEE OWNER EdNA Hope Rexy CONTRACT PURCHASER 10-10-35.

LAND INFORMATION

1. SIZE OF TRACT OR LOT X TOPOGRAPHY GRADE FT. 2. STREET-ROAD SURFACE
ALLEY 3. SIDEWALK SEWAGE WATER PUMP DRAINAGE
4. LANDSCAPING CONDITION 5. TREND VALUE OF LOT $ FRONT STREET
FACTOR $ SIDE STREET FACTOR $ DEPTH FACTOR $ CREDIT
6. USE 7. DISTRICT

LAND USE	SOIL TYPE	CROPS-TIMBER STAND	NO. ACRES	VALUE ACRE	VALUE
				$	$
					$
					$
					$
				TOTAL	$

O C	OWNER OR CONTRACT PURCHASER	DATE	FILE NO.	PRICE	MTGE.	STAMP
	E.W. Zaan	10-16-47	E-77453	Und ½ int		
	E.H. Savage	"	F-23764	do		
	Thomas F. Pigott	1-12-63	E-48037	$500.00		
	John Weaver	10-12-63	F-53317	15000.		
	H.S.S. BROS. INC.	2-2-68	E-C05167	13500.		

DISTRICT: ROAD	SCHOOL	WATER	FIRE	SEWER	HSPTL.	AIRPT.	LIBRY
2	210	6432 124		L. S.			

ASSESSED VALUE LAND

LOT	$
UNIMPROVED ACRES	$
IMPROVED ACRES	$
OTHER LANDS	$
TIMBER	$
TOTAL ASSESSED VALUE 50%	$
DATE	

REMARKS

ASSESSED VALUE YEAR	AC.	LAND	DATE	DECREASE OR INCREASE IN ASSESSED VALUATION BY	REASON	LAND DECREASE	LAND INCREASE
19							
1939	1.85	240					
1942		160					
1946		160	8-10-44	NS			
1948	1.85	260					
1955	1.96	330	8-31-53	MB	R V		
1958	"	990	11/25/59	QLa	Rel	(Cty legal 9/64/58 NL(T) F-5016)	
1962		1120	9-7-61	LP	Rel		
1963	1.46	920	4/9/63	GA (T)	See TL (157) Pc (35)	L-	1896
1968		2390	2-16-67	SCB	Rel		
19							

VACAT 71 L 5580 B T 5580*C42104-9035-0 8/9 LS

LAND CLASSIFICATION AND SEGREGATION

THIS SQUARE INDICATES _____ ACRES

INDICATE BY AREAS, USE OF LAND BY MARKS AND TYPE BY LETTERS

SECTION SW¼ 4
TWP. 21 N
RANGE 4 E

TAX LOT NO. 35
PARCEL NO. _____

N 329.91' of S 659.82' of NW¼ of SW¼ ly W of Pac H-W ~~Less~~ W 30' (Pt 11)
LESS N 100' OF POR LY E OF W 30'

AERIAL PHOTO _____
QUARTER MAP _____
PLAT MAP _____

Folio # Co 21479

LAND USE		ACRES
111	CULTIVATED	
#	PASTURE	
OO	TIMBER	
XX	STUMP	
...	GRAVEL OR USELESS	
V	SWAMP	

LAND TYPE		ACRES
A	SHOT CLAY	
B	BOG	
C	PEAT	
D	SILT	
E	_____ LOAM	
F	GRAVEL	
G	BOTTOM	
H	UPLANDS	
K	HILLY	

IF USED AS ¼ SECT. SCALE ONE INCH 400 FEET OR 160 ACRES OR 2640 FEET
IF USED AS ¼ or ¼ " SCALE ONE INCH 200 FEET OR 40 ACRES OR 1320 FEET
IF USED AS ¼-¼-¼ " SCALE ONE INCH 100 FEET OR 10 ACRES OR 660 FEET

3405

ADDITION TAX LOT

SW 1/4 SECTION 4 TWP. 21 N. RANGE 4 BLOCK LOT 157

DESCRIPTION N 100' AS MEAS ON W LN OF PCLC: BEG AT PT 30' E & 329' N OF SW COR OF NW¼ OF SW¼ TH E 213.13' M/L TO W LN OF PAC HWY TH N ALG SD W LN OF HWY 329.57' TH W 231.86' TO PT 30' E OF W LN OF NW¼ OF SW¼ TH S 329.91' TO POB.

LIMITS

OWNER OR CONTRACT PURCHASER	DATE	FILE NUMBER	PRICE	REMARKS
THOMAS E. PIGOTT	2/13/63			
W/D THOMAS MURPHY	8-12-69	E 60165	$ 19 REV	

DISTRICT:	ROAD	SCHOOL	WATER	FIRE	SEWER	HOSPITAL	AIRPORT	FERRY				
	2	210	64	32	L. S.							

ASSESSED VALUE

YEAR	ACRES	TIMBER	LAND	BLDGS.	TOTAL	DATE	BY	REASON	SEG. NO.
1963	.54		300		300	1/9/63	GA(T)	SEG TL 157 fr 35	L-1896
1968			540		540	9-16-67	[illegible]	[illegible]	
19									
19		71 L 1680 B		T	1680*042104-9157-0 8/9				
19									
19									
19									
19									
19									
19									
19									
19									

22M 3/62 L & N PRINTING CO.

YR	AC	LAND	BLDGS	TOTAL	BY	DATE	REASON	CD	FEE OWNER	DATE	FILE #	PRICE
73		11750	18950	30700	AB	5-10-73	Plat					
71 L		1680 B	18240 T	19920*042104-9157-0		9/71						
72 L		1680 B	16475 T	16155*042104-9157-0		9/71						
1972		1680	18240	19920	RM	5-1-72	Plat Correct			5/24/72	L. N.	
1971	54	1680		1680	RM	5-69	Prop. Annexed	W/D	[illegible]	5/24/69	E 60165	19 REV

COUNTY	ROAD	SCHOOL	WATER	FIRE	SEWER	FLOOD ZONE	HOSPITAL	PK & REC	METRO
9	2	210	64	32	L S				

FOLIO 21479
PERMIT NO. 1C-93-6
DATE 7-12-93

ADDITION Tax Lot 1 1-7
Section 4 Twp 21 Range 4 EWM. Block ____ Lot or ____
Tax Lot 157 Tract Legal on deed
Address 27805 S Pacific Hwy 99

Fee Owner Do Trees Mgmt Architect ____ Contractor Alfred's Richardson
Zoning ____ Condition of Exterior G Interior G Foundation G Floor Plan Good ____ Accept. ✓ Poor ____

USE Auto Sales
1 No. Stories OFFICE
MEZZ No. Stores
3 No. Rooms
Basement Unit
1 No. Offices Sq. Ft.
No. Apartments
1 rm. 2 rm. 3 rm.
4 rm. 5 rm. 6 rm.

ROOF CONSTRUCTION
Frame/Joist
Mill/Deck
Rein. Conc. GLB
✓ Steel Fr. Metal Deck
✓ Trusses 50' Span
✓ Wood ✓ Steel

FLOOR FINISHES
Fir Maple
Oak 2x6 TG
Lino 3x6 TG
✓ Cement Lgtwgt. Conc.
Terrazzo ✓ Vinyl Tile
Asphalt Tile
or

[ ] Tile [ ] Lino [ ] Fabr.
Bath Floor
Bath Walls
Tub Recess
Drain Bds.
Vanities

PLUMBING
5 No. Fixtures
2 Toilets ____ Urinals
Tubs Leg. or Fmn.
2 Basins ____ Dr. Fmn.
Sinks
Washers ____ Dryers
Showers (tub) (stall)
1 H.W. Tanks ____ Ldy. Trays
D. Washers ____ Disposals
Sprinkler Sys.

TYPE OF CONSTRUCTION
Frame
✓ Metal-Prefab
Ordinary Masonry
Mill Construction
Class A Rein. Conc.
Stru. Steel and Conc.
Struct. Steel, Frame
or

QUALITY-TYPE
Good Med. ✓ Cheap

FOUNDATION
Mud Sill Post Pier
✓ Conc. Brick
Load Bgs. Piling

BASEMENT
Full ____ % Part.
Sub-Basement
Area

Date Built 1970 Date Add. Built ____ ✓ Finished Unfinished Remodeled
Effective Age ____ Years Future Life ____ Years
Dep. for Cond. ____ Dep for Obs. ____ Dep. for Ec. ____ Total

FAC
2
3
4
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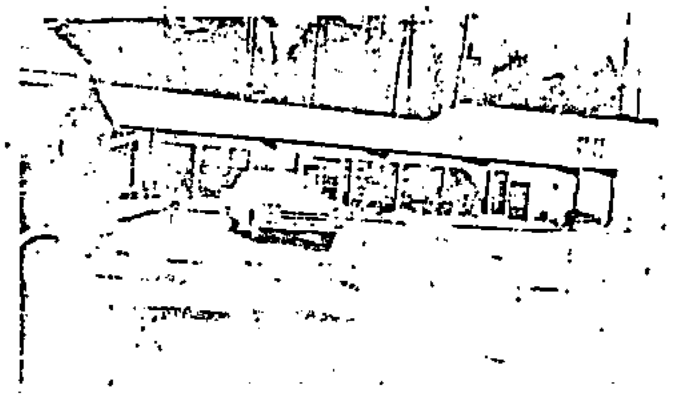
9
10



HEATING
Elec. ____ Oil ✓ Gas
H.W. ____ St. ____ H.A.
B.Bd. ✓ Suspended
FHA ____ Pipeless
A. Cond. ____ Wall Unit
Comb. Unit ____ Custom
Refrig. ____ Convector
Heat Pump ____ Fireplace

YEAR	ASSESSED VALUE
1972	18230 CK 71

MISC. TANKS, Etc.
HOISTS: Elec. Hydr.

ELEVATORS
1 Pass. ____ Frght
Auto. ____ Elec.
Man. ____ Hydr.
Doors-Auto ____ Man. ____
Escalators
____ Stops ____ Speed
Capy. ____

DOCKS AND PIERS
Hwy. ____ Mod. ____ Lgt.
Untrtd. Pile Tmbr.
Conc. Piles & Bms
Trtd. Pile Tmbr.
Paved
Dolphins
Dock

WIRING
Knob & Tube
Flex. Cable
✓ Conduit
Pwr. Wiring
Range Wiring
____ Outlets

EXTERIOR WALL CONST.
✓ Single [ ] Double
Stud Walls
Brick ____ Pil.
Conc. ____ Pil.
Rein. Conc. Skeleton
Stu. Stl.-Frame
✓ Pre-Fab Metal
Tilt-Up
____ Filler Wall
____ Curtain Wall

EXTERIOR FACING
Siding
Stucco ____ Shakes
Marble-crete
Brick Veneer
Conc. Conc. Blk.
Metal

FLOOR CONSTRUCTION
Joist ____ x ____ C.C.
Mill ____ Car Deck
✓ R.Conc. ____ Elev.
Steel ____ GLB.
or

ROOF COVERING
Built-Up Tar & Gr.
Comp. ✓ Metal
or

INTERIOR WALLS & CEILING
✓ Stud Wood Metal
Plaster ✓ Dry Wall
Acc. Tile Celotex
Ceiled Plywood
Solid Block
Sound Proofed Lamin.
Finished Unfinished
✓ Painted Varnished

INSULATION
✓ Exter. ____ Partitions
✓ Roof ____ Floor

INTERIOR TRIM
Fir ____ Birch
Mah. ____ Oak
✓ Metal
✓ Wood ____ Metal Doors
Wood ____ Metal Sash
✓ Stained ____ Varnish
✓ Painted ____ Unfin.

C. Hgt. | SB
B
1 10-12
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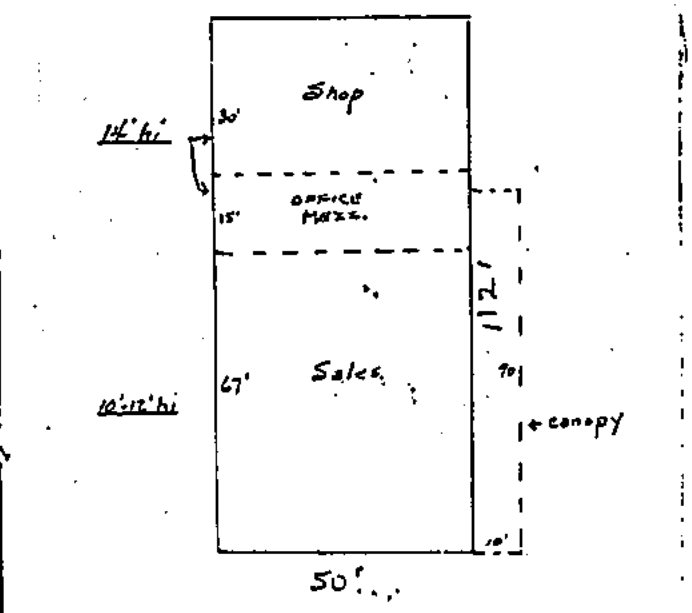
GROUND FLOOR AREA 5100 ✓
TOTAL FLOOR AREA



SITE ASSESSMENT REPORT

PROPERTY INFORMATION	CLIENT INFORMATION
Project Name/Ref #: Not Provided Forte Dash Point Road and Pacific Highway Federal Way, WA Latitude/Longitude: (47.335512, 122.311102)	Tim Stott Kleinfelder 2405 140th Avenue NE, Ste. A10 Bellevue, WA 98005

Site Distribution Summary			within 1/8 mile	1/8 to 1/4 mile	1/4 to 1/2 mile	1/2 to 1 mile
Agency / Database - Type of Records						
A) Databases searched to 1 mile:						
US EPA	NPL	National Priority List	0	0	0	0
US EPA	CORRACTS (TSD)	RCRA Corrective Actions and associated TSD	0	0	0	0
STATE	SPL	State equivalent priority list	0	0	0	0
B) Databases searched to 1/2 mile:						
STATE	SCL	State equivalent CERCLIS list	1	0	0	-
US EPA	CERCLIS / NFRAP	Sites currently or formerly under review by US EPA	1	0	0	-
US EPA	TSD	RCRA permitted treatment, storage, disposal facilities	0	0	0	-
STATE	LUST	Leaking Underground Storage Tanks	2	0	1	-
STATE	SWLF	Permitted as solid waste landfills, incinerators, or transfer stations	0	0	0	-
STATE	TOXICS	Washington Site Register	2	0	1	-
C) Databases searched to 1/4 mile:						
STATE	UST	Registered underground storage tanks	2	0	-	-
D) Databases searched to 1/8 mile:						
US EPA	ERNS	Emergency Response Notification System of spills	0	-	-	-
US EPA	LG GEN	RCRA registered large generators of hazardous waste	0	-	-	-
US EPA	SM GEN	RCRA registered small generators of hazardous waste	0	-	-	-

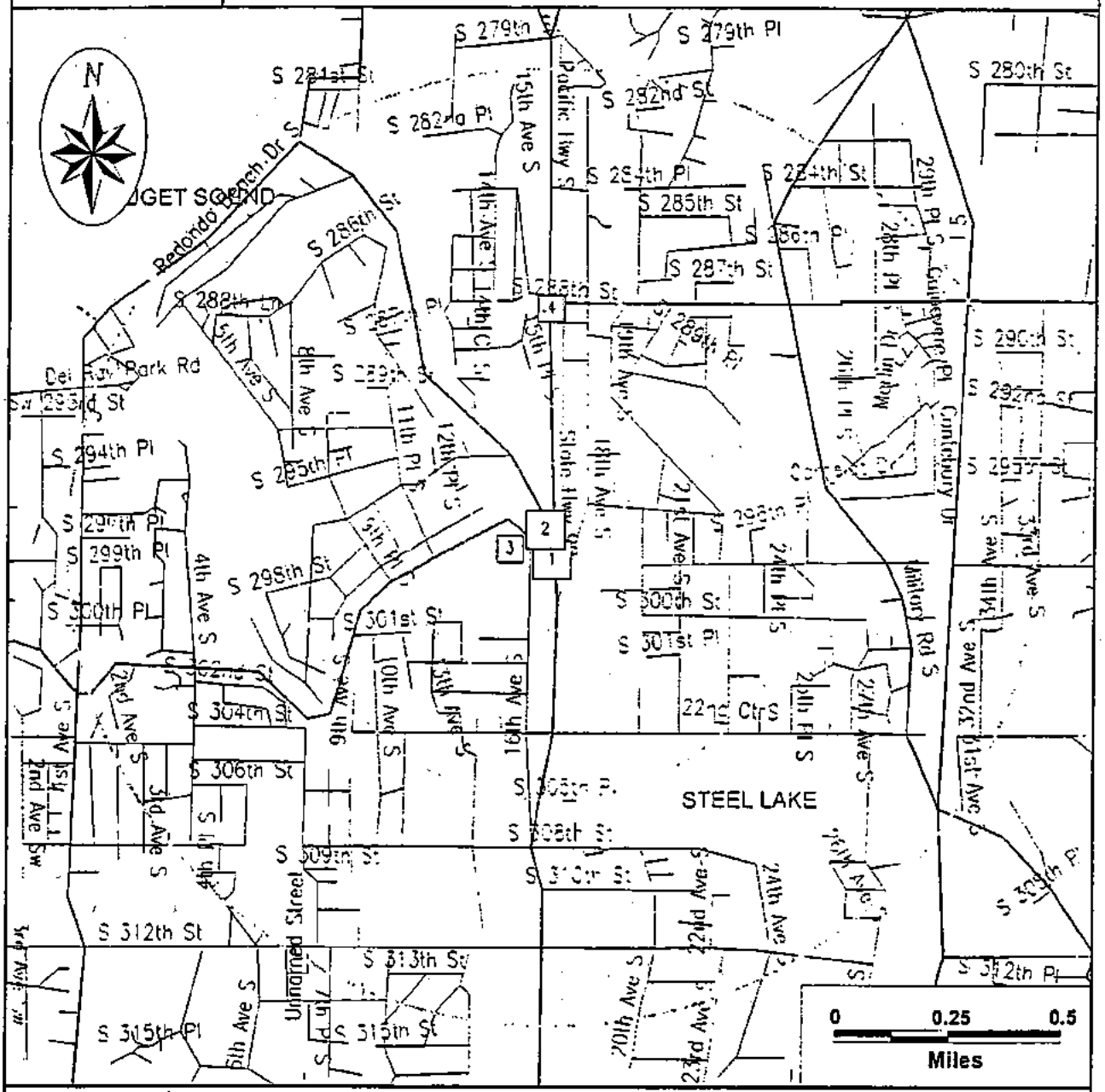
This report meets the ASTM standard E-1527 for standard federal and state government database research in a Phase I environmental site assessment. A (-) indicates a distance not searched because it exceeds these ASTM search parameters.

LIMITATION OF LIABILITY
Customer proceeds at its own risk in choosing to rely on VISTA services, in whole or in part, prior to proceeding with any transaction. VISTA cannot be an insurer of the accuracy of the information, errors occurring in conversion of data, or for customer's use of data. VISTA and its affiliated companies, officers, agents, employees and independent contractors cannot be held liable for accuracy, storage, delivery, loss or expense suffered by customer resulting directly or indirectly from any information provided by VISTA.

NOTES

SITE ASSESSMENT REPORT

Map of Sites within 1 Mile



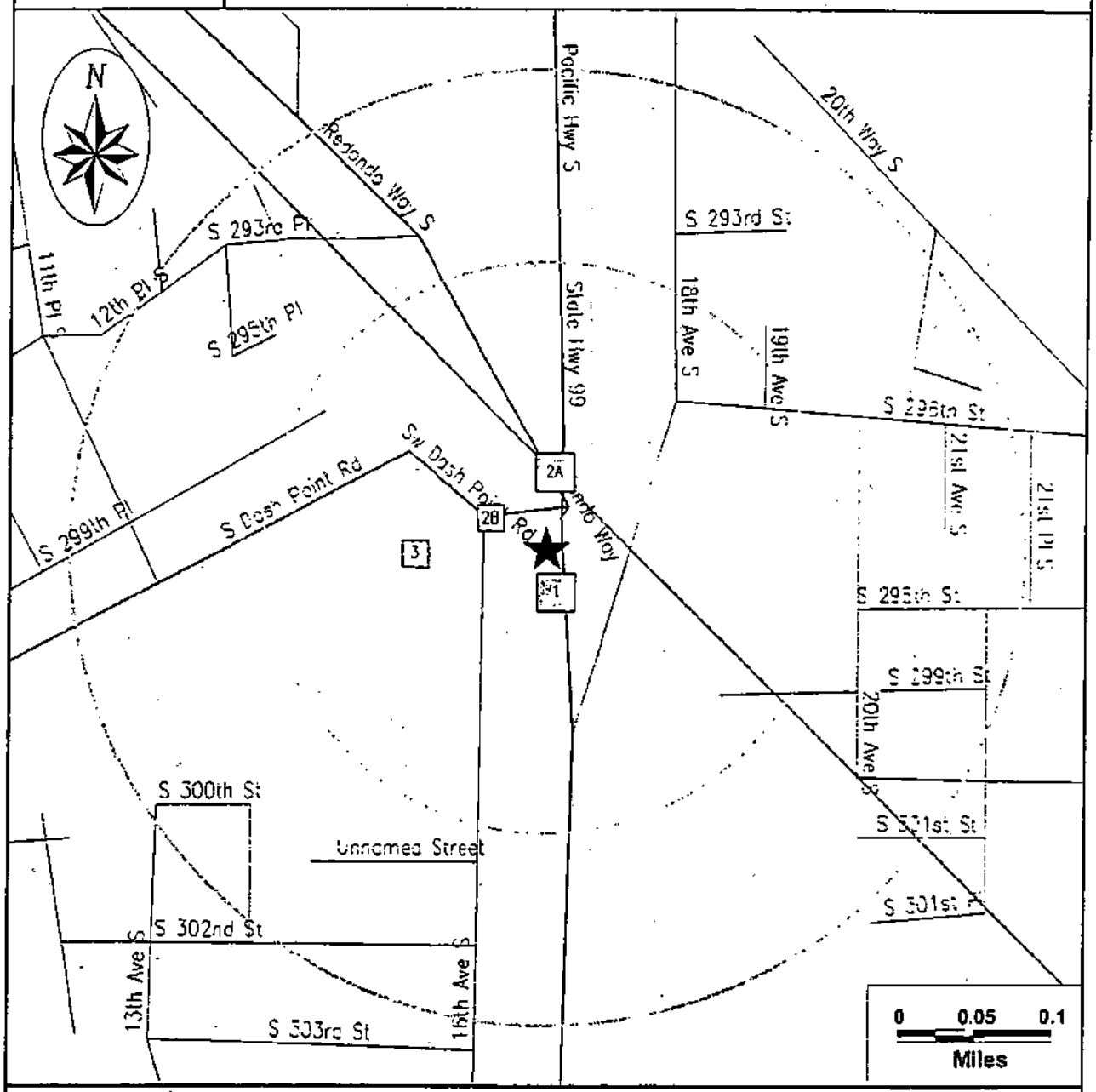
Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 mi.	1/2 mi.	1/4 mi.	1/8 mi.
	Single Sites	◆	□	⟋	○
	Multiple Sites	◆	□	⟋	○
		NPL, SPL, CORRACTS (TSD)	CERCLIS\ NFRAP, TSD, LUST, SWLF, SCL	UST	ERNS, GENERATORS

Highways and Major Roads
Roads
Railroads
Rivers or Water Bodies
Utilities

For More Information Call VISTA Information Solutions, Inc. at **1 - 800 - 767 - 0403**
Report ID: **973601901**
Date of Report: **May 10, 2000**

SITE ASSESSMENT REPORT

Map of Sites within 1/4 Mile



Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 mi.	1/2 mi.	1/4 mi.	1/8 mi.
	Single Sites	◆	□	\	○
	Multiple Sites	◆	▣	\	○
		NPL, SPL, CORRACTS (TSD)	CERCLIS\ NFRAP, TSD, LUST, SWLF, SCL	UST	ERNS, GENERATORS

Highways and Major Roads
Roads
Railroads
Rivers or Water Bodies
Utilities

For More Information Call VISTA Information Solutions, Inc. at **1 - 800 - 767 - 0403**
Report ID: **973601901**
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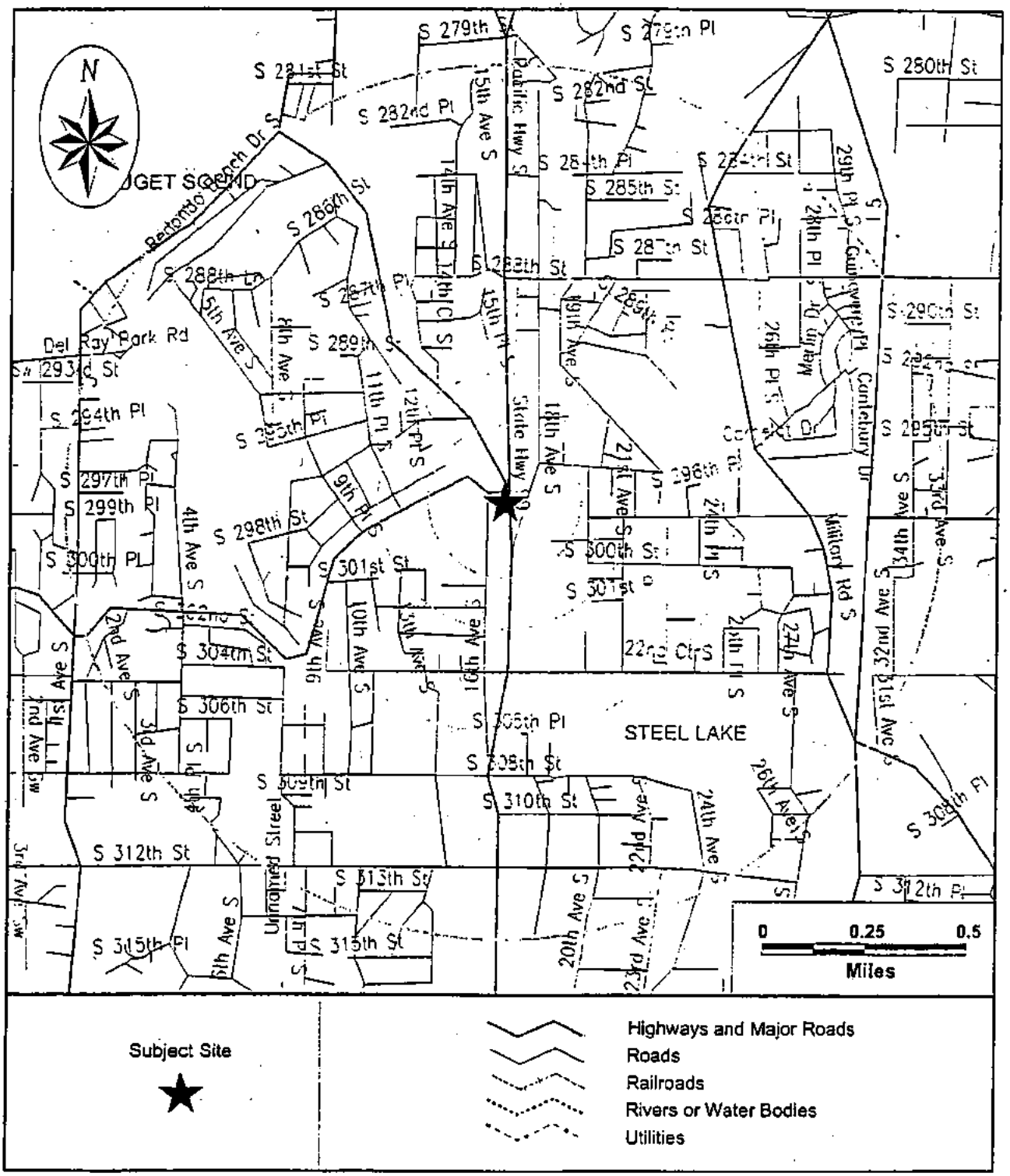
SITE ASSESSMENT REPORT

Street Map



SITE ASSESSMENT REPORT

SITE INVENTORY

MAP ID	PROPERTY AND THE ADJACENT AREA (within 1/8 mile)	VISTA ID / DISTANCE / DIRECTION	A			B						C	D		
			NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	TOXICS	UST	ERNS	LG GEN	SM GEN
1	RENTAL MARTS 29805 PACIFIC HIGHWAY S FEDERAL WAY, WA 98003	64522632 0.00 MI NA										X			
1	RENTAL MART 29805 PACIFIC HWY S. FEDERAL WAY, WA 98003	1837858 0 00 MI NA							X		X				
2A	UNOCAL #6227 29625 PACIFIC HWY S. FEDERAL WAY, WA 98003	4267356 0 00 MI NA									X				
2A	509 DELI TOWN PUMP 29625 PACIFIC HWY S FEDERAL WAY, WA 98003	5399024 0 00 MI NA							X			X			
2B	KING CO REDONDO OIL PIT SR 509 16TH AVE S REDONDO, WA 98054	3270021 0.00 MI NA					X								
3	REDONDO OIL PIT KING CNTY 16TH AV S SW DASH POINT RD REDONDO, WA 98054	1854564 0 03 MI W				X									

MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)	VISTA ID / DISTANCE / DIRECTION	A			B						C	D		
			NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	TOXICS	UST	ERNS	LG GEN	SM GEN
No Records Found															

MAP ID	SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)	VISTA ID DISTANCE DIRECTION	A			B							C	D		
			NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	TOXICS		UST	ERNS	LG GEN	SM GEN
4	TEXACO #004479 28806 PACIFIC HWY S. FEDERAL WAY, WA 98003	3272299 0.47 MI N							X		X					

MAP ID	SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)	VISTA ID DISTANCE DIRECTION	A			B							C	D		
			NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	TOXICS		UST	ERNS	LG GEN	SM GEN
No Records Found																

UNMAPPED SITES	VISTA ID	A			B						C	D		
		NPL	CORRACTS(TSD)	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	TOXICS	UST	ERNS	LG GEN	SM GEN
STA #33 360TH 10TH AVE S FEDERAL WAY, WA 98063	64517375										X			
KENT WA LINE SEG 51 PRINT 468 MP 16.3 3RD SUB PACIFIC DIVISION KENT, WA	64510863										X			

SITE ASSESSMENT REPORT

DETAILS

PROPERTY AND THE ADJACENT AREA (within 1/8 mile)

VISTA Address*:	RENTAL MARTS 29805 PACIFIC HIGHWAY S FEDERAL WAY, WA 98003	VISTA ID#:	64522632	Map ID
		Distance/Direction:	0.00 MI / NA	1
		Plotted as:	Point	
STATE UST - State Underground Storage Tank / SRC# 533		Agency ID:	6523	

Agency Address:	SAME AS ABOVE
Underground Tanks:	4
Aboveground Tanks:	NOT REPORTED
Tanks Removed:	2

Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	1100 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	2U	Tank Status:	REMOVED
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	NOT REPORTED (NOT AVAILABLE)	Tank Material:	NOT AVAILABLE
Tank ID:	3U	Tank Status:	CLOSED IN PLACE
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	1100 (GALLONS)	Tank Material:	NOT AVAILABLE
Tank ID:	4U	Tank Status:	CLOSED IN PLACE
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	35	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	NOT REPORTED (NOT AVAILABLE)	Tank Material:	NOT AVAILABLE

VISTA Address*:	RENTAL MART 29805 PACIFIC HWY S. FEDERAL WAY, WA 98003	VISTA ID#:	1847858	Map ID
		Distance/Direction:	0.00 MI / NA	1
		Plotted as:	Point	
WA Toxics - Washington Toxics / SRC# 531		EPA/Agency ID:	N/A	

Agency Address:	SAME AS ABOVE
Region:	NORTHWEST
State Detail Description:	NO
Contact:	NOT REPORTED
Description:	DATE ECOLOGY RECEIVED REPORT:08/26/1993PETROL
Description:	REPORT TYPE:FINAL
Description:	ISSUE OF SITE REGISTER:93-09
Description:	DATE ECOLOGY RECEIVED REPORT:06/27/1993PETROL
Description:	REPORT TYPE:FINAL

* VISTA address includes enhanced city and ZIP.
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

Description:	ISSUE OF SITE REGISTER:93-35

STATE LUST - State Leaking Underground Storage Tank / SRC# 532		EPA/Agency ID:	N/A
Agency Address:	RENTAL MARTS 29805 PACIFIC HIGHWAY S FEDERAL WAY, WA 980034233		
Facility ID:	6523		
Leak ID#:	4709		
Leak Report Date:	08/26/1993		
Remediation Start Date:	06/01/1995		
Remediation Status:	REPORTED CLEANED UP		
Media Affected:	SOIL		
Region / District:	N		

VISTA Address*:	UNOCAL #6227 29625 PACIFIC HWY S. FEDERAL WAY, WA 98003	VISTA ID#:	4267356	Map ID
		Distance/Direction:	0.00 MI / NA	2A
		Plotted as:	Point	

WA Toxics - Washington Toxics / SRC# 531		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Region:	NORTHWEST		
State Detail Description:	NO		
Contact:	NOT REPORTED		
Description:	DATE ECOLOGY RECEIVED REPORT:01/22/1991PETROL		
Description:	REPORT TYPE:INTERIM		
Description:	ISSUE OF SITE REGISTER:91-21		
Description:	DATE ECOLOGY RECEIVED REPORT:04/12/1991PETROL		
Description:	REPORT TYPE:INTERIM		
Description:	ISSUE OF SITE REGISTER:91-27		

VISTA Address*:	509 DELI TOWN PUMP 29625 PACIFIC HWY S FEDERAL WAY, WA 98003	VISTA ID#:	5398024	Map ID
		Distance/Direction:	0.00 MI / NA	2A
		Plotted as:	Point	

STATE LUST - State Leaking Underground Storage Tank / SRC# 532		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility ID:	8504		
Leak ID#:	1622		
Leak Report Date:	11/22/1989		
Remediation Start Date:	06/01/1995		
Remediation Status:	REPORTED CLEANED UP		
Media Affected:	SOIL		
Region / District:	N		

STATE UST - State Underground Storage Tank / SRC# 533		Agency ID:	8504
Agency Address:	SAME AS ABOVE		
Underground Tanks:	7		
Aboveground Tanks:	NOT REPORTED		
Tanks Removed:	3		

PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	NOT REPORTED (NOT AVAILABLE)	Tank Material:	NOT AVAILABLE
Tank ID:	2U	Tank Status:	REMOVED
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	NOT REPORTED (NOT AVAILABLE)	Tank Material:	NOT AVAILABLE
Tank ID:	4U	Tank Status:	REMOVED
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	30	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	1100 (GALLONS)	Tank Material:	STEEL
Tank ID:	5U	Tank Status:	ACTIVE/IN SERVICE
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	4	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	10000 (GALLONS)	Tank Material:	FRP CLAD STEEL
Tank ID:	6U	Tank Status:	ACTIVE/IN SERVICE
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	4	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	10000 (GALLONS)	Tank Material:	FRP CLAD STEEL
Tank ID:	7U	Tank Status:	ACTIVE/IN SERVICE
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	4	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	10000 (GALLONS)	Tank Material:	FRP CLAD STEEL
Tank ID:	7U	Tank Status:	ACTIVE/IN SERVICE
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	4	Tank Piping:	NOT AVAILABLE
Tank Size (Units):	10000 (GALLONS)	Tank Material:	FRP CLAD STEEL

VISTA Address*:	KING CO REDONDO OIL PIT SR 509 16TH AVE S REDONDO, WA 98054	VISTA ID#:	3270021
		Distance/Direction:	0.00 MI / NA
		Plotted as:	Point
NFRAP / SRC# 18		EPA ID:	WAD981771561

Map ID
2B

Agency Address:	SAME AS ABOVE
EPA Region:	10
Congressional District:	0
Federal Facility:	Agency Code ( )
Facility Ownership:	INDIAN LANDS
Site Incident Category:	unknown
Federal Facility Docket:	SITE IS NOT INCLUDED ON THE DOCKET
NPL Status:	NOT ON NPL
Incident Type:	Unknown
Proposed NPL Update #:	0
Final NPL Update #:	0
Financial Management System ID:	NOT REPORTED
Latitude:	0
Longitude:	0
Lat/Long Source:	Agency Code ( )
Lat/Long Accuracy:	Unknown
Dioxin Tier:	Unknown
USGS Hydro Unit:	17110019
RCRA Indicator:	Unknown
Unit Id:	0
Unit Name:	ENTIRE SITE

Type:	DISCOVERY	Lead Agency:	OTHER
Qualifier:	UNKNOWN	Category:	Unknown
Name:	NOT REPORTED	Actual Start Date:	NOT REPORTED
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN

Type:	PRELIMINARY ASSESSMENT	Lead Agency:	STATE, FUND FINANCED
Qualifier:	HIGHER PRIORITY	Category:	Unknown
Name:	NOT REPORTED	Actual Start Date:	OCTOBER 1, 1988
Plan Status:	Unknown	Actual Completion Date:	OCTOBER 1, 1988

Type:	SCREENING SITE INSPECTION	Lead Agency:	EPA FUND-FINANCED
Qualifier:	NO FURTHER REMEDIAL ACTION PLANNED	Category:	Unknown
Name:	NOT REPORTED	Actual Start Date:	AUGUST 2, 1990
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN

PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

VISTA Address*:	REDONDO OIL PIT KING CNTY 16TH AV S SW DASH POINT RD REDONDO, WA 98054	VISTA ID#:	1854564	Map ID 3
		Distance/Direction:	0.03 MI / W	
		Plotted as:	Point	

SCL - State Equivalent CERCLIS List / SRC# 528		Agency ID:	2200
Agency Address:	*SAME AS ABOVE*		
Status:	*UNKNOWN*		
Facility Type:	*NOT AVAILABLE*		
Lead Agency:	*NOT AVAILABLE*		
State Status:	*AWAITING ASSESSMENT*		
Pollutant 1:	*PETROLEUM*		
Pollutant 2:	*PAH*		
Pollutant 3:	*UNKNOWN*		

SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)

No Records Found

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)

VISTA Address*:	TEXACO #004479 28806 PACIFIC HWY S. FEDERAL WAY, WA 98003	VISTA ID#:	3272299	Map ID 4
		Distance/Direction:	0.47 MI / N	
		Plotted as:	Point	

WA Toxics - Washington Toxics / SRC# 531		EPA/Agency ID:	N/A
Agency Address:	*SAME AS ABOVE*		
Region:	*NORTHWEST*		
State Detail Description:	*NO*		
Contact:	*NOT REPORTED*		
Description:	*DATE ECOLOGY RECEIVED REPORT:02/22/1993PETROL*		
Description:	*REPORT TYPE:INTERIM*		
Description:	*ISSUE OF SITE REGISTER:92-47*		
Description:	*DATE ECOLOGY RECEIVED REPORT:01/19/1994PETROL*		
Description:	*REPORT TYPE:FINAL*		
Description:	*ISSUE OF SITE REGISTER:93-18*		

STATE LUST - State Leaking Underground Storage Tank / SRC# 532		EPA/Agency ID:	N/A
Agency Address:	*TEXACO STATION #63-232-1486* *28806 PACIFIC HWY S* *FEDERAL WAY, WA 980033802*		
Facility ID:	*4479*		
Leak ID#:	*4093*		
Leak Report Date:	*12/04/1992*		
Remediation Start Date:	*06/01/1995*		
Remediation Status:	*REPORTED CLEANED UP*		
Media Affected:	*SOIL*		
Region / District:	*N*		

* VISTA address includes enhanced city and ZIP.
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)
No Records Found

UNMAPPED SITES

Records Found, No Details Displayed

SITE ASSESSMENT REPORT

DESCRIPTION OF DATABASES SEARCHED

A) DATABASES SEARCHED TO 1 MILE

NPL
SRC#: 19

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for NPL was January, 2000.

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program. A site must meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet three specific criteria set jointly by the US Dept of Health and Human Services and the US EPA in order to become an NPL site.

SPL
SRC#: 529

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for Confirmed Contaminated Sites Report was November, 1999.

This database is provided by the Department of Ecology, Toxics Cleanup Program. The agency may be contacted at: 360-407-7200.

CORRACTS
SRC#: 14

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for HWDMS/RCRIS was December, 1999.

The EPA maintains this database of RCRA facilities which are undergoing "corrective action". A "corrective action order" is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may be required beyond the facility's boundary and can be required regardless of when the release occurred, even if it predates RCRA.

RCRA-Tsd Corracts
SRC#: 556

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for HWDMS/RCRIS was December, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste.

B) DATABASES SEARCHED TO 1/2 MILE

CERCLIS
SRC#: 17

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for CERCLIS was October, 1999.

The CERCLIS List contains sites which are either proposed to or on the National Priorities List(NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. The information on each site includes a history of all pre-remedial, remedial, removal and community relations activiies or events at the site, financial funding information for the events, and unrestricted enforcement activities.

NFRAP
SRC#: 18

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for CERCLIS-NFRAP was October, 1999.

NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.

SCL
SRC#: 528

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Suspected Contaminated Sites Report was November, 1999.

This database is provided by the Department of Ecology, Toxics Cleanup Program. The agency may be contacted at: 360-407-7200.

The Washington Affected Media and Contaminants Report includes sites in the following categories: (1) National Priorities List (NPL) Sites, Federal Lead; (2) National Priorities List (NPL) Sites, State Lead; (3) State Sites, Confirmed Hazardous Substances Sites (sites where the presence of hazardous substances has been confirmed by laboratory or field determinations; (4) Potential Hazardous Substance Sites, these sites have been reported to the Department of Ecology and further investigation including sampling is underway; (5) State Sites Under- going Long-Term Monitoring; and (6) Sites For Which Cleanup is Complete. This report includes some leaking underground storage tank sites.

RCRA-TSD
SRC#: 12

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for HWDMS/RCRIS was December, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

SWLF
SRC#: 530

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Municipal Solid Waste Facilities was October, 1999.

This database is provided by the Department of Ecology, Solid Waste Services Program. The agency may be contacted at: 360-407-6133.

The Washington Solid Waste Inventory does not provide facility locations.

LUST
SRC#: 532

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Leaking Underground Storage Tank List was November, 1999.

This database is provided by the Department of Ecology, Toxics Cleanup Program. The agency may be contacted at: 360-4077179 .

The Washington Department of Ecology Leaking Underground Storage Tank List contains some of the same sites included on the Regional lists. This list is being used because there are some "new" sites and it includes a site identification number. Because two lists are being used, sites may be reporting twice.

WA Site Register
SRC#: 531

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Toxic Cleanup Program Site Register was October, 1999.

This database is provided by the Department of Ecology, Toxics Cleanup Program. The agency may be contacted at: 360-407-7200.

The Washington Site Register Toxics Cleanup Program report details activities related to the study and cleanup of hazardous waste sites under the Model Toxics Control Act. Note that the State of Washington cautions that information contained under the Site Description is summarized information from an Independent Report and the Department of Ecology is not responsible for the accuracy of these reports. This report includes some leaking underground storage tank sites.

C) DATABASES SEARCHED TO 1/4 MILE

UST's
SRC#: 533

VISTA conducts a database search to identify all sites within 1/4 mile of your property.
The agency release date for Underground Storage Tank Database was January, 2000.

This database is provided by the Department of Ecology, Solid Hazardous Waste Program. The agency may be contacted at: 360-407-7179: Caution-Many states do not require registration of heating oil tanks, especially those used for residential purposes.

D) DATABASES SEARCHED TO 1/8 MILE

ERNS
SRC#: 8

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for was August, 1999.

The Emergency Response Notification System (ERNS) is a national database containing records from October 1986 to the release date above and is used to collect information for reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the US Coast Guard, the National Response Center and the Department of Transportation. The ERNS hotline number is (202) 260-2342.

RCRA-LgGen
SRC#: 16

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for HWDMS/RCRIS was December, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generators are facilities which generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).

RCRA-SmGen
SRC#: 15

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for HWDMS/RCRIS was December, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small and Very Small generators are facilities which generate less than 1000 kg./month of non-acutely hazardous waste.

End of Report

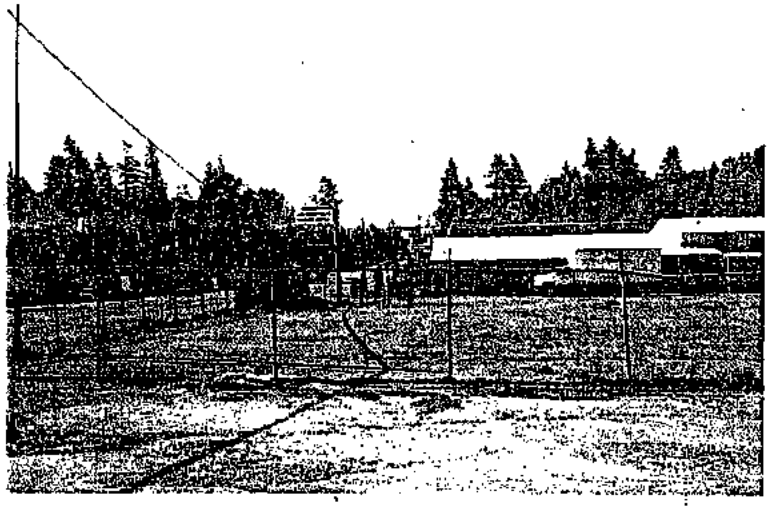


Photo 1

Subject property, located at 29805 Pacific Highway South Federal Way, WA. Viewed facing south along Pacific Highway South.

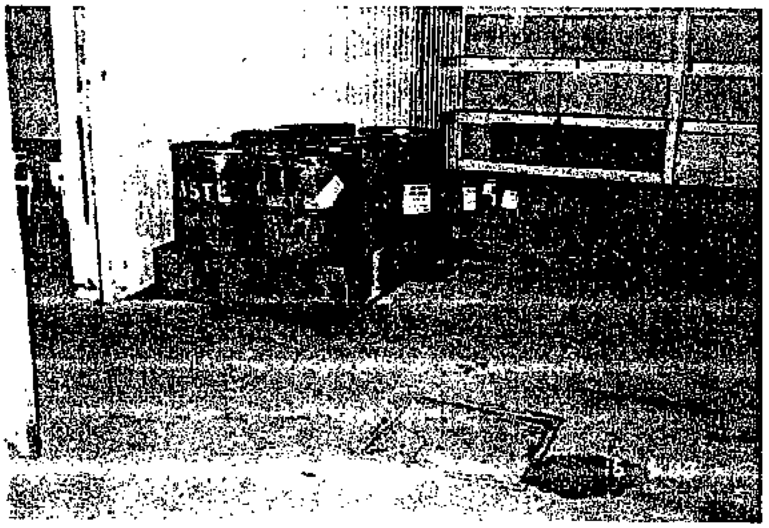


Photo 2

Oil drums, floor staining, and collection sump located in the service bay of the on-site structure.

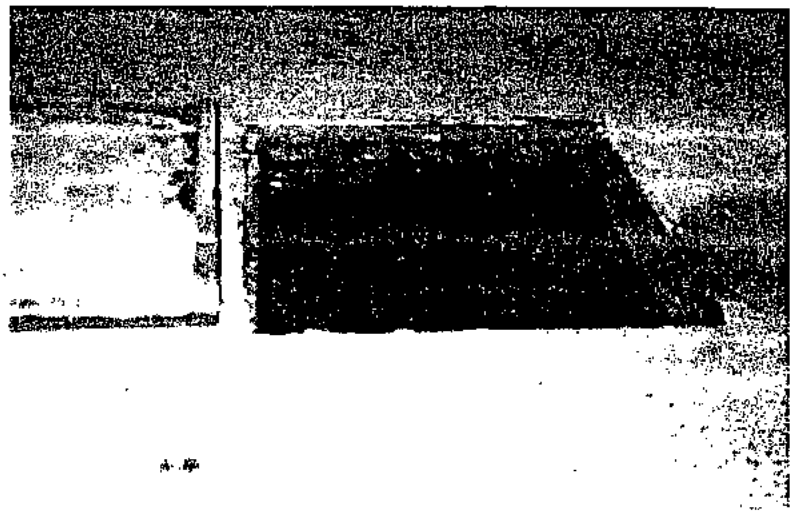


Photo 3

Close up of sump in service bay showing adjacent floor staining, and accumulated water.

Photo 4

Lobby show room inside the on-site structure.

Photo 5

Buckets of wax stripper and paint inside the service bay.

Photo 6

Collection sump located on the north side of the onsite structure. This sump was full of dirt and debris.

Photo 7

Area of a concrete pad located on the northwest side of the subject property.

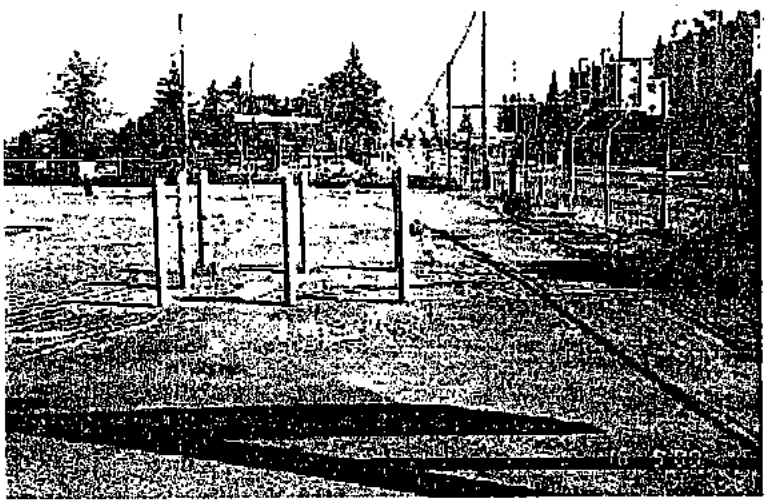


Photo 8

Along the eastern side of the property, facing north along Pacific Highway South. The posts delineate the location of a former propane tank. A 5,000-gallon gasoline UST was removed from the area shown in the foreground in 1993.

Photo 9

An area were small quantities of kerosene were stored during the operation of 40 Rentals. The storage area is located in the vicinity of a former 500-gallon diesel UST, northwest of the onsite structure.

UNDERGRC ID STORAGE TANK
Permanent Closure/Change-In-Service Checklist

006523

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173-360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

MAY 16 1995

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

RECEIVED
AUG - 8 1995
DEPT. OF ECOLOGY

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: BANK OF CALIFORNIA

Owners Address: PO BOX 3123 (Street / P.O. Box)

SEATTLE, WA 98114 (City / State / ZIP Code)

Telephone: (206) 587-6151

Site ID Number (on invoice or available from Ecology if tank is registered): tank #2 CAS

Site/Business Name: RENTAL MART

Site Address: 29805 PACIFIC HIGHWAY S (Street) KING (County)

FEDERAL WAY, WA 98003 (City / State / ZIP Code)

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: O'Sullivan Petroleum Equipment Company License Number: S000036

Address: 3214 16th Avenue S. W. (Street)

Seattle WA 98134 (City / State / P.O. Box / ZIP Code)

Telephone: (206) 682-2440

Licensed Supervisor: [signature] Decommissioning License Number: W001683

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): ?
2. Year installed: N/A
3. Tank capacity in gallons: 5,000
4. Date of last use: ?
5. Last substance stored: GASOLINE
6. Date of closure/change-in-service: 9 Feb 93
7. Type of closure: Closure with Tank Removal ☐ In-place Closure ☐ Change-in-Service ☐
8. If in-place closure is used, the tank has been filled with the following substance: N/A
9. If change-in-service, indicate new substance stored in tank: N/A
10. Local permit(s) (if any) obtained from: DOE, City of Federal Way & Fire Dept.

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes ☒ No ☐

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-396, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 070-15A).

4. CHECKLIST:

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	JCP		
2. Has all product piping been capped or removed?	JCP		
3. Have all non-product lines been capped or removed?	JCP		
4. Have all liquid and accumulated sludges been removed from the tank?	JCP		
5. Has the tank been properly purged or inerted?	JCP		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	JCP		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	JCP		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	JCP		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	JCP		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

9 Feb 93 — Signature of Licensed Supervisor: John C. Rowe

5. ADDITIONAL REQUIRED SIGNATURES:

2-13-93 — Signature of Licensed/Certified Provider [and Owner or Authorized Representative]

7-26-95 — Janice M. Dimick — Signature of Tank Owner or Authorized Representative

N.W. #1

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

For Office Use Only K.B.
Owner # U0000432
Site # 006523

INSTRUCTIONS:

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with Ecology. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 006523

Site/Business Name: Federal Way Rental Mart

Site Address: 29805 Pacific Hwy S (Street) Telephone: ( )

Federal Way (City) WA (State) 98003 (ZIP Code)

MAY 16 1995

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
Tank 1 on sketch	5,000	Gasoline
#2 GASOLINE		

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ____ Investigate suspected release due to on-site environmental contamination
- ____ Investigate suspected release due to off-site environmental contamination.
- ____ Extend temporary closure of UST system for more than 12 months.
- ____ UST system undergoing change-in-service.
- ____ UST system permanently closed-in-place.
- ✓ UST system permanently closed with tank removed.
- ____ Abandoned tank containing product.
- ____ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ____ Other (describe): ____

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

		YES	NO
1.	The location of the UST site is shown on a vicinity map.	✓	
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	✓	
3.	A summary of UST system data is provided. (see Section 3.1)	✓	
4.	The soils characteristics at the UST site are described. (see Section 5.2)	✓	
5.	Is there any apparent groundwater in the tank excavation?		✓
6.	A brief description of the surrounding land use is provided. (see Section 3.1)	✓	
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	✓	
8.	A sketch or sketches showing the following items is provided:		
	- location and ID number for all field samples collected	✓	
	- groundwater samples distinguished from soil samples (if applicable) NA		✓
	- samples collected from stockpiled excavated soil	✓	
	- tank and piping locations and limits of excavation pit	✓	
	- adjacent structures and streets	✓	
	- approximate locations of any on-site and nearby utilities	✓	
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)		✓
10.	A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	✓	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.	✓	
12.	The results of this site check/site assessment indicate that a confirmed release of a regulated substance has not occurred.		✓

SITE ASSESSOR INFORMATION

Robert F. Simons — Person registered with Ecology

Nowick & Associates Inc — Firm Affiliated with

Business Address: 33516 9th Ave S #6 (Street) — Telephone: (___) _____

Federal Way (City) Wa (State) 98003 (ZIP+Code)

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

3/7/93 — Date

Robert F. Simons — Signature of Person Registered with Ecology

Underground Storage Tank Removal

Site Assessment /Site Characterization

Gasoline Tank and Dispenser
DOE ID # 006523

Location: Federal Way Rental Mart
29805 Pacific Hwy S
Federal Way, WA 98003

Owner: Bank of California
PO Box 3123
Seattle, WA 98114
Attn: Jan Dimick

Contractor: O'Sullivan Environmental Services
3214 16th Avenue SW
Seattle, WA 98134

Site Assessor: Robert F. Simons

Robert F. Simons
Site Assessor
Nowicki & Associates Inc.
33516 9th Ave S
Federal Way, WA 98003

Excutive Summary

One approximately 5000 gallon gasoline storage tank and dispenser were removed on 2/9/93 from the Federal Way Rental Mart Site. Contamination was found on top of the tank and on the west side of the tank. Tank and contamination were removed on the afternoon of 2/9/93. Lab analysis done on samples taken at the end of the day showed soils at the site to be below Model Toxic Control Act (MTCA) standards for a clean site. Fifty yards of soil was stored next to the excavation site and lab analysis showed this soil to be contaminated. Lead analysis on stockpiled soil showed lead levels to be below MTCA cleanup levels.

Site History and Uses

Light commercial uses are prevelant along Pacifice Highway. A junior high school is located directly behind the property. A warehouse shop is found to the south of Rental Mart. Accross the street to the east and up an

embankment are apartments which were built within the last five years. Across Dash Point Road to the north is an abandonded service station(now a used car lot) which had its tanks and contamination removed within the last two years.

Prior to the site's current use a tire shop was located on the property facing Pacific Highway. Enclosed is a site sketch showing a foundation and sewers from the former buildings. The gasoline tank removed was installed next to the septic tank and sewer from this demolished structure. Abandonded piping and a concrete pad were located a few feet west of the pump island. Upon excavation this piping appeared to have served an underground tank which had been removed many years ago. Probably this older tank had been in the same area as the present tank which was removed on 2/9/93.

Tank installation was done just prior to 1970 which makes the installation approximately 25 years old.

Tank Removal 2/9/93

Cleaning and inerting of the tank was complete just after 10:00 AM. Representatives from the City of Federal Way Building Department and the local Fire District were onsite at this time to witness the inerting process. Asphalt was cut around the outline of the proposed excavation, but upon actual excavation it was found that the dispenser was over the middle of the tank and the excavation was expanded to compensate. This top to the tank was exposed by about 11:00 AM. Contamination was evident around the plumbing and the top of the tank. Tank removal was accomplished just before 12:00. Tank condition was good with minimal corrosion and no visible holes.

Contamination showed on the west side of the tank and flowed down the tank spreading to the west along the entire length of the tank. Dark grey soil with gasoline odor was excavated west about eight feet. A 4- inch sewer pipe connected to an approximately 1000 gallon septic tank was discovered during the excavation of contaminated soil. The sewer tank was located just to the northwest of the tank. North, south, and east sidewalls along with the bottom appeared to be clean. Excavation progressed west past the sewer pipe approximately eight feet along the entire length of the tank. A strong odor of organics or waste petroleum and solid grey soil was still noticeable on the west side of the excavation. Field screening with the Tank Techtor was done with negative results. Sewer often introduces an odor like waste petroleum and this was later found to be the case.

At approximately 3:30PM samples were taken and sent to Spectra Labs of Tacoma, WA for lab analysis. WTPH-G and BTEX were run on the five excavation samples following DOE Sampling guidelines. Sample results showed the excavation to be below Model Toxic Control Act (MTCA) regulations for a clean site. Sample analysis done on the stockpile confirmed contamination by gasoline. Lead sample analysis was 74 PPM which is below

the MTCA cleanup level of 250 PPM.

No groundwater was encountered during excavation.

Approximately 50 yards of stockpiled soil was placed on 6 mil plastic and the pile covered with 6 mil plastic at the end of the work day.

Closure of this site is recommended.

Sample Log

UST Removal - Gasoline

Federal Way Rental Mart

Date Sampled: 2/9/93

Sampler: Robert F. Simons

#	Location	Lab Results
01	Bottom Center of tank	<20
02	East wall of Excavation	<20
03	North wall of excavation	<20
04	Pump island soil from stockpile	1050 PPM
05	West wall at end of day	<20
06	Stockpile, west end	203 PPM
07	Stockpile, east side	43.3 PPM
08	Stockpile, north side	955 PPM
	Lead	73 PPM

Robert F. Simons

Robert F. Simons
Site Assesser
Nowicki & Associates Inc.

SPECTRA Laboratories, Inc.

CHAIN of CUSTODY DATE 2/9

PAGE 1 OF 1

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850 • FAX (206) 572-9838

LABORATORY ANALYSES REQUEST

CLIENT: Nanovic Eng.
PROJECT: FW Retail Mart
CONTACT: Bob Simons
PHONE #: 922-5233
PURCHASE ORDER #:

SAMPLE ID	DATE	TIME	MATRIX
01	2/9	5:09	
02			
03			
04			
05			
06			
07			
08			

	624/ 8240 VOLATILES	625/ 8270 SEMI-VOLATILE	8240 CHLOR. SOLVENTS	8240 BTEX	602/ 8020 BTEX	418.1 TPH	WTPH-HCID	WTPH-G	WTPH-D	8015 Mod. TPH	LEAD 7421 (WATER)	LEAD 6010 (SOIL)	pH 150.1	TOX 9020/ 9076	METALS 6010/ AES-0029	METALS AA/FURNACE	METALS (8) (TCLP)	8240 VOL (TCLP)	8270 SEMI-VOL (TCLP)	8270 PEST. (6) (TCLP)	8270 HERB. (2) (TCLP)						NORMAL TURNAROUND	RUSH
01																												
02																												
03																												
04																												
05																												
06																												
07																												
08																												

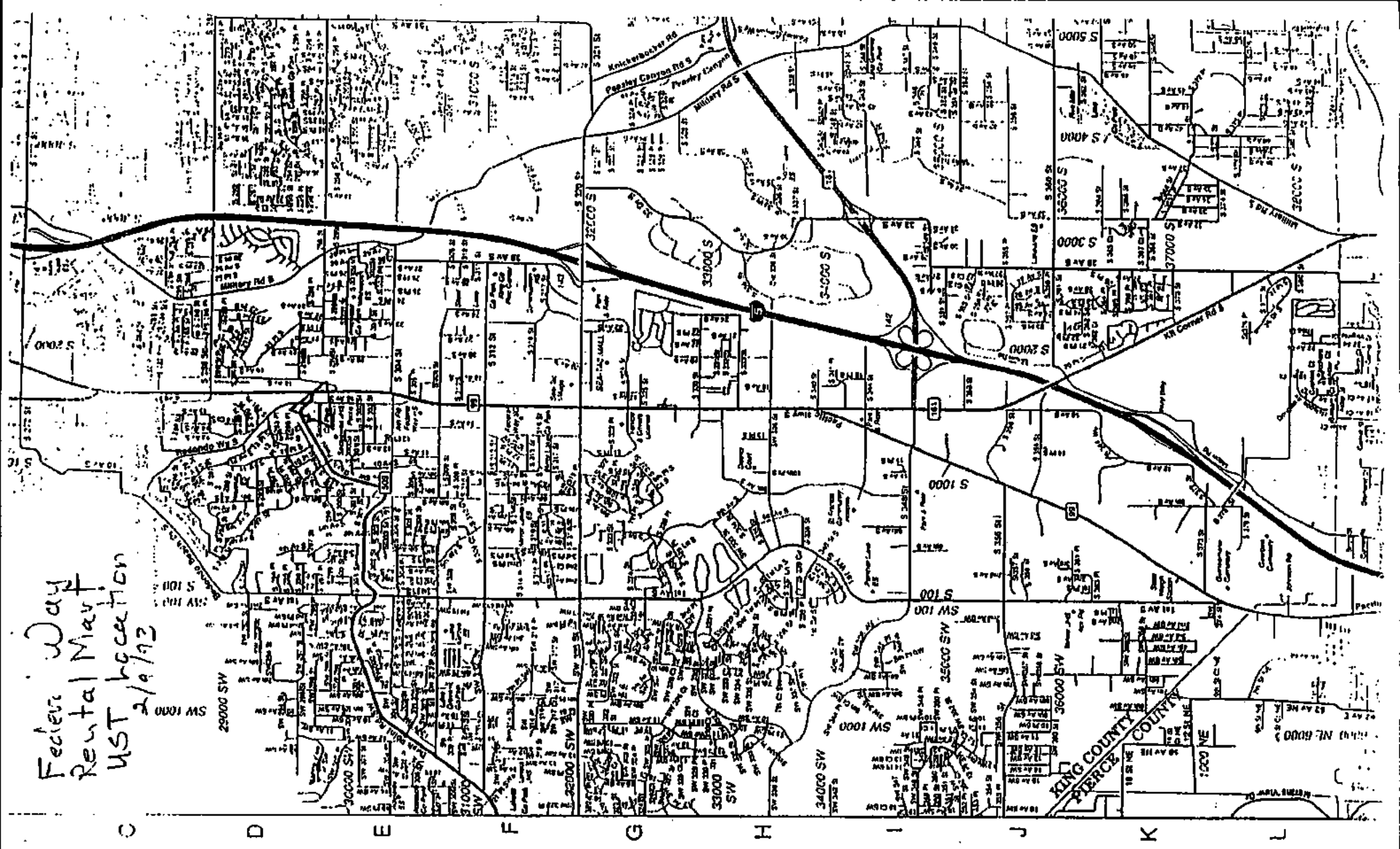
RETURN

DISPOSE
Fee applies

LAB ID

SPECIAL INSTRUCTIONS / COMMENTS:
1. lead as composite
Need early Thursday
2.
oil high in organics

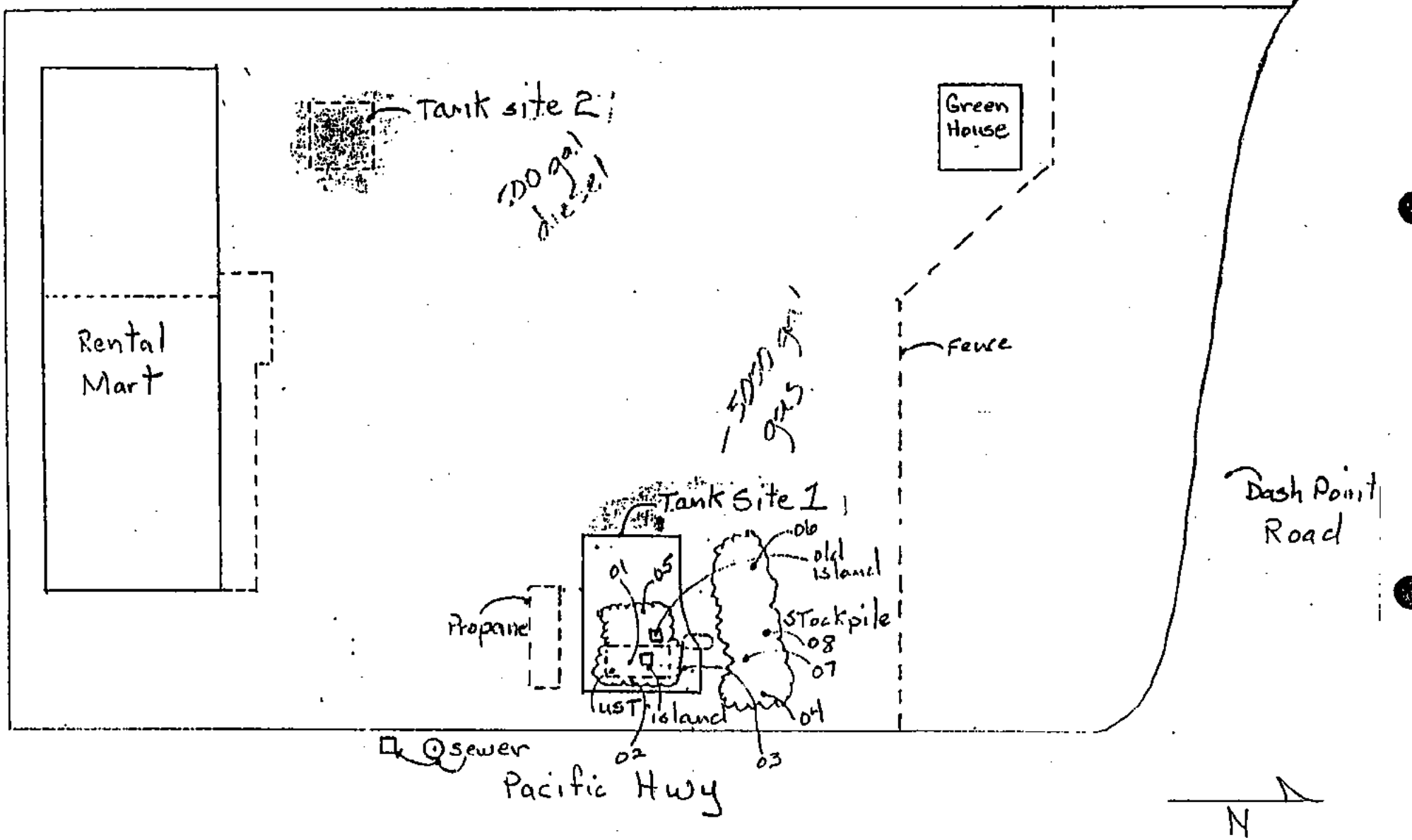
(Signature) Relinquished by:	(Signature) Relinquished by:	(Signature) Relinquished by:
Printed Name: Robert Simons	Printed Name:	Printed Name:
Company: Nanovic	Company:	Company:
Date: 2/9 Time: 5:09	Date: Time:	Date: Time:
(Signature) Received by:	(Signature) Received by:	(Signature) Received by:
Printed Name:	Printed Name:	Printed Name:
Company:	Company:	Company:
Date: 2-9-93 Time: 5:09	Date: Time:	Date: Time:


Federal Way
Rental Mart
UST location
2/6/13
KING COUNTY
PIERCE COUNTY
C
D
E
G
H
I
J
K
L

Federal Way Rental Mart UST Removal

2/9/93

5,000 Gallon Gasoline Tank Site 1



SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Mr. Bob Simons
Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

RE: FW Rental Mart

Dear Mr. Simons,

Please find enclosed the results for the above referenced project.

If you have any questions or need any further information, please feel free to call any time.

Sincerely,

SPECTRA LABORATORIES, INC.

Mike Minner
Lab Director

Enclosure

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #01
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0806
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #02
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0807
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

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Steven G. Hibbs, Chemist

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #03
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0808
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #04
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0809
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	3.68
Total Xylenes	7.68

WTPH-G, mg/Kg	1,050

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #05
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0810
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

WTPH-G, mg/Kg	<20

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Steven G. Hibbs, Chemist

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #06
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0811
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	0.73
Total Xylenes	4.4

WTPH-G, mg/Kg	203

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Steven G. Hibbs, Chemist

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #07
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0812
RUSH

BTEX, EPA Method 8020 Dilution Factor: 1	Date Extracted: 2-10-93 Date Analyzed: 2-10-93 Units: mg/Kg
Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	0.77

WTPH-G, mg/Kg	43.6

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: #08
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0813
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	4.73
Total Xylenes	28.7

WTPH-G, mg/Kg	955

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample ID: Comp. 1,2,3,4,5,6,7,8
Project: FW Rental Mart
Sample Matrix: Soil
Date Sampled: 2-9-93
Date Received: 2-9-93
Spectra Project: S302-074
Spectra #0814
RUSH

Total Lead (Pb), mg/Kg	73

Total Lead testing performed by EPA Method 6010

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Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Sample Matrix: Soil
EPA Method: BETX 8020
Sample Spiked: Method Blank
Date Extracted: 2-1-93
Date Analyzed: 2-1-93
Units: mg/Kg
Spectra Project: S302-074
Applies to Spectra #'s
0806 through 0813

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL RESULTS

Compound	Sample Result	Spike Amount Added	Spike Amount Found	% Recovery	Dup. Spike Amount Found	% Recovery	% RPD
Benzene	<0.30	0.88	0.90	103	0.93	106	4
Toluene	<0.30	0.88	0.96	109	0.98	111	2
Ethylbenzene	<0.30	0.88	0.94	107	0.97	110	3
m,p-Xylene	<0.30	1.70	1.67	98	1.73	102	4
o-Xylene	<0.30	0.88	0.96	109	0.97	110	1

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Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

Method: WTPH-G
Sample Matrix: Soil
Spectra Project: S302-074
Applies to Spectra #'s
0806 through 0813

HYDROCARBON ANALYSIS
QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank
Units: mg/Kg

Date Extracted: 2-1-93
Date Analyzed: 2-1-93

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. Recovery	% RPD
Gasoline	<20	51.4	52	101	46.4	90	11

METHOD BLANK

Date Extracted: 2-10-93

Date Analyzed: 2-10-93

WTPH-G, mg/Kg

<20

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Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

METHOD BLANK
Sample Matrix: Soil
Spectra Project: S302-074
Applies to Spectra #'s
0806 through 0813

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 2-10-93
Date Analyzed: 2-10-93
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethyl Benzene	<0.3
Total Xylenes	<0.3

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Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

February 11, 1993

Nowicki & Associates
33516 9th Ave. S., Bldg. 6
Federal Way, WA 98003

Attn: Bob Simons

METHOD BLANK
Date Analyzed: 2-10-93
Spectra Project: S302-074
Applies to Spectra #0814

Total Lead (Pb), mg/Kg	<4

Total Lead testing performed by EPA Method 6010

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

UNDERGROUND STORAGE TANK
Permanent Closure/Change-In-Service Checklist

S C ✓ N-W 006523 U000432

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

RECEIVED
JUN 26 1993
DEPT OF ECOLOGY
UNDERGROUND STORAGE TANKS

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: BANK OF CALIFORNIA

Owners Address: PO BOX 3123 (Street / P.O. Box)

SEATTLE, WA 98114 (City / State / ZIP Code)

Telephone: (206) 587-6151

Tank #1 Diesel

Site ID Number (on invoice or available from Ecology if tank is registered):

Site/Business Name: RENTAL MART

Site Address: 29805 PACIFIC HIGHWAY S (Street) KING (County)

FEDERAL WAY, WA 98003 (City / State / ZIP Code)

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: O'Sullivan Petroleum Equipment Company License Number: S000036

Address: 3214 16th Avenue S. W. (Street)

Seattle WA 98134 (City / State / P.O. Box / ZIP Code)

Telephone: (206) 682-2440

Licensed Supervisor: Tom C. Ra Decommissioning License Number: W001437

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): N/A
2. Year installed: 1970
3. Tank capacity in gallons: 300
4. Date of last use:
5. Last substance stored: Diesel
6. Date of closure/change-in-service: 7-19-93
7. Type of closure: Closure with Tank Removal ☑ In-place Closure ☐ Change-in-Service ☐
8. If in-place closure is used, the tank has been filled with the following substance: N/A
9. If change-in-service, indicate new substance stored in tank: N/A
10. Local permit(s) (if any) obtained from: KENT HAZARDOUS FIRE PERMIT

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes ☐ No ☐

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 070-15B).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	WL		
2. Has all product piping been capped or removed?	WL		
3. Have all non-product lines been capped or removed?	WL		
4. Have all liquid and accumulated sludges been removed from the tank?	WL		
5. Has the tank been properly purged or inerted?	WL		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	WL		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.			WL
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	WL		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	WL		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173-360 WAC.

7-19-93
Date

William V. Hazeman Jr.
Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

8/15/93
Date

Bradley D. Kaunel for O'SULLIVAN
Signature of Licensed Supervisor, Property Owner or Authorized Representative

Date

Signature of Tank Owner or Authorized Representative

N.W.

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

For Office Use Only
Owner # 100043 K.B.
Site # 006523

INSTRUCTIONS:

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with Ecology. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

MAR 16 1995

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 006523

Site/Business Name: Penkl Marts

Site Address: 29805 Pacific Hwy S. (Street) Telephone: (___) _____

Federal Way (City) Washington (State) 98003 (ZIP Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
#1	500 gallons	diesel fuel

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ___ Investigate suspected release due to on-site environmental contamination
- ___ Investigate suspected release due to off-site environmental contamination.
- ___ Extend temporary closure of UST system for more than 12 months.
- ___ UST system undergoing change-in-service.
- ___ UST system permanently closed-in-place.
- ✓ UST system permanently closed with tank removed.
- ___ Abandoned tank containing product.
- ___ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ___ Other (describe): _____

N.W.

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

For Office Use Only
Owner # 4000432 K.B.
Site # 006523

INSTRUCTIONS:

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with Ecology. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

MAY 16 1995

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 006523

Site/Business Name: Rental Marts

Site Address: 29805 Pacific Hwy S. (Street) Telephone: ( ) _____

Federal Way (City) Washington (State) 98003 (ZIP Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
#1	500 gallons	diesel fuel

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ____ Investigate suspected release due to on-site environmental contamination
- ____ Investigate suspected release due to off-site environmental contamination.
- ____ Extend temporary closure of UST system for more than 12 months.
- ____ UST system undergoing change-in-service.
- ____ UST system permanently closed-in-place.
- ✓ UST system permanently closed with tank removed.
- ____ Abandoned tank containing product.
- ____ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ____ Other (describe): _____

43 7484

N.W. L0000432 K.
8263 806523

UNDERGROUND STORAGE TANK
30 Day Notice of Intent to Close/Decommission Tanks

The purpose of this form is to provide the Department of Ecology with notice of intent to close/decommission an UST. It must be received 30 days prior to the closure [illegible] r of the UST to be closed or his/her authorized repr[illegible] ology will notify the identified person of the earliest d[illegible]

For questions on completing this form pleas[illegible]

Please type or use ink.

The completed checklist should be mailed t[illegible]

Post-it™ brand fax transmittal memo 7671 | # of pages > One

To Joyce Smith	From Darcy Walker
Co. Dept of Ecology	Co. O'Sullivan Petroleum
Dept. UST Section	Phone # 682-2440
Fax # 438-7484	Fax # 621-8568

1. TANK OWNER AND LOCATION

UST Owner/Operator: Bank of California

Owners Mailing Address: 3723 (Street)

Seattle (City) WA (State) 98114 (P.O. Box / ZIP Code)

MAY 16 1995

Telephone: (206) 587-6151

Site ID Number (on invoice or available from Ecology if tank is registered):

Site/Business Name: Rental Mart

Site Address: 29805 Pacific Highway S. (Street) King (County)

Federal Way (City) WA (State) (ZIP Code)

2. TANK PERMANENT CLOSURE TO BE PERFORMED BY (If known)

Firm: O'Sullivan Petroleum Equipment Co.

Address: 3214 16th ave SW (Street)

Seattle (City) WA (State) 98134 (P.O. Box / ZIP Code)

Telephone: (206) 682-2440 Contact Name: DARCY WALKER

3. TANK INFORMATION

Tank Identification	Approx. Closure Date	Tank Capacity (gallons)	Tank Age (years)	Last Substance Stored
#1	May 10/93	~~1000gal.~~ 500	20-25	diesel

4. SIGNATURE OF TANK OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE

Darcy L Walker (Signature) Estimator/Project Manager (Title) 4/2/93 (Date)

N.W. 000043 2 K.
006523

#2

MAY 16 1995

tank #1
Diesel

1/1

Rental Marts
UST Removal Project
Federal Way, Washington

UST Site Assessment

Prepared for:

Janice Dimick
The Bank of California
910 Fourth Avenue
Seattle, Washington 98164

&

O'Sullivan Petroleum Equipment Company
3214 - 16th Avenue SW
Seattle, Washington 98134

July, 26 1993

HAZCON, Inc. Project #4259

HEALTH HAZARD CONTROL SERVICES
HAZCON INC.
4636 E. Marginal Way So. # 215
Seattle, WA 98134
(206) 763-7364

HAZCON INC.
HEALTH HAZARD CONTROL SERVICES

4636 East Marginal Way South, Suite 215 • Seattle, Washington 98134
206.763.7364 • Fax 206.763.4189

July 26, 1993

Janice M. Dimick
Assistant Vice President &
Senior Trust Real Estate Officer
The Bank of California
910 Fourth Avenue
Seattle, Wa 98114

Re: UST Site Assessment and Closure
Rental Marts
12401 Pacific Highway South
Federal Way, Washington

Dear Ms. Dimick:

This letter report presents the findings from the Underground Storage Tank (UST) Site Assessment performed by O'Sullivan Petroleum Equipment Company (OPEC) and Hazcon, Inc., of Seattle, Washington, as part of the removal one 500-gallon diesel fuel UST located at the above referenced property (Figures 1 and 2).

The UST was decommissioned and excavated by O'Sullivan Petroleum Equipment Company (OPEC) of Seattle, Washington. Hazcon, Inc. (Hazcon) performed the UST Site Assessment for the project following Washington State Department of Ecology's (Ecology) Guidelines for Site Checks and Site Assessments for USTs.

The objectives of this project included:

- Removing one 500 gallon diesel fuel UST and associated piping and pump island;
- Determining concentrations of diesel total petroleum hydrocarbons (TPHs) in soil adjacent to and underlying the UST system and associated soil stockpile;
- Comparing concentrations of diesel TPHs detected in soil, if any, to the applicable Washington State Model Toxics Control Act (MTCA) Method A Soil Cleanup Guidelines (WAC 173-340) and Guidance for Remediation of Releases from USTs; and
- Interpreting field and analytical data, documenting field and UST removal activities, making recommendations for additional site characterization (if any), and preparing this report (following Washington State Department of Ecology's Guidance for Site Checks and Site Assessment for USTs).

Location

The Rental Mart is located at 29805 Pacific Highway South, Federal Way, Washington, (Section 4, Township 21 North, Range 4 East) (Figures 1 and 2). The subject property lies approximately one mile southeast of Poverty Bay and seven-tenths mile south of 288th Street, at an elevation of approximately 430 feet above sea level. The area immediately adjacent to the subject property is predominately used for residential or light commercial purposes. The subject property is operated by Rental Marts for equipment rental.

The 500 gallon diesel fuel UST was located approximately 35 feet north of the west end of the Rental Mart facility (Figure 2).

Letter Report Organization

This letter report begins with a Summary of Findings for this project. Following the Summary of Findings is a discussion on project area geology and soil/groundwater conditions. Subsequent sections present other elements of Hazcon's UST Site Assessment investigation (UST history and decommissioning activities, excavation descriptions, soil sampling, laboratory analyses, findings, and conclusions). Figures and Tables accompanying this report follow the main text and are followed by the UST 30-Day Notice of Intent, UST Permanent Closure, and UST Site Assessment Checklists (as filed with Ecology). Supporting technical appendices follow the UST Site Assessment Checklist.

SUMMARY OF FINDINGS

Diesel TPH concentrations detected in soil samples collected within the diesel fuel UST excavation ranged from non-detectable to 140 ppm (below MTCA Method A Soil Cleanup Levels). The TPH concentration (as diesel and lubricating oil) for one representative sample collected from the soil stockpile was 490 ppm (above the MTCA Cleanup Level). The soil stockpile classified as a Class III soil and was disposed of at the permitted Rabanco Landfill (by Rabanco) as a non-hazardous MTCA material.

LOCAL GEOLOGY AND GROUNDWATER

Local Geology

The geology in the vicinity of the subject property is dominated by Upper Pleistocene ground moraine deposits (Waldron, 1961) generally composed of thin ablation till overlying lodgment till (Mullineaux, 1965). Lodgement till is generally a compact, coherent, unsorted mixture of sand, silt, clay, and gravel; commonly termed hardpan. Ablation till is similar, but less compact and coherent. Lodgement till is practically impermeable and relatively difficult to excavate and stable along steep exposures.

Site Geology

Soil within the UST excavation generally consisted of dry gravely sands from the surface to a depth of 2 feet below ground surface (BGS), sandy fine gravel from 2 to 3 feet BGS, and moist gravely sands from 3 feet to at least 8 feet BGS (Photo 1/Appendix A).

Groundwater

Groundwater was not encountered in the UST excavation pit.

UST HISTORY

The 500-gallon diesel fuel UST and pump island dispenser were located 35 feet north of the Rental Marts facility (Figure 2). According to Rental Marts the UST and single pump island dispenser where installed in about 1970. According to records on-file with the Washington State DOE UST Section, this UST was installed before 1965 (personal communication, Roger Nye). The UST was active until being decommissioned on May 21, 1993 (personal communication, Mike Muller, OPEC). The UST system stored diesel fuel #2 during it's tenure and was used to refuel Rental Mart's rental equipment.

The UST system consisted of a single-wall steel tank and associated steel piping. The UST was not anchored nor was it equipped with overfill or cathodic protection. The UST system check valve was located at the pump island dispenser and consisted of suction-type piping. OPEC is unaware of any volumetric tank tightness tests performed on the UST.

The UST was inerted and excavated by OPEC on June 25, 1993. Prior to excavation the UST was triple rinsed and inerted with CO_2 under OPEC's supervision. OPEC removed the UST from the excavation using a tire mounted backhoe. The tank showed minimal signs of rust and corrosion (e.g., pock marks) (Photo 2). OPEC transported the UST to Coastal Tank Inc. of Seattle, Washington for scrap metal (Appendix B).

EXCAVATION SITE DESCRIPTION

The UST was oriented north-south. The removal of the UST, associated piping, and the pump island dispenser (Photo 3) resulted in a single excavation pit (i.e., the pump island and was located above the UST).

OPEC excavated the UST system using a tire mounted backhoe. The UST system excavation pit was 13 feet by 8 feet in plan and had a depth of 8 feet BGS. Approximately 30 cubic yards of excavated soil was stockpiled adjacent to and west of the excavation pit (Figure 2). The soil stockpile was placed on and covered with visquene and bermed. The UST system excavation was surrounded with a chain link fence until site restoration.

SOIL SAMPLING

Soil samples were selected by a Hazcon geologist (registered site assessor with the Washington State Department of Ecology), based on visual and olfactory observations. Hazcon collected a total of eight discrete soil samples from the UST excavation (five samples) and associated soil stockpile (three samples) (Figure 2). The five samples collected from the UST excavation pit included four samples from the excavation pit sidewalls (samples SW1-6.0, SW2-6.5, SW3-6.5, and SW4-7.0) and one from the excavation pit floor (sample B1-8.0). Sidewall samples were collected between 6.0 feet and 7.0 feet BGS. The excavation pit floor sample was collected at 8.0 feet BGS. Groundwater was not encountered the UST excavation pit.

Soil samples from the UST excavation were collected using the backhoe to withdraw soil from the excavation pit. An aliquot of soil was then removed from the center of the backhoe bucket using a stainless steel spoon and transferred to a preconditioned sterilized glass jar (soil sampling protocols, Appendix C). Soil samples collected from the soil stockpile were collected with a hand auger from the approximate soil stockpile center (samples STP1 to STP3). Soil samples were placed in an ice chest and transported to the analytical laboratory. Chain of custody procedures were followed for all samples.

LABORATORY ANALYSES

Soil samples were analyzed for parameters outlined in Ecology's Guidance for Site Checks and Site Assessments for USTs (their Table 6-1. Required and Recommended Analyses for Petroleum Substances). A total of five soil samples (two composite and three discrete soil samples) were analyzed for diesel TPHs by Friedman and Bruya Laboratories, Inc. of Seattle, Washington. Samples SW1-6.0 and SW3-6.5, (collected from the east and south sidewall respectively) were composited together into one sample for analysis (samples were composited together by the laboratory chemist). Samples SW2-6.5, SW4-7.0, and B1-8.0 (west sidewall, north sidewall, pit floor, respectively) were analyzed as discrete soil samples. Soil stockpile samples STP1, STP2, and STP3 were composited together into one sample for analysis.

A full laboratory report and a quality assurance review of the laboratory results are given in Appendix D.

FINDINGS

Composite sidewall sample SW1-6.0/SW3-6.5 had non-detectable diesel TPHs (Table 1). Discrete sidewall samples SW2-6.5 and SW4-7.0 had a diesel TPH concentrations of 80 ppm and 140 ppm, respectively. Soil sample SW4-7.0 was collected from a narrow zone of soil contamination restricted to the northwest corner of the UST excavation (Photo 1). This soil sample was selected with the intent of representing a *worst case scenario* of contaminated soil within this narrow band. Discrete sample B1-8.0 had a diesel TPH concentration of 20 ppm. Soil stockpile composite sample (STP1/STP2/STP3) had a TPH (as a mixture of diesel and lubricating oil) concentration of 490 ppm (see Table 1/Appendix D).

CONCLUSIONS

All soil samples collected from within the UST excavation pit had diesel TPH concentrations below the MTCA Method A Cleanup Guidelines (200 ppm for diesel TPHs). Based on these results, further soil excavation was not required nor recommended. Based on the TPH concentrations detected in the soil stockpile (490 ppm), the soil stockpile designated as a Class III non-hazardous MTCA waste material. According to Ms. Janice Dimick, the petroleum contaminated soil stockpile was subsequently transported by Rabanco and disposed of at Rabanco's permitted landfill facility. The UST system excavation was backfilled with clean fill material to subgrade and finished with asphalt under OPEC supervision.

LIMITATIONS

Work for this project was performed, and this report prepared, in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities at the time the work was performed. Hazcon's results and findings from the select areas do not necessarily reflect the soil or groundwater quality underlying other site areas not investigated. This report is not meant to represent a legal opinion. No other warranty, expressed or implied, is made.

Any questions regarding our work and this letter report, the presentation of the information, and the interpretation of the data are welcome and should be referred to the undersigned.

Sincerely,
Hazcon, Inc.

Paul Riley, M.S.
Project Geologist

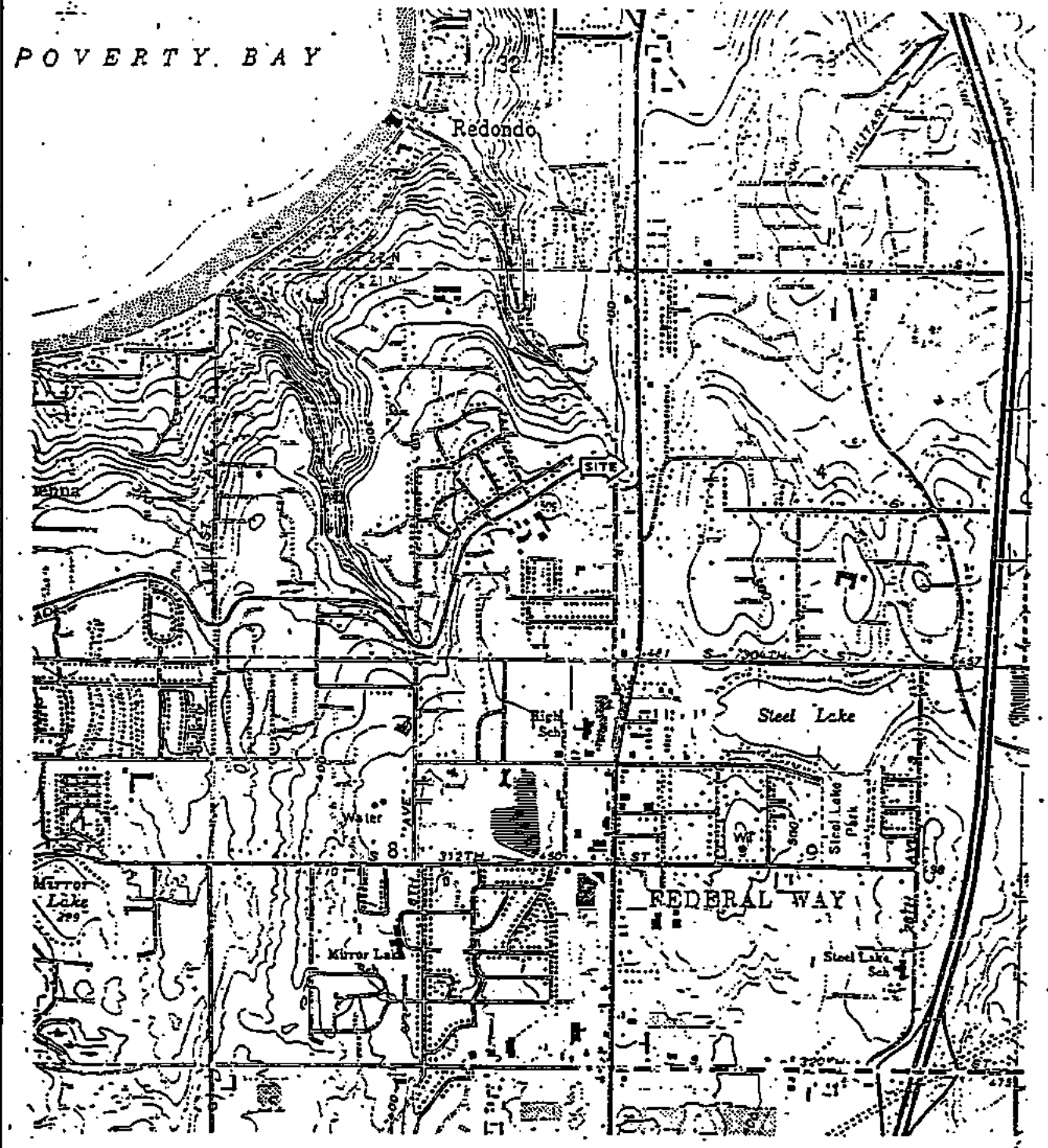
Cynthia Torzynski, M.S.
Staff Geologist
Cynthia Torzynski
Attachments

cc: Mike Muller
O'Sullivan Petroleum Equipment Company
3214 - 16th Avenue SW
Seattle, Wa 98134

John Strub
Federal Way Fire Dept.
31617 - 1st Avenue South
Federal way Washington 98003

Cathy Downs
UST Section
Department of Ecology
P.O. Box 47655
Olympia, Washington 98504-7655

Rental Marts Vicinity Map



From U.S.G.S. 7.5 MIN. X 15 MIN.
Series Quadrangle
Poverty Bay, Washington
1961

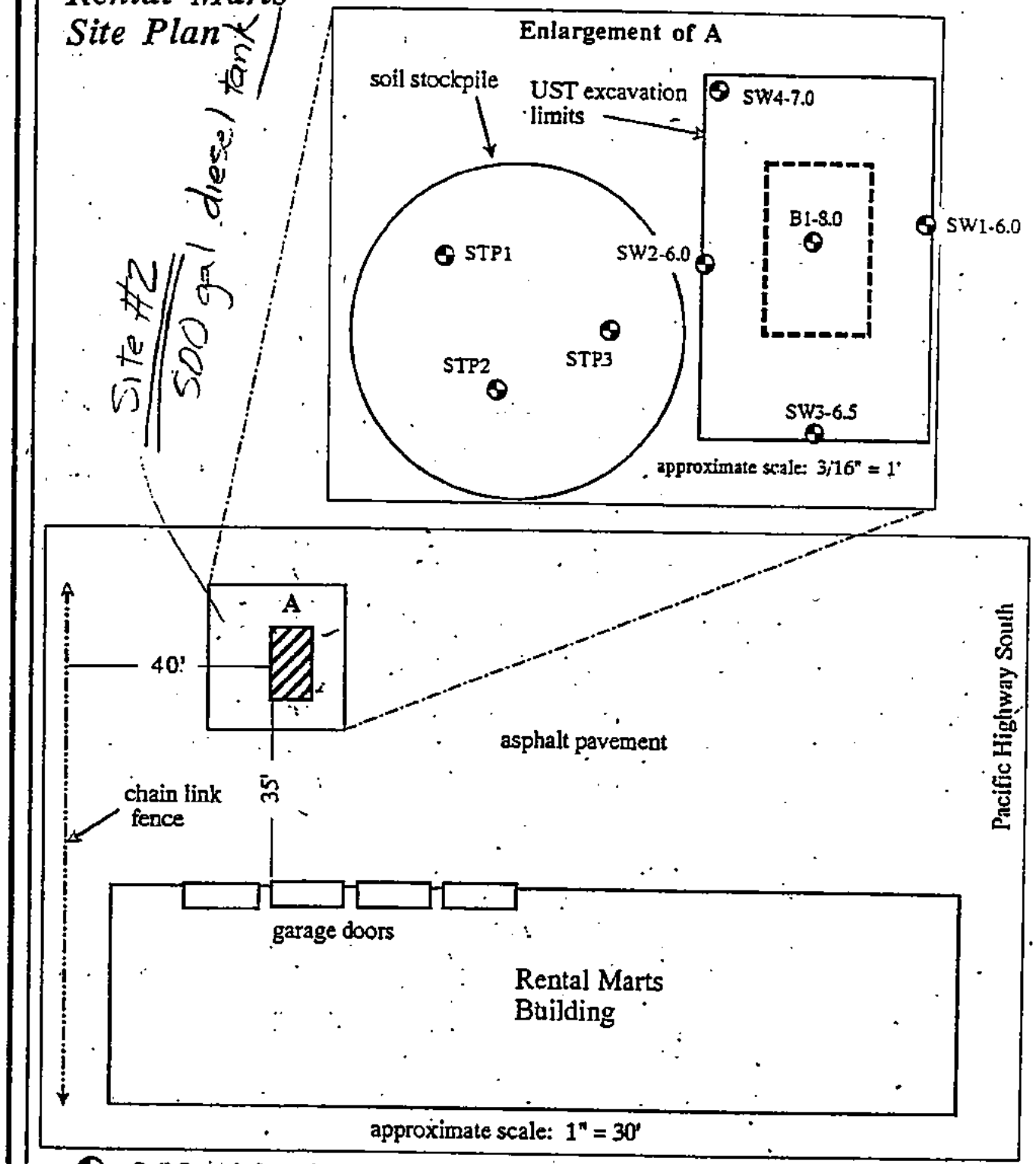
N

Scale: 1: 24 000			Figure 1

HAZCON INC.
HEALTH HAZARD CONTROL SERVICES
4636 E. Marginal Way S.
Suite 215
Seattle, Wa 98134

Rental Marts Site Plan

Site #2
500 gal diesel tank



- Soil Sample Location
- UST Fill Pipe
- Former UST and Associated Pump Island Location
- Outline of Former UST

N

Scales as indicated	Date: 7/26/93	Drawn by: PDR	Figure 2

HEALTH HAZARD CONTROL SERVICES
HAZCON INC.
4636 E. Marginal Way S.
Suite 215
Seattle, Wa 98134

Table 1. Summary of Analytical Results for Soil Samples Collected Adjacent to and Underlying the Diesel Fuel UST and Associated Pump Island.

Sample Number	Soil Sample Location	Sample Depth	Sample Date	WTPH-D (ppm)
B1-8.0	pit floor	8.0	6/25/93	20
B1-8.0 (duplicate)	---	---	---	20
SW1-6.0 & SW3-6.5*	east/south sidewalls	6.0/6.5	6/25/93	<10
SW2-6.5	west sidewall	6.5	6/25/93	80
SW4-7.0	north sidewall	7.0	6/25/93	140
STP1 & STP2 & STP3*	soil stockpile	---	6/25/93	490
MTCA	NA	NA	NA	200

Samples SW1-6.0 & SW3-6.5* collected as two discrete samples and composited together into one sample by the laboratory for analysis.
duplicate, laboratory duplicate analysis.
Sample Depth, given in feet below ground surface.
NA, not applicable.
WTPH-D, Washington State Test Method for diesel range petroleum hydrocarbons.
ppm, parts per million = mg/kg.
MTCA, Model Toxics Control Method A Soil Cleanup Levels (WAC-173-340).

APPENDIX A
Photographs

Photo 1. View of UST system excavation and characteristic soil types. Notice slight petroleum stained soil located at bottom of UST excavation, northwest corner. Soil sample SW4-7.0 was collected from this narrow zone of petroleum contamination.

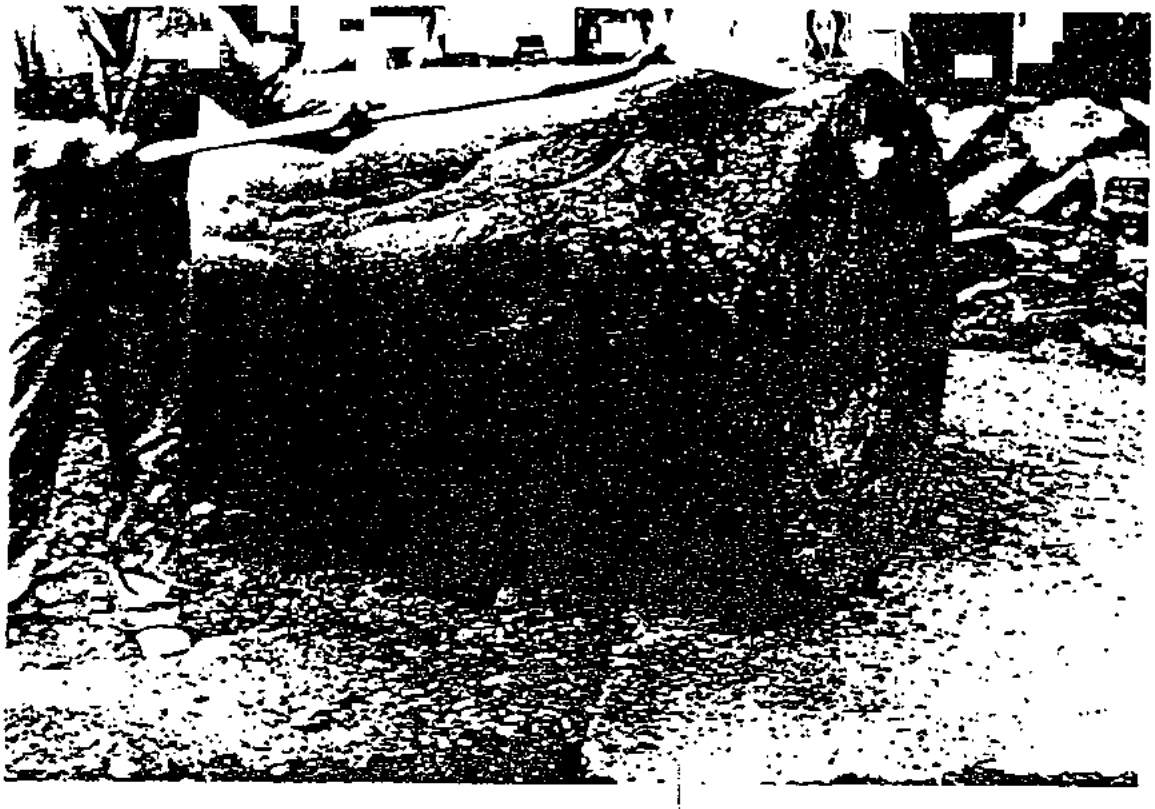


Photo 2. View of 500 gallon diesel fuel UST. Note the presence of minor rust along UST bottom and north end. The rag on north side of UST plugs hole punched by backhoe teeth.

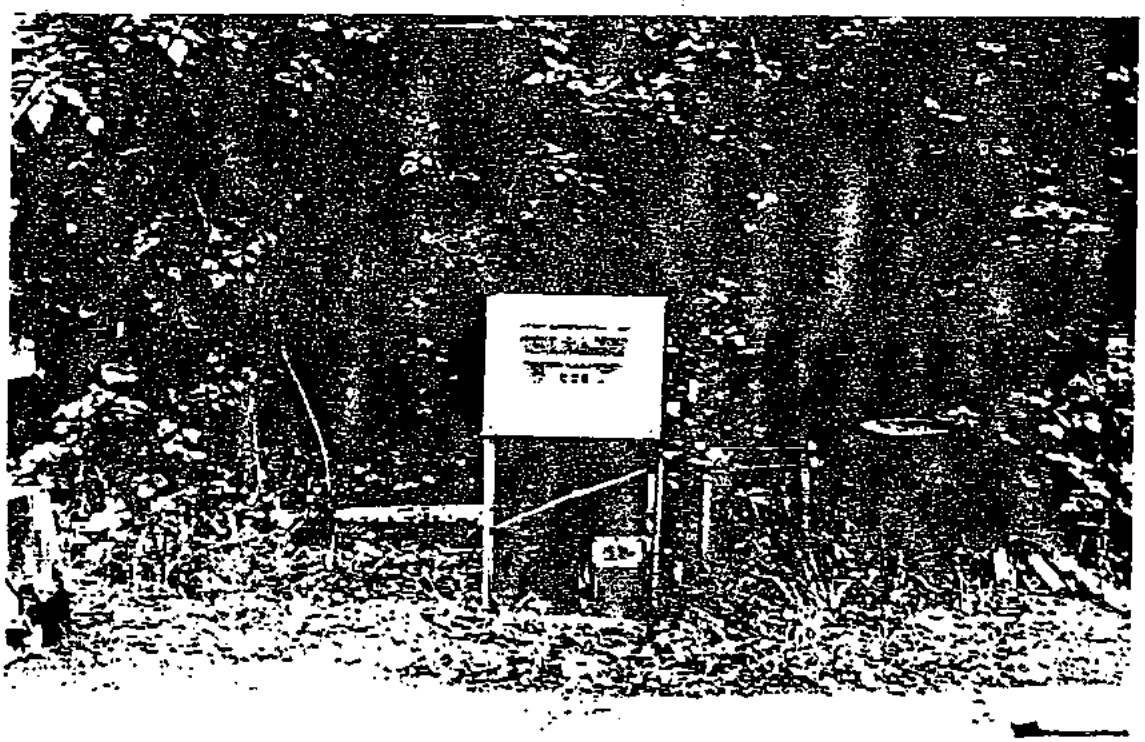


Photo 3. View of decommissioned pump island, formerly used with 500 gallon diesel fuel UST.

APPENDIX B
UST Cleaning and
Disposal Certificate

223-02-CC-AS-TI'202RE

Coastal Tank Cleaning, Inc.
3801 7th Avenue South, Seattle, Washington 98108
Phone (206) 624-98-
Fax No. (206) 624-97E

DISPOSAL CERTIFICATION

DATE: June 15, 1993, 1993

TO: O'Sullivan Petroleum Equipment Co.
3214 16th Ave SW
Seattle, Wa. 98134

JOB SITE : Rental Mart, 29805 Pacific Hwy South, Federal Way

CTC's JOB#: 8429-93

YOUR PO #: 15556

Dear Sirs,

This letter is to certify that Coastal Tank Cleaning, Inc. (CTC) has received the following tank(s) for cleaning and disposal in accordance with all Federal, State and Local rules and regulations:

1: 500 gallon Diesel

DATE RECEIVED: 5-24-93

DATE CLEANED: 5-26-93

DATE DISPOSED: 5-27-93

BILL OF LADING #: 4026

METHOD OF DISPOSAL: Scrap Metal

If you have any questions regarding this matter please feel free to call at (206) 624-9843

Sincerely,

Don Austin
UST DISPOSAL MANAGER

APPENDIX C
Field Exploration & Soil Sampling Protocols

APPENDIX C
FIELD EXPLORATION AND SOIL SAMPLING PROTOCOLS

Soil samples were collected from either the center of the backhoe bucket or the hand auger sampler using a stainless steel spoon. All samples were collected using standard sampling procedures which minimize the risk of sample contamination. Prior to soil sampling, sampling tools were cleaned with a stiff brush and detergent solution consisting of Alconox and warm water, then rinsed with tap water and liberal quantities of distilled, deionized water. The soil samples were collected in 4 ounce borosilicate glass containers with teflon-lined screw caps. Samples were stored in a chilled ice chest and delivered directly to Friedman and Bruya Laboratories, Inc. of Seattle, Washington for analysis. Chain of custody forms accompanied each sample shipment, signed by field personnel, the shipping agency (if used), and the laboratory chemist.

APPENDIX D
Laboratory Report & Quality Assurance Data Review

APPENDIX D
LABORATORY REPORT
& QUALITY ASSURRANCE REVIEW

Analytical results were reported by the laboratory as a net weight value. The results shown in this report were converted to dry weight values by dividing the wet weight results by the percentage of total solids in the soil sample.

Laboratory quality assurance and quality control was performed by analyzing duplicate samples and surrogate recoveries. The duplicate sample results indicate good sampling and analytical precision.

In general, all analytical data were deemed acceptable.

FRIEDMAN & BRUYA, INC.
ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3008-B 16th Avenue West
Seattle, WA 98119
FAX: (206) 283-5044

May 27, 1993

Paul Riley, Project Leader
HAZCON
4636 E. Marginal Way South, Suite 215
Seattle, WA 98134

Dear Mr. Riley:

Enclosed are the results from the testing of material submitted on May 25, 1993 from Project 4259, Rental Marts.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

Amy Gray

Amy M. Gray
Chemist

AMG/dp

Enclosures

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: May 27, 1993
Date Received: May 25, 1993
Project: 4259, Rental Marts
Date Samples Extracted: May 26, 1993
Date Extracts Analyzed: May 26, 1993

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL BY GC/FID (Modified 8015) per Washington DOE Guidelines

Results Reported as µg/g (ppm)

Sample #	Diesel	Internal Standard (% Recovery)
Composite: SW1 - 6.0 SW3 - 6.5	<10	93%
SW2 - 6.5	80	91%
SW4 - 7.0	140	93%
B1 - 8.0	20	90%
Composite: STP1 STP2 STP3	490[id]	93%
Quality Assurance		
Blank	<10	95%
B1 - 8.0 (Duplicate)	20	92%
B1 - 8.0 (Matrix Spike) % Recovery	71%	90%
B1 - 8.0 (Matrix Spike Duplicate) % Recovery	70%	89%
Spike Blank % Recovery	71%	91%
Spike Level	500	

[id] The material present appears to be indicative of a mixture of diesel and a lubricating oil.

FRIEDMAN & BRUYA, INC.
1008 B 76th Avenue West
Seattle, WA 98119

SAMPLE CHAIN OF CUSTODY

Send Report To:
Company Hazcon Inc Contact Paul Riley
Address 4636 E. Marginal Way Suite 215
City, State, Zip Seattle, WA 98134
Phone # (206) 763-7364 Date 5/25/93

SITE NO.	PROJECT NAME	PURCHASE ORDER #
4259	Rental Mats	

SAMPLERS (Signature)

PROJECT LOCATION: Federal Way

REMARKS: Need results on May 26

SAMPLE DISPOSAL INFORM.
- X Dispose after 30 days
- O Return Samples
- O Call for Instructions

SAMPLE #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyses Requested
SW1-6.0	5/25/93 11:10	Soil	1	40310	X COMPOSITE; WTPH-D
SW3-6.5	11:45			40311	
SW2-6.5	13:35			40312	WTPH-D
SC04-7.0	12:10			40313	WTPH-D
B1-8.0	11:25			40314	WTPH-D
STP1	12:05			40315	X
STP2	12:08			40316	COMPOSITE;
STP3	12:12			40317	WTPH-D

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by:	Paul Riley	Hazcon, Inc.	5/25/93	12:45
Received by:	CL Hecks	F&BI	5:25:93	3:45PM
Relinquished by:				
Received by:				

APPENDIX E
References

APPENDIX E
REFERENCES

Guidance for Site Checks and Site Assessment for Underground Storage Tanks, Washington State Department of Ecology Underground Storage Tank Program, Revised October, 1992,

Guidance for Remediation of Releases from Underground Storage Tanks, Washington State Department of Ecology Toxics Cleanup Program, July 1991.

The Model Toxics Control Act Cleanup Regulations Chapter 173-340 WAC, February 28, 1991.

Waldron, H.,: Geologic Map of the Poverty Bay Quadrangle (scale 1:24,000), Washington, 1961.

APPLICATION FOR AUTHORIZATION TO USE

Phase I Environmental Site Assessment
40 Rentals
29805 Pacific Highway South
Federal Way, Washington

KLEINFELDER PROJECT NUMBER 60-2081-01

June 13, 2000

TO: Kleinfelder, Inc.
2405 140th Avenue NE, Suite A101
Bellevue, Washington 98005

FROM:

Applicant _____ hereby applies for permission to:
[State here the use(s) contemplated]

for the purpose(s) of:
[State here why you wish to do what is contemplated as set forth above]

Applicant understands and agrees that the above identified report prepared by Kleinfelder, Inc. is the copyright owner and that unauthorized use or copying of the above identified report is strictly prohibited without the express written permission of Kleinfelder, Inc. and Kleinfelder's client. Applicant understands that Kleinfelder, Inc. and/or Kleinfelder's client, may withhold such permission at its sole discretion, or grant such permission upon such terms and conditions as it deems acceptable.

Dated: _____

_____
Applicant

by _____

its _____

Copyright 2000 Kleinfelder, Inc.

HEALTH HAZARD CONTROL SERVICES

HAZCON INC.

UST 006523 NWO623

RECEIVED
SEP 09 1993
DEPT. OF ECOLOGY

EPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS
AUG 26 1993

DEPARTMENT OF ECOLOGY
NWRO/TCP TANK UNIT
INTERIM CLEANUP REPORT
SITE CHARACTERIZATION
FINAL CLEANUP REPORT
OTHER
AFFECTED MEDIA: SOIL GW
OTHER
INSPECTOR (UNIT) DATE 9/22/93

9/14/93

Rental Marts
UST Removal Project
Federal Way, Washington

UST Site Assessment

Prepared for:

Janice Dimick
The Bank of California
910 Fourth Avenue
Seattle, Washington 98164

&

O'Sullivan Petroleum Equipment Company
3214 - 16th Avenue SW
Seattle, Washington 98134

July, 26 1993

HAZCON, Inc. Project #4259

HEALTH HAZARD CONTROL SERVICES
HAZCON INC.
4636 E. Marginal Way So. # 215
Seattle, WA 98134
(206) 763-7364

HAZCON INC.
HEALTH HAZARD CONTROL SERVICES

4636 East Marginal Way South, Suite 215 • Seattle, Washington 98134
206.763.7364 • Fax 206.763.4189

July 26, 1993

Janice M. Dimick
Assistant Vice President &
Senior Trust Real Estate Officer
The Bank of California
910 Fourth Avenue
Seattle, Wa 98114

Re: UST Site Assessment and Closure
Rental Marts
12401 Pacific Highway South
Federal Way, Washington

Dear Ms. Dimick:

This letter report presents the findings from the Underground Storage Tank (UST) Site Assessment performed by O'Sullivan Petroleum Equipment Company (OPEC) and Hazcon, Inc., of Seattle, Washington, as part of the removal one 500-gallon diesel fuel UST located at the above referenced property (Figures 1 and 2).

The UST was decommissioned and excavated by O'Sullivan Petroleum Equipment Company (OPEC) of Seattle, Washington. Hazcon, Inc. (Hazcon) performed the UST Site Assessment for the project following Washington State Department of Ecology's (Ecology) Guidelines for Site Checks and Site Assessments for USTs.

The objectives of this project included:

- Removing one 500 gallon diesel fuel UST and associated piping and pump island;
- Determining concentrations of diesel total petroleum hydrocarbons (TPHs) in soil adjacent to and underlying the UST system and associated soil stockpile;
- Comparing concentrations of diesel TPHs detected in soil, if any, to the applicable Washington State Model Toxics Control Act (MTCA) Method A Soil Cleanup Guidelines (WAC 173-340) and Guidance for Remediation of Releases from USTs; and
- Interpreting field and analytical data, documenting field and UST removal activities, making recommendations for additional site characterization (if any), and preparing this report (following Washington State Department of Ecology's Guidance for Site Checks and Site Assessment for USTs).

Location

The Rental Mart is located at 29805 Pacific Highway South, Federal Way, Washington, (Section 4, Township 21 North, Range 4 East) (Figures 1 and 2). The subject property lies approximately one mile southeast of Poverty Bay and seven-tenths mile south of 288th Street, at an elevation of approximately 430 feet above sea level. The area immediately adjacent to the subject property is predominately used for residential or light commercial purposes. The subject property is operated by Rental Marts for equipment rental.

The 500 gallon diesel fuel UST was located approximately 35 feet north of the west end of the Rental Mart facility (Figure 2).

Letter Report Organization

This letter report begins with a Summary of Findings for this project. Following the Summary of Findings is a discussion on project area geology and soil/groundwater conditions. Subsequent sections present other elements of Hazcon's UST Site Assessment investigation (UST history and decommissioning activities, excavation descriptions, soil sampling, laboratory analyses, findings, and conclusions). Figures and Tables accompanying this report follow the main text and are followed by the UST 30-Day Notice of Intent, UST Permanent Closure, and UST Site Assessment Checklists (as filed with Ecology). Supporting technical appendices follow the UST Site Assessment Checklist.

SUMMARY OF FINDINGS

Diesel TPH concentrations detected in soil samples collected within the diesel fuel UST excavation ranged from non-detectable to 140 ppm (below MTCA Method A Soil Cleanup Levels). The TPH concentration (as diesel and lubricating oil) for one representative sample collected from the soil stockpile was 490 ppm (above the MTCA Cleanup Level). The soil stockpile classified as a Class III soil and was disposed of at the permitted Rabanco Landfill (by Rabanco) as a non-hazardous MTCA material.

LOCAL GEOLOGY AND GROUNDWATER

Local Geology

The geology in the vicinity of the subject property is dominated by Upper Pleistocene ground moraine deposits (Waldron, 1961) generally composed of thin ablation till overlying lodgment till (Mullineaux, 1965). Lodgement till is generally a compact, coherent, unsorted mixture of sand, silt, clay, and gravel; commonly termed hardpan. Ablation till is similar, but less compact and coherent. Lodgement till is practically impermeable and relatively difficult to excavate and stable along steep exposures.

Site Geology

Soil within the UST excavation generally consisted of dry gravely sands from the surface to a depth of 2 feet below ground surface (BGS), sandy fine gravel from 2 to 3 feet BGS, and moist gravely sands from 3 feet to at least 8 feet BGS (Photo 1/Appendix A).

Groundwater

Groundwater was not encountered in the UST excavation pit.

UST HISTORY

The 500-gallon diesel fuel UST and pump island dispenser were located 35 feet north of the Rental Marts facility (Figure 2). According to Rental Marts the UST and single pump island dispenser where installed in about 1970. According to records on-file with the Washington State DOE UST Section, this UST was installed before 1965 (personal communication, Roger Nye). The UST was active until being decommissioned on May 21, 1993 (personal communication, Mike Muller, OPEC). The UST system stored diesel fuel #2 during it's tenure and was used to refuel Rental Mart's rental equipment.

The UST system consisted of a single-wall steel tank and associated steel piping. The UST was not anchored nor was it equipped with overfill or cathodic protection. The UST system check valve was located at the pump island dispenser and consisted of suction-type piping. OPEC is unaware of any volumetric tank tightness tests performed on the UST.

The UST was inerted and excavated by OPEC on June 25, 1993. Prior to excavation the UST was triple rinsed and inerted with CO_2 under OPEC's supervision. OPEC removed the UST from the excavation using a tire mounted backhoe. The tank showed minimal signs of rust and corrosion (e.g., pock marks) (Photo 2). OPEC transported the UST to Coastal Tank Inc. of Seattle, Washington for scrap metal (Appendix B).

EXCAVATION SITE DESCRIPTION

The UST was oriented north-south. The removal of the UST, associated piping, and the pump island dispenser (Photo 3) resulted in a single excavation pit (i.e., the pump island and was located above the UST).

OPEC excavated the UST system using a tire mounted backhoe. The UST system excavation pit was 13 feet by 8 feet in plan and had a depth of 8 feet BGS. Approximately 30 cubic yards of excavated soil was stockpiled adjacent to and west of the excavation pit (Figure 2). The soil stockpile was placed on and covered with visquene and bermed. The UST system excavation was surrounded with a chain link fence until site restoration.

SOIL SAMPLING

Soil samples were selected by a Hazcon geologist (registered site assessor with the Washington State Department of Ecology), based on visual and olfactory observations. Hazcon collected a total of eight discrete soil samples from the UST excavation (five samples) and associated soil stockpile (three samples) (Figure 2). The five samples collected from the UST excavation pit included four samples from the excavation pit sidewalls (samples SW1-6.0, SW2-6.5, SW3-6.5, and SW4-7.0) and one from the excavation pit floor (sample B1-8.0). Sidewall samples were collected between 6.0 feet and 7.0 feet BGS. The excavation pit floor sample was collected at 8.0 feet BGS. Groundwater was not encountered the UST excavation pit.

Soil samples from the UST excavation were collected using the backhoe to withdraw soil from the excavation pit. An aliquot of soil was then removed from the center of the backhoe bucket using a stainless steel spoon and transferred to a preconditioned sterilized glass jar (soil sampling protocols, Appendix C). Soil samples collected from the soil stockpile were collected with a hand auger from the approximate soil stockpile center (samples STP1 to STP3). Soil samples were placed in an ice chest and transported to the analytical laboratory. Chain of custody procedures were followed for all samples.

LABORATORY ANALYSES

Soil samples were analyzed for parameters outlined in Ecology's Guidance for Site Checks and Site Assessments for USTs (their Table 6-1. Required and Recommended Analyses for Petroleum Substances). A total of five soil samples (two composite and three discrete soil samples) were analyzed for diesel TPHs by Friedman and Bruya Laboratories, Inc. of Seattle, Washington. Samples SW1-6.0 and SW3-6.5, (collected from the east and south sidewall respectively) were composited together into one sample for analysis (samples were composited together by the laboratory chemist). Samples SW2-6.5, SW4-7.0, and B1-8.0 (west sidewall, north sidewall, pit floor, respectively) were analyzed as discrete soil samples. Soil stockpile samples STP1, STP2, and STP3 were composited together into one sample for analysis.

A full laboratory report and a quality assurance review of the laboratory results are given in Appendix D.

FINDINGS

Composite sidewall sample SW1-6.0/SW3-6.5 had non-detectable diesel TPHs (Table 1). Discrete sidewall samples SW2-6.5 and SW4-7.0 had a diesel TPH concentrations of 80 ppm and 140 ppm, respectively. Soil sample SW4-7.0 was collected from a narrow zone of soil contamination restricted to the northwest corner of the UST excavation (Photo 1). This soil sample was selected with the intent of representing a *worst case scenario* of contaminated soil within this narrow band. Discrete sample B1-8.0 had a diesel TPH concentration of 20 ppm. Soil stockpile composite sample (STP1/STP2/STP3) had a TPH (as a mixture of diesel and lubricating oil) concentration of 490 ppm (see Table 1/Appendix D).

CONCLUSIONS

All soil samples collected from within the UST excavation pit had diesel TPH concentrations below the MTCA Method A Cleanup Guidelines (200 ppm for diesel TPHs). Based on these results, further soil excavation was not required nor recommended. Based on the TPH concentrations detected in the soil stockpile (490 ppm), the soil stockpile designated as a Class III non-hazardous MTCA waste material. According to Ms. Janice Dimick, the petroleum contaminated soil stockpile was subsequently transported by Rabanco and disposed of at Rabanco's permitted landfill facility. The UST system excavation was backfilled with clean fill material to subgrade and finished with asphalt under OPEC supervision.

LIMITATIONS

Work for this project was performed, and this report prepared, in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities at the time the work was performed. Hazcon's results and findings from the select areas do not necessarily reflect the soil or groundwater quality underlying other site areas not investigated. This report is not meant to represent a legal opinion. No other warranty, expressed or implied, is made.

Any questions regarding our work and this letter report, the presentation of the information, and the interpretation of the data are welcome and should be referred to the undersigned.

Sincerely,
Hazcon, Inc.

Paul Riley, M.S.
Project Geologist

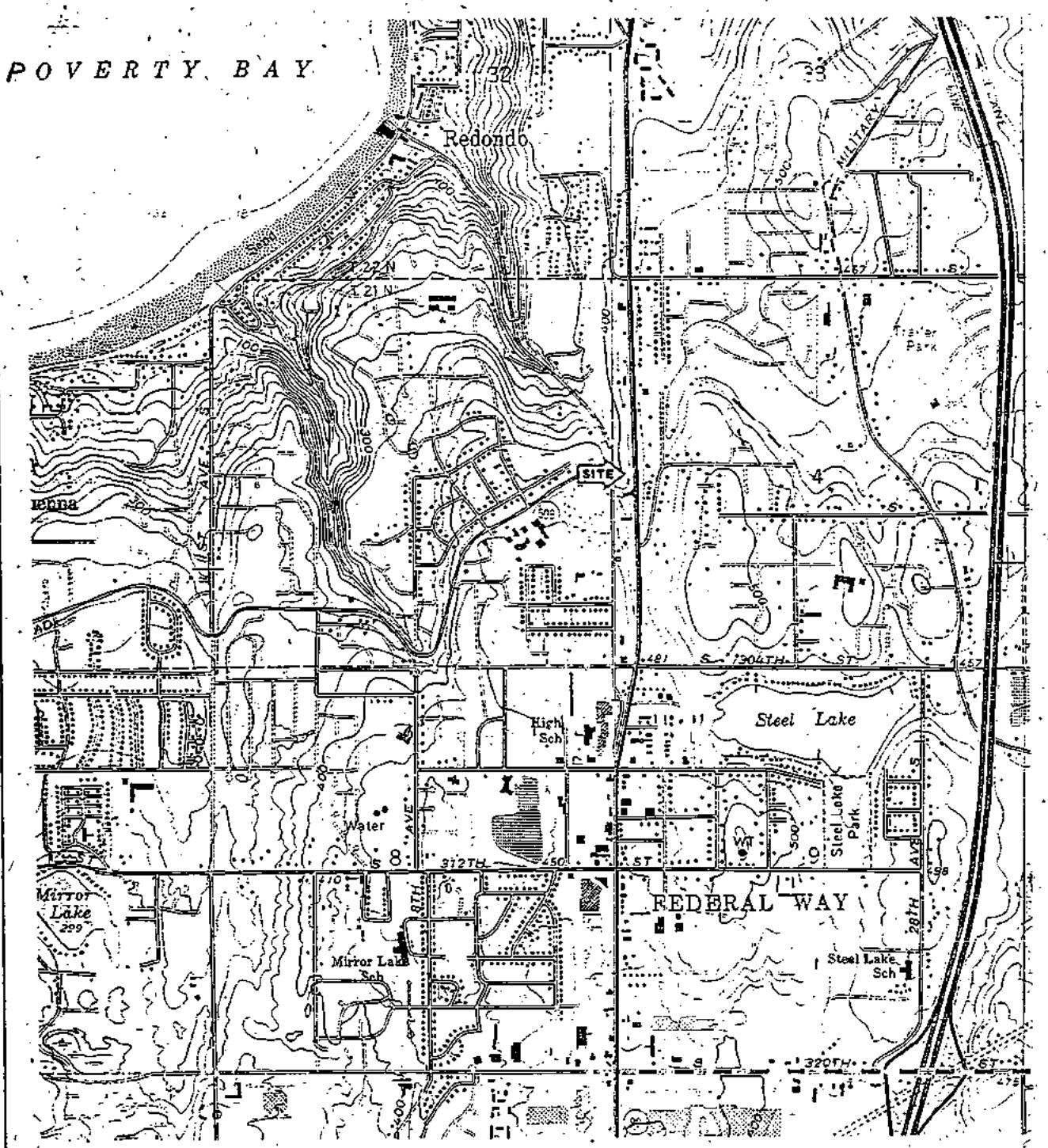
Cynthia Torzynski, M.S.
Staff Geologist
Cynthia Torzynski
Attachments

cc: Mike Muller
O'Sullivan Petroleum Equipment Company
3214 - 16th Avenue SW
Seattle, Wa 98134

John Strub
Federal Way Fire Dept.
31617 - 1st Avenue South
Federal way Washington 98003

Cathy Downs
UST Section
Department of Ecology
P.O. Box 47655
Olympia, Washington 98504-7655

Rental Marts Vicinity Map



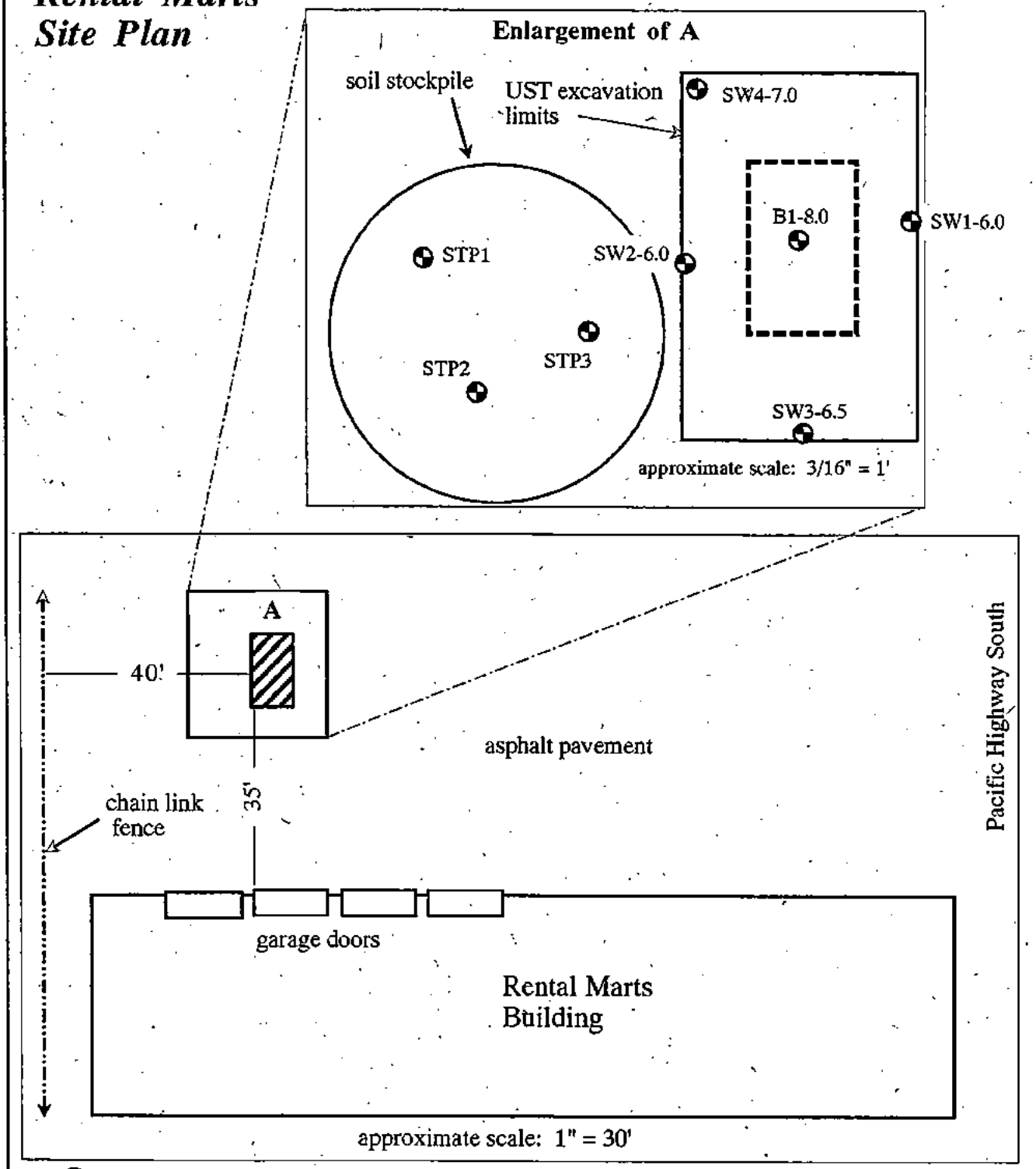
From U.S.G.S. 7.5 MIN. X 15 MIN.
Series Quadrangle
Poverty Bay, Washington
1961

N

Scale: 1: 24 000			Figure 1

HEALTH HAZARD CONTROL SERVICES
HAZCON INC.
4636 E. Marginal Way S.
Suite 215
Seattle, Wa 98134

Rental Marts Site Plan



Soil Sample Location
UST Fill Pipe
Former UST and Associated Pump Island Location
Outline of Former UST

N

Scales as indicated	Date: 7/26/93	Drawn by: PDR	Figure 2

HEALTH HAZARD CONTROL SERVICES
HAZCON INC.
4636 E. Marginal Way S.
Suite 215
Seattle, Wa 98134

Table 1. Summary of Analytical Results for Soil Samples Collected Adjacent to and Underlying the Diesel Fuel UST and Associated Pump Island.

Sample Number	Soil Sample Location	Sample Depth	Sample Date	WTPH-D (ppm)
B1-8.0	pit floor	8.0	6/25/93	20
B1-8.0 (duplicate)	---	---	---	20
SW1-6.0 & SW3-6.5*	east/south sidewalls	6.0/6.5	6/25/93	<10
SW2-6.5	west sidewall	6.5	6/25/93	80
SW4-7.0	north sidewall	7.0	6/25/93	140
STP1 & STP2 & STP3*	soil stockpile	---	6/25/93	490
MTCA	NA	NA	NA	200

Samples SW1-6.0 & SW3-6.5* collected as two discrete samples and composited together into one sample by the laboratory for analysis.
duplicate, laboratory duplicate analysis.
Sample Depth, given in feet below ground surface.
NA, not applicable.
WTPH-D, Washington State Test Method for diesel range petroleum hydrocarbons.
ppm, parts per million = mg/kg.
MTCA, Model Toxics Control Method A Soil Cleanup Levels (WAC-173-340).

438-7484

8263

UNDERGROUND STORAGE TANK
30 Day Notice of Intent to Close/Decommission Tanks

The purpose of this form is to provide the Department of Ecology with notice of intent to close/decommission an UST. It must be received 30 days prior to the closure [illegible] r of the UST to be closed or his/her authorized repr[illegible] ology will notify the identified person of the earliest d:

For questions on completing this form pleas

Please type or use ink.

The completed checklist should be mailed t[illegible]

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 0

To	From
Joyce Smith	Darcy Walker
Co. Dept of Ecology	Co. O'Sullivan Petroleum
Dept. UST Section	Phone # 682-2440
Fax # 438-7484	Fax # 621-8568

DEPARTMENT OF ECOLOGY UNDERGROUND STORAGE TANKS AUG 26 1993

1. TANK OWNER AND LOCATION

UST Owner/Operator: Bank of California

Owners Mailing Address: 3123 (Street / P.O. Box)

Seattle (City) WA (State) 98114 (ZIP Code)

Telephone: (206) 587-6151

Site ID Number (on invoice or available from Ecology if tank is registered):

Site/Business Name: Rental Mart

Site Address: 29805 Pacific Highway S. (Street) King (County)

Federal Way (City) WA (State) (ZIP Code)

2. TANK PERMANENT CLOSURE TO BE PERFORMED BY (If known):

Firm: O'Sullivan Petroleum Equipment Co.

Address: 3214 16th ave SW. (Street)

Seattle (City) WA (State) 98134 (P.O. Box / ZIP Code)

Telephone: (206) 682-2440 Contact Name: DARCY WALKER

3. TANK INFORMATION

Tank Identification	Approx. Closure Date	Tank Capacity (gallons)	Tank Age (years)	Last Substance Stored
	May 10/93	~~1000~~ 500	20-25	diesel

4. SIGNATURE OF TANK OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE:

Darcy J. Walker (Signature) Estimator/Project Manager (Title) 4/2/93 (Date)

ECY 101-155 (11/90)

UNDERGROUND STORAGE TANK
Permanent Closure/Change-In-Service Checklist

NW 006523
U0000432

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

RECEIVED
AUG 26 1993
DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: BANK OF CALIFORNIA

Owners Address: PO BOX 3123 (Street / P.O. Box)

SEATTLE, WA 98114 (City / State / ZIP-Code)

Telephone: (206) 587-6151

Site ID Number (on invoice or available from Ecology if tank is registered):

Site/Business Name: RENTAL MART

Site Address: 29805 PACIFIC HIGHWAY S (Street) KING (County)

FEDERAL WAY, WA 98003 (City / State / ZIP-Code)

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: O'Sullivan Petroleum Equipment Company License Number: S000036

Address: 3214 16th Avenue S. W. (Street / P.O. Box)

Seattle WA 98134 (City / State / ZIP-Code)

Telephone: (206) 682-2440

Licensed Supervisor: John C. Ra

Decommissioning License Number: W001682

ECY 010-162 (12/90)

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

For Office Use Only	
Owner #	
Site #	

INSTRUCTIONS:

When a release has **not** been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with Ecology. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS
AUG 26 1993

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): _____

Site/Business Name: Rental Marts

Site Address: 29805 Pacific Hwy S. (Street) Telephone: (___) _____

Federal Way (City) Washington (State) 98003 (ZIP Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
	500 gallons	diesel fuel

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ___ Investigate suspected release due to on-site environmental contamination
- ___ Investigate suspected release due to off-site environmental contamination.
- ___ Extend temporary closure of UST system for more than 12 months.
- ___ UST system undergoing change-in-service.
- ___ UST system permanently closed-in-place.
- ✓ UST system permanently closed with tank removed.
- ___ Abandoned tank containing product.
- ___ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ___ Other (describe): _____

APPENDIX A
Photographs

Photo 1. View of UST system excavation and characteristic soil types. Notice slight petroleum stained soil located at bottom of UST excavation, northwest corner. Soil sample SW4-7.0 was collected from this narrow zone of petroleum contamination.

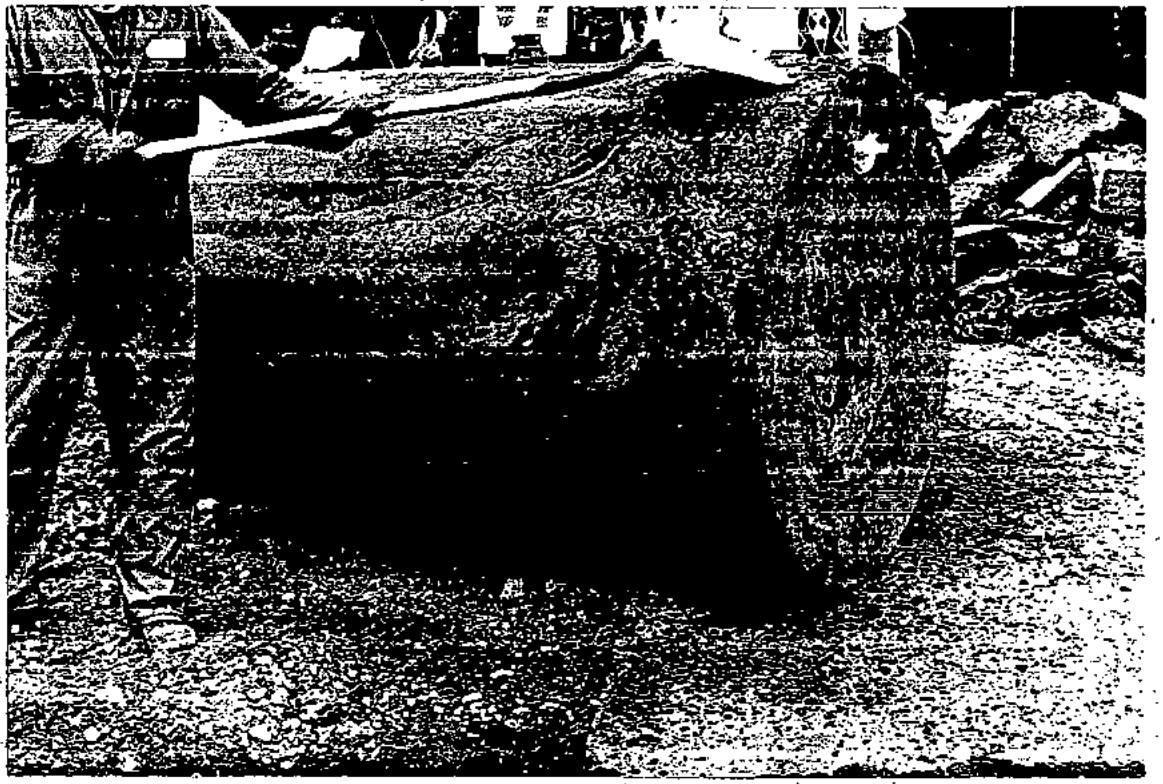


Photo 2. View of 500 gallon diesel fuel UST. Note the presence of minor rust along UST bottom and north end. The rag on north side of UST plugs hole punched by backhoe teeth.

Photo 3. View of decommissioned pump island, formerly used with 500 gallon diesel fuel UST.

APPENDIX B
UST Cleaning and
Disposal Certificate

223-02-CO-AS-TI'202RE

Phone (206) 624-9843
Fax No. (206) 624-9766

Coastal Tank Cleaning, Inc.

3801 7th Avenue South, Seattle, Washington 98108

DISPOSAL CERTIFICATION

DATE: June 15, 1993, 1993

TO: O'Sullivan Petroleum Equipment Co.
3214 16th Ave SW
Seattle, Wa. 98134

JOB SITE : Rental Mart, 29805 Pacific Hwy South, Federal Way

CTC's JOB#: 8429-93

YOUR PO #: 15556

Dear Sirs,

This letter is to certify that Coastal Tank Cleaning, Inc. (CTC) has received the following tank(s) for cleaning and disposal in accordance with all Federal, State and Local rules and regulations:

1: 500 gallon Diesel

DATE RECEIVED: 5-24-93

DATE CLEANED: 5-26-93

DATE DISPOSED: 5-27-93

BILL OF LADING #: 4026

METHOD OF DISPOSAL: Scrap Metal

If you have any questions regarding this matter please feel free to call at (206) 624-9843

Sincerely,

Don Austin
UST DISPOSAL MANAGER

APPENDIX C
Field Exploration & Soil Sampling Protocols

APPENDIX C
FIELD EXPLORATION AND SOIL SAMPLING PROTOCOLS

Soil samples were collected from either the center of the backhoe bucket or the hand auger sampler using a stainless steel spoon. All samples were collected using standard sampling procedures which minimize the risk of sample contamination. Prior to soil sampling, sampling tools were cleaned with a stiff brush and detergent solution consisting of Alconox and warm water, then rinsed with tap water and liberal quantities of distilled, deionized water. The soil samples were collected in 4 ounce borosilicate glass containers with teflon-lined screw caps. Samples were stored in a chilled ice chest and delivered directly to Friedman and Bruya Laboratories, Inc. of Seattle, Washington for analysis. Chain of custody forms accompanied each sample shipment, signed by field personnel, the shipping agency (if used), and the laboratory chemist.

APPENDIX D
Laboratory Report & Quality Assurance Data Review

APPENDIX D
LABORATORY REPORT
& QUALITY ASSURRANCE REVIEW

Analytical results were reported by the laboratory as a net weight value. The results shown in this report were converted to dry weight values by dividing the wet weight results by the percentage of total solids in the soil sample.

Laboratory quality assurance and quality control was performed by analyzing duplicate samples and surrogate recoveries. The duplicate sample results indicate good sampling and analytical precision.

In general, all analytical data were deemed acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3008-B 16th Avenue West
Seattle, WA 98119
FAX: (206) 283-5044

May 27, 1993

Paul Riley, Project Leader
HAZCON
4636 E. Marginal Way South, Suite 215
Seattle, WA 98134

Dear Mr. Riley:

Enclosed are the results from the testing of material submitted on May 25, 1993 from Project 4259, Rental Marts.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

Amy Gray

Amy M. Gray
Chemist

AMG/dp

Enclosures

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: May 27, 1993
Date Received: May 25, 1993
Project: 4259, Rental Marts
Date Samples Extracted: May 26, 1993
Date Extracts Analyzed: May 26, 1993

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL BY GC/FID (Modified 8015) per Washington DOE Guidelines
Results Reported as µg/g (ppm)

Sample #	Diesel	Internal Standard (% Recovery)
Composite: SW1 - 6.0 SW3 - 6.5	<10	93%
SW2 - 6.5	80	91%
SW4 - 7.0	140	93%
B1 - 8.0	20	90%
Composite: STP1 STP2 STP3	490[id]	93%
Quality Assurance		
Blank	<10	95%
B1 - 8.0 (Duplicate)	20	92%
B1 - 8.0 (Matrix Spike) % Recovery	71%	90%
B1 - 8.0 (Matrix Spike Duplicate) % Recovery	70%	89%
Spike Blank % Recovery	71%	91%
Spike Level	500	

[id] The material present appears to be indicative of a mixture of diesel and a lubricating oil.

FRIEDMAN & BRUYA, INC.
3008 B 76th Avenue West
Seattle, WA 98119

[redacted]

SAMPLE CHAIN OF CUSTODY

Send Report To:
Company Hazcon Inc Contact Paul Riley
Address 4636 E. Marginal Way Suite 215
City, State, Zip Seattle, WA 98134
Phone # (206) 763-7364 Date 5/25/93

SITE NO.	PROJECT NAME	PURCHASE ORDER #
4259	Rental Marts	

SAMPLERS (signature)

PROJECT LOCATION: Federal Way

REMARKS: Need results on May 26

SAMPLE DISPOSAL INFORM.
- X Dispose after 30 days
- ○ Return Samples
- ○ Call for Instructions

SAMPLE #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyses Requested
SW1 -6.0	5/25/93 11:10	Soil	1	40310	~~COMPOSITE;~~ WTPH-D
SW3 -6.5	11:45			40311	
SW2 -6.5	13:35			40312	WTPH-D
SW4 - 7.0	12:10			40313	WTPH-D
B1 - 8.0	11:25			40314	WTPH-D
STP1	12:05			40315	
STP2	12:08			40316	COMPOSITE;
STP3	12:12			40317	WTPH-D

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by:	Paul Riley	Hazcon, Inc.	5/25/93	12:45
Received by:	C L Hicks	F & B I	5:25:93	3:45 PM
Relinquished by:				
Received by:				

APPENDIX E
References

APPENDIX E
REFERENCES

Guidance for Site Checks and Site Assessment for Underground Storage Tanks, Washington State Department of Ecology Underground Storage Tank Program, Revised October, 1992,

Guidance for Remediation of Releases from Underground Storage Tanks, Washington State Department of Ecology Toxics Cleanup Program, July 1991.

The Model Toxics Control Act Cleanup Regulations Chapter 173-340 WAC, February 28, 1991.

Waldron, H.,: Geologic Map of the Poverty Bay Quadrangle (scale 1:24,000), Washington, 1961.

RENTAL MARTS NW 0623
FEDERAL WAY 1993-2001
TCP/VCP 29805 PACIFIC HWY S
B/C 0000001003 NFA 5/17/01
FS 7222592

RUTH EVANS TRUST

Voluntary Cleanup Program – NWRO

From: Joe Hickey
VCP Coordinator, NWRO
Subject: VCP Cleanup or TA Review

The attached files were submitted for review of an independent remedial action under the Voluntary Cleanup Program. The initial deposit was received. $500.00

SIC:	Non-LUST	**J1C54**	SITE ID NW 0623
	LUST	**J1C59**	**"90-day" screening** date is 10/13/01
	Sediments	**J1J40**	**Site visit is an Initial Investigation:** Yes No
	Site is listed on		_____ Confirmed & Suspected Contaminated Sites List (CSCS)
	Site would be listed		_____ Hazardous Sites List (HSL)
			___✓___ LUST database

Please remember to :

1. **Keep track of your time** on a copy of the attached VCP Site Log. An Excel version of this is in t:\tcp\vcp\GEN-VCP\VCP-LOG.xls or can be obtained from Pat Melone. Please remember to **total the "Hours" column and to sign and date all logs. KEEP THE SITE LOG WITH THE FILE. Do NOT turn them in** with your time sheets.

1. **Hold on to final determination letters** ("NFA" or "Further Action Required") until: a) accumulated fees have been collected or b) any Restrictive Covenants have been filed.

2. **Check the "Release Information" on pages 3 & 4 of the *Site Summary* form.** Please check to see that the information entered is a fair approximation of the cleanup. If you make changes or update the data, please use red (green, purple, orange etc) ink so data entry folks can spot any changes quickly.

3. **Complete the Environmental Indicators form** (attached). The PREFERRED ALTERNATIVE is to use the Excel version in t:\tcp\vcp\review\forms\ ENVID.XLS and e-mail it to me. The guidelines for completing the form are in ENV_IND.DOC.

4. **Return entire file to me when done.** Remove all Post-it notes and markers from files. Include **site logs,** a signed copy of the **determination letter** (NFA or Further Action required), a copy of the recorded **restrictive covenant,** and all files. Please **note the date you went on site** by highlighting the date on your site log.

Given the increasing frequency with which independent remedial action sites are the subject of litigation, with Ecology's decisions serving as the basis for some of it, I strongly suggest that you have your determination and correspondence peer-reviewed prior to sending it and that you document the basis of your decision with a brief memorandum to file.

If you have any questions, please call me at 425-649-7023. If you have any suggestions regarding the process or paperwork that you think would make things easier, please let me hear them. Thanks for your help.

WASHINGTON STATE DEPARTMENT OF ECOLOGY
TOXICS CLEANUP PROGRAM

VOLUNTARY CLEANUP PROGRAM SITE LOG

SITE NAME Ruth Evans Trust SITE ID: NW 0623

SIC ☐ Non-LUST J1C54
☒ LUST J1C59
☐ Sediments J1J40

MONTH May YEAR 1999 2001

NAME Sunny Lin Becker CATEGORY _____ RATE/HR $ _____

Date	Hours	Activity Description
5/16	4	Review Rpts
5/17	3	Discussion with consultants, NFA letter, etc
5/1		
		ENTERED 9-12-01 SAF
	7	TOTAL

EMPLOYEE'S SIGNATURE Sunny Lin Becker DATE 5/17/01

Page _____ of _____

t:\tcp\vcp\vcp-log.doc
2/2/00

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Northwest Regional Office, 3190 - 160th Ave S.E. • Bellevue, Washington 98008-5452 • (206) 649-7000

May 17, 2001

Mr. Mark Watts/Ruth Evans Trust
6347 Seaview Ave. NW
Seattle, WA 98107

Dear Mr. Watts:

Re: Independent Remedial Action
Ruth Evans Trust, Federal Way, Washington

Thank you for submitting the results of your independent remedial actions for review by the State of Washington Department of Ecology (Ecology). Ecology appreciates your initiative in pursuing this administrative option under the Model Toxics Control Act (MTCA).

Ecology's Toxics Cleanup Program has reviewed the following information regarding Ruth Evans Trust located at 29805 Pacific Highway South, Federal Way, WA:

1. "Phase I Environmental Site Assessment" by Kleinfelder Inc. dated June 13, 2000
2. "Report of Subsurface Investigation" by ATC Associates Inc. dated February 2, 2001
3. "Underground Storage Tank Site Assessment" by ATC Associates Inc. dated February 16, 2001

Ecology reviewed the information in the reports listed above and had a phone conversation with Mr. Mark Watts on May 17, 2001. Mr. Mark Watts indicated that the seasonal perched groundwater encountered during the excavation appears to be clean without oil sheen. He also indicated that the buried metal auto parts' debris had no evidence of any chemicals, including petroleum, impacts. Therefore, Ecology has determined that, at this time, the release of total petroleum hydrocarbons into the soil from the Underground Storage Tanks no longer poses a threat to human health or the environment.

Therefore, Ecology is issuing this determination that no further remedial action is necessary at this site under MTCA, chapter 70.105D RCW. However, please note that because your actions were not conducted under a consent decree with Ecology, this letter is written pursuant to RCW 70.105D.030(1)(i) and does not constitute a settlement by the state under RCW 70.105D.040(4) and is not binding on Ecology.

Ecology's no further action determination is made only with respect to the release identified in the report listed above. This no further action determination applies only to the area of the property affected by the release identified in the report at 29805 Pacific Highway South, Federal

Way, WA. It does not apply to any other release or potential release at the property, any other areas on the property, nor any other properties owned or operated by Ruth Evans Trust.

Ecology will update its Leaking Underground Storage Tank database to reflect this "No Further Action" determination. Your site will not appear in future publications of the LUST database.

The state, Ecology, and its officers and employees are immune from all liability and no cause of action of any nature may arise from any act or omission in providing this determination.

If you have any questions, please contact Sunny Lin at (425) 649-7187.

Sincerely,

Sunny Lin, P.E.
Toxics Cleanup Program

SL:sl

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office, 3190 - 160th Ave S.E. • Bellevue, Washington 98008-5452 • (206) 649-7000

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Sincerely,

Sunny Lin, P.E.
Toxics Cleanup Program

SL:sl

90-day 6-13-01

VCP CLEANUP REVIEW FILE CHECKLIST

Facility Site # 44193389

Site Name: Ruth Evans Trust
Address: 29805 Pacific Highway South
City/County Federal Way/King
Reviewer: _____

ERTS: _____
LUST Number #: _____
UST Number #: _____
VCP Number: NW 0623

Ruth Evans Trust

_____ **Draft ERTS form sent to Complaint Tracker** _____ **Completed form Received**

_____ **Central File *OUT CARD* prepared**

_____ **VCP Deposit Paid** _____

XX **Review/Receipt Letter prepared** XX **Sent**

_____ **Site Register Notice** (Rcpt of New Rpts) _____ **Via LUSTbase No New Rpts.** _____

_____ **FS/ISIS/VCP Entered/Updated** **Alt Name** _____

_____ **UST/LUST Tracker** _____ **New Site** _____ **Updated**

_____ **Start date:** _____ **90- day date:** _____

_____ **Completion date:** _____

_____ **Status:** in process completed cancelled

_____ **Review results:** _____ _____ _____

1 = no further action
2 = further cleanup action needed
3 = incomplete report received
4 = interim status letter sent
5 = long-term Monitoring
6 = restrictive covenant

_____ **Additional Information Required**
Monitoring _____
Other _____

_____ **VCP Site Info Updated**

_____ **Site Register Notice - Review Complete**

_____ **UST/LUST Database Update**

_____ ***Forward Entire File to:*** _____ ***ISIS Coordinator update/listing*** _____ ***Central Files***

_____ **Hold pending Fee Balance**

NOTES: _____

Ruth Evans Trust
Project Number: NW0623
FS ID: 44193385
Invoice Number: VL01 109-001
Due Date: 6/28/01
Amount Due: $204.00
Fiscal Code: 173-VCP-02-94-005000-5000 30 40

P.d. 6/14/01

ECY 010-72 (5/99) Department of Ecology, P.O. Box 5128, Lacey WA 98509-5128

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

March 21, 2001

Mr. Mark Watts
6347 Seaview Ave. NW
Seattle, WA 98107

Dear Mr. Mark Watts:

Re: Request for Review: Independent Remedial Action
Ruth Evans Trust, 29805 Pacific Highway South, Federal Way, WA 98003

Thank you for submitting the independent remedial action report(s) for this site for Ecology's review. Ecology appreciates your initiative in pursuing a voluntary cleanup under the Model Toxics Control Act.

This is to acknowledge receipt of your *Request* and your $500 deposit. A copy of the *Request* form is enclosed. All correspondence relating to this project should include the site name and a reference to the TCP identification number NW0623 printed on the bottom right-hand corner of this form.

The Department of Ecology (Ecology) will publish a notice in the *Site Register* that we have received the report(s) and of your request for Ecology review of the independent remedial action. The Site Register is a bi-weekly publication regarding sites undergoing cleanup or remedial action throughout the state.

If you have any questions about this letter or the Voluntary Cleanup Program, please do not hesitate to call me at (425) 649-4446.

Sincerely,

Theresa L. Fisher

Theresa L. Fisher
Voluntary Cleanup Program Administrator

TLF: lg
Enclosure

VCP Voluntary Cleanup Program

Washington State - Department of Ecology - Toxics Cleanup Program

Request For Assistance/ Review Form

Have you discussed this site with an Ecology representative in the past? YES
If yes, what is that person's Name? JOE HICKEY
And the approximate date? MARCH, 2001
Is this a leaking underground storage tank site? (includes piping leaks) YES

Please submit the following with this signed form to the appropriate Ecology office (see back of form)

☐ Site Summary (ECY 020-73)
☐ A Check or Money Order for $500 made out to "Department of Ecology"
☐ Any other existing reports on this site

Applicant completes this section: *(Note: The applicant is responsible for all billings)*

Applicant Name: MR. MARK WATTS/ RUTH EVANS TRUST Phone: 206-781-1449
Applicant Address: 6347 SEAVIEW AVE NW
City: SEATTLE State: WA Zip: 98107
Site Name: RUTH EVANS TRUST Alternate Name:
Site Address: 29805 PACIFIC HIGHWAY SOUTH
City: FEDERAL WAY State: WA Zip: 98003 County: KING
Site Owner Name:
Site Owner Address: Phone:
City: State: Zip:

I, MARK WATTS request the assistance of the Department of Ecology. With this Application I have enclosed $500. I understand that: this payment is the equivalent of approximately eight (8) hours of staff review and/or assistance on the cleanup of my contaminated site; actual charges will depend on specific staff and charge-out rates of that staff; if total charges are greater than $500, I will be billed for and I agree to pay the remainder; and any excess payments will be refunded to me.

X Mark Watts
Signature of Applicant Date
Note: The applicant is responsible for all billings.

For Office Use only:

Date: Hours: Rate: Staff Name:
Date: Hours: Rate: Staff Name:
Date: Hours: Rate: Staff Name:
Date: Hours: Rate: Staff Name:

For Office Use only: **Receipts**
Amount $500.00 Date Pd 03/13/01 Rec. # ~

For FISCAL USE ONLY
173-02-94-005000-5000- 30.40
(LUST/Non-LUST) (Office)

LUST/Non-LUST: LUST - 30 Non-LUST - 20
OFFICE: NWRO - 40 SWRO - 50 ERO - 60
CRO - 70 IND - 80 HDQR - 90

VCP Voluntary Cleanup Program

Washington State - Department of Ecology - Toxics Cleanup Program

Site Summary

This Summary is a required component of your request for assistance under the Voluntary Cleanup Program

Which of the following apply?

[ ]	Requesting assistance on a planned cleanup
[ ]	Requesting assistance on an ongoing cleanup.
[x]	Requesting review of a completed cleanup.

Note: If you submitted your Request for Assistance (ECY 020-74) previously without a Site Summary (this form) or this is a revised Site Summary, Please provide this completed form to Ecology at least five (5) working days prior to the meeting/site visit/documentation review (whichever comes first).

A) Site Identification:

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MAR 08 2001
DEPT. OF ECOLOGY

Name of Site: Ruth Evans Trust

Alternate Name(s) for Site:

Street Address of Site: 29805 Pacific Highway South

City: Federal Way State: WA Zip: 98003

County: King UBI Number:

Mailing Address (if different from above):

City: State: Zip:

Township T21N Range R4E Section 4 Quarter-Quarter NW¼ of SW¼

If Known:

Latitude: Degree Minute Second

Longitude: Degree Minute Second

Method used to calculate Latitude and Longitude:

How large (in acres) is the site? Approximately 1.75 acres.

Please attach two maps to this form.

1) An area map, showing general location of the site in relation to surrounding bodies of water, cities, highways, and streets. (Please mark site location.) See reports.

2) A site diagram showing surrounding cross-streets, labeled building outlines, sampling and well locations, etc. See reports.

B) Person/Organization Making Request for Assistance/Review:

Name: ATC Associates Inc. on behalf of Union Bank of California as Trustee.

Firm: Mr. Mark Watts

RECEIVED
MAR 18 2001
DEPT. OF ECOLOGY

Street Address: 6347 Seaview Ave NW

City: Seattle State: WA Zip: 98107

Telephone Number: 206-781-1449 Extension:

Fax Number: 206-781-1543 e-mail address: watts76@atc-enviro.com

Which best describes your in ement with the site? (Check as many as apply.)

Current Owner ☐ Former Owner ☐ Potential Purchaser ☐
Current Operator ☐ Former Operator ☐ Other (specify) ☐
Environmental Consultant for Union Bank of California as Trustee
Attorney for
Insurance Carrier for
Other (specify) for

C) Release Information:

Date of Release (if known): N/Ano Date of Discovery: 11/6/00
Drinking Water: Number of Drinking Water Supply Wells within 1/2 mile Unknown
Are there any drinking water systems affected? ☐ yes ☒ no
If yes, has alternate drinking water been provided? ☐ yes ☐ no
If Drinking Water systems are affected, are the systems public, private, or both?
Aquatics: Are there an creeks, streams, ponds, wetlands, or shorelands...
on or adjacent to the site? ☐ yes ☒ no
Within 1/4 mile of the site? ☐ yes ☒ no
Where are they located?
Are they impacted by contamination from the site? ☐ yes ☒ no

General Hazardous Substance Categories: Please complete the chart below. List the contaminants known or suspected at the site prior to cleanup, and mark the appropriate medium (i.e. soil) with: **C** (confirmed and above MTCA); **B** (confirmed but below MTCA); **S** (suspected); **N/A** (not-applicable); **O** (tested and not present); or **U** (unknown).

Contaminant	Class (for office Use	Affected Soil	Media: Ground-Water	Surface Water	Air	Sediment	Date of Release (if known)
Example: Lead		C	O	S	U	S	1967-82
1) TPH-Ox		C	N/A	N/A	N/A	N/A	prior to 1970
2)							
3)							
4)							
5)							
6)							

D) Report Information of Assessment or Remediation Work Done to Date

Assessment:

Has site assessment work been done at this site? yes ☒ no ☐ In-progress ☐
If yes, when? Were results reported to Ecology? yes ☒ no ☐ Date 3/06/01
Describe: (list reports in "E" below)

Remediation:

Has any site cleanup work been done at the site? yes [x] no [ ] in-progress [ ]
If yes, please continue to answer the remaining questions in this section to the best of your ability.

When was the cleanup work done? 11/3/00 to 12/31/00
Were results reported to Ecology? yes [x] no [ ] date 3/6/01
Describe: (list reports in "E" below)

Does contamination remain on-site after cleanup activities? yes [ ] no [x]
If yes, describe: (list reports in "E" below)

For each contaminant listed in ***Part C) Release Information (above)***, please describe the quantity of the contaminant (in pounds) which was removed or treated as a result of the cleanup activities:

Contaminant	Class *(for office Use*	Pounds of Contaminant: Incinerated	Washed	Removed	Treated	*Contained)*
Example: Lead		10	20	40	10	60
1)						
2) PCS		520000		520000		
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						

PCS= Petroleum Impacted Soil

As a result of the cleanup:
How many acres of land were returned to ***unrestricted*** use? 1.75 Acres
How many acres of land were returned to ***restricted*** use? N/A
How many cubic feet of contaminated soil was remediated or contained? 260 tons of PCS Incinerated.
How many gallons of contaminated soil was remediated or contained? 260 tons of PCS Incinerated.
How many people are now at reduced risk as a result of the cleanup action? Unknown.
How many pounds of potential pollution was prevented as a result of the cleanup action? 25 lbs. (520,000@ 500ppm).

RECEIVED
MAR 13 2001
DEPT. OF ECOLOGY

Methods/Treatments Used	Soil	Groundwater	Surface Water	Drinking Water	Air	Wastes
Method A	X					
Method B						
Method C						
Have these levels been met through the site ? Y or N	Y					
Destruction or Detoxification						
Carbon Adsorption[1]	N/A					N/A
Biological Treatment					N/A	
Chemical Destruction						
Incineration	X	N/A	N/A	N/A		
[1]Carbon followed by regeneration: use of granular activated carbon followed by landfilling would be classified in these tables as volume reduction and off-site landfill						
Media Transfer						
Air stripping/Air Sparging	N/A					N/A
Aeration/Vapor Extraction		N/A	N/A	N/A	N/A	
Thermal Desorption		N/A	N/A	N/A		N/A
Immobilization						
Vitrification		N/A	N/A	N/A		
Solidification/Stabilization		N/A	N/A	N/A		
Reuse/Recycling[2]						
Specify						
[2]For example, reuse of free petroleum product recovered in a pump and treat system.						
Separation/Volume Reduction						
Solvent Extraction		N/A	N/A	N/A		
Soil Washington		N/A	N/A	N/A		
Physical Separation[3]						
[3]For example, oil/water separators.						
Land Disposal/Containment						
Containment or On-site Landfill			N/A			
Off-site Landfill	X	N/A	N/A	N/A		
Institutional Controls						
Specify						
Others						
Specify Treatment Method						

E) Documentation:

Please list titles of all site reports below. Include name of consulting firm and year completed. (If there is not enough room for the entire list, please attach additional page(s) as necessary.)

	Title:	By:	Date
1)	Phase I ESA Vacant Commercial Property-29805 Pacific Hwy S. Federal Way, WA 98003	Kleinfelder	6-13-00
2)	Report of Subsurface Inv. at 29805 Pac. Hwy S. Federal Way	ATC Associates Inc.	2/2/01
3)	UST Site Assessment at the Ruth Evans Trust at 29805 Pacific Hwy S.	ATC Associates Inc.	2/6/01

Is additional information concerning the contaminants treated or removed, or cleanup or remediation methods used available in a data base? yes ☐ no ☒ If yes, what programming software is use?
Is a copy included for our use? yes ☐ no ☐

F) Property Type: Commercial ☒ Industrial ☐ Residential ☐ Other ☐ (Please specify)
Property currently being used? yes ☐ no ☒
Plans for change in use? yes ☒ no ☐ If yes, please specify: Commercial, Retail

G) Standard Industrial Classification (SIC) Codes:

List all that apply. If none apply, or if you don't know your SIC code, list activities conducted at the site (i.e. automotive repair and maintenance, construction equipment storage, etc.).
Former Construction Equipment Storage

H) Dangerous Waste Facilities:

Does the facility have a dangerous waste identification number? yes ☐ no ☒
If yes, what is the number? WAD

I) Tank Information:

Complete this table for ALL tanks, whether underground (UST) or aboveground (AST), including unregulated tanks.
(*Unleaded, leaded diesel, bunker-C, waste oil, heating oil, aviation fuel, other (identify))
(** Tank status: Left in Place, Removed, Closed in Place)

Tank ID	AST/UST	Size	Was Free Product encountered? *Product	On GW	In Excavation	**Tank Status
T1	UST	750 Gal	No	No	No	Removed
T2	UST	750 Gal	No	No	No	Removed
T3	UST	750 Gal	No	No	No	Removed
T1	UST	500	No	No	No	Removed
T2	UST	5000	No	No	No	Removed

J) Owner/Operator History
(Please photocopy and attach copies if additional owners and/or operators are known.)

Type (code) of Owner/Operator (for below):
Private (1) Municipal (2) County (3) Federal (4) State (5) Tribal (6) Mixed (7) Other (8) Unknown (9)
Public Entitle Acquisition via Bankruptcy (11)

1) Current Site Owner: Union Bank of California as Trustee			Type: 1
Street Address: 500 Main Street			
City: Orange		State: CA	ZIP: 92868
Contact Persons (if different than owner, above): Ms. Cynthia Wagner			
Street Address: Same as above.			
City:		State:	ZIP:
Telephone Number: 714-565-5635		Extension:	
Fax Number: 714-565-5690		e-mail address: cynthiawagner@UBOC.com	
Dates of Ownership: 1985	to Present		

2) Current Facility Operator: United Rentals Inc. Current Leaseholder			Type: 1
Street Address: P.O. Box 816			
City: Renton		State: WA	ZIP: 98057
Contact Persons (if different than owner, above): Mr. Lee Forte			
Street Address:			
City:		State:	ZIP:
Telephone Number: 206-682-4404		Extension:	
Fax Number:		e-mail address:	
Dates of Operation: 1988	to 2000		

3) Former Site Owner: Ruth Evans (deceased)			Type:
Street Address:			
City:		State:	ZIP:
Contact Persons (if different than owner, above):			
Street Address:			
City:		State:	ZIP:
Telephone Number:		Extension:	
Fax Number:		e-mail address:	
Dates of Ownership: 1940	to 1985		

4) Former Facility Operator:			Type:
Street Address:			
City:		State:	ZIP:
Contact Persons (if different than owner, above):			
Street Address:			
City:		State:	ZIP:
Telephone Number:		Extension:	
Fax Number:		e-mail address:	
Dates of Operation:	to		

K) Other Involved Parties:
(Please photocopy and attach copies if additional parties are involved)

1) Environmental Consultant: ATC Associates - Mark Watts		
Representing: Union Bank of California as Trustee		
Firm: ATC Associates Inc.		
Street Address: 6347 Seaview Ave. NW		
City: Seattle	State: WA	ZIP: 98107
Telephone Number: 206-781-1449	Extension:	
Fax Number: 206-781-1543	e-mail address: watts76@atc-enviro.com	

2) Site Control Person if other than Owner/Operator. (This must be a person who is on-site during normal working hours and is authorized and qualified to answer questions about the site, or a person who is available during normal business hours and has knowledge about the site and the remediations.		
Name:		
Relation to site/owner/operator:		
Firm:		
Street Address:		
City:	State:	ZIP:
Telephone Number:	Extension:	
Fax Number:	e-mail address:	
Dates of involvement with site:	to:	

3) Name:		
Relation to site/owner/operator:		
Firm:		
Street Address:		
City:	State:	ZIP:
Telephone Number:	Extension:	
Fax Number:	e-mail address:	
Dates of involvement with site:	to:	

4) Name:		
Relation to site/owner/operator:		
Firm:		
Street Address:		
City:	State:	ZIP:
Telephone Number:	Extension:	
Fax Number:	e-mail address:	
Dates of involvement with site:	to:	

008504

UST #8509

NETZERO Message Center

From: Jessica Fippen <jessicaf@sme-solutions.com>

To: <raiandtiwana@netzero.com>

Cc: Jeff Stephens <JeffS@sme-solutions.com>

Sent: Thu, Mar 26, 2015 12:11 PM

Subject: Shell @ 29625 Pacific Hwy S Fed Way; Ball Float Verification issue DOE

DOE Tank Tightnes... (310KB)

Good afternoon,

Thank you for your call today.

In regards to the DOE request for verification of ball floats, SME Solutions arrived onsite 03/20/15 and physically verified the presence of ball floats. However, due to the current piping configuration at your site it was not possible to take photos. The technician had to use a mirror on a tank stick and a flashlight to properly view. However, we have updated the attached required DOE Tank Tightness Checklist for all parties involved.

Please let us know if you have any further questions.

Thanks again,

Jessica Fippen
Electrical/Compliance Support
SME Solutions LLC.
Direct: 253.620.1586
24/7 Service Line: 866.205.7777
Email: jessicaf@sme-solutions.com

Please make note of the new address for our Tacoma branch!!
SME Solutions LLC.
10107 South Tacoma Way
Suite A-2
Lakewood WA 98499

[This email including any attachments is confidential and may contain legally privileged information. It is for use only by the intended recipient for the purpose of which it is sent.
If you are not the addressee you are hereby notified that any disclosure, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited and may be unlawful. If you have received this email in error please notify the sender immediately and delete it and all copies from your system. Internet communications cannot be guaranteed to be timely, secure, error or virus free. The sender does not accept liability for any errors or omissions in this email. If you have received this email in error, please contact the sender immediately by return mail or telephone and delete/destroy the message.]

Checklist Instructions

After completing these checklist(s), return to: **Underground Storage Tank Section**
Department of Ecology
P.O. Box 47655
Olympia, WA 98504-7655

Please Read Carefully

Checklist(s) are to be completed by a Certified UST Supervisor and submitted to Ecology within 30 days of the tank work being performed.

On each checklist, complete the Site ID number and/or the UBI number, site address and site city on each page. Submit the cover sheet that contains the site and owner information with the checklist. The checklist should show all tank information that was worked on. Be sure that the Owner or the Authorized Representative **AND** Certified Supervisor sign the appropriate checklist.

The Owner/Operator is responsible for ensuring that the work is performed and that the checklist(s) are submitted to Ecology.

Cover Sheet

Site and Owner Information
Fill in the site and owner information. Include the Ecology Site ID number, if known, and/or UBI number (Uniform Business Identification) from the master business license. Also be sure to provide telephone numbers so that any problems can be resolved quickly.

Firm and Certified Supervisor Information
List the firm performing the work as well as the Certified Supervisor's name and Certification Number. Ask to see the Supervisor's Tightness Testing ICBO Certification and make sure that the Supervisor signs the appropriate checklist for work performed.

Please Note: Individuals performing services MUST be certified by the International Code of Building Officials (ICBO), or other recognized association by which they demonstrate appropriate knowledge pertaining to USTs or have passed another qualifying exam approved by the Department.

Checklists

The **Tightness Testing Checklist** shall be completed and signed by a Certified Tightness Testing Supervisor. The supervisor shall be on site during all tank tightness testing activities. Up to four tanks per site may be reported on a single checklist; additional tanks will require additional checklists. A Tightness Testing Checklist must be completed for each UST system (tank and associated piping) being tested **as well as following most retrofit/repairs.**

The tank owner or operator* must *report* a failed tightness test as *a suspected release* to UST staff *at the appropriate Ecology regional office within 24 hours.

Northwest	Southwest	Central	Eastern
(425) 649-7000	(360) 407-6300	(509) 574-2490	(509) 329-3400

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

DEPARTMENT OF ECOLOGY
State of Washington

Underground Storage Tank Tightness Testing Checklist

The attached Underground Storage Tank (UST) checklist is required for activity listed above. This checklist certifies that the Tightness Testing activities are performed and conducted in accordance with Chapter 173-360 WAC.

See back of form for instructions.

1. UST SYSTEM LOCATION AND OWNER

UBI Number: 602-597-602 (UBI # from Master Business License)

Site ID Number: 8504 (Available from Ecology if tank is Registered)

Site/Business Name: Shell Mini Mart

Site Address: 29625 Pacific Hwy S (Street) King (County)

Federal Way, WA (City State) 98003 (Zip+4 (required))

Telephone:

UST Owner/Operator: same as above

Mailing Address: (Street) (P.O. Box)

(City State) (Zip+4 (required))

Telephone:

2. FIRM PERFORMING WORK

Service Company: SME Solutions, LLC

Service Co. Address: 10107 S. Tacoma Way-Suite A-2 (Street)

Lakewood, WA. (City State) 98499 (Zip+4 (required))

Certified Supervisor: Mark Spandler

Address: Same as above (Street) (P.O. Box)

(City State) (Zip+4 (required))

ICBO Certification Number: 8245831 Certification Issue Date (Month/Year): 04/16

Telephone: 253-572-3822

Ecology is an equal opportunity employer.
If you require special accommodations or need this document in an alternate format, please contact the Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call (877) 833-6341.

Site ID # 8504
Site Address 29625 Pacific Hwy S
City Federal Way, WA

Underground Storage Tank

Tightness Testing Checklist

For more than four UST systems, you may photocopy this form prior to completing.

Date of Test: 01/12/15

I. TIGHTNESS TESTING METHOD

1. Tightness testing method(s) used (indicate if more than one method was used):
   Test method name/version: Petro-Tite
   Test method manufacturer: Health Consultants

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be (1) filled with product to the 95% full level or (2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): N/A

3. Method used for release detection:
   - ☐ Weekly manual gauging
   - ☐ Daily manual inventory control
   - ☐ Automatic tank gauging (ATG)
   - ☐ Interstitial monitoring
   - ☑ Other (describe) CSLD

4. Reason for conducting tightness test:
   - ☑ Required for release detection requirement
   - ☐ Bring temporarily closed tanks back into service
   - ☐ Tank or piping repair
   - ☐ Other (describe)

5. Type of test conducted:
   - ☐ Tank tightness test only
   - ☐ Line tightness test only
   - ☐ Total system test (tank and lines tested together)
   - ☑ Line leak detector test

6. Test method type:
   - ☐ Overfill volumetric
   - ☐ Underfill volumetric
   - ☐ Nonvolumetric
   - ☑ Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form.

	Yes	No	NA*
1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g., detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm of no more than 5%).	MS		
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and conducted?	MS		
3. Was the product level in the tank during the test within the limitations of the test methods performance standards?	MS		
4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)			MS
5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours to UST staff at the appropriate Ecology regional office.)			MS

* Item not applicable

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

Site ID # 8504
Site Address 29625 Pacific Hwy S.
City Federal Way, WA

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID # (tank name registered with Ecology)	5	7	6	7
2. Date installed	07/01/1995	07/01/1995	07/01/1995	07/01/1995
3. Tank capacity in gallons	12000	4000	10000	8000
4. Last substance stored	Unleaded-Master	Unleaded-Syphon	Premium	Diesel
5. Number of tank compartments	1	2	1	2
6. Tank type: (S) single wall; (D) double wall; (P) partitioned	Double Wall	Double Wall	Double Wall	Double Wall
7. Is overfill device present? (Yes/No)	Ball Float	Ball Float	Ball Float	Ball Float
8. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)	N/A	N/A	N/A	N/A
9. The test method used can detect a leak of how many GPH?	N/A	N/A	N/A	N/A
10. The numerical tank test results are? (in gallons per hour)	N/A	N/A	N/A	N/A
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are? (Pass/Fail)*	N/A	N/A	N/A	N/A

IV. Line Information

	Line 1	Line 2	Line 3	Line 4
1. Piping type: (S) single wall; (D) double wall	Double Wall	Double Wall	Double Wall	Double Wall
2. Pump type: (T) turbine; (S) suction	Turbine	Turbine	Turbine	Turbine
3. (a) If turbine, is line leak detector present? (Yes/No)	YES	YES	YES	YES
(1) If present, was lead seal intact? (Yes/No N/A)	N/A	N/A	N/A	N/A
(2) Line leak detector results? (Pass/Fail)	PASS	PASS	PASS	PASS
(b) If suction, check valve located at? (T) tank (P) pump	N/A	N/A	N/A	N/A
4. The numerical line test results are? (in gallons per hour)				
5. Line tightness test results? (Pass/Fail)*	N/A	N/A	N/A	N/A

* Inconclusive test results for tanks or piping will not be considered as a valid tightness test for the purposes of complying with UST release detection regulations.

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 W.A.C.

Date	Signature of Certified Supervisor	Printed Name
01/12/15	Digitally signed by Mark Spandler	Mark Spandler
Date	Signature of Tank Owner/Authorized Representative	Printed Name

EMERGENCY

IN CASE OF FIRE, SPILL OR RELEASE

- Use Emergency Shut-Off

-Call The Fire Dept. Or Call 911

-Call The Facility Operator At (253) 941-1611

Shell Mini Mart

29625 Pacific HWY S

Federal Way ,WA 98003

(Fire Extinguisher Located Inside Building ~~And fuel island's~~)

04/03/2015 13:56 12539410707 SHELL MINI MART PAGE 07/07

UST ID # 9504

VIOL. #	OBSERVATIONS & ACTIONS REQUIRED TO RESOLVE UST VIOLATIONS	DUE DATE
19	Submit Proof that emergency signage is visible from fill ports and dispensers.	4-5-15
22	Submit Pics of the type of overfill method used. Overfill alarm listed as means of overfill prevention. Could not find an overfill alarm on site. Previous tester listed prevention method as Ball floats. If ball floats are used Submit 4 Pictures of ball floats and have testing Paperwork corrected to reflect change.	4-5-15

INSTRUCTIONS:

1. You must complete the actions identified to resolve the UST violations listed on page 1.
2. To request an extension, **submit a written request** to the Ecology inspector by 4-5-15
   You must include:
   - Reason extension is needed.
   - Steps already taken and a description of the work that remains to be completed.
   - Anticipated completion date of remaining work.

- A notice of Non-Compliance (NONC) is not an enforcement order and, therefore, **not appealable.**
- If a Field Penalty or Notice of Delivery Prohibition accompanies an NONC, **the Field Penalty and/or Notice of Delivery Prohibition are appealable.**
- Failure to comply with requirements set forth in an NONC may result in enforcement action.

SUBMIT REQUIRED DOCUMENTATION TO THE REGIONAL OFFICE INDICATED.

Central Regional Office	Eastern Regional Office	NW Regional Office	SW Regional Office	Headquarters
15 W Yakima Ave, Ste 200	4601 N Monroe St	3190 160 Ave SE	PO Box 47775	PO Box 47600
Yakima, WA 98902	Spokane, WA 98205	Bellevue, WA 98008	Olympia, WA 98504	Olympia, WA 98504
Phone: (509) 575-2490	Phone: (509) 329-3400	Phone: (425) 649-7000	Phone: (360) 407-6300	Phone: (360) 407-7170
Fax: (509 575-2809	Fax: (509) 329-3572	Fax: (425) 649-7161	Fax: (360) 407-6305	Fax: (360) 407-7154

Inspector: Mark Willoughby **Phone:** 425 649 7103 **Email:** mark.willoughby@ecy.wa.gov

I personally investigated or observed the violation(s) noted above.	I acknowledge receipt of this action. My signature does not imply agreement.
Signature of UST Inspector — Date: 3-5-15	Signature of Responsible Party or Site Contact — Date: 03/05/15
Printed Name of UST Inspector: Mark Willoughby	Printed Name of Responsible Party or Site Contact: MANJINDER SINGH

If you need this document in an alternative format call the Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss, call 711 for Washington Relay Service. Persons with a speech disability, call 877-833-6341.

DEPARTMENT OF ECOLOGY
State of Washington

Washington State Department of Ecology
Underground Storage Tank (UST) Program

NOTICE OF NON-COMPLIANCE

This action does not limit the Department from other enforcement actions as deemed necessary.

UST ID #: 8504 Date of Inspection: 3-5-15 Region: NWR

Responsible Party: Manjinder Singh

Site Name: Shell - Mini-Mart Contact Name: Manjinder Singh

Site Address: 29625 Pacific Hwy S Contact Phone: 253 941 1611

City: Federal Way WA 98003 Contact E-mail: Raiandtiwana@hotmail.com

☐ Notice of Penalty Issued #, ☐ Notice of Delivery Prohibition Issued #

VIOL. #		WAC 173-360	VIOLATION(S)
1	☐	130(2)(d), 190	Regulated UST without a displayed facility compliance tag and/or tank endorsement on Business License
2	☐	165	Failure to comply with delivery prohibition/red tag requirements
3	☐	200(6)	Failure to report changes to UST system within 30 days, including temporary closure
4	☐	210(2)	Failure of owner/operator to keep and maintain necessary records and/or documentation
5	☐	210(3)	Failure of owner/operator to have necessary records and/or documentation available at time of inspection
6	☐	305(2), 310(3)	Failure to protect steel tanks and/or piping from corrosion (i.e. steel in contact with soil)
7	☐	305(3), 310(4)	Failure to provide and/or maintain spill and/or overfill prevention equipment
8	☐	320(1)	Failure to operate and maintain corrosion protection system
9	☐	320(2)(a)	Failure to test cathodic protection (CP) system with required frequency
10	☐	320(3)	Failure to inspect impressed current (CP) system every 60 days and ensure equipment is running properly
11	☐	335(1)(b)	Failure to install, calibrate, operate, or maintain release detection method per manufacturer's instructions
12	☐	335(2), 345(6)	Failure to properly monitor tanks and/or piping for releases
13	☐	350(2)(a)(i)	Failure to equip pressurized piping with automatic line leak detectors
14	☐	350(2)(a)(ii)	Failure to conduct annual line tightness test or monthly monitoring on pressurized piping
15	☐	350(3)(a)	Failure to meet automatic line leak detector requirements, including annual testing
16	☐	350(2)(b)	Failure to conduct line tightness test or monthly monitoring on suction piping
17	☐	380	Failure to meet temporary closure requirements for UST systems
18	☐	400	Failure to comply with financial responsibility requirements
19	☒	700-760	Failure to comply with operator training requirements
20	☐	800-820	Failure to comply with secondary containment, including interstitial monitoring for tanks and lines
21	☐	830	Failure to comply with under dispenser containment requirements
22	☒	other	Verify Overfill Prevention
23	☐		
24	☐		

8504

SHELL MINI MART
29625 PACIFIC HWY S
FEDERAL WAY, WA
253-941-1611

MAR 5, 2015 10:55 AM

CSLD TEST RESULTS

MAR 5, 2015 10:55 AM

T 1:UNLEADED MASTER
T 2:UNLEADED SYPHON
PROBE SERIAL NUM 237276

0.2 GAL/HR TEST
PER: MAR 5, 2015 PASS

T 3:PREMIUM
PROBE SERIAL NUM 271530

0.2 GAL/HR TEST
PER: MAR 5, 2015 PASS

T 4:DIESEL
PROBE SERIAL NUM 243007

0.2 GAL/HR TEST
PER: MAR 5, 2015 PASS

* * * * * END * * * * *

SHELL MINI MART
29625 PACIFIC HWY S
FEDERAL WAY, WA
253-941-1611

MAR 5, 2015 10:55 AM

LIQUID STATUS

MAR 5, 2015 10:55 AM

L 1:UNLEADED MASTER
SENSOR NORMAL

L 2:PREMIUM
SENSOR NORMAL

L 3:DIESEL
SENSOR NORMAL

* * * * * END * * * * *

UST# 8504

SHELL MINI MART
29625 PACIFIC HWY S
FEDERAL WAY, WA
253-941-1611

MAR 5, 2015 10:55 AM

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

SHELL MINI MART
29625 PACIFIC HWY S
FEDERAL WAY, WA
253-941-1611

MAR 5, 2015 10:55 AM

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

INVENTORY REPORT

T 1:UNLEADED MASTER
VOLUME = 5453 GALS
ULLAGE = 6579 GALS
90% ULLAGE= 5875 GALS
TC VOLUME = 5490 GALS
HEIGHT = 44.47 INCHES
WATER VOL = 19 GALS
WATER = 0.94 INCHES
TEMP = 50.1 DEG F

T 2:UNLEADED SYPHON
VOLUME = 1807 GALS
ULLAGE = 2203 GALS
90% ULLAGE= 1802 GALS
TC VOLUME = 1816 GALS
HEIGHT = 44.27 INCHES
WATER VOL = 3 GALS
WATER = 0.66 INCHES
TEMP = 52.8 DEG F

T 3:PREMIUM
VOLUME = 2645 GALS
ULLAGE = 7507 GALS
90% ULLAGE= 6491 GALS
TC VOLUME = 2661 GALS
HEIGHT = 29.48 INCHES
WATER VOL = 16 GALS
WATER = 0.94 INCHES
TEMP = 51.4 DEG F

T 4:DIESEL
VOLUME = 2562 GALS
ULLAGE = 5459 GALS
90% ULLAGE= 4656 GALS
TC VOLUME = 2568 GALS
HEIGHT = 34.19 INCHES
WATER VOL = 0 GALS
WATER = 0.00 INCHES
TEMP = 53.3 DEG F

MANIFOLDED TANKS
INVENTORY TOTALS
T 1:UNLEADED MASTER
T 2:UNLEADED SYPHON
VOLUME = 7259 GALS
TC VOLUME = 7306 GALS

* * * * * END * * * * *

DEPARTMENT OF ECOLOGY
State of Washington

INSPECTION CHECKLIST
FOR UNDERGROUND STORAGE TANK SITES

UST ID #: 8504
County: King

INSPECTION DATE: 3-5-15 TIME: 1000 INSPECTOR: Mark Willoughby

INSPECTION TYPE: ☒ COMPLIANCE ☐ TECHNICAL ASSISTANCE (FULL SOC) ☐ OTHER _____

UST FACILITY		OWNER/OPERATOR CONTACT	
Site Name:	Shell Mini Mart	Company Name:	Rai and Tiwana LLC
Site Address:	29675 Pacific Hwy S	Mailing Address:	13114 SE 216th Way
City:	Federal Way WA 98003	City:	Kent State: WA Zip: 98031
Site Phone:	253 941 1611	Site Contact:	Manjinder Singh
Latitude:	N 47.46094° +/- 48.9m	Contact Phone:	253 941 1611
Longitude:	W 122.26410°	Email:	RaionDtiwana@Netzero.com

COMMENTS: will call back to give on E-mail

I. RECORDS REVIEW

A. General Documents — Compliant? Y N NA

1. Fuel Distributor: Sun Pacific Phone #: 253 857 7666 Last Del. Date: 3-3-15
2. BL: UBI #: 602 527 607 EXP. DATE: 8-31-15 # TANKS: 3 -130(1),-190 ☐ ☐ ☐
3. FR in compliance: ☒ INSUR. CO. ☐ SELF-INSUR. ☐ STATE/FED Part IV ☐ ☐ ☐
   INSUR. CO. NAME: Colony EXP. DATE: 11-2-15 # TANKS: 3
4. Class A, B, and C operator compliant: -700 to -760 ☒ ☐ ☐
   A/B: Manjinder Singh CERT. DATE: 11-25-12 VENDOR: APZ Worksafe
   C: Sarabjit Singh CERT. DATE: 12-5-12 TRAINER: Manjinder Singh

COMMENTS:

B. Corrosion Protection Records — Compliant? Y N NA

5. Last CP test surveyed the following steel components in contact with soil and had passing results: ☐ ☐ ☒
   # TANKS _____ # LINES _____ # SFC AT TANK _____ # SFC AT NON-TANK END _____
6. CP test frequency in compliance: LAST TWO TEST DATES: _____ _____ -320(2)(a) ☐ ☐ ☒
7. Int. Lining inspection meets 10 and 5 yr. inspection freq. and has passing results: -310(2)(a)(ii) ☐ ☐ ☐
   INT. LINING INSTALL DATE: _____ INT. LINING INSPECTION DATE: _____

COMMENTS:

C. Rectifier for Impressed Current System — Compliant? Y N NA

8. Inspected every 60 days and appears to be operating continuously: -320(1), -320(3) ☐ ☐ ☒
9. Amp/Volt readings within rec. ranges: VOLTS RANGE: _____ AMPS RANGE: _____ -320(3) ☐ ☐ ☒
   Readings: VOLT: _____ AMP: _____ COURSE: _____ FINE: _____
   METER/CLOCK: _____ MODEL: _____ INSTALL DATE: _____

COMMENTS:

D. Tank Release Detection Records	Compliant?	Y	N	NA
10. Tank RD method used: ☒ ATG CSLD ☐ IM ☐ SIR ☐ TANK GAUGING ☐ CITLDS ☐ OTHER _____				
11. Tank RD compliant: # TANKS 4 # 12 OF LAST 12 # 2 OF LAST 2	-335(2)(a), -355(1)	☒	☐	☐
12. RD method is compliant with 3rd party cert. (ex. size, throughput, manifold):	-335(1)(b), -345(6)	☐	☐	☐
13. **ATG** model: TLS-350 ☐ TANK SIZE & PRODUCT MATCH UST BASE				
14. **ATG** is NOT in alarm: IF NO, LIST ALARMS: _____	-335(1)(b)	☒	☐	☐
15. Is the **ATG**, printer, and/or modem operational and working per mfgr. specs?	-335(1)(b)	☒	☐	☐
16. **If using overfill alarm,** alarm is set at 90% for all tanks and audible to fuel delivery driver:	-305(3)(a)(ii)(B)	☐	☐	☐
17. **IM** method/sensors tested and operating per mfr. instr. # TESTED: _____ DATE: _____	-335(1)(b)	☐	☐	☒
18. **SIR** Vendor _____ in compliance with 15 day reporting req.	-345(6)(i)	☐	☐	☒
19. **Inv. Control** uses: ☐ DAILY ☐ WEEKLY ☐ MONTHLY LAST TTT: _____	-345(6)(a), (b), (c)	☐	☐	☒
20. DW and IM, if installed after 10/1/12:	-800 to -820	☐	☐	☒
COMMENTS:				

E. Line Release Detection Records	Compliant?	Y	N	NA
21. Piping pumping method: ☒ PRESSURIZED ☐ NON-SAFE SUCTION ☐ SAFE SUCTION				
Pressurized Systems only				
22. **If pressurized,** ALLD test compliant: LAST TWO ALLD TEST DATES: 1/12/15 1-10-14 # ALLDS TESTED: 3	-350(3)(a)	☒	☐	☐
23. **If pressurized,** secondary RD method used: ☐ LTT ☒ IM ☐ SIR ☐ 0.2 GPH ELEC. ALLD ☐ CITLDS ☐ OTHER _____				
OR LAST TWO LT TESTS: _____ _____ # LINES TESTED: _____	-350(2)(a)(ii)	☐	☐	☒
OR MONTHLY RD COMPLIANT: # LINES 3 # 12 OF LAST 12 # 2 OF LAST 2	-350(2)(a)(ii)	☒	☐	☐
Non-Safe Suction Systems only				
24. **If non-safe suction,** line RD method used: ☐ LTT ☐ IM ☐ SIR ☐ OTHER _____				
OR LAST TWO LT TESTS: _____ _____ # LINES TESTED: _____	-350(3)(c)	☐	☐	☒
OR MONTHLY RD COMPLIANT: # LINES _____ # _____ OF LAST 12 # _____ OF LAST 2	-350(2)(b)	☐	☐	☒
Additional Information				
25. **IM** method tested and operating per mfr. instr.: # TESTED: 3 DATE: 1-12-15	-350(3)(c)	☒	☐	☐
26. DW and IM, if installed after 10/1/12:	-800 to -820	☐	☐	☒
COMMENTS:				

last test in ISIS: 2-7-11 = 3 ALLDs

II. UST Equipment Observations

A. Manhole Above Tank — Compliant? Y N NA

27. Tag visible to distributor or at ESO: TAG #: A3797 — RCW 90.76.020(5)(a) — [X] [ ] [ ]

TANK/COMPARTMENT (BY NAME, PRODUCT, SIZE, ETC.):	T2	T1	T3	T4	
28. Tank capacity:	4K	12K	10K	8K	
29. Product stored:	UL	UL	Premium	Diesel	
30. Manifolded (main/aux) or compartmentalized:	Aux	Tank	Tank	Tank	
31. Tank material based on **records:** Steel Clad w/Corr →					
32. Tank material **observed:** (STEEL / DIEL. COATED STEEL / FRP / STEEL CLAD W/ CORR. RESIS. COMP. / DW / SW)	Real Compatible				T2 & T4 Compartmentalized
33. Piping material based on **records:** FRP, DW →					
34. Piping material **observed** (FLEX / STEEL / FRP / DW / SW)	✓	✓	✓	✓	
35. Turbine ALLDs installed: (MECH. / ELEC.) -350(2)(a)(i)	NA	✓	✓	✓	[X] [ ] [ ]
36. If IM, DW pipe open; sensor, piping slope and sump penetrations appear correct: -335(1); -345(6)(h); 820(3)(a)(ii)	NA	✓	✓	✓	[X] [ ] [ ]
37. Turbine sumps are free of liquid: -335(1)(b)	✓	✓	✓	✓	[X] [ ] [ ]
38. If direct bury or fuel in sump, charged turbine has NO obvious leaks: -370(1)(c)	NA	NA	NA	NA	[ ] [ ] [X]
39. SFC/piping at tank is protected from corrosion: -305(2)(d)	Sump	Sump	Sump	Sump	[X] [ ] [ ]

[X] SUMP [ ] BOOTED [ ] ANODES [ ] IMP CURRENT [ ] NO SOIL CONTACT

40. UST system compatible with product stored: -323 — [X] [ ] [ ]

COMMENTS: T1 is Syphoned with UL Tank of T2

B. Spill/Overfill Equipment — Compliant? Y (N) NA

41. Spill bucket properly installed and NO obvious cracks: # 1111 — -305(3)(a)(i)	[X]	[ ] [ ]
42. Overfill **auto-shutoff device** is NOT tampered with: # ____ — -305(3)(a)(ii)(A)	[ ]	[ ] [ ]
43. Overfill **alarm** compliant: ? — -305(3)(a)(ii)(B)	[ ]	[ ] [ ]
44. Overfill **ball-float** device present: # ____ [ ] OBSERVED [ ] IN RECORDS DATED ____ — -305(3)(a)(ii)(C)	[ ]	[ ] [ ]

COMMENTS: Did not observe any alarm on site. Need Verification of Overfill method test & how Alarm is/if there is no alarm on Building

C. Dispenser/Aboveground Equipment — Compliant? Y N NA

DISPENSER/SATELLITE NUMBER(S):	1-2	3-4	5-6	7-8				
45. Pipe material **observed:** (FLEX / STEEL / FRP / DW / SW)	✓	✓	✓	✓				
46. Disp. sumps are free of liquid: -335(1)(b)	✓	✓	✓	✓				[X] [ ] [ ]
47. SFC/piping at disp. is protected from corrosion: -305(2)(d)	Sump	Sump	Sump	Sump				[X] [ ] [ ]

[ ] SUMP [ ] BOOTED [ ] ANODES [ ] IMP CURRENT [ ] NO SOIL CONTACT

48. Safe suction verified and meets criteria: [ ] OBSERVED [ ] IN RECORDS DATED ____ — -350(2)(b) — [ ] [ ] [X]

49. Emergency sign(s) visible from dispensers and tanks: -750 — [ ] [X] [ ]

COMMENTS: Need to Post Emergency Signs. Copy Example of Signage

MONTHLY RELEASE DETECTION RECORDS REVIEW

YEAR →	15	15	15	14	14	14	14	14	14	14	14	14	MONTHLY THRU-PUT (OPT.)
TANK OR LINE ↓	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	
T1	P	P	P	P	P	P	P	P	P	P	P	P	
T2	P	P	P	P	P	P	P	P	P	P	P	P	
T3	P	P	P	P	P	P	P	P	P	P	P	P	
T4	P	P	P	P	P	P	P	P	P	P	P	P	
L1	N	N	N	N	N	N	N	N	N	N	N	N	
L2	N	N	N	N	N	N	N	N	N	N	N	N	
L3	N	N	N	N	N	N	N	N	N	N	N	N	
		CSLD .2 hr/Mo			5 Tanks P = Pass		Lic Status for Techs. N = Norms						

ADDITIONAL INFORMATION:

	Y	N
Photos taken:	☐	☒
TA materials provided: Emergency Sign Example	☒	☐

ACTION(S) TAKEN: ☐ NONE

- ☐ TA Comp. Schedule
- ☒ NONC
- ☐ Notice of Penalty # _____
- ☐ 30-Day Notice to Red Tag # _____
- ☐ Immediate Red Tag Issued # _____
- ☐ Re-training Required for: _____
- ☐ O&M Plan required

EPA COMPLIANCE TRACKING:

	Y	N
Overspill/Overfill/CP:	☒	☐
Release Detection:	☒	☐
Class A/B/C Certified:	☒	☐

Inspector Signature: Mark Wallace **Date:** 3-5-15

ADDITIONAL NOTES

C1 - UL Master Cines
C2 - Premium
C3 - Diesel
T1 - UL
T2 - UL And
T3. Premium
T4 - Diesel

Tanks

UST # 8504

Underground Storage Tank Tightness Testing Checklist

DEPARTMENT OF ECOLOGY
State of Washington

The attached Underground Storage Tank (UST) checklist is required for activity listed above. This checklist certifies that the Tightness Testing activities are performed and conducted in accordance with Chapter 173-360 WAC.

See back of form for instructions.

1. UST SYSTEM LOCATION AND OWNER

UBI Number: 602-597-602 (UBI # from Master Business License)

Site ID Number: 8504 (Available from Ecology if tank is Registered)

Site/Business Name: Shell Mini Mart

Site Address: 29625 Pacific Hwy S (Street) King (County)

Federal Way, WA (City State) 98003 (Zip+4 (required))

Telephone:

UST Owner/Operator: same as above

Mailing Address: (Street) (P.O. Box)

(City State) (Zip+4 (required))

Telephone:

2. FIRM PERFORMING WORK

Service Company: SME Solutions, LLC

Service Co. Address: 10107 S. Tacoma Way-Suite A-2 (Street)

Lakewood, WA. (City State) 98499 (Zip+4 (required))

Certified Supervisor: Mark Spandler

Address: Same as above (Street) (P.O. Box)

(City State) (Zip+4 (required))

ICBO Certification Number: 8245831 Certification Issue Date (Month/Year): 04/16

Telephone: 253-572-3822

Ecology is an equal opportunity employer.
If you require special accommodations or need this document in an alternate format, please contact the Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call (877) 833-6341.

ECY 070-69 (11/08) ***White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)***

Underground Storage Tank

Tightness Testing Checklist

Site ID # 8504

Site Address 29625 Pacific Hwy S

City Federal Way, WA

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD

Date of Test: 01/12/15

1. Tightness testing method(s) used (indicate if more than one method was used):
   Test method name/version: Petro-Tite
   Test method manufacturer: Health Consultants

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be (1) filled with product to the 95% full level or (2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): N/A

3. Method used for release detection:
   - ☐ Weekly manual gauging
   - ☐ Daily manual inventory control
   - ☐ Automatic tank gauging (ATG)
   - ☐ Interstitial monitoring
   - ☑ Other (describe) CSLD

4. Reason for conducting tightness test:
   - ☑ Required for release detection requirement
   - ☐ Bring temporarily closed tanks back into service
   - ☐ Tank or piping repair
   - ☐ Other (describe) _____

5. Type of test conducted:
   - ☐ Tank tightness test only
   - ☐ Line tightness test only
   - ☐ Total system test (tank and lines tested together)
   - ☑ Line leak detector test

6. Test method type:
   - ☐ Overfill volumetric
   - ☐ Underfill volumetric
   - ☐ Nonvolumetric
   - ☑ Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form.

	Yes	No	NA*
1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g., detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm of no more than 5%).	MS		
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and conducted?	MS		
3. Was the product level in the tank during the test within the limitations of the test methods performance standards?	MS		
4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)			MS
5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours to UST staff at the appropriate Ecology regional office.)			MS

* *Item not applicable*

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

Site ID # 8504

Site Address 29625 Pacific Hwy S

City Federal Way, WA

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID # (tank name registered with Ecology)				
2. Date installed				
3. Tank capacity in gallons	12000	4000	10000	8000
4. Last substance stored	Unleaded-Master	Unleaded-Syphon	Premium	Diesel
5. Number of tank compartments	1	1	1	1
6. Tank type: (S) single wall; (D) double wall; (P) partitioned	Double Wall	Double Wall	Double Wall	Double Wall
7. Is overfill device present? (Yes/No)	Alarm	Alarm	Alarm	Alarm
8. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)	N/A	N/A	N/A	N/A
9. The test method used can detect a leak of how many GPH?	N/A	N/A	N/A	N/A
10. The numerical tank test results are? (in gallons per hour)	N/A	N/A	N/A	N/A
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are? (Pass/Fail)*	N/A	N/A	N/A	N/A

IV. Line Information

	Line 1	Line 2	Line 3	Line 4
1. Piping type: (S) single wall; (D) double wall	Double Wall	Double Wall	Double Wall	
2. Pump type: (T) turbine; (S) suction	Turbine	Turbine	Turbine	
3. (a) If turbine, is line leak detector present? (Yes/No)	YES	YES	YES	
(1) If present, was lead seal intact? (Yes/No N/A)	N/A	N/A	N/A	
(2) Line leak detector results? (Pass/Fail)	PASS	PASS	PASS	
(b) If suction, check valve located at? (T) tank (P) pump	N/A	N/A	N/A	
4. The numerical line test results are? (in gallons per hour)				
5. Line tightness test results? (Pass/Fail)*				

* Inconclusive test results for tanks or piping will not be considered as a valid tightness test for the purposes of complying with UST release detection regulations.

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

Date	Signature of Certified Supervisor	Printed Name
01/12/15	Digitally signed by Mark Spandler	Mark Spandler
01/12/15	Manjinder Singh	MANJINDER SINGH
Date	Signature of Tank Owner/Authorized Representative	Printed Name

Checklist Instructions

After completing these checklist(s), return to: **Underground Storage Tank Section**
Department of Ecology
P.O. Box 47655
Olympia, WA 98504-7655

Please Read Carefully

Checklist(s) are to be completed by a Certified UST Supervisor and submitted to Ecology within 30 days of the tank work being performed.

On each checklist, complete the Site ID number and/or the UBI number, site address and site city on each page. Submit the cover sheet that contains the site and owner information with the checklist. The checklist should show all tank information that was worked on. Be sure that the Owner or the Authorized Representative **AND** Certified Supervisor sign the appropriate checklist.

The Owner/Operator is responsible for ensuring that the work is performed and that the checklist(s) are submitted to Ecology.

Cover Sheet

Site and Owner Information
Fill in the site and owner information. Include the Ecology Site ID number, if known, and/or UBI number (Uniform Business Identification) from the master business license. Also be sure to provide telephone numbers so that any problems can be resolved quickly.

Firm and Certified Supervisor Information
List the firm performing the work as well as the Certified Supervisor's name and Certification Number. Ask to see the Supervisor's Tightness Testing ICBO Certification and make sure that the Supervisor signs the appropriate checklist for work performed.

Please Note: Individuals performing services MUST be certified by the International Code of Building Officials (ICBO), or other recognized association by which they demonstrate appropriate knowledge pertaining to USTs or have passed another qualifying exam approved by the Department.

Checklists

The **Tightness Testing Checklist** shall be completed and signed by a Certified Tightness Testing Supervisor. The supervisor shall be on site during all tank tightness testing activities. Up to four tanks per site may be reported on a single checklist; additional tanks will require additional checklists. A Tightness Testing Checklist must be completed for each UST system (tank and associated piping) being tested **as well as following most retrofit/repairs.**

The tank owner or operator* must *report* a failed tightness test as *a suspected release* to UST staff *at the appropriate Ecology regional office within 24 hours.

Northwest	Southwest	Central	Eastern
(425) 649-7000	(360) 407-6300	(509) 574-2490	(509) 329-3400

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

DEPARTMENT OF ECOLOGY
State of Washington

Underground Storage Tank Retrofit/Repair Checklist

The attached Underground Storage Tank (UST) checklist is required for the activity listed above. This checklist certifies that Retrofit/Repair activities were performed and conducted in accordance with Chapter 173-360 WAC.

See back of form for instructions.

1. UST SYSTEM LOCATION AND OWNER

UBI Number: 602-597-602 *(UBI # from Master Business License)* Site ID Number: 8504 *(Available from Ecology if tank is Registered)*

Site/Business Name: Shell Mini Mart

Site Address: 29625 Pacific Hwy S *Street* King *County*

Federal Way, WA *City State* 98003 *Zip+4 (required)*

Telephone:

UST Owner/Operator:

Mailing Address: *Street* *P.O. Box*

City State *Zip+4 (required)*

Telephone: E-mail:

2. FIRM PERFORMING WORK

Service Company: SME Solutions, LLC

Service Co. Address: 10107 S Tacoma Way *Street*

Lakewood, WA *City State* 98499 *Zip+4 (required)*

Certified Supervisor: Mark Spandler

Address: 10107 S Tacoma Way *Street* *P.O. Box*

Lakewood, WA *City State* 98499 *Zip+4 (required)*

ICC Certification Number: 8245831 Certification Expiration Date: 04/16

Telephone: 253-572-3822 E-mail: mspandler@sme-solutions.com

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If you require special accommodations or need this document in an alternate format, please contact the Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call (877) 833-6341.

Site ID # 8504

Site Address 29625 Pacific Hwy S
City Federal Way, WA

Underground Storage Tank

Retrofit/Repair Checklist

This form must be completed for each UST system (tank and associated piping) retrofitted or repaired at the site. For more than four UST systems, you may photocopy this form prior to completing.

I. UST SYSTEM INFORMATION

		Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID # (tank name registered with Ecology)					Diesel
2. Date installed					
3. Tank capacity in gallons					
4. Tank material: (Specify for each Tank)	Steel Composite Fiberglass (FRP) Other (specify)				Steel
5. Tank construction: (Specify for each Tank)	(SW) single wall (DW) double wall (P) partitioned				Double wall

II. RETROFITTING/REPAIR INFORMATION

		Tank 1	Tank2	Tank 3	Tank 4
1. **Reason for retrofitting UST system** (indicate all that apply)					
To comply with upgrading requirements for existing UST systems					
To repair structural defect(s) in tank					
Preventive maintenance					
To comply with corrective action requirements					
To comply with Cathodic Protection requirements					
Other (Specify)					Failed Test
2. **Type of retrofitting** (indicate all that apply)					
Installation of internal lining:	Rubber •				
	Alkyd •				
	Epoxy •				
	Phenolic •				
	Glass •				
	Other (specify) •				
Installation of Cathodic Protection Equipment:		(Include copy of Site Plan and Retrofit/Repair Design)			
Addition of Supplementary Anodes	Tanks •				
	Lines •				
	Metal Flex Connectors •				
	Other (Describe) •				
Installation of spill and overfill prevention equipment	Catchment Basin •				
	Auto Shutoff•				
	Overfill Alarm•				
	Ball Float Valve•				
	Other (specify) •				

ECY 070-71 (11/08)

Retrofitting/Repair Checklist (continued)

Site ID # 8504
Site Address 29625 Pacific Hwy S
City Federal Way, WA

II. RETROFITTING/REPAIR INFORMATION (continued)

	Tank 1	Tank 2	Tank 3	Tank 4
2. Type of retrofitting *(indicate all that apply)*				
Installation of release detection equipment				
• Automatic tank gauge (ATG)				
• Vapor monitoring equipment				
• Groundwater monitoring equipment				
• Interstitial monitor				
• Automatic line leak detector				✓
• Other (specify)				
Tank repair *(describe)*				
• Replacement of metal pipe sections and fittings (indicate new piping material)				
• Replacement of fiberglass pipe sections and fittings (indicate new piping material)				
• Repair of fiberglass pipe sections and fittings				
• Other (specify)				
3. Date of Completion of retrofit or repair(s) indicated above				01/12/15
4. Date of Tightness Test following retrofitting or repairs indicated above				01/12/15

III. CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears below.	Yes	No	N/A
1. Have all items checked above been installed, repaired or replaced per code and manufacturer's requirements and in accordance with federal and/or state regulations?	MS		
2. Has the owner/operator been provided with written documentation of the item(s) installed, repaired or replaced?	MS		

IV. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present on site during the above listed retrofitting/repair activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173-360 WAC.

Date	Signature of Certified Supervisor	Print or Type Name
01/12/15	Digitally signed by Mark Spandler	Mark Spandler
01/12/15	Signature of Tank Owner or Authorized Representative	MANDINDER SINGH

Checklist Instructions

After completing the checklist(s), return to:

Underground Storage Tank Section
Department of Ecology
P.O. Box 47655
Olympia, WA 98504-7655

Please Read Carefully

Checklist(s) are to be completed by a Certified UST Supervisor and submitted to Ecology within 30 days of the tank work being performed.

On each checklist, complete the Site ID number and/or the UBI number, site address and site city on each page. Submit the cover sheet that contains the site and owner information with the checklist. The checklist should show all tank and/or piping information that was worked on. Be sure the Owner or the Authorized Representative **AND** Certified Supervisor sign the appropriate checklist.

The Owner/Operator is responsible for ensuring the work is performed and the checklist(s) are submitted to Ecology.

Cover Sheet

Site and Owner Information
Fill in the site and owner information. Include the Ecology Site ID number, if known, and/or UBI number (Uniform Business Identification) from the master business license. Also be sure to provide telephone numbers so that any problems can be resolved quickly.

Firm and Certified Supervisor Information
List the firm performing the work as well as the Certified Supervisor's name and Certification expiration date. Ask to see the Supervisor's Retrofitting/Repair ICC Certification and make sure the Supervisor signs the appropriate checklist for work performed.

Please Note: Individuals performing services MUST be certified by the International Code Council (ICC), or other recognized association by which they demonstrate appropriate knowledge pertaining to USTs or have passed another qualifying exam approved by the Department.

Checklists

The **Retrofitting/Repair Checklist** shall be completed and signed by an ICC Certified Installation and Retrofitting Supervisor. The Certified Supervisor shall be on site when all retrofitting/repair activities are being conducted.

Northwest	Southwest	Central	Eastern
(206) 649-7000	(360) 407-6300	(509) 574-2490	(509) 329-3400

Monitoring System Equipment Certification

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator.

A. General Information

Facility Name: Shell Mini Mart Bldg. No.:

Site Address: 29625 Pacific Hwy S City: Federal Way Zip: 98003

Facility Contact Person: Contact Phone Number:

Make/Model of Monitoring System: Date of Testing/Servicing: 1/12/2015

B. Inventory of Equipment Tested/Certified

Check the appropriate boxes to indicate specific equipment inspected/serviced:

Tank ID: Unleaded Master

☒ In - Tank Gauging Probe	Model: Mag7
☐ Annular Space or Vault Sensor	Model:
☒ Piping Sump/Trench Sensor	Model: VR 352
☐ Fill Sump Sensor(s)	Model:
☒ Mechanical Line Leak Detector	Model: VMI
☐ Electronic Line Leak Detector	Model:
☒ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

Tank ID: Unleaded Syphon

☒ In - Tank Gauging Probe	Model: Mag7
☐ Annular Space or Vault Sensor	Model:
☐ Piping Sump/Trench Sensor	Model:
☐ Fill Sump Sensor(s)	Model:
☐ Mechanical Line Leak Detector	Model:
☐ Electronic Line Leak Detector	Model:
☐ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

Tank ID: Premium

☒ In - Tank Gauging Probe	Model: Mag7
☐ Annular Space or Vault Sensor	Model:
☒ Piping Sump/Trench Sensor	Model: VR 352
☐ Fill Sump Sensor(s)	Model:
☒ Mechanical Line Leak Detector	Model: VMI
☐ Electronic Line Leak Detector	Model:
☒ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

Tank ID: Diesel

☒ In - Tank Gauging Probe	Model: Mag7
☐ Annular Space or Vault Sensor	Model:
☒ Piping Sump/Trench Sensor	Model: VR 352
☐ Fill Sump Sensor(s)	Model:
☒ Mechanical Line Leak Detector	Model: VMI
☐ Electronic Line Leak Detector	Model:
☒ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

Tank ID: N/A

☐ In - Tank Gauging Probe	Model:
☐ Annular Space or Vault Sensor	Model:
☐ Piping Sump/Trench Sensor	Model:
☐ Fill Sump Sensor(s)	Model:
☐ Mechanical Line Leak Detector	Model:
☐ Electronic Line Leak Detector	Model:
☐ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

Tank ID: N/A

☐ In - Tank Gauging Probe	Model:
☐ Annular Space or Vault Sensor	Model:
☐ Piping Sump/Trench Sensor	Model:
☐ Fill Sump Sensor(s)	Model:
☐ Mechanical Line Leak Detector	Model:
☐ Electronic Line Leak Detector	Model:
☐ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

Site Address: 29625 Pacific Hwy S Date of Testing/Servicing: 1/12/2015

Dispenser ID: 1-8 ☐ Dispenser Containment Sensor(s) Model: ____ ☒ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ____ ☐ Dispenser Containment Sensor(s) Model: ____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)
Dispenser ID: ____ ☐ Dispenser Containment Sensor(s) Model: ____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)	**Dispenser ID:** ____ ☐ Dispenser Containment Sensor(s) Model: ____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)
Dispenser ID: ____ ☐ Dispenser Containment Sensor(s) Model: ____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)	**Dispenser ID:** ____ ☐ Dispenser Containment Sensor(s) Model: ____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)
Dispenser ID: ____ ☐ Dispenser Containment Sensor(s) Model: ____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)	**Dispenser ID:** ____ ☐ Dispenser Containment Sensor(s) Model: ____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)

C. Results of Testing/Servicing

Software Version Installed: 127.02

Complete the following checklist:

☒ Yes	☐ No*	Is the audible alarm operational?
☒ Yes	☐ No*	Is the visual alarm operational?
☒ Yes	☐ No*	Were all the sensors visually inspected, functionally tested, and confirmed operational?
☒ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☒ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shutdown? *(Check all that apply)* ☐ Sump/Trench Sensors ☐ Dispenser Containment Sensors Did you confirm positive shutdown due to leaks and sensor failure/disconnection? ☐ Yes ☐ No
☐ Yes	☐ No* ☒ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill protection valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent does the alarm trigger? ____ %
☐ Yes*	☒ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in section G, below.
☐ Yes*	☒ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product ☐ Water *If yes, describe causes in Section G, below.*
☒ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? (Attach set-up reports, if applicable)
☒ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In section G below, describe how and when these deficiencies were or will be corrected.**

Site Address: 29625 Pacific Hwy S Date of Testing/Servicing: 1/12/2015

D. In - Tank Gauging/ SIR Equipment

☐ Check this box if tank gauging is used only for inventory control.
☐ Check this box if no tank gauging or SIR equipment is installed.

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

☒ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☒ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue build-up?
☒ Yes	☐ No*	Was accuracy of system product level readings tested?
☒ Yes	☐ No*	Was accuracy of system water level readings tested?
☒ Yes	☐ No*	Were all probes reinstalled properly?
☒ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

***In section G below, describe how and when these deficiencies were or will be corrected.**

E. Line Leak Detectors (LLD):

Complete the following checklist: ☐ Check this box if LLD's are not installed

☒ Yes	☐ No*	For equipment start-up or annual equipment certification was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ☒ 3 g.p.h (1); ☐ 0.1 g.p.h. (2.); ☐ 0.2 g.p.h. (2.).
	☐ N/A	Notes: 1. Required for equipment start-up certification and annual certification. 2. Unless mandated by local agency, certification required only for electronic LLD Startup.
☒ Yes	☐ No*	Were all LLD's confirmed operational and accurate within regulatory requirements?
☒ Yes	☐ No*	Was the testing apparatus properly calibrated?
☒ Yes	☐ No*	For mechanical LLD's, does the LLD restrict product flow is it detects a leak?
	☐ N/A	
☐ Yes	☐ No*	For electronic LLD's, does the turbine automatically shut off if the LLD detects a leak?
	☒ N/A	
☐ Yes	☐ No*	For electronic LLD's, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
	☒ N/A	
☐ Yes	☐ No*	For electronic LLD's, does the turbine automatically shut off if any portion of the monitoring system is malfunctions or fails a test?
	☒ N/A	
☐ Yes	☐ No*	For electronic LLD's, have all accessible wiring connections been visually inspected?
	☒ N/A	
☒ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

***In section G below, describe how and when these deficiencies were or will be corrected.**

F. Certification - I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturer's guidelines. Attached to this Certification is information (e.g. manufacturers' checklist) necessary to verify that this information is correct. For any equipment capable of generating such reports, I have also attached a copy of the; *(Check all that apply)*

G. Comments ☒ System set-up ☒ Alarm History Report

Replaced diesel FX1 leak detector, not functioning, with VMI LD2000

Technician Name: Mark Spandler Signature: Digitally signed by Mark Spandler

Mfg. Cert.#: ICC# 8245831-U3 License No.:

Testing Company Name: SME Solutions, LLC. Phone No.: (253) 572-3822

Testing Company Address: 10107 S. Tacoma Way-Lakewood, WA. 98499 Date of Testing/Servicing: 1/12/2015

SME SOLUTIONS, LLC

10707 S. Tacoma Way
Suite A-2
Lakewood, WA. 98499
(253) 572-3822

2800 N.W. 31st. Ave
Portland, OR. 97210
(503) 946-0000

Mechanical Leak Detector Test Data Sheet

Site Name Shell Mini Mart Date 1/12/2015

Address 29625 Pacific Hwy S

Federal Way, WA 98003

Test Information

	1	2	3	4	5
Product	Unleaded	Premium	Diesel		
Manufacturer	VMI	VMI	VMI		
Model	LD2200	LD2000	LD2000		
Full Operating Pressure (PSI)	28	26	28		
Line Bleed Back (ml)	150	200	110		
Trip Time (sec)	2	2	3		
Metering Pressure (PSI)	20	18	19		
F/E Holding Pressure (PSI)	22	24	23		
Test Leak Rate (ml/min)(gph)	3	3	3		
PASS or FAIL	**PASS**	**PASS**	**PASS**		

Comments Replaced diesel FX1 leak detector with LD2000

This letter certifies that the annual leak detector tests were performed at the above referenced facility according to the equipment manufacturers procedures and limitations and the results as listed are to my knowledge true and correct. The mechanical leak detector test pass/fail is determined using a low flow threshold trip rate of 3 gph at 10 PSI.

Inspected By: Contractor SME Solutions, LLC

Technician Mark Spandler Lic# 8245831

Signature Digitally signed by Mark Spandler

Washington Oregon Gasoline Vapor Control Committee

This form will be accepted by any State or Local Air Pollution Agency requiring compliance testing on gas station vapor recovery equipment within the states of Washington or Oregon

For Agency Use Only
Reviewed by: _____
Date: _____
☐ Passed ☐ Failed
(Attach reasons for test failure to this form)

Pressure Decay Test CARB Test Procedure TP-201.3 or Procedure in CARB Executive Order for Stage 2 Equipment

Station Name: Shell Mini Mart	Air Agency Registration No.:
Address: 29625 Pacific Hwy S	
City, State, Zip: Federal Way, WA 98003	
Testing Company Name: SME Solutions, LLC	Date/Time of Test: 01/12/15
Address: 10107 S. Tacoma Way-Suite A2	Phone No.: 253-572-3822
City, State, Zip: Lakewood, WA. 98499	

Type of Stage 1: ☐ Coaxial ☑ Dual Point

Type of Stage 2 system: ☐ Balance ☐ Tokheim ☐ Wayne ☐ OPW ☑ Gilbarco ☐ Healy ☐ Other: _____

Tanks Manifolded? Yes ☑ No ☐ **Total Nozzles:** 24 **Tested with vapor cap:** ON ☐ or OFF ☑

	Tank #1	Tank #2	Tank #3	Tank #4	
Number of Nozzles:	24				Total if Manifolded
Capacity:	12000	4000	10000		27000
Gasoline Volume:	6539	2176	3028		11743
Ullage:	5493	1834	7124		14451
Percent Ullage:	% 46	% 46	% 65	%	% 53

Minimum total ullage for each tank must be 1,000 gallons or 25% of tank capacity

Maximum total ullage from manifolded (all) tanks must not exceed 25,000 gallons

Date Test Equipment Calibrated: 01/05/15

Test Results

	If Manifolded	Non-Manifolded Tank #1	Tank #2	Tank #3	Tank #4
Initial Pressure	2.0" H2O	2.0" H2O	2.0" H2O	2.0" H2O	2.0" H2O
Pressure after 1 minute	" H2O 1.99	" H2O	" H2O	" H2O	" H2O
Pressure after 2 minutes	" H2O 1.96	" H2O	" H2O	" H2O	" H2O
Pressure after 3 minutes	" H2O 1.93	" H2O	" H2O	" H2O	" H2O
Pressure after 4 minutes	" H2O 1.91	" H2O	" H2O	" H2O	" H2O
Pressure after 5 minutes	" H2O 1.91	" H2O	" H2O	" H2O	" H2O

Allowable pressure from table (TP-201.3 or Applicable CARB Exec Exhibit #): _____

Allowable pressure calculated (Formulas on back): 1.88

Person conducting the test:

Mark Spandler — *Print Name*

Digitally signed by Mark Spandler — *Signature*

01/12/15 — *Date*

Tank owner or authorized representative:

MANJINDER SINGH — *Print Name*

Manjinder Singh — *Signature*

01/12/15 — *Date*

1 Calculating Results

1.1 Allowable Pressures for Balance Systems

For Phase II Balance systems, the allowable five-minute final pressure, with an initial pressure of two inches (2.0) of water column, shall be calculated as follows:

$P_f = 2e^{-760.490/V}$ If N = 1-6

$P_f = 2e^{-792.196/V}$ If N = 7-12

$P_f = 2e^{-824.023/V}$ If N = 13-18

$P_f = 2e^{-855.974V}$ If N = 19-24

$P_f = 2e^{-888.047/V}$ If N = 24

Where:

N = The number of affected nozzles:

For manifold systems, N equals the total number of nozzles.

For dedicated plumbing configurations, N equals the number of nozzles serviced by the tank being tested.

P_f = The minimum allowable five-minute final pressure, inches H_20

V = The total ullage affected by the test, gallons

e = A dimensionless constant approximately equal to 2.718

2 = The initial starting pressure, inches H_20

1.2 Allowable Pressures for Assist Systems

For Phase II Vacuum Assist Systems, the allowable five-minute final pressure, with an initial pressure of two inches (2.0) of water column, shall be calculated as follows:

$P_f = 2e^{-500.887/V}$ If N = 1-6

$P_f = 2e^{-531.614/V}$ If N = 7-12

$P_f = 2e^{-562.455/V}$ If N = 13-18

$P_f = 2e^{-593.412/V}$ If N = 19-24

$P_f = 2e^{-624.483/V}$ If N = 24

Washington Oregon Gasoline Vapor Control Committee

This form will be accepted by any State or Local Air Pollution Agency requiring compliance testing on gas station vapor recovery equipment within the states of Washington or Oregon

For Agency Use Only
Reviewed by: _____
Date: _____
☐ Passed ☐ Failed
(Attach reasons for test failure to this form)

Back Pressure Tests (Wet/Dry) CARB Test Procedure TP-201.4

Station Name: Shell Mini Mart	Air Agency Registration No.:
Address: 29625 Pacific Hwy S	
City, State, Zip: Federal Way, WA 98003	

Testing Company Name: SME Solutions, LLC	Date/Time of Test: 01/12/15
Address: 10107 S. Tacoma Way-Suite A2	Phone No.: 253-572-3822
City, State, Zip: Lakewood, WA. 98499	

Allowed back pressure for: Vapor Balance : **Nozzle** 0.35 60 CFH 0.62 80 CFH **Riser** 0.05 60 CFH
Vacuum Assist: **Riser** 0.5* 60 CFH
* EO G-70-165 Max allowable pressure drop 0.02 "$H_2$0 Column at 60 CFH.

From: ☐ CARB Executive Order #: _____ or ☑ CARB Test Procedure TP-201.4

Nitrogen introduced at: ☐ Nozzle ☑ Riser

Did Test Procedure include Fuel Dispensing? ☐ Yes ☑ No

Vapor Valve located: ☐ In Nozzle ☑ External

Date Test Equipment Calibrated: 01/05/15

All underground vapor lines must be tested Test must be conducted wet and dry.

Wet/Dry?:	Riser /Pump Number	GasGrade	Nozzle No.	Test Time (Min:Sec)	Back pressure in WC at a flow rate of: 60 CFH	80 CFH
Dry	3/4	MPD		30	0.23 " H2O	" H2O
Dry	7/8	MPD		30	0.19 " H2O	" H2O
					" H2O	" H2O
					" H2O	" H2O
					" H2O	" H2O
					" H2O	" H2O

Person conducting the test:
Mark Spandler — *Print Name*
Digitally signed by Mark Spandler — *Signature*
1/12/2015 — *Date*

Tank owner or authorized representative:
MANDINDER SINGH — *Print Name*
Mandinder Singh — *Signature*
1/12/15 — *Date*

SME

SME SOLUTIONS, LLC

Pressure/Vacuum (P/V) Vent Valve Data Sheet

Facility Name:	Shell Mini Mart	Test Date/Time:	1/12/2015
Address:	29625 Pacific Hwy S	Test Company:	SME Solutions, LLC
City, State, Zip :	Federal Way, WA 98003	Tester Name:	Mark Spandler
Air Agency Reg. #:		Tester Signature:	Digitally signed by Mark Spandler

P/V Valve Manufacturer: OPW		Model Number: 5238		Pass / Fail: Pass
Manufacturers Specified Positive Leak Rate (CFH):	0.05	**Manufacturers Specified Negative Leak Rate (CFH):**	0.21	
Measured Positive Leak Rate (CFH):	0.04	Measured Negative Leak Rate (CFH):	0.19	
Positive Cracking Pressure (in. H_2O):	2.74	Negative Cracking Pressure (in. H_2O):	9.54	

P/V Valve Manufacturer:	Model Number:	Pass / Fail:
Manufacturers Specified Positive Leak Rate (CFH):	**Manufacturers Specified Negative Leak Rate (CFH):**	
Measured Positive Leak Rate (CFH):	Measured Negative Leak Rate (CFH):	
Positive Cracking Pressure (in. H_2O):	Negative Cracking Pressure (in. H_2O):	

P/V Valve Manufacturer:	Model Number:	Pass / Fail:
Manufacturers Specified Positive Leak Rate (CFH):	**Manufacturers Specified Negative Leak Rate (CFH):**	
Measured Positive Leak Rate (CFH):	Measured Negative Leak Rate (CFH):	
Positive Cracking Pressure (in. H_2O):	Negative Cracking Pressure (in. H_2O):	

P/V Valve Manufacturer:	Model Number:	Pass / Fail:
Manufacturers Specified Positive Leak Rate (CFH):	**Manufacturers Specified Negative Leak Rate (CFH):**	
Measured Positive Leak Rate (CFH):	Measured Negative Leak Rate (CFH):	
Positive Cracking Pressure (in. H_2O):	Negative Cracking Pressure (in. H_2O):	

Washington Oregon Gasoline Vapor Control Committee

This form will be accepted by any State or Local Air Pollution Agency requiring compliance testing on gas station vapor recovery equipment within the states of Washington or Oregon

For Agency Use Only
Reviewed by: _____
Date: _____
☐ Passed ☐ Failed
(Attach reasons for test failure to this form)

Static Torque of Rotatable Stage 1 Adaptors

Station Name: Shell Mini Mart	Air Agency Registration No.:
Address: 29625 Pacific Hwy S	
City, State, Zip: Federal Way, WA 98003	

Testing Company Name: SME Solutions, LLC	Date/Time of Test: 01/12/15
Address: 10107 S. Tacoma Way-Suite A2	Phone No.: 253-572-3822
City, State, Zip: Lakewood, WA. 98499	

Measurement Units: ☑ pound-inches ☐ pound-feet

Vapor Adaptor 1	Vapor Adaptor 2	Vapor Adaptor 3	Vapor Adaptor 4
☑ Adaptor torqued to riser per manufacturer spec. 360° ☐ PASS ☐ FAIL	☑ Adaptor torqued to riser per Omanufacturer spec. 360° ☐ PASS ☐ FAIL	☑ Adaptor torqued to riser per manufacturer spec. 360° ☐ PASS ☐ FAIL	☐ Adaptor torqued to riser per manufacturer spec. 360° ☐ PASS ☐ FAIL
Brand: OPW	Brand: OPW	Brand: OPW	Brand:
Model: 61VSA	Model: 61VSA	Model: 61VSA	Model:
Grade: Unleaded	Grade: Unleaded	Grade: Super	Grade:
Torque 1: 80	Torque 1: 90	Torque 1: 95	Torque 1:
Torque 2: 80	Torque 2: 95	Torque 2: 90	Torque 2:
Torque 3: 75	Torque 3: 95	Torque 3: 90	Torque 3:
Average: 78.33	Average: 93.33	Average: 91.67	Average: 0.00

Product Adaptor 1	Product Adaptor 2	Product Adaptor 3	Product Adaptor 4
☑ Adaptor torqued to riser per manufacturer spec. 360° ☑ PASS ☐ FAIL	☑ Adaptor torqued to riser per manufacturer spec. 360° ☑ PASS ☐ FAIL	☑ Adaptor torqued to riser per manufacturer spec. 360° ☑ PASS ☐ FAIL	☐ Adaptor torqued to riser per manufacturer spec. 360° ☐ PASS ☐ FAIL
Brand: OPW	Brand: OPW	Brand: OPW	Brand: OPW
Model: 61SALP	Model: 61SALP	Model: 61SALP	Model:
Grade: Unleaded	Grade: Unleaded	Grade: Super	Grade:
Torque 1: 65	Torque 1: 85	Torque 1: 80	Torque 1:
Torque 2: 65	Torque 2: 85	Torque 2: 80	Torque 2:
Torque 3: 70	Torque 3: 85	Torque 3: 75	Torque 3:
Average: 66.67	**Average:** 85.00	**Average:** 78.33	**Average:** 0.00

Mark Spandler — *Print Name*

Digitally signed by Mark Spandler — *Signature*

01/12/15 — *Date*

Tank owner or authorized representative:

MANJINDER SINGH — *Print Name*

Signature

01/12/15 — *Date*

Washington Oregon Gasoline Vapor Control Committee

This form will be accepted by any State or Local Air Pollution Agency requiring compliance testing on gas station vapor recovery equipment within the states of Washington or Oregon

For Agency Use Only

Reviewed by: _____

Date: _____

☐ Passed ☐ Failed

(Attach reasons for test failure to this form)

Determination of Vapor Piping Connections (Tie-Tank Test) TP-201.3C

Station Name: Shell Mini Mart	Air Agency Registration No.:
Address: 29625 Pacific Hwy S	
City, State, Zip: Federal Way, WA 98003	

Testing Company Name: SME Solutions, LLC	Date/Time of Test: 1/12/2015
Address: 10107 S. Tacoma Way-Suite A2	Phone No.: 253-572-3822
City, State, Zip: Lakewood, WA. 98499	

The Tie-tank test is a pass fail test used to determine if all gasoline storage tanks are manifolded together. Diesel tank must not be manifold with the gasoline tanks. All tanks that service a stage 2 system must be manifold in order for the vapor recovery system to operate properly.

Option 1:

1) Remove dust cap from one stage 1 vapor adaptor. Introduce nitrogen at a stage 2 riser at the rate of 100 SCFH (bootless nozzles = 60 SCFH).

2) Briefly open the dry breaks on each tank (one at a time)

3) Is pressure relieved on each tank about the same

Option 2

1) Pressurize a tank to 2.10"WC and test the pressure in each tank using a pressure gauge on each vapor riser adaptor.

2) Is pressure readings from each tank about the same

Option 3

1) After conducting a pressure decay test, while the tanks are still pressurized.

2) Briefly open the dry breaks on each tank (one at a time)

3) Is pressure relieved from each tank about the same

YES

PASS

If the answer is yes, using the above options, then the tanks have passed the tie-tank test.

Comments:

Mark Spandler — *Print Name*

Digitally signed by Mark Spandler — *Signature*

1/12/2015 — *Date*

Tank owner or authorized representative:

MANJINDER SINGH — *Print Name*

Manjinder Singh — *Signature*

1/12/2015 — *Date*

Site Name and Address:	
Shell Mini Mart	
29625 Pacific Hwy S	
Federal Way, WA 98003	
Air Agency Reg. #:	
Test Date and Time:	Jan 12, 2015

TriTester

CARB TP 201.5
Air to Liquid Test
RESULTS REPORTING FORM

Test Firm Name and Address:	
SME Solutions, LLC	
10107 S. Tacoma Way-Suite A2	
Lakewood, WA. 98499	
Phone:	253-572-3822
Technician Name:	Mark Spandler
Signature:	Digitally signed by Mark Spandler
Applicable CARB EO #	

Meter Leak Tests

Bulb must not inflate in less than 30 seconds.

Pre-Test Leak Check Result ☐ Pass ☐ Fail

Post-Test Leak Check Result ☐ Pass ☐ Fail

Calibration Date: 12/29/14

Serial No: 0527996

Disp #	Gas Grade	Nozzle	GPM	A/L	Pass Fail	Comment
1	Regular	11VAI27	9.91	1.03	Pass	
1	Plus	11VAI27	8.09	1.10	Pass	
1	Super	11VAI27	9.04	1.16	Pass	
2	Regular	11VAI27	8.82	1.12	Pass	
2	Plus	11VAI27	9.11	1.16	Pass	
2	Super	11VAI27	8.72	1.15	Pass	
3	Regular	11VAI27	7.01	1.09	Pass	
3	Plus	11VAI27	6.99	1.03	Pass	
3	Super	11VAI27	9.26	1.05	Pass	
4	Regular	12VW	8.73	1.05	Pass	
4	Plus	12VW	8.89	1.09	Pass	
4	Super	12VW	9.15	1.04	Pass	
5	Regular	11VAI27	8.24	1.10	Pass	
5	Plus	11VAI27	8.60	1.11	Pass	
5	Super	11VAI27	9.14	1.08	Pass	
6	Regular	11VAI27	9.37	1.14	Pass	
6	Plus	11VAI27	9.54	1.08	Pass	
6	Super	11VAI27	10.00	1.11	Pass	
7	Regular	11VAI27	9.98	1.10	Pass	
7	Plus	11VAI27	8.06	1.12	Pass	
7	Super	11VAI27	6.94	1.11	Pass	
8	Regular	11VAI27	8.09	1.07	Pass	
8	Plus	11VAI27	8.88	1.17	Pass	
8	Super	11VAI27	9.90	1.14	Pass	

UST #8504

DEPARTMENT OF ECOLOGY
State of Washington

Underground Storage Tank Tightness Testing Checklist

The attached Underground Storage Tank (UST) checklist is required for activity listed above. This checklist certifies that the Tightness Testing activities are performed and conducted in accordance with Chapter 173-360 WAC.

See back of form for instructions.

1. UST SYSTEM LOCATION AND OWNER

UBI Number: 602-597-602 *(UBI # from Master Business License)*

Site ID Number: 8504 *(Available from Ecology if tank is Registered)*

Site/Business Name: Shell

Site Address: 29625 Pacific Hwy So *Street* — King *County*

Federal Way WA *City State* — 98003 *Zip+4 (required)*

Telephone:

UST Owner/Operator: Shell

Mailing Address: 29625 Pacific Hwy So *Street* — *P.O. Box*

Federal Way WA *City State* — 98003 *Zip+4 (required)*

Telephone:

2. FIRM PERFORMING WORK

Service Company: SME Solutions, LLC

Service Co. Address: 2302 A Street *Street*

Tacoma, WA. *City State* — 98402 *Zip+4 (required)*

Certified Supervisor: Mike Wertz

Address: Same as above *Street* — *P.O. Box*

City State — *Zip+4 (required)*

ICBO Certification Number: 8155174-U3 — Certification Issue Date (Month/Year): 4- 2012

Telephone: 253-572-3822

Ecology is an equal opportunity employer.
If you require special accommodations or need this document in an alternate format, please contact the Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call (877) 833-6341.

ECY 070-69 (11/08) ***White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)***

Underground Storage Tank

Tightness Testing Checklist

Site ID # 8504

Site Address 29625 Pacific Hwy So

City Federal Way WA

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD

Date of Test: 1.10.2014

1. Tightness testing method(s) used (indicate if more than one method was used):
   Test method name/version Petro-Tite
   Test method manufacturer Heath Consultants

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be (1) filled with product to the 95% full level or (2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): N/A

3. Method used for release detection:
   - [ ] Weekly manual gauging
   - [ ] Daily manual inventory control
   - [ ] Automatic tank gauging (ATG)
   - [ ] Interstitial monitoring
   - [x] Other (describe) CSLD

4. Reason for conducting tightness test:
   - [x] Required for release detection requirement
   - [ ] Bring temporarily closed tanks back into service
   - [ ] Tank or piping repair
   - [ ] Other (describe) _____

5. Type of test conducted:
   - [ ] Tank tightness test only
   - [ ] Line tightness test only
   - [ ] Total system test (tank and lines tested together)
   - [x] Line leak detector test

6. Test method type:
   - [ ] Overfill volumetric
   - [ ] Underfill volumetric
   - [ ] Nonvolumetric
   - [x] Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form.

	Yes	No	NA*
1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g., detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm of no more than 5%).	Mw		
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and conducted?	Mw		
3. Was the product level in the tank during the test within the limitations of the test methods performance standards?	Mw		
4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)			Mw
5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours to UST staff at the appropriate Ecology regional office.)			Mw

* *Item not applicable*

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

Site ID # 8504

Site Address 29625 Pacific Hwy So
City Federal Way WA

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID # (tank name registered with Ecology)				
2. Date installed				
3. Tank capacity in gallons				
4. Last substance stored				
5. Number of tank compartments				
6. Tank type: (S) single wall; (D) double wall; (P) partitioned				
7. Is overfill device present? (Yes/No)				
8. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)				
9. The test method used can detect a leak of how many GPH?				
10. The numerical tank test results are? (in gallons per hour)				
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are? (Pass/Fail)*				

IV. Line Information

	Line 1	Line 2	Line 3	Line 4
1. Piping type: (S) single wall; (D) double wall	Double Wall	Double Wall	Double Wall	
2. Pump type: (T) turbine; (S) suction	Turbine	Turbine	Turbine	
3. (a) If turbine, is line leak detector present? (Yes/No)	YES	YES	YES	
(1) If present, was lead seal intact? (Yes/No N/A)	N/A	N/A	N/A	
(2) Line leak detector results? (Pass/Fail)	PASS	PASS	PASS	
(b) If suction, check valve located at? (T) tank (P) pump	N/A	N/A	N/A	
4. The numerical line test results are? (in gallons per hour)				
5. Line tightness test results? (Pass/Fail)*	N/A	N/A	N/A	

* Inconclusive test results for tanks or piping will not be considered as a valid tightness test for the purposes of complying with UST release detection regulations.

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

Date	Signature of Certified Supervisor	Printed Name
1.10.2014	Digitally signed by Mike Wertz	Mike Wertz
1/10/2014	Manjinder Singh	MANJINDER SINGH
Date	Signature of Tank Owner/Authorized Representative	Printed Name

Checklist Instructions

After completing these checklist(s), return to: **Underground Storage Tank Section**
Department of Ecology
P.O. Box 47655
Olympia, WA 98504-7655

Please Read Carefully

Checklist(s) are to be completed by a Certified UST Supervisor and submitted to Ecology within 30 days of the tank work being performed.

On each checklist, complete the Site ID number and/or the UBI number, site address and site city on each page. Submit the cover sheet that contains the site and owner information with the checklist. The checklist should show all tank information that was worked on. Be sure that the Owner or the Authorized Representative **AND** Certified Supervisor sign the appropriate checklist.

The Owner/Operator is responsible for ensuring that the work is performed and that the checklist(s) are submitted to Ecology.

Cover Sheet

Site and Owner Information
Fill in the site and owner information. Include the Ecology Site ID number, if known, and/or UBI number (Uniform Business Identification) from the master business license. Also be sure to provide telephone numbers so that any problems can be resolved quickly.

Firm and Certified Supervisor Information
List the firm performing the work as well as the Certified Supervisor's name and Certification Number. Ask to see the Supervisor's Tightness Testing ICBO Certification and make sure that the Supervisor signs the appropriate checklist for work performed.

Please Note: Individuals performing services MUST be certified by the International Code of Building Officials (ICBO), or other recognized association by which they demonstrate appropriate knowledge pertaining to USTs or have passed another qualifying exam approved by the Department.

Checklists

The **Tightness Testing Checklist** shall be completed and signed by a Certified Tightness Testing Supervisor. The supervisor shall be on site during all tank tightness testing activities. Up to four tanks per site may be reported on a single checklist; additional tanks will require additional checklists. A Tightness Testing Checklist must be completed for each UST system (tank and associated piping) being tested **as well as following most retrofit/repairs.**

The tank owner or operator* must *report* a failed tightness test as *a suspected release* to UST staff *at the appropriate Ecology regional office within 24 hours.

Northwest	Southwest	Central	Eastern
(425) 649-7000	(360) 407-6300	(509) 574-2490	(509) 329-3400

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

Monitoring System Equipment Certification

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator.

A. General Information

Facility Name: Shell Bldg. No.:

Site Address: 29625 Pacific Hwy SO City: Federal Way WA Zip:

Facility Contact Person: Contact Phone Number:

Make/Model of Monitoring System: Veeder Root TLS 350 Date of Testing/Servicing: 1/10/2014

B. Inventory of Equipment Tested/Certified

Check the appropriate boxes to indicate specific equipment inspected/serviced:

Tank ID: Unleaded Primary

☒ In - Tank Gauging Probe	Model: Mag
☐ Annular Space or Vault Sensor	Model:
☒ Piping Sump/Trench Sensor	Model: VR 352
☐ Fill Sump Sensor(s)	Model:
☒ Mechanical Line Leak Detector	Model: VMI
☐ Electronic Line Leak Detector	Model:
☒ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

Tank ID: Unleaded Secondary

☒ In - Tank Gauging Probe	Model: Mag
☐ Annular Space or Vault Sensor	Model:
☐ Piping Sump/Trench Sensor	Model:
☐ Fill Sump Sensor(s)	Model:
☐ Mechanical Line Leak Detector	Model:
☐ Electronic Line Leak Detector	Model:
☒ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

Tank ID: Premium

☒ In - Tank Gauging Probe	Model: Mag
☐ Annular Space or Vault Sensor	Model:
☒ Piping Sump/Trench Sensor	Model: VR 352
☐ Fill Sump Sensor(s)	Model:
☒ Mechanical Line Leak Detector	Model: VMI
☐ Electronic Line Leak Detector	Model:
☒ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

Tank ID: Diesel

☒ In - Tank Gauging Probe	Model: Mag
☐ Annular Space or Vault Sensor	Model:
☒ Piping Sump/Trench Sensor	Model: VR 352
☐ Fill Sump Sensor(s)	Model:
☒ Mechanical Line Leak Detector	Model: Red Jacket
☐ Electronic Line Leak Detector	Model:
☒ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

Tank ID: N / A

☐ In - Tank Gauging Probe	Model:
☐ Annular Space or Vault Sensor	Model:
☐ Piping Sump/Trench Sensor	Model:
☐ Fill Sump Sensor(s)	Model:
☐ Mechanical Line Leak Detector	Model:
☐ Electronic Line Leak Detector	Model:
☐ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

Tank ID: N / A

☐ In - Tank Gauging Probe	Model:
☐ Annular Space or Vault Sensor	Model:
☐ Piping Sump/Trench Sensor	Model:
☐ Fill Sump Sensor(s)	Model:
☐ Mechanical Line Leak Detector	Model:
☐ Electronic Line Leak Detector	Model:
☐ Tank Overfill/High Level Sensor	Model:
☐ Other (Specify equipment type and model in Section G on Page 3)	

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

Site Address: 29625 Pacific Hwy SO

Date of Testing/Servicing: 1/10/2014

Dispenser ID: 1/8 ☐ Dispenser Containment Sensor(s) Model: _____ ☒ Shear Valve(s ☐ Dispenser Containment Float(s) and Chain(s)	**Dispenser ID:** N / A ☐ Dispenser Containment Sensor(s) Model: _____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)
Dispenser ID: N / A ☐ Dispenser Containment Sensor(s) Model: _____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)	**Dispenser ID:** N / A ☐ Dispenser Containment Sensor(s) Model: _____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)
Dispenser ID: N / A ☐ Dispenser Containment Sensor(s) Model: _____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)	**Dispenser ID:** N / A ☐ Dispenser Containment Sensor(s) Model: _____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)
Dispenser ID: N / A ☐ Dispenser Containment Sensor(s) Model: _____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)	**Dispenser ID:** N / A ☐ Dispenser Containment Sensor(s) Model: _____ ☐ Shear Valve(s) ☐ Dispenser Containment Float(s) and Chain(s)

C. Results of Testing/Servicing

Software Version Installed: _____

Complete the following checklist:

☒ Yes	☐ No*	Is the audible alarm operational?
☒ Yes	☐ No*	Is the visual alarm operational?
☒ Yes	☐ No*	Were all the sensors visually inspected, functionally tested, and confirmed operational?
☒ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☒ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shutdown? *(Check all that apply)* ☐ Sump/Trench Sensors ☐ Dispenser Containment Sensors Did you confirm positive shutdown due to leaks and sensor failure/disconnection? ☐ Yes ☐ No
☐ Yes	☐ No* ☒ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill protection valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent does the alarm trigger? _____ %
☐ Yes*	☒ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in section G, below.
☐ Yes*	☒ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product ☐ Water *If yes, describe causes in Section G, below.*
☒ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? (Attach set-up reports, if applicable)
☒ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In section G below, describe how and when these deficiencies were or will be corrected.**

Site Address: 29625 Pacific Hwy SO Date of Testing/Servicing: 1/10/2014

D. In - Tank Gauging/ SIR Equipment

☐ Check this box if tank gauging is used only for inventory control.
☐ Check this box if no tank gauging or SIR equipment is installed.

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

☒ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☒ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue build-up?
☒ Yes	☐ No*	Was accuracy of system product level readings tested?
☒ Yes	☐ No*	Was accuracy of system water level readings tested?
☒ Yes	☐ No*	Were all probes reinstalled properly?
☒ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

***In section G below, describe how and when these deficiencies were or will be corrected.**

E. Line Leak Detectors (LLD):

Complete the following checklist: ☐ Check this box if LLD's are not installed

☒ Yes	☐ No*	For equipment start-up or annual equipment certification was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ☐ 3 g.p.h (1); ☐ 0.1 g.p.h. (2.); ☐ 0.2 g.p.h. (2).
	☐ N/A	Notes: 1. Required for equipment start-up certification and annual certification. 2. Unless mandated by local agency, certification required only for electronic LLD Startup.
☒ Yes	☐ No*	Were all LLD's confirmed operational and accurate within regulatory requirements?
☒ Yes	☐ No*	Was the testing apparatus properly calibrated?
☒ Yes	☐ No*	For mechanical LLD's, does the LLD restrict product flow is it detects a leak?
	☐ N/A	
☐ Yes	☐ No* ☒ N/A	For electronic LLD's, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☒ N/A	For electronic LLD's, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☒ N/A	For electronic LLD's, does the turbine automatically shut off if any portion of the monitoring system is malfunctions or falls a test?
☐ Yes	☐ No* ☒ N/A	For electronic LLD's, have all accessible wiring connections been visually inspected?
☒ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

***In section G below, describe how and when these deficiencies were or will be corrected.**

F. Certification - I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturer's guidelines. Attached to this Certification is information (e.g. manufacturers' checklist) necessary to verify that this information is correct. For any equipment capable of generating such reports, I have also attached a copy of the; *(Check all that apply)*

G. Comments ☒ System set-up ☒ Alarm History Report

Technician Name: Mike Wertz Signature: Digitally signed by Mike Wertz

Mfg. Cert.#: B35175 ICC# 8155174-U3 License No.: B35175

Testing Company Name: SME Solutions, LLC. Phone No.: (253) 572-3822

Testing Company Address: 2302 A St., Tacoma, WA 98402 Date of Testing/Servicing: 1/10/2014

SME SOLUTIONS, LLC

6015 E Valleyway Ave
Spokane, WA 99212
(253) 572-3822

2302 A Street
Tacoma, WA 98402
(253) 572-3822

2800 NW 31st Ave
Portland, OR 97210
(503) 946-0000

Mechanical Leak Detector Test Data Sheet

Site Name Shell Date 1/10/2014

Address 29625 Pacific Hwy So

Federal Way WA

Test Information

	1	2	3	4	5
Product	Unleaded	Premium	Diesel		
Manufacturer	VMI	VMI	Red Jacket		
Model	LD2200	LD2200	FX2DV		
Full Operating Pressure (PSI)	28	28	30		
Line Bleed Back (ml)	110	100	130		
Trip Time (sec)	6	3	4		
Metering Pressure (PSI)	14	12	12		
F/E Holding Pressure (PSI)	22	20	22		
Test Leak Rate (ml/min)(gph)	3 GPH	3 GPH	3 GPH		
PASS or FAIL	**PASS**	**PASS**	**PASS**		

Comments

This letter certifies that the annual leak detector tests were performed at the above referenced facility according to the equipment manufacturers procedures and limitations and the results as listed are to my knowledge true and correct. The mechanical leak detector test pass/fail is determined using a low flow threshold trip rate of 3 gph at 10 PSI.

Inspected By: Contractor SME Solutions LLC

Technician Mike Wertz Lic# 8155174-U3

Signature Digitally signed by Mike Wertz

Washington Oregon Gasoline Vapor Control Committee

This form will be accepted by any State or Local Air Pollution Agency requiring compliance testing on gas station vapor recovery equipment within the states of Washington or Oregon

For Agency Use Only
Reviewed by: _____
Date: _____
☐ Passed ☐ Failed
(Attach reasons for test failure to this form)

Pressure Decay Test CARB Test Procedure TP-201.3 or Procedure in CARB Executive Order for Stage 2 Equipment

Station Name: Shell
Air Agency Registration No.:
Address: 29625 Pacific Hwy So
City, State, Zip: Federal Way WA

Testing Company Name: SME Solutions, LLC
Date/Time of Test: 1.10.2014
Address: 2302 A Street
Phone No.: 253-572-3822
City, State, Zip: Tacoma, WA. 98402

Type of Stage 1: ☐ Coaxial ☑ Dual Point
Type of Stage 2 system: ☐ Balance ☐ Tokheim ☐ Wayne ☐ OPW ☑ Gilbarco ☐ Healy ☐ Other: _____
Tanks Manifolded? Yes ☑ No ☐ **Total Nozzles:** 24 **Tested with vapor cap:** ON ☐ or OFF ☑

	Tank #1	Tank #2	Tank #3	Tank #4	Total if Manifolded
Number of Nozzles:					
Capacity:	12000	4000	10000		26000
Gasoline Volume:	7588	2526	2799		12913
Ullage:	4412	1474	7201		13087
Percent Ullage:	% 37%	% 37%	% 72%	%	% 50%

Minimum total ullage for each tank must be 1,000 gallons or 25% of tank capacity

Maximum total ullage from manifolded (all) tanks must not exceed 25,000 gallons

Date Test Equipment Calibrated: 7-2012

Test Results

	If Manifolded	Non-Manifolded Tank #1	Tank #2	Tank #3	Tank #4
Initial Pressure	2.0" H2O	2.0" H2O	2.0" H2O	2.0" H2O	2.0" H2O
Pressure after 1 minute	" H2O 2	" H2O	" H2O	" H2O	" H2O
Pressure after 2 minutes	" H2O 2	" H2O	" H2O	" H2O	" H2O
Pressure after 3 minutes	" H2O 1.98	" H2O	" H2O	" H2O	" H2O
Pressure after 4 minutes	" H2O 1.97	" H2O	" H2O	" H2O	" H2O
Pressure after 5 minutes	" H2O 1.95	" H2O	" H2O	" H2O	" H2O

Allowable pressure from table (TP-201.3 or Applicable CARB Exec Exhibit #): 1.91
Allowable pressure calculated (Formulas on back): 1.91

Person conducting the test:
Mike Wertz — *Print Name*
Digitally signed by Mike Wertz — *Signature*
1.10.2014 — *Date*

Tank owner or authorized representative:
MANDINDER SINGH — *Print Name*
Signature
1/10/2014 — *Date*

WOGVACC Air To Liquid Ratio Test LCV:PSAPCA Updated 2/23/98

Formulas

1 Calculating Results

1.1. Allowable Pressures for Balance Systems

For Phase II Balance systems, the allowable five-minute final pressure, with an initial pressure of two inches (2.0) of water column, shall be calculated as follows:

$P_f = 2e^{-760.490/V}$ If N = 1-6

$P_f = 2e^{-792.196/V}$ If N = 7-12

$P_f = 2e^{-824.023/V}$ If N = 13-18

$P_f = 2e^{-855.974V}$ If N = 19-24

$P_f = 2e^{-888.047/V}$ If N = 24

Where:

N = The number of affected nozzles:

For manifold systems, N equals the total number of nozzles.

For dedicated plumbing configurations, N equals the number of nozzles serviced by the tank being tested.

P_f = The minimum allowable five-minute final pressure, inches H_20

V = The total ullage affected by the test, gallons

e = A dimensionless constant approximately equal to 2.718

2 = The initial starting pressure, inches H_20

1.2 Allowable Pressures for Assist Systems

For Phase II Vacuum Assist Systems, the allowable five-minute final pressure, with an initial pressure of two inches (2.0) of water column, shall be calculated as follows:

$P_f = 2e^{-500.887/V}$ If N = 1-6

$P_f = 2e^{-531.614/V}$ If N = 7-12

$P_f = 2e^{-562.455/V}$ If N = 13-18

$P_f = 2e^{-593.412/V}$ If N = 19-24

$P_f = 2e^{-624.483/V}$ If N = 24

Washington Oregon Gasoline Vapor Control Committee

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For Agency Use Only

Reviewed by: _____

Date: _____

☐ Passed ☐ Failed

(Attach reasons for test failure to this form)

Determination of Vapor Piping Connections (Tie-Tank Test) TP-201.3C

Station Name: Shell	Air Agency Registration No.:
Address: 29625 Pacific Hwy So	
City, State, Zip: Federal Way WA	

Testing Company Name: SME Solutions, LLC	Date/Time of Test: 1/10/2014
Address: 2302 A St.	Phone No.: 253-572-3822
City, State, Zip: Tacoma, WA. 98402	

The Tie-tank test is a pass fail test used to determine if all gasoline storage tanks are manifolded together. Diesel tank must not be manifold with the gasoline tanks. All tanks that service a stage 2 system must be manifold in order for the vapor recovery system to operate properly.

Option 1:

1) Remove dust cap from one stage 1 vapor adaptor. Introduce nitrogen at a stage 2 riser at the rate of 100 SCFH (bootless nozzles = 60 SCFH).

2) Briefly open the dry breaks on each tank (one at a time)

3) Is pressure relieved on each tank about the same

Option 2

1) Pressurize a tank to 2.10"WC and test the pressure in each tank using a pressure gauge on each vapor riser adaptor.

2) Is pressure readings from each tank about the same

Option 3

1) After conducting a pressure decay test, while the tanks are still pressurized.

2) Briefly open the dry breaks on each tank (one at a time)

3) Is pressure relieved from each tank about the same

YES

PASS

If the answer is yes, using the above options, then the tanks have passed the tie-tank test.

Comments:

Mike Wertz	Digitally signed by Mike Wertz	1/10/2014
Print Name	*Signature*	*Date*

Tank owner or authorized representative:

MANJINDER SINGH		1/10/2014
Print Name	*Signature*	*Date*

Washington Oregon Gasoline Vapor Control Committee

This form will be accepted by any State or Local Air Pollution Agency requiring compliance testing on gas station vapor recovery equipment within the states of Washington or Oregon

For Agency Use Only

Reviewed by: _____

Date: _____

☐ Passed ☐ Failed

(Attach reasons for test failure to this form)

Static Torque of Rotatable Stage 1 Adaptors

Station Name: Shell	Air Agency Registration No.:
Address: 29625 Pacific Hwy So	
City, State, Zip: Federal Way WA	

Testing Company Name: SME Solutions, LLC	Date/Time of Test: 1.10.2014
Address: 2302 A Street	Phone No.: 253-572-3822
City, State, Zip: Tacoma, WA. 98402	

Measurement Units: ☑ pound-inches ☐ pound-feet

Vapor Adaptor 1	Vapor Adaptor 2	Vapor Adaptor 3	Vapor Adaptor 4
☑ Adaptor torqued to riser per manufacturer spec.	☑ Adaptor torqued to riser per manufacturer spec.	☑ Adaptor torqued to riser per manufacturer spec.	☐ Adaptor torqued to riser per manufacturer spec.
360° ☑ PASS ☐ FAIL	360° ☑ PASS ☐ FAIL	360° ☑ PASS ☐ FAIL	360° ☐ PASS ☐ FAIL
Brand: OPW	Brand: OPW	Brand: OPW	Brand: OPW
Model: 61 VSA	Model: 61 VSA	Model: 61 VSA	Model: 61 VSA
Grade: Unleaded	Grade: Unleaded	Grade: Super	Grade: Diesel
Torque 1: 85	Torque 1: 85	Torque 1: 90	Torque 1: 75
Torque 2: 8	Torque 2: 90	Torque 2: 95	Torque 2: 75
Torque 3: 85	Torque 3: 90	Torque 3: 90	Torque 3: 80
Average: 85.00	Average: 88.33	Average: 91.67	Average: 76.67

Product Adaptor 1	Product Adaptor 2	Product Adaptor 3	Product Adaptor 4
☐ Adaptor torqued to riser per manufacturer spec. 360° ☐ PASS ☐ FAIL	☐ Adaptor torqued to riser per manufacturer spec. 360° ☐ PASS ☐ FAIL	☐ Adaptor torqued to riser per manufacturer spec. 360° ☐ PASS ☐ FAIL	☐ Adaptor torqued to riser per manufacturer spec. 360° ☐ PASS ☐ FAIL
Brand: OPW	Brand: OPW	Brand: OPW	Brand: OPW
Model: 61SALP	Model: 61SALP	Model: 61SALP	Model: 61SALP
Grade: Unleaded	Grade: Unleaded	Grade: Super	Grade: Diesel
Torque 1: 65	Torque 1: 75	Torque 1: 70	Torque 1: 75
Torque 2: 70	Torque 2: 75	Torque 2: 70	Torque 2: 70
Torque 3: 70	Torque 3: 75	Torque 3: 70	Torque 3: 75
Average: 68.33	Average: 75.00	Average: 70.00	Average: 73.33

Mike Wertz
Print Name

Digitally signed by Mike Wertz
Signature

1.10.2014
Date

Tank owner or authorized representative:

MANJINDER SINGH
Print Name

Signature

1/10/14
Date

Washington Oregon Gasoline Vapor Control Committee

This form will be accepted by any State or Local Air Pollution Agency requiring compliance testing on gas station vapor recovery equipment within the states of Washington or Oregon

For Agency Use Only
Reviewed by: _____
Date: _____
☐ Passed ☐ Failed
(Attach reasons for test failure to this form)

Back Pressure Tests (Wet/Dry) CARB Test Procedure TP-201.4

Station Name: Shell	Air Agency Registration No.:
Address: 29625 Pacific HWY SO	
City, State, Zip: Federal Way WA	

Testing Company Name: SME Solutions, LLC	Date/Time of Test: 1.10.2014
Address: 2302 A Street	Phone No.: 253-572-3822
City, State, Zip: Tacoma, WA. 98402	

Allowed back pressure for: Vapor Balance : **Nozzle** 0.35 60 CFH 0.62 80 CFH **Riser** 0.05 60 CFH
Vacuum Assist: **Riser** 0.5* 60 CFH
* EO G-70-165 Max allowable pressure drop 0.02 "H_2O Column at 60 CFH.

From: ☐ CARB Executive Order #: _____ or ☐ CARB Test Procedure TP-201.4

Nitrogen introduced at: ☐ Nozzle ☑ Riser

Did Test Procedure include Fuel Dispensing? ☐ Yes ☐ No

Vapor Valve located: ☐ In Nozzle ☑ External

Date Test Equipment Calibrated: 10-2013

All underground vapor lines must be tested Test must be conducted wet and dry.

Wet/Dry?:	Riser /Pump Number	GasGrade	Nozzle No.	Test Time (Min:Sec)	Back pressure in WC at a flow rate of: 60 CFH	80 CFH
Wet	3/4	MPD	All	60 Sec	.02 " H2O	" H2O
Wet	7/8	MPD	All	60 Sec	.01 " H2O	" H2O
					" H2O	" H2O
					" H2O	" H2O
					" H2O	" H2O
					" H2O	" H2O

Person conducting the test:
Mike Wertz
Print Name

Mike Wertz Digitally signed by Mike Wertz
Signature

1/10/2014
Date

Tank owner or authorized representative:
MANJINDER SINGH
Print Name

Manjinder Singh
Signature

1/10/14
Date

Site Name and Address:		TriTester	Test Firm Name and Address:	
Shell		CARB TP 201.5	SME Solutions, LLC	
29625 Pacific HWY SO		Air to Liquid Test	2302 A Street	
Federal Way WA		RESULTS REPORTING FORM	Tacoma, WA. 98402	
Air Agency Reg. #:			Phone:	(253) 572-3822
Test Date and Time:	Jan 10, 2014		Technician Name:	Mike Wertz
Meter Leak Tests			Signature:	Digitally signed by Mike Wertz
) must not inflate in less t an 30 seconds.				
Pre-Test Leak Check Result ☒ Pass ☐ Fail		Calibration Date:	Applicable CARB EO #	
Post-test Leak Check Result ☒ Pass ☐ Fail		Serial No:		

Disp #	Gas Grade	Nozzle GPM		A/L	Pass Fail	Comment
1	Regular	9.95		1.17	Pass	OPW 11VAI 27
1	Plus	8.72		1.13	Pass	OPW 11VAI 27
1	Super	9.74		1.02	Pass	OPW 11VAI 27
2	Regular	9.57		1.19	Pass	OPW 11VAI 27
2	Plus	9.15		1.17	Pass	OPW 11VAI 27
2	Super	9.37		1.20	Pass	OPW 11VAI 27
3	Regular	9.82		1.10	Pass	OPW 11VAI 27
3	Plus	9.04		1.07	Pass	OPW 11VAI 27
3	Super	9.84		1.16	Pass	OPW 11VAI 27
4	Regular	10.0		1.02	Pass	OPW 11VAI 27
4	Plus	8.93		1.04	Pass	OPW 11VAI 27
4	Super	9.71		1.13	Pass	OPW 11VAI 27
5	Regular	9.60		1.03	Pass	OPW 11VAI 27
5	Plus	9.10		1.01	Pass	OPW 11VAI 27
5	Super	9.55		1.00	Pass	OPW 11VAI 27
6	Regular	9.95		1.07	Pass	OPW 11VAI 27
6	Plus	9.26		1.08	Pass	OPW 11VAI 27
6	Super	9.07		1.02	Pass	OPW 11VAI 27
7	Regular	9.89		1.05	Pass	OPW 11VAI 27
7	Plus	9.15		1.07	Pass	OPW 11VAI 27
7	Super	9.92		1.00	Pass	OPW 11VAI 27
8	Regular	9.37		1.09	Pass	OPW 11VAI 27
8	Plus	9.13		1.07	Pass	OPW 11VAI 27
8	Super	9.26		1.01	Pass	OPW 11VAI 27

Willoughby, Mark (ECY) UST #8504

From: Willoughby, Mark (ECY)
Sent: Tuesday, February 10, 2015 11:48 AM
To: 'RAIANDTIWANA@NETZERO.COM'
Subject: UST#8504
Attachments: Preparing for an UST Inspection.docx; Operator Training Focus Sheet.docx; Class C Operator Training Log.docx; Emergency Signage for UST Sites.docx; Emergency Sign Example.pdf

Importance: High

Hello Mr. Singh,
As confirmed on the phone, I will be conducting a Tank Site Inspection on March 3, 2015 at 0900 AM (+/- 30 min) at your site located at 29625 Pacific HWY S Federal Way, WA 98003.

I attached the following documents to help you prepare for the inspection:

- A focus sheet on Preparing for an UST Inspection.
- A focus sheet on Operator Training.
- Class C Operating Training Log.
- A focus sheet on Emergency Signage (This new regulation went into effect October 1, 2012- WAC-173-360-750).
- An example of the Emergency Sign.

Based on the tank registration information the owner provided to the Dept. of Ecology, I have highlighted key paperwork in the Preparing for an UST Inspection Sheet. You will need to have these documents available during the inspection. Have someone available to open all heavy tank manways, fill ports, and dispenser panels. Thank you, and call me if you have any questions.

Mark Willoughby
Underground Storage Tank Inspector
Dept. of Ecology - NWRO: Toxic Clean Up/UST
Work (425) 649-7109
Fax (425) 649-7161
marw461@ecy.wa.gov

DEPARTMENT OF ECOLOGY
State of Washington

State of Washington Department of Ecology

UST Site Inspection

Inspection Date: 4-2-2013 Time: 1100 Inspector(s): BRENDA YAGER

Inspection Type: *(circle)* (UST Compl) *Tech. Assist.* *Follow-up* *Other*

Site Name: SHELL MINI MART	UST #: 8504
Address: 29625 PACIFIC HWY S	Site Contact: Ranjit
City: FEDERAL WAY	Phone: 2539411611

Tank #	Gallons	Fuel Type	Tank Model (i.e. STI-P3, Xerxes)	Compartment/Manifold
5	10	Unl	Steel Clad w/Corr Resist	
6	8	✓	✓	master slave
7	~~12~~ 12K	✓	✓	12/8
8	8			

Fuel Distributor:	Distr. Phone:

I. RECORDKEEPING REQUIREMENTS

A. General Documents:

	Compliant?		
1. TAG visible to distributor: (TAG # 43797) WAC 173-360-130(4)	(Y)	N	N/A
2. MBL compliant: (UBI# 602527602) (exp. date 8-31-13) WAC 173-360-130(2)(d)	(Y)	N	N/A
3. Fin. Resp. in compliance: *(circle) Insur. co. self-insur. state/fed.* WAC 173-360 Part IV	(Y)	N	N/A
Tank Insurance Co. Colony Expiration Date 11-2-2013			

B. Tank and Line Corrosion Protection:

Tank Material *(circle)* *Steel* *Coated Steel* *FRP* (Steel Clad w/ Corr Resist)
Single-Wall (Double-Wall)

Tank Corr. Prot. *(circle)* *Galvanic* *Impr Curr* *Int. Lining* (Corr Resist)

Piping Material *(circle)* *Steel* (FRP) *Flex*
Single-Wall (Double-Wall)

Piping Corr. Prot. *(circle)* *Galvanic* *Imp. Curr.* (Corr. Resist)

Interior lining install date _____ Int. Lining inspection date _____			
4. Interior lining meets 10 & 5 yr. inspection frequency: WAC 173-360-310(2)(a)(ii)	Y	N	(N/A)
5. Interior lining inspection has Pass or equivalent results: WAC 173-360-310(2)(a)(ii)	Y	N	(N/A)
Cath. Prot. Test date _____ for: *(circle) Steel Tank(s) Steel Line(s)*			
6. Cathodic Protection test frequency in compliance: WAC 173-360-320(2)(a)	Y	N	(N/A)
7. CP test has Passing or equivalent results: WAC 173-360-320(1)	Y	N	(N/A)
8. Records indicate tanks and piping are corrosion protected: WAC173-360-305/310	(Y)	N	N/A

C. Tank Inventory Control is conducted: *(circle)* *Daily* *Weekly* *Monthly*

9. Inventory control is performed correctly: WAC 173-360-345(6)(a)(b)(c	Y	N	(N/A)
10. Tanks do not exceed 10 yr. limit for inventory control: WAC 173-360-345(2)	Y	N	(N/A)
Tank(s) met corrosion protection requirements (date) _____			
11. Tank tight. test frequency compliant: (last date _____) WAC 173-360-345(5)(6)(a)(b)(c)	Y	N	(N/A)

D. Tank Monthly monitoring: *(circle)* *ATG* *Vapor* *GW* (Interstitial) *SIR* *Other*

12. Rel. Det. Method is checked or conducts test monthly: WAC 173-360-335(2)(a)	(Y)	N	N/A
13. Equip. service checks per mnfctr's instruct.: (date 1-16-13) WAC 173-360-335(1)(b)	(Y)	N	N/A
14. SIR Vendor (_____) records and frequency compliant: WAC 173-345(6)(i)	Y	N	(N/A)

Comments: GOOD SITE !!

Ecology is an Equal Opportunity Employer. If you require special accommodations or need this document in an alternate format, please contact the Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call (877) 833-6341.

UST Site Inspection (cont.) UST # 8504 Insp. Date 4-2-2013

I. RECORDKEEPING REQUIREMENTS (cont.)

E. Piping Pumping System: *(circle) Pressure Suction(Tank) Suction(Pump) Other*

	Compliant?		
15. Pressure Lines have annual **ALLD** test: (date 1-10-13) WAC 173-360-350(3)(a)	Y	N	N/A
ALLD Type: *(circle) Manual Electronic*			
16. Pressurized Lines use *(circle) Annual Line TT Elec. ALLD Line TT Vapor GW Interstitial SIR Other*			
17. Press. Lines annual line tight. test compliant: (date 1013) WAC 173-360-350(3)(b)	Y	N	N/A
18. Press. Lines Elec. ALLD tight. test compliant: (date _____) WAC 173-360-350(3)(b)	Y	N	N/A
19. Pressure Lines VM, GWM, Interstitial, or SIR compliant: WAC 173-360-350(3)(c)	Y	N	N/A
20. Int. sump sensor service check per mnftr's instruct: (date 1013) WAC 173-360-335(1)(b)	Y	N	N/A
21. Suction Line (tank valve) 3 yr. Tight. Test: (date _____) WAC 173-360-350(2)(b)	Y	N	N/A
22. Suction Line (tank valve) VM, GW, Intst. or SIR compliant: WAC 173-360-350(2)(b)	Y	N	N/A

II. EQUIPMENT CHECKS

A. Rectifier for Impressed Current System:

23. Imp. Curr. system operated and maintained continuously: WAC 173-360-320(1)	Y	N	N/A
24 Imp. Curr. system inspected every 60 days: WAC 173-360-320(3)	Y	N	N/A
25. Imp. Curr. Amp/Volt readings within specified range: WAC 173-360-320(3)	Y	N	N/A
Readings: Amp _____ Volt _____ Meter/Clock _____			
Rectifier Model _____ Install Date _____			

B. Monthly monitoring: *(circle) AIG Vapor GW Interstitial SIR Other*

Release Detection Model VR TLS350			
26. Rel. Det. Equip. is **NOT** in alarm: WAC 173-360-335(1)(b)	Y	N	N/A
If no, why is it in alarm			
27. Rel. Det. equipment and/or alarms operational : WAC 173-360-335(1)(b)	Y	N	N/A
28 Rel. Det. equipment printer or modem operational: WAC 173-360-335(1)(b)	Y	N	N/A
29. Vapor or GW MWs placed around tanks and piping runs: WAC 173-360-335(1)(a)	Y	N	N/A

C. Lines:

30. Pressurized Lines ALLD is present: WAC 173-360-350(3)(a) ////	Y	N	N/A
31. Corr. Res. lines verified: *(circle) at supply at dispenser records* WAC 173-360-305(2)	Y	N	N/A
32. Interstitial Line sump sensors are placed correctly: WAC 173-360-335(1)(a)	Y	N	N/A
33. Turbine Sumps are free of liquid: WAC 173-360-335(1)(b)	Y	N	N/A

D. Spill/Overfill:

34. Spill Bucket does **NOT** have obvious cracks, holes. WAC 173-360-305(3)(a)(i) ////	Y	N	N/A
35. Overfill device used: *(circle) Auto-Shut. Alarm Ball-float* WAC 173-360-305(3)(a)(ii)	Y	N	N/A
36. Overfill auto. shut-off device is **NOT** tampered with: WAC 173-360-305(3)(a)(ii)(A)	Y	N	N/A
37. Overfill alarm set at 90% and audible to delivery driver: WAC173-360-305(3)(a)(ii)(B)	Y	N	N/A
38. Overfill ball-float valve present: *(circle) visual records* WAC 173-360-305(3)(a)(ii)(B)	Y	N	N/A

Comments: _____

Significant Operational Compliance with Overspill/Overfill/Corr. Prot.: Y N N/A
Significant Operational Compliance with Release Detection: Y N N/A

____Photos Taken ___Tech. Assist. Materials Provided (_____)
____Action Taken: *(circle) Notice of Noncompliance* *Field Citation#* _____

Inspector Signature _____ **Date** 4-2-2013

SHELL MINI MART
29625 PACIFIC HWY S
FEDERAL WAY, WA
253-941-1611

APR 2, 2013 9:02

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

SHELL MINI MART
29625 PACIFIC HWY S
FEDERAL WAY, WA
253-941-1611

APR 2, 2013 9:02

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

INVENTORY REPORT

T 1:UNLEADED MASTER
VOLUME = 6848 GALS
ULLAGE = 5184 GALS
90% ULLAGE= 3980 GALS
TC VOLUME = 6886 GALS
HEIGHT = 53.08 INCHES
WATER VOL = 19 GALS
WATER = 0.94 INCHES
TEMP = 51.9 DEG F

T 2:UNLEADED SYPHON
VOLUME = 2276 GALS
ULLAGE = 1734 GALS
90% ULLAGE= 1333 GALS
TC VOLUME = 2288 GALS
HEIGHT = 52.97 INCHES
WATER VOL = 3 GALS
WATER = 0.66 INCHES
TEMP = 52.1 DEG F

T 3:PREMIUM
VOLUME = 2467 GALS
ULLAGE = 7685 GALS
90% ULLAGE= 6669 GALS
TC VOLUME = 2481 GALS
HEIGHT = 27.96 INCHES
WATER VOL = 16 GALS
WATER = 0.94 INCHES
TEMP = 51.5 DEG F

T 4:DIESEL
VOLUME = 1803 GALS
ULLAGE = 6218 GALS
90% ULLAGE= 5415 GALS
TC VOLUME = 1808 GALS
HEIGHT = 26.51 INCHES
WATER VOL = 7 GALS
WATER = 0.63 INCHES
TEMP = 52.2 DEG F

MANIFOLDED TANKS
INVENTORY TOTALS
T 1:UNLEADED MASTER
T 2:UNLEADED SYPHON
VOLUME = 9124 GALS
TC VOLUME = 9174 GALS

* * * * * END * * * * *

8504

Richardson, Cathie (ECY)

From: Richardson, Cathie (ECY)
Sent: Wednesday, March 06, 2013 4:45 PM
To: 'raiandtiwana@netzero.com'
Cc: Yager, Brenda (ECY)
Subject: UST inspection 8504
Attachments: preparing UST_2011.pdf; Signage Focus Sheet Nov 20 final_with all edits.pdf

Please confirm this email/inspection

3/7 Mr. Singh confirmed by phone + said resent via email. We are having email issues

DEPARTMENT OF ECOLOGY State of Washington

March 6, 2013

Mr. Manjinder Singh
Shell Mini Mart
29625 Pacific Hwy S
Federal Way

Re: Underground Storage Tank Inspection 8504

Dear Mr. Singh:

Please contact the inspector for all questions or concerns regarding the inspection. The Department of Ecology inspector performing your inspection is:
Brenda Yager
email: byag461@ecy.wa.gov
phone number is 425-649-7234
cell # 425-495-1646.

This information is to help prepare you for an upcoming Underground Storage Tanks (UST) Inspection(s). I have included a link for an information sheet titled "Preparing for an Underground Storage Tank Inspection" which gives an overview of the inspection and basic preparation for the inspection.
https://fortress.wa.gov/ecy/publications/publications/1009047.pdf for more information.

The inspection is scheduled for **Tuesday April 2nd at 10:00 a.m.**
Shell Mini Mart
29625 Pacific Hwy S
Federal Way

Some owners hire their tank service provider to be present during the inspection to open all the necessary equipment. Some owners find it difficult to open the large metal manways above the turbines. Appropriate tools must be used to safely open and lift the heavy manways. Ecology inspectors will not open the equipment. Be sure you have the keys to open the dispenser panels and fill ports.

The Department of Ecology will require verification of paperwork (e.g., Master Business License, Insurance, testing) and access into the turbine sump and dispensers, so please have those items available at the time of the inspection.

Sincerely,

Cathie Richardson
Underground Tanks Case Developer

Cathie Richardson | Case Developer/Toxic Cleanup| 425-649-7135| fax: 425-649-7161 | carl461@ecy.wa.gov

NWRO-King
UST #8504
FS 19813564

RECEIVED
JAN 20 2011
Dept Of Ecology
Toxics Cleanup Program

Underground Storage Tank Tightness Testing Checklist

The attached Underground Storage Tank (UST) checklist is required for activity listed above. This checklist certifies that the Tightness Testing activities are performed and conducted in accordance with Chapter 173.360 WAC.

See back of form for instructions.

1. UST SYSTEM LOCATION AND OWNER

UBI Number: 602 527 602 (UBI # from Master Business License) Site ID Number: A3797 (Available from Ecology if tank is Registered)

Site/Business Name: Shell

Site Address: 29625 Pac Hwy So (Street) (County)
Federal Way WA 98003 (City) (State) (Zip+4 (required))

Telephone:

UST Owner/Operator: Manjinder Singh

Mailing Address: 29625 Pacific Hwy So, (Street) (P.O. Box)
Federalway, WA, 98003 (City) (State) (Zip+4 (required))

Telephone: 253-941-1611

2. FIRM PERFORMING WORK

Service Company: sme solutions

Service Co. Address: 2302 "A" St (Street)
Tacoma WA (City) (State) (Zip+4 (required))

Certified Supervisor: mike wertz

Address: Same As Above (Street) (P.O. Box)
(City) (State) (Zip+4 (required))

ICBO Certification Number: 5130318-03 Certification Issue Date (Month/Year): 8/09

Telephone: 2535723827

Ecology is an equal opportunity employer.
For special accommodation needs, please contact the Underground Storage Tanks Section at (360) 407-7170, 1-(800) 833-6388 or 711 (TTY)

ECY 070-69 (03/03) *White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)*

2/1/11

8504

Checklist Instructions

After completing these checklist(s), return to: **Underground Storage Tank Section**
Department of Ecology
P.O. Box 47655
Olympia, WA 98504-7655

Please Read Carefully

Checklist(s) are to be completed by a Certified UST Supervisor and submitted to Ecology within 30 days of the tank work being performed.

On each checklist, complete the Site ID number and/or the UBI number, site address and site city on each page. Submit the cover sheet that contains the site and owner information with the checklist. The checklist should show all tank information that was worked on. Be sure that the Owner or the Authorized Representative **AND** Certified Supervisor sign the appropriate checklist.

The Owner/Operator is responsible for ensuring that the work is performed and that the checklist(s) are submitted to Ecology.

Cover Sheet

Site and Owner Information
Fill in the site and owner information. Include the Ecology Site ID number, if known, and/or UBI number (Uniform Business Identification) from the master business license. Also be sure to provide telephone numbers so that any problems can be resolved quickly.

Firm and Certified Supervisor Information
List the firm performing the work as well as the Certified Supervisor's name and Certification Number. Ask to see the Supervisor's Tightness Testing ICBO Certification and make sure that the Supervisor signs the appropriate checklist for work performed.

Please Note: Individuals performing services MUST be certified by the International Code of Building Officials (ICBO), or other recognized association by which they demonstrate appropriate knowledge pertaining to USTs or have passed another qualifying exam approved by the Department.

Checklists

The Tightness Testing Checklist shall be completed and signed by a Certified Tightness Testing Supervisor. The supervisor shall be on site during all tank tightness testing activities. Up to four tanks per site may be reported on a single checklist; additional tanks will require additional checklists. A Tightness Testing Checklist must be completed for each UST system (tank and associated piping) being tested as well as following most retrofit repairs.

The tank owner or operator* must *report* a failed tightness test as *a suspected release* to UST staff *at the appropriate Ecology regional office within 24 hours.

Northwest	Southwest	Central	Eastern
(206) 649-7000	(360) 407-6300	(509) 574-2490	(509) 329-3400

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

Underground Storage Tank

Tightness Testing Checklist

Site ID #

Site Address shell
29625 Pac Hwy S.
City Fed. Way WA

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD

Date of Test: 1-4-2011

1. Tightness testing method(s) used (indicate if more than one method was used):
   Test method name/version: Petro-Tite
   Test method manufacturer: Heath Consultants

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be: 1) filled with product to the 95% full level or 2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): n/a

3. Method used for release detection:
   - ☐ Weekly manual gauging
   - ☐ Daily manual inventory control
   - ☐ Automatic tank gauging (ATG)
   - ☐ Interstitial monitoring
   - ☒ Other (describe) CSLD

4. Reason for conducting tightness test:
   - ☒ Required for release detection requirement
   - ☐ Bring temporarily closed tanks back into service
   - ☐ Tank or piping repair
   - ☐ Other (describe) _____

5. Type of test conducted:
   - ☐ Tank tightness test only
   - ☐ Line tightness test only
   - ☐ Total system test (tank and lines tested together)
   - ☒ Leak Detectors

6. Test method type:
   - ☐ Overfill volumetric
   - ☐ Underfill volumetric
   - ☐ Nonvolumetric
   - ☒ Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form.

	Yes	No	NA*
1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g., detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm of no more than 5%).	☑	☐	☐
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and conducted?	☑	☐	☐
3. Was the product level in the tank during the test within the limitations of the test methods performance standards?	☑	☐	☐
4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)	☐	☐	☑
5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours to UST staff at the appropriate Ecology regional office.)	☐	☐	☑

* Item not applicable

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

Site ID #

Site Address Shell
29625 Pac. Hwy So
City Federal Way

Tigl ...ess Testing Checklist (continued)

III. TA... INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
Tank ID # (tank name registered with Ecology)				
Date installed				
...nk capacity in gallons				
...ast substance stored				
Number of tank compartments				
Tank type: (S) single wall; (D) double wall; (P) partitioned				
...overfill device present? (Yes/No)	Floats	Floats	Floats	Floats
...rcentage of product in tank during test? ...olume % must comply with test method ...rification requirements)				
...he test method used can detect a leak of how ...many GPH?				
...he numerical tank test results are? (in gallons per hour)				
...ased on evaluating test results and conducting any ...testing as necessary as per test protocol to obtain ...nclusive test results; the test results are? (Pass/Fail)*				

IV. Li... ...rmation

	Line 1	Line 2	Line 3	Line 4
...ng type: (S) single wall; (D) double wall	D	D	D	
...mp type: (T) turbine; (S) suction	T	T	T	
...If turbine, is line leak detector present? (Yes/No) (1) If present, was lead seal intact? (Yes/No N/A) (2) Line leak detector results? (Pass/Fail) ...If suction, check valve located at? (T) tank (P) pump	yes n/a Pass n/a	yes n/a Pass n/a	yes n/a Pass n/a	
...numerical line test results are? (in gallons per hour)	1	1	1	
...e tightness test results? (Pass/Fail)*	1	✓	✓	

* ...clusive test results for tanks or piping will not be considered as a valid tightness test for the purposes of ...ying with UST release detection regulations.

V. R... ...ED SIGNATURES

I ... attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best o... ...owledge they have been conducted in compliance with all applicable state and federal laws, regulations and p... ...s, pertaining to underground storage tanks.

P... ...submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

1-4-2011	Signature of Certified Supervisor	Mike Wertz Printed Name
1-13-2011	Signature of Tank Owner/Authorized Representative	MANJINDER SINGH Printed Name

...3 (03/03) *White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider*

IN-TANK SETUP

T 1:UNLEADED MASTER
PRODUCT CODE : 1
THERMAL COEFF : .000690
TANK DIAMETER : 95.75
TANK PROFILE : 1 PT
FULL VOL : 12032

FLOAT SIZE: 4.0 IN.

WATER WARNING : 2.0
HIGH WATER LIMIT: 2.7

MAX OR LABEL VOL: 12032
OVERFILL LIMIT : 90%
: 10828
HIGH PRODUCT : 95%
: 11430
DELIVERY LIMIT : 10%
: 1203

LOW PRODUCT : 501
LEAK ALARM LIMIT: 99
SUDDEN LOSS LIMIT: 99
TANK TILT : 0.00
PROBE OFFSET : 0.00

SIPHON MANIFOLDED TANKS
T#: 02
LINE MANIFOLDED TANKS
T#: NONE

LEAK MIN PERIODIC: 0%
: 0

LEAK MIN ANNUAL : 0%
: 0

PERIODIC TEST TYPE
STANDARD

ANNUAL TEST FAIL
ALARM DISABLED

PERIODIC TEST FAIL
ALARM DISABLED

GROSS TEST FAIL
ALARM DISABLED

ANN TEST AVERAGING: OFF
PER TEST AVERAGING: OFF

TANK TEST NOTIFY: OFF

TNK TST SIPHON BREAK:OFF

DELIVERY DELAY : 1 MIN
PUMP THRESHOLD : 10.00%

SHELL MINI MART
29625 PACIFIC HWY S
FEDERAL WAY, WA
253-941-1611

JAN 11, 2011 13:37

CSLD TEST RESULTS

JAN 11, 2011 13:37

T 1:UNLEADED MASTER
T 2:UNLEADED SYPHON
PROBE SERIAL NUM 237276

0.2 GAL/HR TEST
PER: JAN 11, 2011 PASS

T 3:PREMIUM
PROBE SERIAL NUM 271530

0.2 GAL/HR TEST
PER: JAN 11, 2011 PASS

T 4:DIESEL
PROBE SERIAL NUM 243007

0.2 GAL/HR TEST
PER: JAN 11, 2011 PASS

* * * * * END * * * * *

```
T 2:UNLEADED SYPHON
PRODUCT CODE     :        2
THERMAL COEFF    :.000690
TANK DIAMETER    :   95.75
TANK PROFILE     :    1 PT
       FULL VOL  :    4010

FLOAT SIZE:        4.0 IN.

WATER WARNING    :     3.0
HIGH WATER LIMIT:      3.3

MAX OR LABEL VOL:    4010
OVERFILL LIMIT   :     90%
                 :    3609
HIGH PRODUCT     :     95%
                 :    3809
DELIVERY LIMIT   :     10%
                 :     401

LOW PRODUCT      :     167
LEAK ALARM LIMIT:       99
SUDDEN LOSS LIMIT:      99
TANK TILT        :    0.00
PROBE OFFSET     :    0.00

SIPHON MANIFOLDED TANKS
T#: 01
LINE MANIFOLDED TANKS
T#: NONE

LEAK MIN PERIODIC:      0%
                 :       0

LEAK MIN ANNUAL  :      0%
                 :       0

PERIODIC TEST TYPE
                    STANDARD

ANNUAL TEST FAIL
             ALARM DISABLED

PERIODIC TEST FAIL
             ALARM DISABLED

GROSS TEST FAIL
             ALARM DISABLED

ANN TEST AVERAGING:   OFF
PER TEST AVERAGING:   OFF

TANK TEST NOTIFY:     OFF

TNK TST SIPHON BREAK:OFF

DELIVERY DELAY   :  1 MIN
PUMP THRESHOLD   : 10.00%
```

T 3:PREMIUM
PRODUCT CODE : 3
THERMAL COEFF : .000690
TANK DIAMETER : 95.75
TANK PROFILE : 1 PT
FULL VOL : 10152

FLOAT SIZE: 4.0 IN.

WATER WARNING : 3.0
HIGH WATER LIMIT: 3.5

MAX OR LABEL VOL: 10152
OVERFILL LIMIT : 90%
: 9136
HIGH PRODUCT : 95%
: 9644
DELIVERY LIMIT : 10%
: 1015

LOW PRODUCT : 422
LEAK ALARM LIMIT: 99
SUDDEN LOSS LIMIT: 99
TANK TILT : 0.00
PROBE OFFSET : 0.00

SIPHON MANIFOLDED TANKS
T#: NONE
LINE MANIFOLDED TANKS
T#: NONE

LEAK MIN PERIODIC: 0%
: 0

LEAK MIN ANNUAL : 0%
: 0

PERIODIC TEST TYPE
STANDARD

ANNUAL TEST FAIL
ALARM DISABLED

PERIODIC TEST FAIL
ALARM DISABLED

GROSS TEST FAIL
ALARM DISABLED

ANN TEST AVERAGING: OFF
PER TEST AVERAGING: OFF

TANK TEST NOTIFY: OFF

TNK TST SIPHON BREAK:OFF

DELIVERY DELAY : 1 MIN
PUMP THRESHOLD : 10.00%

T 4:DIESEL

PRODUCT CODE	4
THERMAL COEFF	.000400
TANK DIAMETER	96.00
TANK PROFILE	1 PT
FULL VOL	8021

FLOAT SIZE: 4.0 IN.

WATER WARNING	2.8
HIGH WATER LIMIT	3.0
MAX OR LABEL VOL	8021
OVERFILL LIMIT	90%
	7218
HIGH PRODUCT	95%
	7620
DELIVERY LIMIT	10%
	802
LOW PRODUCT	334
LEAK ALARM LIMIT	99
SUDDEN LOSS LIMIT	99
TANK TILT	0.00
PROBE OFFSET	0.00

SIPHON MANIFOLDED TANKS
T#: NONE
LINE MANIFOLDED TANKS
T#: NONE

LEAK MIN PERIODIC	0%
	0
LEAK MIN, ANNUAL	0%
	0

PERIODIC TEST TYPE
STANDARD

ANNUAL TEST FAIL
ALARM DISABLED

PERIODIC TEST FAIL
ALARM DISABLED

GROSS TEST FAIL
ALARM DISABLED

ANN TEST AVERAGING	OFF
PER TEST AVERAGING	OFF

TANK TEST NOTIFY: OFF

TNK TST SIPHON BREAK: OFF

DELIVERY DELAY	1 MIN
PUMP THRESHOLD	10.00%

SHELL MINI MART
29625 PACIFIC HWY S
FEDERAL WAY, WA
253-941-1611

JAN 11, 2011 13:21

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

INVENTORY REPORT

T 1:UNLEADED MASTER
VOLUME = 4489 GALS
ULLAGE = 7543 GALS
90% ULLAGE= 6339 GALS
TC VOLUME = 4528 GALS
HEIGHT = 38.26 INCHES
WATER VOL = 20 GALS
WATER = 0.95 INCHES
TEMP = 47.3 DEG F

T 2:UNLEADED SYPHON
VOLUME = 1494 GALS
ULLAGE = 2516 GALS
90% ULLAGE= 2115 GALS
TC VOLUME = 1504 GALS
HEIGHT = 38.23 INCHES
WATER VOL = 3 GALS
WATER = 0.66 INCHES
TEMP = 49.9 DEG F

T 3:PREMIUM
VOLUME = 2653 GALS
ULLAGE = 7499 GALS
90% ULLAGE= 6483 GALS
TC VOLUME = 2674 GALS
HEIGHT = 29.46 INCHES
WATER VOL = 16 GALS
WATER = 0.95 INCHES
TEMP = 48.0 DEG F

T 4:DIESEL
VOLUME = 1474 GALS
ULLAGE = 6547 GALS
90% ULLAGE= 5744 GALS
TC VOLUME = 1478 GALS
HEIGHT = 22.97 INCHES
WATER VOL = 7 GALS
WATER = 0.64 INCHES
TEMP = 51.4 DEG F

MANIFOLDED TANKS
INVENTORY TOTALS
T 1:UNLEADED MASTER
T 2:UNLEADED SYPHON
VOLUME = 5983 GALS
TC VOLUME = 6032 GALS

* * * * * END * * * * *

UST # 8504

DEPARTMENT OF ECOLOGY
State of Washington

State of Washington Department of Ecology

UST Site Inspection

Inspection Date: 1/11/11 Time: 1215 Inspector(s): BCL
Inspection Type: *(circle)* UST Compl. Tech. Assist. Follow-up Other

Site Name: Shell Mini Mart	UST #: 8504
Address: 29625 Pacific Hwy S	Site Contact: Manjinder Singh
City: Federal Way WA 98003	Phone: (253) 638-7069

Tank #	Gallons	Fuel Type	Tank Model (i.e. STI-P3, Xerxes)	Compartment/Manifold
1	12K		F/G	Tank 1 3 2 ~~Manifold~~
2	4K			
3	10K	-		(Split)
4	8K			

Fuel Distributor: Sun Pacific	Distr. Phone:

Rai an Tiwana LLC

I. RECORDKEEPING REQUIREMENTS

A. General Documents:

	Compliant?		
1. TAG visible to distributor: (TAG # A3757) WAC 173-360-130(4)	(Y)	N	N/A
2. MBL compliant: (UBI# 602 527 602 (1)) (exp. date 8/31/11) WAC 173-360-130(2)(d)	(Y)	N	N/A
3. Fin. Resp. in compliance: *(circle) insur. co. self-insur. state/fed.* WAC 173-360 Part IV	Y	(N)	N/A
Tank Insurance Co. Colony Expiration Date 11/2/2011			

B. Tank and Line Corrosion Protection:

N - 47°20'09.9"
W - 122°18'45.0"
Acc - 400

Tank Material *(circle)* ***Steel*** ~~***Coated Steel***~~ ~~***FRP***~~ ***Steel Clad w/ Corr Resist***
Single-Wall ***Double-Wall***

Tank Corr. Prot. *(circle)* ***Galvanic*** ~~***Impr Curr***~~ ***Int. Lining*** ***Corr Resist***

Piping Material *(circle)* ***Steel*** ~~***FRP***~~ ~~***Flex***~~
Single-Wall ~~***Double-Wall***~~

Piping Corr. Prot. *(circle)* ***Galvanic*** ***Imp. Curr.*** ***Corr. Resist.***

Interior lining install date _____ Int. Lining inspection date _____

4. Interior lining meets 10 & 5 yr. inspection frequency: WAC 173-360-310(2)(a)(ii)	Y	N	N/A
5. Interior lining inspection has Pass or equivalent results: WAC 173-360-310(2)(a)(ii)	Y	N	N/A
Cath. Prot. Test date _____ for: *(circle) Steel Tank(s) Steel Line(s)*			
6. Cathodic Protection test frequency in compliance: WAC 173-360-320(2)(a)	Y	N	N/A
7. CP test has Passing or equivalent results: WAC 173-360-320(1)	Y	N	N/A
8. Records indicate tanks and piping are corrosion protected: WAC173-360-305/310	(Y)	N	N/A

C. Tank Inventory Control is conducted: *(circle)* ***Daily Weekly Monthly***

9. Inventory control is performed correctly: WAC 173-360-345(6)(a)/(b)/(c	Y	N	N/A
10. Tanks do not exceed 10 yr. limit for inventory control: WAC 173-360-345(2)	Y	N	N/A
Tank(s) met corrosion protection requirements (date) _____			
11. Tank tight. test frequency compliant: (last date _____) WAC 173-360-345(5)/(6)(a)(b)(c)	Y	N	N/A

D. Tank Monthly monitoring: *(circle)* ***ATG Vapor GW Interstitial SIR Other***

12. Rel. Det. Method is checked or conducts test monthly: WAC 173-360-335(2)(a)	Y	N	N/A
13. Equip. service checks per mnfctr's instruct.: (date _____) WAC 173-360-335(1)(b)	Y	N	N/A
14. SIR Vendor (_____) records and frequency compliant: WAC 173-345(6)(l)	Y	N	N/A

Comments: Insurance Lists 3 tanks - 4 tanks

Ecology is an Equal Opportunity Employer. If you require special accommodations or need this document in an alternate format, please contact the Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call (877) 833-6341.

DEPARTMENT OF ECOLOGY
State of Washington

UST Site Inspection (cont.) **UST #** 8504 **Insp. Date** 1/11/11

I. RECORDKEEPING REQUIREMENTS (cont.)

Compliant?

E. Piping Pumping System: *(circle)* ~~*Pressure*~~ *Suction(Tank)* *Suction(Pump)* *Other*

15. Pressure Lines have annual **ALLD** test: (date 1/27/10) WAC 173-360-350(3)(a)	(Y)	N	N/A
ALLD Type: *(circle)* *Manual* ~~*Electronic*~~			
16. Pressurized Lines use *(circle)* ~~*Annual Line TT*~~ *Elec. ALLD Line TT* ~~*Vapor*~~ *GW* *Interstitial* *SIR* *Other*			
17. Press. Lines annual line tight. test compliant: (date 1/27/10) WAC 173-360-350(3)(b)	(Y)	N	N/A
18. Press. Lines Elec. ALLD tight. test compliant: (date _____) WAC 173-360-350(3)(b)	Y	N	(N/A)
19. Pressure Lines VM, GWM, Interstitial, or SIR compliant: WAC 173-360-350(3)(c)	Y	N	(N/A)
20. Int. sump sensor service check per mnftr's instruct: (date _____) WAC 173-360-335(1)(b)	Y	N	(N/A)
21. Suction Line (tank valve) 3 yr. Tight. Test: (date _____) WAC 173-360-350(2)(b)	Y	N	(N/A)
22. Suction Line (tank valve) VM, GW, Intst. or SIR compliant: WAC 173-360-350(2)(b)	Y	N	(N/A)

II. EQUIPMENT CHECKS

A. Rectifier for Impressed Current System:

23. Imp. Curr. system operated and maintained continuously: WAC 173-360-320(1)	Y	N	(N/A)
24 Imp. Curr. system inspected every 60 days: WAC 173-360-320(3)	Y	N	(N/A)
25. Imp. Curr. Amp/Volt readings within specified range: WAC 173-360-320(3)	Y	N	(N/A)
Readings: Amp _____ Volt _____ Meter/Clock _____			
Rectifier Model _____ Install Date _____			

B. Monthly monitoring: *(circle)* ~~*ATG*~~ *Vapor* *GW* *Interstitial* *SIR* *Other* _____

Release Detection Model VR TLS 350			
26. Rel. Det. Equip. is **NOT** in alarm: WAC 173-360-335(1)(b)	(Y)	N	N/A
If no, why is it in alarm _____			
27. Rel. Det. equipment and/or alarms operational : WAC 173-360-335(1)(b)	(Y)	N	N/A
28 Rel. Det. equipment printer or modem operational: WAC 173-360-335(1)(b)	(Y)	N	N/A
29. Vapor or GW MWs placed around tanks and piping runs: WAC 173-360-335(1)(a)	Y	N	(N/A)

C. Lines:

30. Pressurized Lines ALLD is present: WAC 173-360-350(3)(a)	(Y)	N	N/A
31. Corr. Res. lines verified: *(circle)* ~~*at sump*~~ *at dispenser* *records* WAC 173-360-305(2)	(Y)	N	N/A
32. Interstitial Line sump sensors are placed correctly: WAC 173-360-335(1)(a)	Y	N	(N/A)
33. Turbine Sumps are free of liquid: WAC 173-360-335(1)(b)	Y	N	(N/A)

D. Spill/Overfill:

34. Spill Bucket does **NOT** have obvious cracks, holes. WAC 173-360-305(3)(a)(i)	(Y)	N	N/A
35. Overfill device used: *(circle)* *Auto-Shut.* *Alarm* *Ball-float* WAC 173-360-305(3)(a)(ii)	(Y)	N	N/A
36. Overfill auto. shut-off device is **NOT** tampered with: WAC 173-360-305(3)(a)(II)(A)	Y	N	(N/A)
37. Overfill alarm set at 90% and audible to delivery driver: WAC173-360-305(3)(a)(ii)(B)	(Y)	N	N/A
38. Overfill ball-float valve present: *(circle)* *visual* *records* WAC 173-360-305(3)(a)(ii)(B)	Y	N	(N/A)

Comments: 3 ALLD & 3 Line T.T., because tank 1 & 2 are Manifolded Split

Significant Operational Compliance with Overspill/Overfill/Corr. Prot.: (Y) N N/A
Significant Operational Compliance with Release Detection: (Y) N N/A

___ Photos Taken ✓ Tech. Assist. Materials Provided (See Handout)
___ Action Taken: *(circle)* *Notice of Noncompliance* *Field Citation#* _____

Inspector Signature _____ **Date** 1/11/11

I use this table to keep track of which ATG slips I have seen during the review. Obviously you can change the titles of the columns to whatever you need. The year column is particularly helpful when you have stacks of ATG slips in random order.

Year	Month	Tank #1	Tank #2	Tank #3	~~Line #1~~ Tank 4	Line #2	Line #3
10	1- January	P	P	P	P		
10	2- February	P	P	P	P		
10	3- March	P	P	P	P		
10	4- April	P	P	P	P		
10	5- May	P	P	P	P		
10	6- June	P	P	P	P		
10	7- July	P	P	P	P		
10	8- August	P	P	P	P		
10	9- September	P	P	P	P		
10	10- October	P	P	P	P		
10	11- November	P	P	P	P		
10	12- December	P	P	P	P		
P = Pass F = Fail M = Missing I = Inconclusive							

I use this table on my inspection form for every item on the form. I label the column titles with tank #'s and pipe #'s.

1	2	3	4	5	6

1. ST# 8504

Handouts

UST #: 8504 Date: 1/11/11

1. 1. UST Checklist	✓
2. NONC	
3. Field Citation	
4. UST WAC's	✓
5. Operating and Maintaining UST Systems	✓
6. UST Site Inspection Guidance Document	
7. List of Service Providers	✓
8. Addendum/Tanks not Registered	
9. Doing Inventory Control Right	
10. UST Site Check/Site Assessment Checklist	
11. UST Closure and Site Assessment Notice	
12. 30 Day Notice	
13. UST Guidance for Site Checks and Site Assessments	
14. Summary of Requirements for UST's	✓
15. Summary of Requirements for Temporarily Closed UST's	
16. **Focus Sheet:** ATG's	✓
17. **Focus Sheet:** What to do if you find a leak or spill	✓
18. **Focus Sheet:** Changes to the UST law	
19. **Focus Sheet:** Waste Oil Tanks	
20. **Focus Sheet:** Financial Responsibility	
21. Dollars and Sense: Financial Responsibility	
22. Manual Tank Gauging	
23. Fuel Tank Storage and Maintenance	

UST #8504

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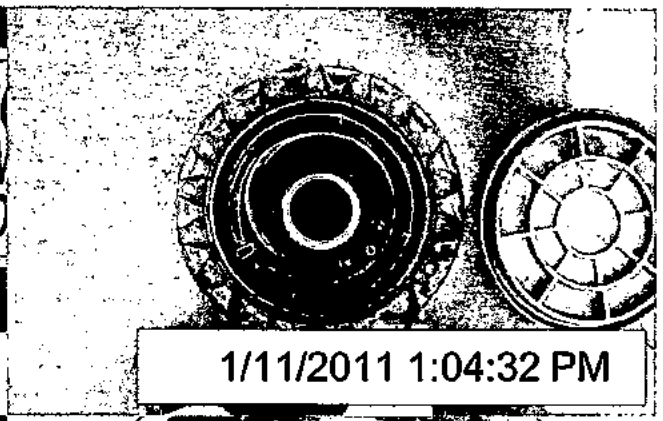

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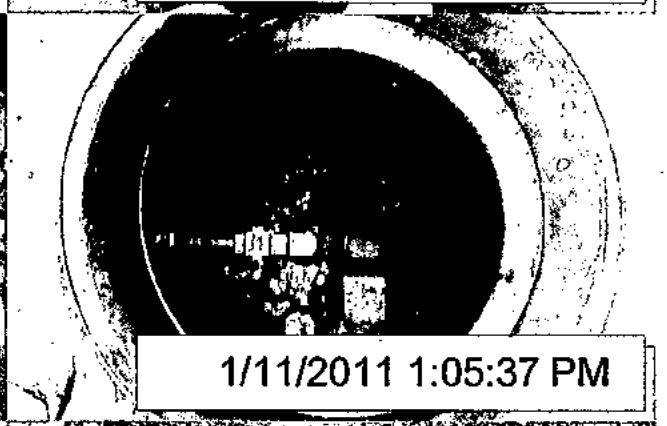

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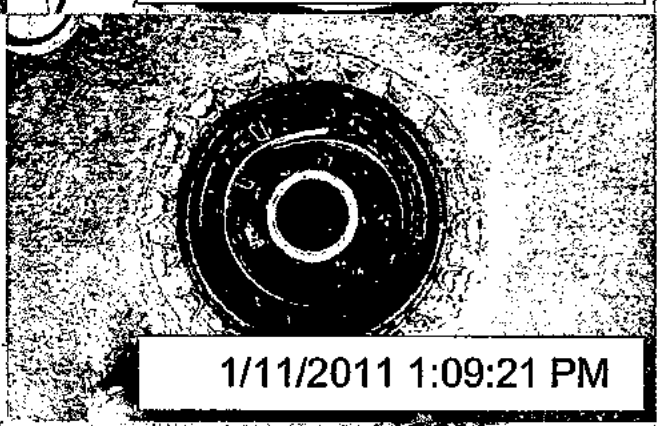

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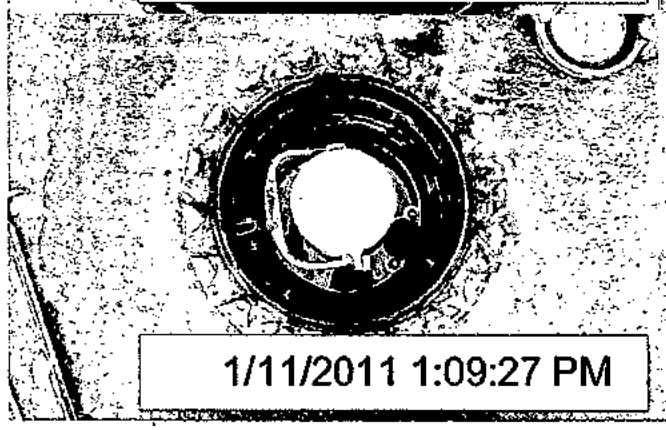

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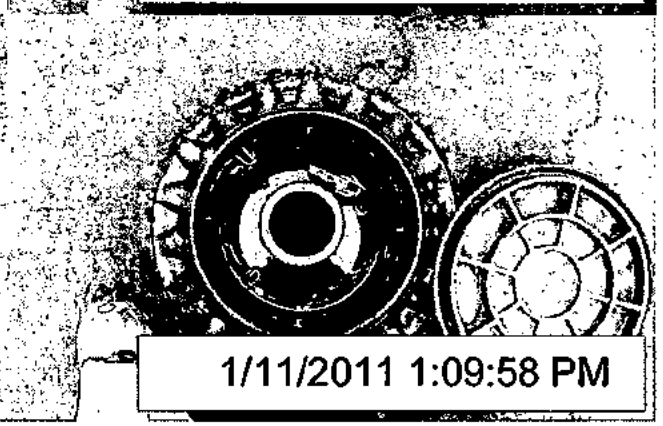

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UST #8504

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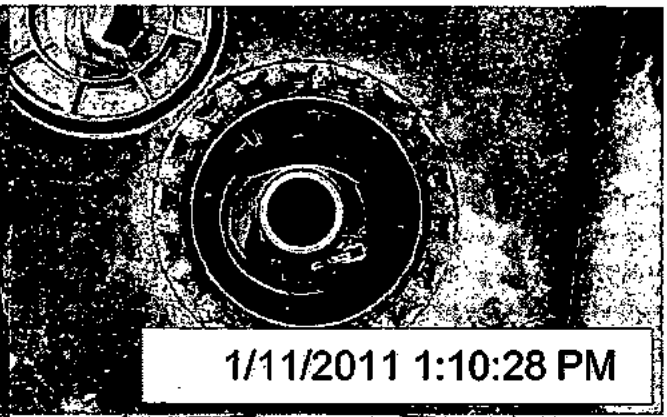
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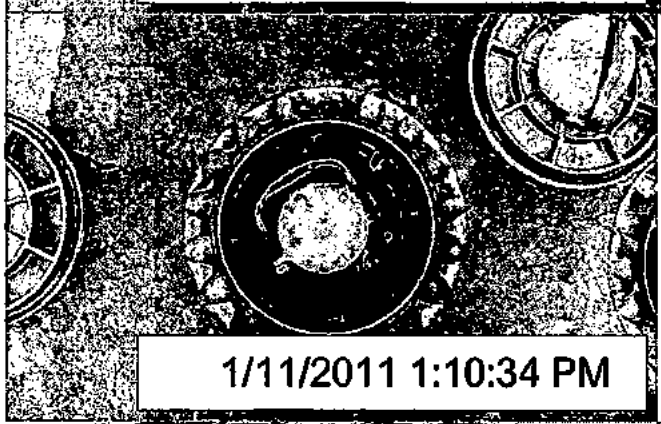
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UST #8504

MASTER LICENSE SERVICE
PO Box 9034 • Olympia, WA 98507-9034 • (360) 664-1400

STATE OF WASHINGTON

REGISTRATIONS AND LICENSES

Unified Business ID #: 602 527 602
Business ID #: 1
Location: 1
Expires: 08-31-2011

Domestic Limited Liability Company

RAI AND TIWANA LLC
SHELL MINI MART
29625 PACIFIC HWY S
FEDERAL WAY WA 98003

LOTTERY ON-LINE
TOBACCO PRODUCT RETAILER
TAX REGISTRATION
CIGARETTE RETAILER
GROCERY STORE BEER/WINE #078864
INDUSTRIAL INSURANCE
UNDERGROUND STORAGE TANKS (3): 5, 6, 7

SHOPKEEPER
LIQUID FUEL METER-LOW (24)
L P GAS METER-SMALL (1)
UNEMPLOYMENT INSURANCE

LICENSING RESTRICTIONS:
Not authorized to hire persons under age 18 at this location.

REGISTERED TRADE NAMES:
SHELL MINI MART

The licensee named above has been issued the business registrations or licenses listed. By accepting this document the licensee certifies the information provided on the application for these licenses was complete, true, and accurate to the best of his or her knowledge, and that business will be conducted in compliance with all applicable Washington state, county, and city regulations.

Elizabeth A. Luce
Director, Department of Licensing

ATE OF WASHINGTON
EXPIRATION DATE
02 1 1 08-31-2011
078864
NA LLC
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WA 98003
STORAGE TANKS (3)
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DUCT RETAILER
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ETAILER
E BEER/WINE #078864
NSURANCE
METER-LOW (24)
R-SMALL (1)
INSURANCE
URCHASE BEER/WINE AT
BEER/WINE
THE RETAIL
SE NAME APPEARS ON
(OR THE LICENSEE'S
R 21 YEARS OF AGE)
D TO PURCHASE BEER
M ANY LICENSED
FOR RESALE AT RETAIL
E WITH THE TERMS OF
LICENSE AS PROVIDED
.200, RCW 66.24.250,
0, AND
60 (4)
Elizabeth A. Luce
Director, Department of Licensing
S SECTION FOR YOUR WALLET

UST # 8504

CERTIFICATE OF INSURANCE
STATE OF WASHINGTON

NAME OF INSURER:	Colony Insurance Company 8720 Stony Point Parkway, Suite 300 Richmond, VA 23235 Tel. (800) 577-6614
NAME OF INSURED:	**RAI & TIWANA LLC**
	DBA: SHELL MINI MART
ADDRESS OF INSURED:	**29625 PACIFIC HWY S**
	FEDERAL WAY WA 98003
POLICY NUMBER:	**WA640057-5**
PERIOD OF COVERAGE:	**11/2/2010 TO 11/2/2011**

CERTIFICATION:

1. Colony Insurance Company, the "Insurer", as identified above, hereby certifies that it has issued liability insurance covering the following Underground Storage Tank(s):

   See Schedule of Facilities Endorsement (E038)

   For taking corrective action and compensating third parties for "bodily injury" and "property damage" caused by either sudden accidental releases or non-sudden accidental releases or accidental releases, in accordance with and subject to the limits of liability, exclusions, conditions, and other terms of the policy arising from operating the underground storage tank(s) identified above.

   The Limits of Liability are $1,000,000 Each Occurrence and $1,000,000 Annual Aggregate, exclusive of legal defense costs, which are subject to a separate limit under the policy. This coverage is provided under WA640057-5. The effective date of said policy is 11/2/2010.

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:

   A. Bankruptcy or insolvency of the insured shall not relieve the insurer of its obligations under the policy to which this certificate applies.

B. The insurer is liable for the payment of amounts within any deductible applicable to the policy to the provider of Corrective Action or a Damaged Third-party, with a right of reimbursement by the Insured for any such payment made by the insurer. This provision does not apply with respect to that

amount of any deductible for which coverage is demonstrated under another mechanism or combination of mechanisms as specified in WAC 173-360-413 through 173-360-433.

C. Whenever requested by the director of the Washington state department of ecology, the insurer agrees to furnish the director a signed duplicate original of the policy and all endorsements.

D. Cancellation or any other termination of the insurance by the insurer, except for non-payment of premium or misrepresentation by the insured, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the insured. Cancellation for non-payment of premium or misrepresentation by the insured will be effective only upon written notice and only after expiration of a minimum of 10 days after a copy of such written notice is received by the insured.

E. The insurance covers claims otherwise covered by the policy that are reported to the insurer within six months of the effective date of cancellation or non-renewal of the policy except where the new or renewed policy has the same retroactive date or a retroactive date earlier than that of the prior policy, and which arise out of any covered occurrence that commenced after the policy retroactive date, if applicable, and prior to such policy renewal or termination date. Claims reported during such extended reporting period are subject to the terms, conditions, limits, including limits of liability, and exclusions of the policy.

I hereby certify that the wording of this instrument is identical to the wording in WAC 173-360-480 and that the insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more states.

Michele Williams

Authorized Representative of Colony Insurance Company
Underwriter
P O Box 3867, Bellevue, WA 98009

COMMON POLICY DECLARATIONS
CLAIMS MADE

Colony Insurance Company
8720 Stony Point Parkway, Suite 300
Richmond, VA 23236

POLICY NUMBER
WA640057-5
RENEWAL OF:
WA640057-4

1. NAMED INSURED AND MAILING ADDRESS:

RAI & TIWANA LLC
DBA: SHELL MINI MART
29625 PACIFIC HWY S
FEDERAL WAY WA 98003

PRODUCER: 46003

Griffin Underwriting Services
P O Box 3867
Bellevue, WA 98009

2. POLICY PERIOD: From 11/2/2010 to 11/2/2011 12:01 A.M. Standard Time at your Mailing Address above.

IN RETURN FOR THE PAYMENT OF THE PREMIUM, AND SUBJECT TO ALL OF THE TERMS OF THIS POLICY, WE AGREE WITH YOU TO PROVIDE THE INSURANCE AS STATED IN THIS POLICY.

3. THIS POLICY CONSISTS OF THE FOLLOWING COVERAGE PARTS FOR WHICH A PREMIUM IS INDICATED. THIS PREMIUM MAY BE SUBJECT TO ADJUSTMENT.

COVERAGE PARTS		PREMIUM
STORAGE TANK POLLUTION LIABILITY COVERAGE PART		751
Storage Tank Repair or Replacement Cost Coverage		147
Premium charge for coverage of certified acts of terrorism (Per Policyholder Disclosure *TRIA Notice ENV* attached)		
Coverage for certified acts of terrorism has been rejected; exclusion attached (Per Policyholder Disclosure *TRIA Notice ENV* attached)	x	
Policy Fee		100
Issued October 28, 2010		

Premium shown is payable at inception. **Total Policy Premium:** 998

FORMS APPLICABLE TO ALL COVERAGES:

See Form U001 -- Schedule of Forms and Endorsements

4. BUSINESS DESCRIPTION:

Countersigned: October 28, 2010
Date

By: Michele Williams
Authorized representative

DCJ6560 ENV (12/00)

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UST # 8504

DEPARTMENT OF ECOLOGY
NORTHWEST REGIONAL OFFICE
FACSIMILE COVER SHEET

WASHINGTON STATE DEPARTMENT OF ECOLOGY

DATE: 11/30/10

Number of Pages: 3

TO: Mr. Ranjit Rai

FAX # (253) 941 0707

FROM: Cathie Richardson
Underground Storage Tank Case Developer
PHONE: (425) 649-7135
SECTION: Toxics Cleanup Program

Department of Ecology
Northwest Regional Office
3190 - 160th Avenue S.E.
Bellevue, WA 98008-5452
Phone: (425) 649-7149
Fax: (425) 649-7161
Email: Cathie.richardson@ecy.wa.gov

1/6/11
Reminder
fax
inspection
next week

Dear Mr. Rai:

This information is to help prepare you for an upcoming Underground Storage Tanks (UST) Inspection(s). I have included an information sheet titled "Preparing for an Underground Storage Tank Inspection" which gives an overview of the inspection and basic preparation for the inspection. See http://www.ecy.wa.gov/programs/tcp/ust-lust/UST overview.pdf for more information.

The inspection is scheduled for **Tuesday January 11th at 12:30 p.m. (+/- ½ hour)** - located at:

Shell Mini Mart
29625 Pacific Hwy S
Federal Way

The Department of Ecology will require verification of paperwork (e.g., Master Business License, Insurance, testing) and access into the turbine sump and dispensers, so please have those items available at the time of the inspection. Please contact me at 425-649-7135 or cari461@ecy.wa.gov if you have any questions regarding the upcoming inspection(s) or any of the enclosed information. Arthur Buchan is the Department of Ecology Inspector that will be performing your inspection; his phone number is 425-649-7149.

Sincerely,

Cathie Richardson
Underground Tanks Case Developer

Enclosure: Preparing for an Underground Storage Tank Inspection

Focus on Preparing for an UST Inspection

DEPARTMENT OF ECOLOGY
State of Washington

Toxics Cleanup Program — **March 2010**

The Department of Ecology is required to conduct an Underground Storage Tank (UST) Inspection at all registered tank sites to review records and equipment for compliance.

What paperwork will be reviewed on-site? The paperwork reviewed depends on what type of system you operate. Have the following records, if applicable, available for review:

- ❑ Master Business License w/ tank endorsements
- ❑ Facility Compliance Tag
- ❑ Tank Pollution Liability Insurance or proof of self-insurance
- ❑ Tank Release Detection - Monthly printout (or log):
  - ❑ Automatic Tank Gauge (ATG) 0.2 gph leak test passing results, or
  - ❑ Interstitial (or annular) sensor normal results, or
  - ❑ Statistical Inventory Reconciliation (SIR) results, or
  - ❑ Daily/weekly/monthly sticking records (rare)
- ❑ Annual testing of sensors and ATG
- ❑ Pressurized Piping Release Detection
  - ❑ Annual Test of Automatic Line Leak Detector (ALLD)
    And **one** of following choices
  - ❑ Annual line tightness test, or
  - ❑ Monthly printout (or log) of sump sensor normal results, or
  - ❑ Monthly printout of 0.2 gph passing Electronic ALLD, or
  - ❑ Monthly SIR results third party certified for lines
- ❑ Suction Piping with one check valve at **pump** (no release detection)
- ❑ Suction Piping with check valve at **tank** (choose one)
  - ❑ Every 3 years line tightness test, or
  - ❑ Monthly printout (or log) of sump sensor normal results, or
  - ❑ Monthly SIR results third party certified for lines
- ❑ Steel Tanks with Internal Lining Only (no cathodic protection): Internal Lining Inspection at 10 years and every 5 years thereafter
- ❑ Every 3 years Cathodic (Corrosion) Protection test
  - ❑ Steel Tanks
  - ❑ Steel Lines
  - ❑ Turbine steel flex connectors in soil
  - ❑ Under dispenser steel flex connectors in soil
- ❑ Every 60-day log of Volt/Amp readings for Impressed Current Systems

What equipment needs to be opened? Depending on your type of system, you will need to open the following equipment:

- ❑ Large Metal Manway above Turbines
- ❑ Dispenser Panels
- ❑ Fills and Spill Buckets
- ❑ Overfill Equipment
  - ❑ Automatic Shut-Off Valve, or
  - ❑ Ball-Float Device (opened w/ tool), or
  - ❑ Exterior Alarm

Should I hire my service provider to open the equipment? Some owners hire their tank service provider to be present during the inspection to open all the necessary equipment. Some owners find it difficult to open the large metal manways above the turbines. Appropriate tools must be used to safely open and lift the heavy manways. Ecology inspectors will not open the equipment. Be sure you have the keys to open the dispenser panels and fill ports.

How many years of records will be checked? The regulation requires owners to keep release detection records for 5 years. Please have at least 12 months of records available for a detailed review on-site. The inspector will let you know if additional years of records will be checked.

How often will each site be inspected? At least once during a three-year cycle each site will be inspected.

How long is the inspection? On average one to two hours. They will be scheduled at least one week prior. The inspection needs your complete attention, so have someone else working as cashier.

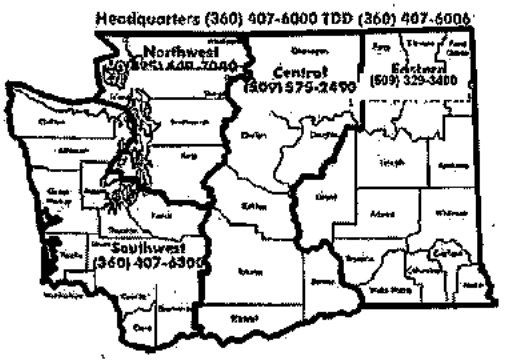
What if violations are found? The inspector may issue a Notice of Non-Compliance, which outlines actions you need to take with deadlines to achieve compliance. Significant violations may result in a Field Penalty being issued on-site. If compliance is not achieved or there are severe violations, Ecology may pursue formal enforcement action.

What if my tank is temporarily closed? Corrosion protection must be operational and testing conducted, if applicable, during temporary closure. If your tank has less than an inch of product, no release detection is necessary, but you will need to stick the tank during the inspection to verify. If your tank has product in it, you need to be conducting release detection. All other records will be reviewed and equipment checked.

How does the inspection benefit me? Failure to properly operate and maintain your UST system equipment may result in a significant loss in your property investment and contaminate the environment. Correct operation and maintenance help ensure that leaks are detected early or even prevented, protecting your investment and potentially saving you thousands of dollars in cleanup costs.

Further questions? Please contact your regional office below and ask for a tank inspector to assist you.

Central Region	(509) 575-2490
Eastern Region	(509) 329-3400
Northwest Region	(425) 649-7000
Southwest Region	(360) 407-6300



For more information on inspections of USTs follow this link: http://www.ecy.wa.gov/programs/tcp/ust-lust/UST_overview.pdf

Special accommodations: To ask about the availability of this document in a version for the visually impaired, call the Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss, call 711 for Washington Relay Service. Persons with a speech disability, call 877-833-6341.

* * * Immediate TX Result Report (Nov. 30. 2010 2:42PM) * * *

1)
2)

Date	Time	Destination	Mode	TXtime	Page	Result	User Name	File No.
Nov. 30.	2:41PM	12539410707	G3TES)	0'59"	P. 3	OK		3325

# : Batch	C : Confidential	$: Transfer	P : SEP Code
M : Memory	L : Send later	@ : Forwarding	E : ECM
S : Standard	D : Detail	F : Fine	U : Super Fine
) : Reduction	H : Stored/D. Server	* : LAN-Fax	+ : Delivery
Q : RX Notice Req.	A : RX Notice	<@> : Mail	<+> : IP-FAX
□ : Folder			

* * * Immediate TX Result Report (Jan. 6. 2011 8:21AM) * * *

1)
2)

Date	Time	Destination	Mode	TXtime	Page	Result	User Name	File No.
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# : Batch	C : Confidential	$: Transfer	P : SEP Code
M : Memory	L : Send later	@ : Forwarding	E : ECM
S : Standard	D : Detail	F : Fine	U : Super Fine
) : Reduction	H : Stored/D. Server	* : LAN-Fax	+ : Delivery
Q : RX Notice Req.	A : RX Notice	<@> : Mail	<-> : IP-FAX
□ : Folder			

RECEIVED
FEB 11 2010
Dept Of Ecology
Toxics Cleanup Program

RECEIVED
FEB 22 2010
DEPT. OF ECOLOGY
TCP NWRO

NWRO King
8504
FS 798135564

Underground Storage Tank Tightness Testing Checklist

The attached Underground Storage Tank (UST) checklist is required for activity listed above. This checklist certifies that the Tightness Testing activities are performed and conducted in accordance with Chapter 173.360 WAC.

See back of form for instructions.

1. UST SYSTEM LOCATION AND OWNER

UBI Number: 602 527 602 (UBI # from Master Business License) Site ID Number: (Available from Ecology if tank is Registered)

Site/Business Name: Shell Mini Mart

Site Address: 29625 Pacific Hwy S.
Street
Federal Way WA 98003 County
City State Zip+4 (required)

Telephone: 253-941-1611

UST Owner/Operator: Manjinder Singh

Mailing Address: 29625 Pacific Hwy S.
Street P.O. Box
Federal WAY WA 98003
City State Zip+4 (required)

Telephone: Fax 253-941-0707

2. FIRM PERFORMING WORK

Service Company: SME Solutions

Service Co. Address: 2302 A Street
Street
Tacoma WA 98402
City State Zip+4 (required)

Certified Supervisor: James Eada

Address: 2302 A Street
Street P.O. Box
Tacoma WA 98402
City State Zip+4 (required)

ICBO Certification Number: 5310048-UA3 Certification Issue Date (Month/Year): Feb '08

Telephone: 253-572-3822

Ecology is an equal opportunity employer.
For special accommodation needs, please contact the Underground Storage Tanks Section at (360) 407-7170, 1-(800) 833-6388 or 711 (TTY)

ECY 070-89 (03/03) *White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)*

2/18/10

8504

Site ID # Shell Mini Mart
Site Address
City Federal Way

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID # (tank name registered with Ecology)	N/A	N/A	N/A	N/A
2. Date installed				
3. Tank capacity in gallons				
4. Last substance stored				
5. Number of tank compartments				
6. Tank type: (S) single wall; (D) double wall; (P) partitioned				
7. Is overfill device present? (Yes/No)				
8. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)				
9. The test method used can detect a leak of how many GPH?				
10. The numerical tank test results are? (In gallons per hour)				
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are? (Pass/Fail)*				

IV. Line Information

	Line 1	Line 2	Line 3	Line 4
1. Piping type: (S) single wall; (D) double wall	D	D	D	N/A
2. Pump type: (T) turbine; (S) suction	T	T	T	
3. (a) If turbine, is line leak detector present? (Yes/No)	Yes	Yes	Yes	
(1) If present, was lead seal intact? (Yes/No N/A)	N/A	N/A	N/A	
(2) Line leak detector results? (Pass/Fail)	Pass	Pass	Pass	
(b) If suction, check valve located at? (T) tank (P) pump	N/A	N/A	N/A	
4. The numerical line test results are? (In gallons per hour)	3 gph	3 gph	3 gph	
5. Line tightness test results? (Pass/Fail)*	Pass	Pass	Pass	

* Inconclusive test results for tanks or piping will not be considered as a valid tightness test for the purposes of complying with UST release detection regulations.

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

Date	Signature of Certified Supervisor	Printed Name
1-27-10	[signature]	James Rada
01-27-10	[signature]	MANJINDER SINGH

Date — Signature of Tank Owner/Authorized Representative — Printed Name

Site ID # Shell Mini Mart
Site Address
City Fed Way

Underground Storage Tank

Tightness Testing Checklist

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD

Date of Test: 1/27/10

1. Tightness testing method(s) used (indicate if more than one method was used):
   Test method name/version LDT 890
   Test method manufacturer VMI

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be; 1) filled with product to the 95% full level or 2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): N/A

3. Method used for release detection:
   - ☐ Weekly manual gauging
   - ☐ Daily manual inventory control
   - ☒ Automatic tank gauging (ATG)
   - ☐ Interstitial monitoring
   - ☐ Other (describe)

4. Reason for conducting tightness test:
   - ☒ Required for release detection requirement
   - ☐ Bring temporarily closed tanks back into service
   - ☐ Tank or piping repair
   - ☐ Other (describe)

5. Type of test conducted:
   - ☐ Tank tightness test only
   - ☐ Line tightness test only
   - ☐ Total system test (tank and lines tested together)
   - ☒ Test Leak Detectors

6. Test method type:
   - ☐ Overfill volumetric
   - ☐ Underfill volumetric
   - ☐ Nonvolumetric
   - ☒ Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form.

	Yes	No	NA*
1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g., detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm of no more than 5%).	☒	☐	☐
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and conducted?	☒	☐	☐
3. Was the product level in the tank during the test within the limitations of the test methods performance standards?	☒	☐	☐
4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)	☐	☐	☒
5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours to UST staff at the appropriate Ecology regional office.)	☐	☐	☒

* Item not applicable

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

ECY 070-69 (03/03)

10/19/06
Final (jg)

EPA REGION 10
UNDERGROUND STORAGE TANK INSPECTION FORM A

owner ID 4554

Significant Compliance: RD (Y / N) \ Upgrade (Y / N)

Facility# 8504 Passed Inspection Y (N)

Inspection Date 10-22-08 Time 1:00 pm GPS reading N47° 20' 10.3 W122° 18' 46.0

Lead Inspector Jim Greers Others

Facility Reps Ranjit *

(* Credentials Presented)

Visual Documentation of Inspection: ☐ 35mm pictures ☐ Video ☒ Digital ☐ Other

Facility Drainage (FD) questionnaire: ☐ Completed ☐ Not Completed ☒ Not Applicable

Enforcement Actions Taken Onsite: FNNC # FC #WA00190 For $ 150

Verbal Warning for 40 CFR 280. SBA Info Sheet Given? (Y) N

Enforcement Action Delayed for (Reason):

Facility Information

Location Name: Shell Mini Mart

Owner: Operator:

Address (Loc/Owner/Op): 29625 Pacific Hwy S

City: Federal Way State: WA Zip: 98003 Phone 253-941-1611

Address (Loc / Owner /Op):

City: State: Zip: Phone:

Tank #	1 5	2 6	3 7	4	5	6
☐ MEETS FINANCIAL RESPONSIBILITY REQUIREMENTS						
☐ All (tanks covered) or (check which tanks are covered)			#4 #3			
Type: ☐ Ins ☐ Self ☐ PSTF ☐ Ltr Credit ☐ Stdby Trust ☐ LG Bond Rating Test ☐ LG Fin Test ☐ Other						
Issuing Entity: Dates Coverage: In EPA Format? Y N						

TANK STATUS

Manifolded (M) or Compartmented (C) Tank?	M	MC	C			
Status (circle): (CIU) TOU POU ☐ All or						
Date installed: 1995 ☐ All or						
Tank cap (gal): ☐ All or	10K	4K	8K	10K		
Substance in Tank: ☐ All or	UNL	UNL	DSL	SVC		
Tank Material: BS CPS (COM) FRP DW ExL Lin ☐ All or						
Verified Tank by: (Visual) Invoice Warranty Picture ☐ All or						
Emergency Generator Tank(s)? ☒ NA ☐ All or						
Piping Material: GS CPS (FRP) FlexP (DW) SecC ☒ All or						
Verified Pipe by: (Visual) Invoice Warranty Picture ☒ All or						
Piping Type: Grav (Pres) SafeS U.S.S ☐ All or	Pres	NO TRB	Pres	Pres		
Date last used: ☐ All or						
Closure Status: Removed In-Place Chg-in-Svc ☐ All or						

SITE SKETCH

Tank #	1	2	3	4	5	6

RELEASE DETECTION-TANKS

☒ *Primary Release Detection Method Present for all tanks & meets specific performance standards as in 280.43 ?* ☐ NA						
☐ Manual Tank Gauging (MTG) ☐ Primary Method ☐ All or						
☐ Tank Tightness Testing (TTT) ☐ Primary Method ☐ All or						
Last TTT date? _____ Passed? Y N						
☐ Inventory Control (IC) ☐ Primary Method ☐ All or						
☐ Vapor Monitoring (VM) ☐ Primary Method ☐ All or						
Site Assessment? Y N ☐ All or						
☐ Ground Water Mon. (GWM) ☐ Primary Method ☐ All or						
Site Assessment? (ie: 3'<gw<20') Y N ☐ All or						
☒ Automatic Tank Gauge (ATG) ☒ Primary Method ☒ All or	✓	✓	✓	✓		
☐ Interstitial Monitoring (IM) ☐ Primary Method ☐ All or						
☐ SIR ☐ Primary Method ☐ All or						
☐ Deferred (Emergency Generators ONLY) ☐ All or						
☐ *TOU Systems Comply with Release Detection?* ☐ NA						

RELEASE DETECTION-PIPING (RD)

☐ *Primary RD method(s) present for ALL piping &meets specific performance standards as stated in280.44?* ☐ NA						
☒ ALLD(s) Pressurized Systems Only- Required ☐ All or Date test: 1-23-08 ☐ ELLD or ☒ MLLD	VM	~~ELLD~~	FX	VM		
☐ LTT(s) Date test_____ ☐ Primary Method ☐ All or						
Monthly Monitoring Method : ☐ Primary Method ☐ All or VM GWM IM SIR Sump Sensor Other_____		Sumps clean + Dry				
☐ Deferred (Emergency Generators ONLY) ☐ All or						

RELEASE DETECTION COMPLIANCE/RECORDS

☐ *Release Detection System - Operating Properly?* ☐ NA						
☒ *Release Detection System Meets Performance Standards of SOC Matrix "Worksheet"?* ☐ NA						
☐ In Compliance with EPA 3rd Party Evaluation? ☐ NA ☐ If Required (5 year Record Limit), Has 3rd Party? ☐ NA						
☐ *Are there monthly monitoring records for Tanks/Piping for 2 most Recent Months and 8 of the last 12 months* (or LTT where required) ☐ NA						
Monthly monitoring records Reviewed = 12 months, of last 12: Tanks (months) PASSED: 12 FAILED:____ INVALID:____ Piping (months) PASSED:____ FAILED:____ INVALID:____						
☐ *ALL Non-Passing Results Resolved?* ☒ NA						
☐ *If not resolved, was the implementing agency notified of a suspected release?* Y ☐ N ☐ No release suspected ☒ ☐ NA						
☐ *Hazardous Substance USTs-Secondarily Contained?* ☒ NA						

ATG/IM/SIR Equipment Manufacturer/Vendor Veeder Root Model: TLS 350 CSLD

(Optional) ALLD Equipment Manufacturer:_____ Model:_____

TANK #	1	2		4	5	6

RELEASE PREVENTION

☒ *CP Met on ALL Tank(s) and Piping, including metal flex connectors, swing joints, etc. (see Release Prevention Measures Matrix, IV. "Tank and Piping Corrosion Protection" checklist)*						
☐ *Any repairs to CP (including Lining) tanks or piping and have they been Tightness Tested within 30 days (not required if internal inspection or monthly monitoring completed)?* ☒ NA						

TANK LINING

☐ *Tank Lining Inspected and In Compliance?* ☒ NA						
Date of Lining: _____ Date of PASSING Internal Inspection: _____ ☐ All or						

CATHODIC PROTECTION

☐ Cathodic Protection: ☐ Tanks ☐ Piping ☐ All or						
☐ Impressed Current System ☐ All or Installation Date: _____ Set at _____ amps						
☐ *Last 3 (60 Day) rectifier Inspection Records?* ☐ NA						
System On? Y N Observed amperage of _____ amps						
☐ Sacrificial Anode System ☐ All or						
☐ Date of Last Test: _____ Passed ☐ All or Covers: ☐ Tanks/Piping ☐ Tanks ☐ Piping						
☐ Date of Previous Test: _____ Passed ☒ All or Covers: ☐ Tanks/Piping ☐ Tanks ☐ Piping						
☐ *CP Performing Adequately- Based on Testing Results -* ☐ NA						
☐ *Any Repairs are being Conducted or Completed?* ☐ NA						
☐ *6 mo. CP test After Installation or Repair COMPLETED?* ☐ NA						

SPILL & OVERFILL PREVENTION

☒ *Spill Prevention Devices Present and Functional?* ☐ NA						
☒ *Overfill Prevention Devices Present and Operational for Each Tank?* (specify, below) ☐ NA						
☒ Ball Float Valve Operational ☒ All or	per service provider					
☐ Flow Restrictor (Auto Shut off) Operational ☐ All or						
☐ Automatic Alarm (for Delivery Driver) Operational ☐ All or						
☐ Spill / Overfill NOT Req'd (transfer ≤ 25 gallons) ☐ All or						

Inspector's Signature Jim Greeves **Date:** 10-22-08

Notes:

Monitor Cert 1-23-08

Can't do month/y interstitial monitoring until rubber boots are loosen or removed from DW pipe under each of the dispensor sumps.
Issued FC for not having annual line tightness testing
Sump sensors are only located in the STP Sumps.
Owner know how to print "Liquid Status" Report.

Year	Month	Tank #1	Tank #2	Tank #3	Tank #4	Tank #5	Tank #6
	1- January						
	2- February						
	3- March						
	4- April						
	5- May						
	6- June						
	7- July						
	8- August						
	9- September						
	10- October						
	11- November						
	12- December						
P = Pass F = Fail							

Notes:

UNITED _ ATES ENVIRONMENTAL PROTEC N AGENCY
SEATTLE, WASHINGTON

EXPEDITED ENFORCEMENT
COMPLIANCE ORDER AND SETTLEMENT AGREEMENT FOR WASHINGTON STATE

PART I: COMPLIANCE ORDER

Compliance Order No. **WA-00190**
On 10-22-2008 (date of violation) Time 1:45 pm (a.m. of p.m.)
At Shell Mini Mart (Name of facility)
29625 Pacific Hwy S (Address of facility)
Federal Way WA 98003 (Address of facility)
Name of Owner, Operator or On-site Representative (circle one) Ranjit
Owner Address _____

State ID Number WA 8504

An authorized representative of the United States Environmental Protection Agency(EPA) inspected this facility to determine compliance with underground storage tank regulations promulgated under Subtitle I of the Resource Conservation and Recovery Act of 1976 (42 U.S.C. S6912 et seq.) During this inspection, the following violations of underground storage tank regulations were found, with corresponding penalty amounts. Because the State program has received federal approval, violations are cited in terms of the State regulations.

1. WAC 173-360 350(3)(b) Penalty $ 150
   Nature of Violation Failure to provide annual line tightness testing for underground piping
2. WAC 173-360 _____ Penalty $ _____
   Nature of Violation _____
3. WAC 173-360 _____ Penalty $ _____
   Nature of Violation _____
4. WAC 173-360 _____ Penalty $ _____
   Nature of Violation _____

The owner or operator of the above facility is hereby ordered to correct the violations and pay the penalties described above.

This Compliance Order is not an ajudicatory proceeding under 40 CFR Part 22, the Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation or Suspension of Permits, but is issued solely with reference to Settlement Agreement in Part II of this form. If the Settlement Agreement in Part II is not returned in correct form by the owner or operator within 30 days of the date of the signature below by the Authorized Representative of EPA, this Compliance Order is hereby withdrawn, without prejudice to EPA's ability to file additional enforcement actions for the above or any other violations.

I have personally observed the above violations and find the owner or operator in violation of the above-referenced underground storage tank regulations.

Jim Sheeva Date: 10-22-08
(Signature of Authorized Representative of EPA)

I hereby acknowledge receipt of this Compliance Order and Settlement Agreement.

_____ Date: _____
(Signature of Owner, Operator or On-site Representative)

PART II: SETTLEMENT AGREEMENT

The United States Environmental Protection Agency (EPA) offers this Settlement Agreement under its expedited enforcement procedures in order to settle the violations found in the Compliance Order in Part I of this form subject to the following terms and conditions:

The Owner or Operator signing below certifies, under civil and criminal penalties for making a false submission to the United States Government, that Owner or Operator has corrected the violation(s) and enclosed a certified check for $_____ in payment of the full penalty amount, as described in the Compliance Order.

Upon EPA final approval of this Settlement Agreement, EPA will take no further action against the Owner or Operator for the violations described in the Compliance Order. EPA does not waive any enforcement action by EPA, the state where the facility is located or any local agencies for any other past, present or future violations under any other statute not described in the Compliance Order.

Also, upon EPA final approval of this Settlement Agreement, the Owner or Operator waives the opportunity for a public hearing pursuant to Section 9006 of the Resource Conservation and Recovery Act.

This Settlement Agreement is binding on the EPA and the Owner or Operator signing below.

The Owner or Operator signing below waives any objections to EPA's jurisdiction with respect to the Compliance Order and this Settlement Agreement, and consents to EPA's final approval of this Settlement Agreement without further notice.

This Settlement Agreement is effective upon EPA's final approval below. Upon final approval, EPA shall mail a copy of the approved Settlement Agreement to the Owner or Operator signing below.

Final approval of the Settlement Agreement is in the sole discretion of the Regional Administrator, Region 10, EPA, or authorized delegate.

SIGNATURE BY OWNER OR OPERATOR:

Name (print) _____

Title (print) _____

Signature _____ Date: _____

FINAL APPROVAL BY EPA:

Name (print) _____

Title (print) _____

Signature _____ Date: _____

1) Conduct and provide a copy of line tightness test results

green copy - owner; pink copy - finance; yellow copy - inspector

ADDENDUM TO EXPEDITED L... ORCEMENT COMPLIANCE ORDER AND SETTLEMENT AGREEMENT

This form is an attachment to Compliance Order No. WA 00170

Date:	Name of Facility:	State ID or Facility License/Permit Number
10-22-08	Shell Mini Mart	WA 8504

The numbers below correspond to the numbered violations on the Expedited Enforcement Compliance Order and Settlement Agreement.

The following items are needed to show proof of compliance. Submit them to EPA within 30 days.

1	Conduct annual line tightness testing OR monthly monitoring by printing each month the "Liquid Status" Report,
2	However to each of the piping boots in the dispenser sumps must be lossened to allow liquid to transmitt back to the turbine sumps, before for you can use interstital monthly monitoring
3	
4	
5	

I have personally communicated the above requirements to the Owner or Operator in regard to the above-referenced underground storage tank facility.

Jim Reeves — (Inspector Signature)

10-22-08 — Date

I hereby acknowledge receipt of this addendum. I understand EPA must see documentation within 30 days.

(Signature of Owner, Operator or On-site representative) — Date

*U.S. GPO: 2004-590-737/60098

REC VED

FEB 20 2009

nwro-reng
UST 8504
FS# 79813564

DEPT OF ECOLOGY
Toxics Cleanup Program

Underground Storage Tank Tightness Testing Checklist

WASHINGTON STATE DEPARTMENT OF ECOLOGY

The attached Underground Storage Tank (UST) checklist is required for activity listed above. This checklist certifies that the Tightness Testing activities are performed and conducted in accordance with Chapter 173.360 WAC.

See back of form for instructions.

1. UST SYSTEM LOCATION AND OWNER

UBI Number: 602-527-602 (UBI # from Master Business License) Site ID Number: A3797 (Available from Ecology if tank is Registered)

Site/Business Name: Shell

Site Address: 29625 Pac Hwy S.
Street
Federal Way WA 98003
City State Zip+4 (required)

Telephone:

UST Owner/Operator: SHELL MINI MART

Mailing Address: 29625 Pacific Hwy So.
Street P.O. Box
Federalway WA 98003
City State Zip+4 (required)

Telephone: 253-941-1611

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MAR 26 2009
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TCP-NWRO

2. FIRM PERFORMING WORK

Service Company: Sue Solutions

Service Co. Address: 2302 "A" ST
Street
Tacoma, WA 98402
City State Zip+4 (required)

Certified Supervisor: Sue

Address: 2302 "A" ST
Street
Tacoma, WA P.O. Box 98402
City State Zip+4 (required)

ICBO Certification Number: 527598-UB Certification Issue Date (Month/Year): 01/08

Telephone: 2535723822

Ecology is an equal opportunity employer.
For special accommodation needs, please contact the Underground Storage Tanks Section at (360) 407-7170.
1-(800) 833-6388 or 711 (TTY)

ECY 070-69 (03/03) ***White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)***

entered AD 3.23.09

8504

Checklist Instructions

After completing these checklist(s), return to:

Underground Storage Tank Section
Department of Ecology
P.O. Box 47655
Olympia, WA 98504-7655

Please Read Carefully

Checklist(s) are to be completed by a Certified UST Supervisor and submitted to Ecology within 30 days of the tank work being performed.

On each checklist, complete the Site ID number and/or the UBI number, site address and site city on each page. Submit the cover sheet that contains the site and owner information with the checklist. The checklist should show all tank information that was worked on. Be sure that the Owner or the Authorized Representative **AND** Certified Supervisor sign the appropriate checklist.

The Owner/Operator is responsible for ensuring that the work is performed and that the checklist(s) are submitted to Ecology.

Cover Sheet

Site and Owner Information
Fill in the site and owner information. Include the Ecology Site ID number, if known, and/or UBI number (Uniform Business Identification) from the master business license. Also be sure to provide telephone numbers so that any problems can be resolved quickly.

Firm and Certified Supervisor Information
List the firm performing the work as well as the Certified Supervisor's name and Certification Number. Ask to see the Supervisor's Tightness Testing ICBO Certification and make sure that the Supervisor signs the appropriate checklist for work performed.

Please Note: Individuals performing services MUST be certified by the International Code of Building Officials (ICBO), or other recognized association by which they demonstrate appropriate knowledge pertaining to USTs or have passed another qualifying exam approved by the Department.

Checklists

The **Tightness Testing Checklist** shall be completed and signed by a Certified Tightness Testing Supervisor. The supervisor shall be on site during all tank tightness testing activities. Up to four tanks per site may be reported on a single checklist; additional tanks will require additional checklists. A Tightness Testing Checklist must be completed for each UST system (tank and associated piping) being tested as well as following most retrofit/repairs.

The tank owner or operator* must *report* a failed tightness test as *a suspected release* to UST staff *at the appropriate Ecology regional office within 24 hours.

Northwest	Southwest	Central	Eastern
(206) 649-7000	(360) 407-6300	(509) 574-2490	(509) 329-3400

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

Underground Storage Tank

Tightness Testing Checklist

Site ID # A3797
Site Address 29625 PAC Hwy
City FEDERAL WAY

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD **Date of Test:** 1/27/09

1. Tightness testing method(s) used (indicate if more than one method was used):
   Test method name/version CDT-890
   Test method manufacturer PETRO TITE

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be; 1) filled with product to the 95% full level or 2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): N/A

3. Method used for release detection:
   - ☐ Weekly manual gauging
   - ☐ Daily manual inventory control
   - ☒ Automatic tank gauging (ATG)
   - ☐ Interstitial monitoring
   - ☐ Other (describe) _____

4. Reason for conducting tightness test:
   - ☒ Required for release detection requirement
   - ☐ Bring temporarily closed tanks back into service
   - ☐ Tank or piping repair
   - ☐ Other (describe) _____

5. Type of test conducted:
   - ☐ Tank tightness test only
   - ☐ Line tightness test only
   - ☐ Total system test (tank and lines tested together)
   - ☒ LEAK DETECTORS

6. Test method type:
   - ☐ Overfill volumetric
   - ☐ Underfill volumetric
   - ☐ Nonvolumetric
   - ☒ Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form.

	Yes	No	NA*
1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g., detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm of no more than 5%).	☐	☐	☐
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and conducted?	☐	☐	☐
3. Was the product level in the tank during the test within the limitations of the test methods performance standards?	☐	☐	☐
4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)	☐	☐	☐
5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours to UST staff at the appropriate Ecology regional office.)	☐	☐	☐

** Item not applicable*

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

Site ID # A 3797

Site Address 29625 PAC HWY S

City FEDERAL WAY

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID # (tank name registered with Ecology)	N/A	N/A	N/A	N/A
2. Date installed				
3. Tank capacity in gallons				
4. Last substance stored				
5. Number of tank compartments				
6. Tank type: (S) single wall; (D) double wall; (P) partitioned				
7. Is overfill device present? (Yes/No)				
8. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)				
9. The test method used can detect a leak of how many GPH?				
10. The numerical tank test results are? (in gallons per hour)				
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are? (Pass/Fail)*	P	P	P	P

IV. Line Information

UNL. PRE D N/A

	Line 1	Line 2	Line 3	Line 4
1. Piping type: (S) single wall; (D) double wall	D	D	D	
2. Pump type: (T) turbine; (S) suction	T	T	T	
3. (a) If turbine, is line leak detector present? (Yes/No)	YES	YES	YES	
(1) If present, was lead seal intact? (Yes/No N/A)	N/A	N/A	N/A	
(2) Line leak detector results? (Pass/Fail)	PASS	PASS	PASS	
(b) If suction, check valve located at? (T) tank (P) pump	N/A	N/A	N/A	
4. The numerical line test results are? (in gallons per hour)				
5. Line tightness test results? (Pass/Fail)*	P	P	P	P

* Inconclusive test results for tanks or piping will not be considered as a valid tightness test for the purposes of complying with UST release detection regulations.

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

Date	Signature of Certified Supervisor	Printed Name
1/27/09		
02/17/09	Manjinder Singh	MANJINDER SINGH

Date	Signature of Tank Owner/Authorized Representative	Printed Name

Washington Oregon Gasoline Vapor Control Committee

This form will be accepted by any State or Local Air Pollution Agency requiring compliance testing on gas station vapor recovery equipment within the states of Washington or Oregon

For Agency Use Only
Reviewed by: _____
Date: _____
☐ Passed ☐ Failed
(Attach reasons for test failure to this form)

Pressure Decay Test CARB Test Procedure TP-201.3 or Procedure in CARB Executive Order for Stage 2 Equipment

Station Name: Shell 29625
Air Agency Registration No.:
Address: 29625 Pacific Hwy S.
City, State, Zip: Federal Way WA 98003

Testing Company Name: SME Solutions
Date/Time of Test: 1/27/09
Address: 2302 A Street
Phone No.: 253-572-3822
City, State, Zip: Tacoma WA 98402

Type of Stage 1: ☐ Coaxial ☒ Dual Point
Type of Stage 2 system: ☐ Balance ☐ Tokheim ☐ Wayne ☐ OPW ☒ Gilbarco ☐ Healy ☐ Other: _____
Tanks Manifolded? Yes ☒ No ☐ **Total Nozzles:** 24 **Tested with vapor cap:** ON ☐ or OFF ☒

	Tank #1	Tank #2	Tank #3	Tank #4	Total if Manifolded
Number of Nozzles:	Unl Reg Master	Unl Syphon	Premium		
Capacity:	12,000	4,000	10,000		26,000
Gasoline Volume:	4,132	1,377	2,102		7,611
Ullage:	7,868	2,623	7,898		18,389
Percent Ullage:	% 65	% 65	% 78	%	% 70

Minimum total ullage for each tank must be 1,000 gallons or 25% of tank capacity

Maximum total ullage from manifolded (all) tanks must not exceed 25,000 gallons

Date Test Equipment Calibrated: 12/08

Test Results

	If Manifolded	Non-Manifolded Tank #1	Tank #2	Tank #3	Tank #4
Initial Pressure	2.0" H2O	2.0" H2O	2.0" H2O	2.0" H2O	2.0" H2O
Pressure after 1 minute	" H2O 2.0	" H2O	" H2O	" H2O	" H2O
Pressure after 2 minutes	" H2O 1.99	" H2O	" H2O	" H2O	" H2O
Pressure after 3 minutes	" H2O 1.98	" H2O	" H2O	" H2O	" H2O
Pressure after 4 minutes	" H2O 1.97	" H2O	" H2O	" H2O	" H2O
Pressure after 5 minutes	" H2O 1.96	" H2O	" H2O	" H2O	" H2O

Allowable pressure from table (TP-201.3 or Applicable CARB Exec Exhibit #): _____
Allowable pressure calculated (Formulas on back): $2.718^{xy}\left(593.912 \pm \sqrt{18,389}\right) = .96^2 = 1.93$

Person conducting the test:
Rocky Lyon — *Print Name*
Rocky Lyon — *Signature*
1/27/09 — *Date*

Tank owner or authorized representative:
MANJINDER SINGH — *Print Name*
Manjinder Singh — *Signature*
02/17/09 — *Date*

Site Name and Address:	TriTester	Test Firm Name and Address
Shell 29625 29625 Pacific Hwy S. Federal Way, WA 98003	CARB TP 201.5 Air to Liquid Test RESULTS REPORTING FORM	SME Solutions 2302 A ST Tacoma WA 98402 Phone: 253-572-3822 Testing Technician: Brian Fite Applicable CARB EO #

Meter Leak Tests

Bulb must not inflate in less than 30 seconds.

Pre-Test Leak Check Result	Pass	Fail
Post-test Leak Check Result	Pass	Fail

Disp #	Gas Grade	Nozzle	GPM	A/L	Pass Fail	Comment
1	unl	IIVAI27	9.26	1.01	Pass	
1	pls	IIVAI27	7.98	1.04	Pass	
1	pre	IIVAI27	8.93	1.07	Pass	
2	unl	IIVAI27	10.00	1.10	Pass	
2	pls	IIVAI27	7.89	1.05	Pass	
2	pre	IIVAI27	10.00	1.11	Pass	
3	unl	IIVAI27	8.72	1.12	Pass	
3	pls	IIVAI27	7.89	1.07	Pass	
3	pre	IIVAI27	7.89	1.00	Pass	
4	unl	Catlow	8.93	1.08	Pass	
4	pls	Catlow	7.89	1.03	Pass	
4	pre	Catlow	8.72	1.09	Pass	
5	unl	IIVAI27	9.26	1.04	Pass	
5	pls	IIVAI27	7.65	1.02	Pass	
5	pre	IIVAI27	9.26	1.08	Pass	
6	unl	IIVAI27	9.14	1.09	Pass	
6	pls	IIVAI27	7.43	1.02	Pass	
6	pre	IIVAI27	8.93	1.01	Pass	

Disp #	Gas Grade	Nozzle	GPM	A/L	Pass Fail	Comment
7	unl	IIVAI27	9.14	1.15	Pass	
7	pls	IIVAI27	8.33	1.06	Pass	
7	pre	IIVAI27	9.37	1.01	Pass	
8	unl	IIVAI27	9.37	1.02	Pass	
8	pls	IIVAI27	8.43	1.04	Pass	
8	pre	IIVAI27	9.04	1.09	Pass	
9	unl					
9	pls					
9	pre					
10	unl					
10	pls					
10	pre					
11	unl					
11	pls					
11	pre					
12	unl					
12	pls					
12	pre					

Washington Oreg Gasoline Vapor Cont Committee

This form will be accepted by any State or Local Air Pollution Agency requiring compliance testing on gas station vapor recovery equipment within the states of Washington or Oregon

For Agency Use Only
Reviewed by: _____
Date: _____
☐ Passed ☐ Failed
(Attach reasons for test failure to this form)

Back Pressure Tests (wet/Dry) CARB Test Procedure TP-201.4

Station Name: Shell 29625
Air Agency Registration No.:
Address: 29625 Pacific Hwy S.
City,State,Zip: Federal WAY WA 98003

Testing Company Name: SME Solutions
Date/Time of Test: 1/27/09
Address: 2302 A Street
Phone No.: 253-572-3822
City,State,Zip: Tacoma WA 98402

Allowed back pressure for: Test @ Nozzle: 0.16 40 CFH 0.35 60 CFH 0.62 80 CFH
Test at Stage 2 riser: 60 CFH 0.02 inches water or requirement in Executive Order

From: ☐ CARB Executive Order#: _____ *or* ☒ CARB Test Procedure TP-201.4

Nitrogen introduced at : ☒ Riser ☐ Nozzle
Did Test procedure include fuel dispensing? ☒ YES ☐ NO

Vapor Valve located: ☐ In Nozzle ☒ External
Date Test Equipment Calibarated: 12/08

All underground vapor lines must be tested. Test must be conducted wet.

	Riser/ Pump Number	Gas Grade	Test Time (Min:Sec)	Back Pressure in WC at a flow rate of: 40 CFH	60 CFH	80 CFH
Wet:	7-8	ALL	Close	"H20	.02 "H20	"H20
				"H20	"H20	"H20
				"H20	"H20	"H20
				"H20	"H20	"H20
				"H20	"H20	"H20
				"H20	"H20	"H20

Person conducting test: Brian Lee — Print Name; Signature; 1/27/09 — Date

Tank owner or authorized representative: MANJINDER SINGH — Print Name; Manjinder Singh — Signature; 02/17/09 — Date

Washing Oregon Gasoline Vapor Control C ittee

This form will be accepted by any State or Local Air Pollution Agency requiring compliance testing on gas station vapor recovery equipment within the states of Washington or Oregon

For Agency Use Only

Reviewed by: _____

Date: _____

☐ Passed ☐ Failed

(Attach reasons for test failure to this form)

Determination of Vapor Piping Connections (Tie-Tank Test) TP-201.3C

Station Name: 29625 Shell

Air Agency Registration No.:

Address: 29625 Pacific Hwy S.

City, State, Zip: Federal Way WA 98003

Testing Company Name: SME Solutions

Date/Time of Test: 1/27/09

Address: 2302 A Street

Phone No.: 253-572-3822

City, State, Zip: Tacoma WA 98402

The Tie-tank test is a pass fail test used to determine if all gasoline storage tanks are manifolded together. Diesel tank must not be manifold with the gasoline tanks. All tanks that service a stage 2 system must be manifold in order for the vapor recovery system to operate properly.

Option 1:

1) Remove dust cap from one stage 1 vapor adaptor. Introduce nitrogen at a stage 2 riser at the rate of 100 SCFH (bootless nozzles = 60 SCFH).

2) Briefly open the dry breaks on each tank (one at a time)

3) Is pressure relieved on each tank about the same **YES** **NO**

Option 2

1) Pressurize a tank to 2.10"WC and test the pressure in each tank using a pressure gauge on each vapor riser adaptor.

2) Is pressure readings from each tank about the same **YES** **NO**

Option 3

1) After conducting a pressure decay test, while the tanks are still pressurized.

2) Briefly open the dry breaks on each tank (one at a time)

3) Is pressure relieved from each tank about the same **YES** **NO**

If the answer is yes, using the above options, then the tanks have passed the tie-tank test. PASSED FAILED

Comments:

Rocky Lyon — *Print Name* — *Signature* — 1/27/09 — *Date*

owner or authorized representative:

MANJINDER SINGH — *Print Name* — Manjinder Singh — *Signature* — 02/17/09 — *Date*

Gas Station Audit

Required by Regulation II Section 2.07

Station: Shell 29625	Registration Number:
Address: 29625 Pacific Hwy S.	Owner:
City: Federal Way WA	Phone: 253-941-1011
Zip 98003	Annual Gasoline _____ Gallons Throughput (January-December)

Person Conducting the Audit:

Name:	Brian Fitt
Company:	SME Solutions
Address:	2302 A Street
City/Zip:	Tacoma WA 98402
Phone:	253-572-3822

Date and Time of the Audit:

Date:	1/27/09
Time:	

Compliance testing

* 1) Is all vapor recovery equipment CARB Certified? (Yes/No)	List all Non-CARB vapor recovery equipment found in comment section at end of report	CARB Executive Order Numbers: Stage 1 Stage 2
2) Was Compliance testing conducted as a part of the audit?		(Yes)/No
3) Dates of last 2 years of passing compliance tests	Date:	Date: 07
* 4) Has the station passed all compliance tests over the last 2 years?		Yes/No

~~Circle tests conducted for this year:~~

Pressure decay	Tie Tank Test	Back Pressure	Air to Liquid Ratio
~~Other (please list)~~			

List any defective equipment found during this year's current tests:

Auditor must inspect all stage 1 and 2 equipment

Form #70-149-1 10-7-04 LCV

Training:

Training Method circle one

5) PS Clean Air Agency Video	Yes	No

If no to question #5, did the owners training include items 6-12?

6) The location, function and operation of vapor recovery equipment?	Yes/No
7) Why vapor recovery equipment must be inspected and maintained?	Yes/No
8) How to inspect vapor recovery equipment?	Yes/No
9) How to recognize a defect?	Yes/No
10) Appropriate corrective actions when defects are discovered?	Yes/No
11) How to keep the necessary records?	Yes/No
12) The penalties for noncompliance?	Yes/No
13) Does the station owner have logs of employee training?	Yes/No

Who received training over the last 12 months?

Employee Name	Date of Hire	Date of Training
SEE Log Book		

Onsite Self Inspection Records:

14) Does the employees use the clipboard supplied by the Agency	Yes/No	15) **If not, does the facilities inspection list cover the same equipment and frequency as PS Clean Air Agency's clipboard?**	Yes/No

16) Are stage 1 inspection records on site?	Yes/No	
17) Are there daily stage 2 records on site?	Yes/No	
* 18) Were all stage 1 and 2 inspections over the last 12 months on site?	Stage 1 Yes/No	Stage 2 Yes/No
19) Were Defects noted and promptly repaired?	Yes/No	
20) Is the station using agency provided inspection forms?	Yes/No	

If the answer is no, do the inspection forms contain the following:

21) Date of inspection?	Yes/No
22) Name of person conducting the inspection?	Yes/No
23) Description of the defects found during the inspection?	Yes/No
24) Date and time of repair of the defects?	Yes/No

Comment Section: If questions 1, 4 or 18 are answered with a No, please explain below:

I certify that all information submitted for this audit is true, accurate and complete to the best of my knowledge based on information supplied by the gas station owner/operator.

Auditors Signature	**Date** 1/27/09

I receive a copy of the gas station audit conducted by the above contractor.

Manjinder Singh **Station Owner/Manger Signature**	02/17/09 **Date**

Monitoring System Equipment Certification

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST system within 30 days of test date.

A. General Information

Facility Name: **Shell 29625** Bldg. No.:

Site Address: **29625 Pacific Hwy. S. @ S Dash Point Rd.** City: **Federal Way, WA** Zip: **98003-**

Facility Contact Person: Contact Phone No.: **(253) 941-1611**

Make/Model of Monitoring System: VR TLS350 Date of Testing/Servicing: **1/27/09**

B. Inventory of Equipment Tested/Certified

Check the appropriate boxes to indicate specific equipment inspected/serviced:

Tank ID: Unlead Master
- [X] In - Tank Gauging Probe. Model: Mag 7
- [ ] Annular Space or Vault Sensor. Model:
- [ ] Piping Sump \ Trench Sensor (s). Model:
- [ ] Fill Sump Sensor (s). Model: VR 352
- [ ] Mechanical Line Leak Detector. Model: LD 2200
- [ ] Electronic Line Leak Detector. Model:
- [ ] Tank Overfill \ High-Level Sensor. Model: UTV
- [ ] Other (specify equipment type and model in Section E on Page 2).

Tank ID: Unlead Syphon
- [X] In - Tank Gauging Probe. Model: Mag 7
- [ ] Annular Space or Vault Sensor. Model:
- [ ] Piping Sump \ Trench Sensor (s). Model:
- [ ] Fill Sump Sensor (s). Model:
- [ ] Mechanical Line Leak Detector. Model:
- [ ] Electronic Line Leak Detector. Model:
- [ ] Tank Overfill \ High-Level Sensor. Model: UTV
- [ ] Other (specify equipment type and model in Section E on Page 2).

Tank ID: Premium
- [X] In - Tank Gauging Probe. Model: Mag 7
- [ ] Annular Space or Vault Sensor. Model:
- [ ] Piping Sump \ Trench Sensor (s). Model:
- [X] Fill Sump Sensor (s). Model: VR 352
- [X] Mechanical Line Leak Detector. Model: LD 2200
- [ ] Electronic Line Leak Detector. Model:
- [ ] Tank Overfill \ High-Level Sensor. Model: UTV
- [ ] Other (specify equipment type and model in Section E on Page 2).

Tank ID: Diesel
- [X] In - Tank Gauging Probe. Model: Mag 7
- [ ] Annular Space or Vault Sensor. Model:
- [ ] Piping Sump \ Trench Sensor (s). Model:
- [X] Fill Sump Sensor (s). Model: VR 352
- [X] Mechanical Line Leak Detector. Model: FX-ID
- [ ] Electronic Line Leak Detector. Model:
- [ ] Tank Overfill \ High-Level Sensor. Model: UTV
- [ ] Other (specify equipment type and model in Section E on Page 2).

Dispenser ID: 1-8
- [ ] Dispenser Containment Sensor (s). Model:
- [X] Shear Valve (s).
- [ ] Dispenser Containment Float (s) and Chain (s).

Dispenser ID:
- [ ] Dispenser Containment Sensor (s). Model:
- [ ] Shear Valve (s).
- [ ] Dispenser Containment Float (s) and Chain (s).

Dispenser ID:
- [ ] Dispenser Containment Sensor (s). Model:
- [ ] Shear Valve (s).
- [ ] Dispenser Containment Float (s) and Chain (s).

Dispenser ID:
- [ ] Dispenser Containment Sensor (s). Model:
- [ ] Shear Valve (s).
- [ ] Dispenser Containment Float (s) and Chain (s).

Dispenser ID:
- [ ] Dispenser Containment Sensor (s). Model:
- [ ] Shear Valve (s).
- [ ] Dispenser Containment Float (s) and Chain (s).

Dispenser ID:
- [ ] Dispenser Containment Sensor (s). Model:
- [ ] Shear Valve (s).
- [ ] Dispenser Containment Float (s) and Chain (s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility

C. Certification

I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturer's guidelines. Attached to this Certification is information (e.g. manufactures' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the; *(check all that apply):* [X] System set-up [ ] Alarm history report

Technician Name (print): **Brian Fite** Signature:

Mfg. Cert.#.: 885176 ICC# 5275958-03 License. No.:

Testing Company Name: **SME** Solutions Phone No.: **(253) 572-3822**

Testing Company Address: **2302 A St., Tacoma WA 98402** Date of Testing/Servicing: **1/27/09**

Site Address: 29625 Pacific Hwy. S. @ S Dash Point Rd. Date of Testing/Servicing: 1/27/09

D. Results of Testing / Servicing

Software Version Installed: Version 127.02

Complete the following checklist:

☒ Yes	☐ No*	Is the audible alarm operational?
☒ Yes	☐ No*	Is the visual alarm operational?
☒ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☒ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☒ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? ☐ Yes ☐ No
☐ Yes	☒ No* ☒ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90 %
☐ Yes*	☐ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☐ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☐ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? *(Attach set-up reports, if applicable.)*
☐ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments: VR001 SET AT 90% OVERFILL LIMIT.

Site Address: 29625 Pacific Hwy. S. @ S Dash Point Rd. Date of Testing/Servicing: 1/27/09

F. In - Tank Gauging / SIR Equipment:

☐ Check this box if tank gauging is used only for inventory control.
☐ Check this box if no tank gauging or SIR equipment is installed.

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☐ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☐ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☐ Yes	☐ No*	Was accuracy of system product level readings tested?
☐ Yes	☐ No*	Was accuracy of system water level readings tested?
☐ Yes	☐ No*	Were all probes reinstalled properly?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD):

☐ Check this box if LLD's are not installed.

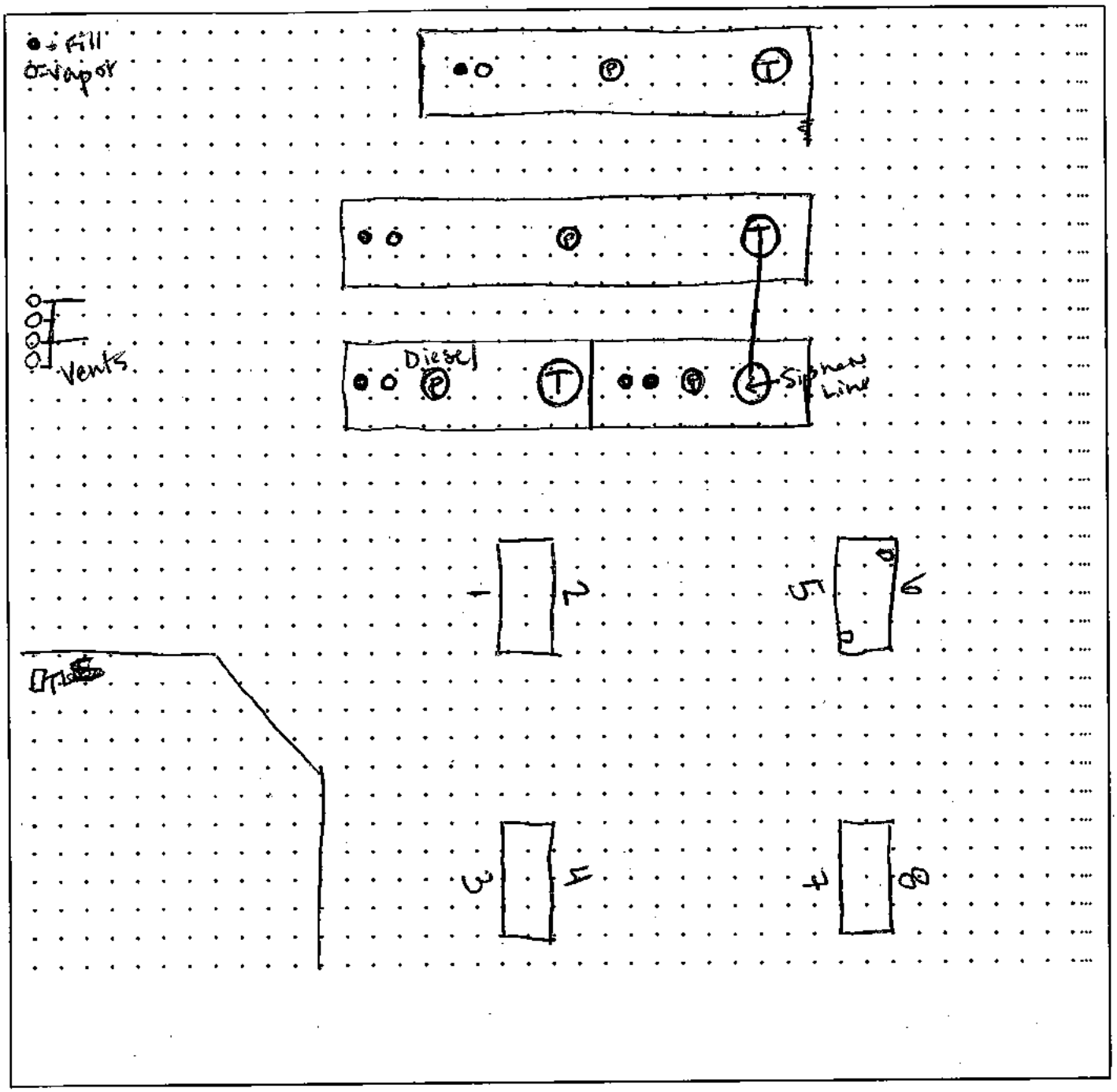
Complete the following checklist:

☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak reate: ☐ 3 g.p.h. (1.); ☐ 0.1 g.p.h. (2.); ☐ 0.2 g.p.h. (2.). Notes: 1. Required for equipment start-up certification and annual certification. 2. Unless mandated by local agency, certification required only for electronic LLD start-up.
☐ Yes	☐ No*	Were all LLD's confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLD's, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLD's, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLD's, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLD's, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLD's, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

H. Comments:

Monitoring System Certification
UST Monitoring Site Plan
29625 Pacific Hwy. S. @ S Dash Point Rd. in...
1/26/09



Date map was drawn: 1/27/09

Instructions

On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

Mechanical Leak Detector Test Data Sheet

Station # 29625 Date 1/27 2009

Address 29625 Pacific Hwy S.
Federal Way WA 98003

Test Information

	1	2	3	4	5
Product	UNLEADED	PREMIUM	DIESEL		
Manufacturer	VMI	VMI	REDJACKET		
Model	LD2200	LD2200	FX1D		
Full Operating Pressure (PSI)	26	26	30		
Line Bleed Back (ml)	25	35	40		
Trip Time (sec)	2	2	2		
Metering Pressure (PSI)	17	17	5		
F/E Holding Pressure (PSI)	18	14	12		
Test Leak Rate (ml/min)(gph)	3GPH	3GPH	3GPH		
PASS or FAIL	PASS	PASS	PASS		

Comments:

This letter certifies that the annual leak detector tests were performed at the above referenced facility according to the equipment manufacturers procedures and limitations and the results as listed are to my knowledge true and correct. The mechanical leak detector test pass/fail is determined using a low flow threshold trip rate of 3 gph at 10 PSI.

Inspected By: Contractor SME SOLUTIONS

Technician Brian Fite 5275958-U3

Signature

NWRO - King

UST # 8504

RECEIVED
FEB 08 2008
ECOLOGY

FS RECEIVED 2481356 4
FEB 15 2008
DEPT. OF ECOLOGY
TCP-NWRO

Underground Storage Tank

Check those activities which apply: ☒ Tightness Testing Checklist ☐ Retrofit/Repair checklist ☐ Cathodic Protection Checklist

The attached Underground Storage Tank (UST) checklists are required for each of the listed activities. The checklists certify that Tightness Testing, Retrofit/Repair and/or Cathodic Protection activities are performed and conducted in accordance with Chapter 173.360 WAC. **Complete this form and the corresponding UST checklist for each activity checked above.**

See back of form for instructions.

1. UST SYSTEM LOCATION AND OWNER

UBI Number: 6021637530010001 (UBI # from Master Business License)
Site ID Number: A3797 (Available from Ecology if tank is registered)

Site/Business Name: Shell Mini Mart

Site Address: 29625 Pacific Hwy S (Street)
County
Federal Way (City) Washington (State) 98006-0000 (Zip+4 required)

Telephone: 253-941-1611

UST Owner/Operator: Shell Mini Mart

Mailing Address: 29625 Pacific Hwy S (Street)
P.O. Box
Federal Way (City) WA (State) 98006-0000 (Zip+4 required)

Telephone: 253-941-1611

2. FIRM PERFORMING WORK

Service Company: Northwest Tank & Environmental Services, Inc.

Service Co. Address: 17407 59th Ave SE (Street) Snohomish (County)
Snohomish (City) Washington (State) 98926 (Zip+4 required)

Certified Supervisor: Scott Pike

Address: 17407 59th Ave SE (Street)
P.O. Box
Snohomish (City) Washington (State) 98926 (Zip+4 required)

IFCI Certification Number: PIKE0005-U3
Certification issue Date (Month/Year): 2/7/2006

Telephone: (425) 742-9622

Ecology is an equal opportunity and affirmative action employer
For special accommodation needs, please contact the Underground Storage Tanks Section at (360) 407-7170.

8504

Underground Storage Tank

Tightness Testing Checklist

Site ID # A3797
Site Address 29625 Pacific Hwy S
City Federal Way

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD **Date of Test:** 1/23/2008

1 Tightness testing method(s) used (indicate if more than one method was used):
Test method name/version/Manfacturer: N/A
LDT-890

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be; 1) filled with product to the 95% full level or 2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): N/A

3. Method used for release detection:

ATG

4. Reason for conducting tightness test:

Required release detection method

5. Type of test conducted:

Leak Detectors only

6. Test method type:

Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form.

	Yes/No/NA	Initials
1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g., detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm of no	Yes	
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and	Yes	
3. Was the product level in the tank during the test within the limitations of the test methods performance standards?	N/A	
4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)	N/A	
5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours to UST staff at the appropriate Ecology	N/A	

* Item not applicable

Site ID # A3797
Site Address 29625 Pacific Hwy S
City Federal Way

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	1	2	3	4		
1. Tank ID# (tank name registered with Ecology)						
2. Date installed	Unk	Unk	Unk	Unk		
3. Tank capacity in gallons	12000	4000	10000	8000		
4. Last substance stored	Regular	Regular	Premium	Diesel		
5. Number of tank compartments	1	2	1	2		
6. Tank type: (S) single wall; (D) double wall; (P) partitioned	DW	DW	DW	DW		
7. Is overfill device present? (Yes/No)	Ball Float	Ball Float	Ball Float	Ball Float		
8. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)	N/A	N/A	N/A	N/A		
9. The test method used can detect a leak of how many GPH?	.05	.05	.05	.05		
10. The numerical tank test results are? (In gallons per hour)	N/A	N/A	N/A	N/A		
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are?	Not Tested	Not Tested	Not Tested	Not Tested		

IV. Line Information

	Regular	Premium	Diesel			
1. Piping type: (S) single wall; (D) double wall	Double	Double	Double			
2. Pump type: (T) turbine; (S) suction	Pressure	Pressure	Pressure			
3. (a) If turbine, is leak detector present (Yes/No)	Yes	Yes	Yes			
(1) If present, was lead seal intact? (Yes/No N/A)	No	No	No			
(2) Line leak detector results? (Pass/Fail)	Pass	Pass	Pass			
(b) If suction, check valve located at? (T) tank (P) pump	N/A	N/A	N/A			
4. The numerical line test results are? (gallons per hour)	N/A	N/A	N/A			
5. Line tightness test results? (Pass/Fail)	Not Tested	Not Tested	Not Tested			

* Inconclusive test results for tanks or piping will not be considered as valid tightness test for the purposes of complying with UST release detection regulations.

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

1/23/2008		Scott Pike
Date	Signature of Certified Supervisor	Printed Name
02-07-2008	Manjinder Singh	MANJINDER SINGH
Date	Signature of Tank Owner/Authorized Representative	Printed Name

NWRO - Enf
8504

Underground Storage Tank

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ECOLOGY

FS# 79813564

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Check those activities which apply: ☒ Tightness Testing Checklist
☐ Retrofit/Repair checklist
☐ Cathodic Protection Checklist

The attached Underground Storage Tank (UST) checklists are required for each of the listed activities. The checklists certify that Tightness Testing, Retrofit/Repair and/or Cathodic Protection activities are performed and conducted in accordance with Chapter 173.360 WAC. **Complete this form and the corresponding UST checklist for each activity checked above.**

See back of form for instructions.

1. UST SYSTEM LOCATION AND OWNER

UBI Number: 602 527 602 (UBI # from Master Business License) Site ID Number: 0 (Available from Ecology if tank is registered)

Site/Business Name: Shell Mini Mart

Site Address: 29625 Pacific Hwy S (Street) Peirce (County)
Federal Way (City) Washington (State) 98006 (Zip+4 required)

Telephone: 253-941-1611

UST Owner/Operator: Shell Mini Mart

RECEIVED
FEB 26 2007
DEPT OF ECOLOGY

Mailing Address: 29625 Pacific Hwy S (Street) (P.O. Box)
Federal Way (City) WA (State) 98006 (Zip+4 required)

Telephone: 253-941-1611

2. FIRM PERFORMING WORK

Service Company: Northwest Tank & Environmental Services, Inc.

Service Co. Address: 17407 59th Ave SE (Street) Snohomish (County)
Snohomish (City) Washington (State) 98926 (Zip+4 required)

Certified Supervisor: Josh Raymond

Address: 17407 59th Ave SE (Street) (P.O. Box)
Snohomish (City) Washington (State) 98926 (Zip+4 required)

IFCI Certification Number: 4141028880-U3 Certification issue Date (Month/Year): 9/9/2006

Telephone: (425) 742-9622

Ecology is an equal opportunity and affirmative action employer
For special accommodation needs, please contact the Underground Storage Tanks Section at (360) 407-7170.

8504

Checklist Instructions

After completing these checklist(s), return to: **Underground Storage Tank Section**
Department of Ecology
P.O. Box 47655
Olympia, WA 98504-7655

Please Read Carefully

Checklist(s) are to be completed by a Certified UST Supervisor and submitted to Ecology within 30 days of the tank work being performed. The Owner/Operator is responsible for ensuring that the work is performed and that the checklist(s) are submitted to Ecology. Mark the appropriate box(es) for Tank Tightness Testing, Retrofitting/Repair, and/or Cathodic Protection. Complete the appropriate checklist for the UST Activity performed. On each checklist, complete the Site ID number and/or the UBI number, site address and site city on each page (if copied on a single side). Submit the coversheet that contains the site and owner information with the checklist. The checklist should show all tank information that was worked on. For more than four UST systems, please photocopy the checklist prior to completing. Be sure that the Owner or the Authorized Representative **AND** Certified Supervisor sign the appropriate checklist.

Cover Sheet

Site and Owner Information

Fill in the site and owner information. Include the Ecology Site ID number, if known, and/or UBI number (Uniform Business Identification) from the master business license. Also be sure to provide telephone number so that any problems can be resolved quickly.

Firm and Certified Supervisor Information

List the firm performing the work as well as the Certified Supervisor's name and Certification Number. Ask to see the Supervisor's Tightness Testing, Retrofitting/Repair and/or Cathodic Protection IFCI Certification and make sure that the Supervisor signs the appropriate checklist for work performed.

Please Note Individuals performing services MUST be certified by the International Fire Code Institute (IFCI), or other recognized association by which they demonstrate appropriate knowledge pertaining to UST's or have passed another qualifying exam approved by the

Checklists

The Tightness Testing Checklist shall be completed and signed by a Certified Tightness Testing Supervisor. The supervisor shall be on site during all tank tightness testing activities. Up to four tanks per site may be reported on a single checklist; additional tanks will require additional checklists. A Tightness Testing Checklist must be completed for each UST system (tank and associated piping) being tested as well as following most retrofit/repairs.

The tank owner or operator must report a failed tightness test as a suspected release to UST staff at the appropriate Ecology regional office within 24 hours.

The Retrofitting/Repair Checklist shall be completed and signed by a IFCI Certified Installation and Retrofitting Supervisor. The Certified Supervisor shall be on site when all retrofitting/repair activities are being conducted.

The Cathodic Protection Checklist shall be completed and signed by an IFCI Certified Cathodic Protection Supervisor. The Certified Supervisor shall be on site when all cathodic protection activities are being conducted. Retrofitting and/or repairs to a Cathodic Protection system should be indicated on the Cathodic Protection Checklist.

Underground Storage Tank

Tightness Testing Checklist

S... # 0
Site Address 29625 Pacific Hwy S
City Federal Way

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD **Date of Test:** 1/2/2007

1 Tightness testing method(s) used (indicate if more than one method was used):
Test method name/version/Manfacturer: N/A
LDT-890

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be; 1) filled with product to the 95% full level or 2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): NA

3. Method used for release detection:

ATG

4. Reason for conducting tightness test:

Required release detection method

5. Type of test conducted:

Leak Detectors only

6. Test method type:

Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form.

	Yes/No/NA	Initials
1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g., detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm of no mare than 5%).	Yes	
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and	Yes	
3. Was the product level in the tank during the test within the limitations of the test methods performance standards?	Yes	
4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)	N/A	
5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours to UST staff at the appropriate Ecology regional	N/A	

* Item not applicable

Site ID # 0
Site Address 29625 Pacific Hwy S
City Federal Way

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	1	2	3	4		
1. Tank ID# (tank name registered with Ecology)						
2. Date installed						
3. Tank capacity in gallons	12000	2000	10000	8000		
4. Last substance stored	Regular	Regular	Midgrade	Premium		
5. Number of tank compartments	1	1	2	2		
6. Tank type: (S) single wall; (D) double wall; (P) partitioned	DW	DW	DW P	DW P		
7. Is overfill device present? (Yes/No)	Ball Float	Ball Float	Ball Float	Ball Float		
8. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)						
9. The test method used can detect a leak of how many GPH?	.05	.05	.05	.05		
10. The numerical tank test results are? (In gallons per hour)						
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are?						

IV. Line Information

	Regular	Midgrade	Premium			
1. Piping type: (S) single wall; (D) double wall	Double	Double	Double			
2. Pump type: (T) turbine; (S) suction	Pressure	Pressure	Pressure			
3. (a) If turbine, is leak detector present (Yes/No)	Yes	Yes	Yes			
(1) If present, was lead seal intact? (Yes/No N/A)	No	No	No			
(2) Line leak detector results? (Pass/Fail)	FAIL	PASS	PASS			
(b) If suction, check valve located at? (T) tank (P) pump	N/A	N/A	N/A			
4. The numerical line test results are? (gallons per hour)	N/A	N/A	N/A			
5. Line tightness test results? (Pass/Fail)	N/A	N/A	N/A			

* Inconclusive test results for tanks or piping will not be considered as valid tightness test for the purposes of complying with UST release detection regulations.

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

Date	Signature of Certified Supervisor	Printed Name
1/2/2007		Josh Raymond
02-12-07	Manjinder Singh	MANJINDER SINGH

Signature of Tank Owner/Authorized Representative

Site # 8504

Underground Storage Tank

Tightness Testing Checklist

Site Address 29625 Pacific Hwy S

City Federal Way

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD **Date of Test: 11/16/2005**

1 Tightness testing method(s) used (indicate if more than one method was used):
Test method name/version ☐ Accurite (Line) ☐ 2001 / P(Tank) ☐ 2000 / P(Tank) ☐ 2000 / U
Test method Manufacturer ☐ Services and Training Corp(Line)
☐ USTest - Sound Services (Tank) ☒ VMI LDT 890(leak detector)

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be; 1) filled with product to the 95% full level or 2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): n/a

3. Method used for release detection:
- ☐ Weekly manual gauging
- ☐ Daily manual inventory control
- ☒ Automatic tank gauging (ATG)
- ☐ Interstitial monitoring
- ☐ Other (describe)

4. Reason for conducting tightness test:
- ☒ Required for release detection requirement
- ☐ Bring temporarily closed tanks back into service
- ☐ Tank or piping repair
- ☐ Other (describe)

5. Type of test conducted:
- ☐ Tank tightness test only
- ☐ Line tightness test only
- ☐ Total system test (tank and lines tested togeth
- ☒ Leak Detector Only

6. Test method type:
- ☐ Overfill volumetric
- ☐ Underfill volumetric
- ☒ Nonvolumetric
- ☐ Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form.

	Yes	No	N/A*
1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g., detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm of no	☒	☐	☐
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and	☒	☐	☐
3. Was the product level in the tank during the test within the limitations of the test methods performance standards?	☐	☐	☒
4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)	☐	☐	☒
5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours to UST staff at the appropriate	☐	☐	☒

* Item not applicable

Site ID #
Site Address 29625 Pacific Hwy 5
City Federal Way

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID# (tank name registered with Ecology)				
2. Date installed				
3. Tank capacity in gallons	12000	2000	10000	8000
4. Last substance stored	Regular	Regular	Midgrade	Premium
5. Number of tank compartments				
6. Tank type: (S) single wall; (D) double wall; (P) partitioned				
7. Is overfill device present? (Yes/No)				
8. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)				
9. The test method used can detect a leak of how many GPH?	+/- 0.05	+/- 0.05	+/- 0.05	+/- 0.05
10. The numerical tank test results are? (in gallons per hour)				
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are?				

IV. Line Information

	Line 1	Line 2	Line 3	Line 4
1. Piping type: (S) single wall; (D) double wall	D	n/a	D	D
2. Pump type: (T) turbine; (S) suction	T	n/a	T	T
3. (a) If turbine, is leak detector present (Yes/No)	Yes	n/a	Yes	Yes
(1) If present, was lead seal intact? (Yes/No N/A)	N/A	n/a	N/A	N/A
(2) Line leak detector results? (Pass/Fail)	Pass	n/a	Pass	Pass
(b) If suction, check valve located at? (T) tank (P) pum	N/A	n/a	N/A	N/A
4. The numerical line test results are? (gallons per hour)	N/A	n/a	N/A	N/A
5. Line tightness test results? (Pass/Fail)	N/A	n/a	N/A	N/A

* Inconclusive test results for tanks or piping will not be considered as valid tightness test for the purposes of complying with UST release detection regulations.

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

Date	Signature of Certified Supervisor	Printed Name
11/16/2005		Erik Snyder
12-22-05		RANJIT S. RAI

Signature of Tank Owner/Authorized Representative

* * * Error Report (Dec. 22. 2005 7:36PM) * * *

1) Northwest Regional Office
2) Department of Ecology

File No.	User Name	Destination	Mode	Time	Page	Result
1393			G3RES	1'20"	P. 2	E

Page not received

P. 2

Quick Service Code

00-20

: Batch
M : Memory
S : Standard
> : Reduction
Q : RX Notice Req.

C : Confidential
L : Send later
D : Detail
H : Stored/D. Server
A : RX Notice

$: Transfer
@ : Forwarding
F : Fine
* : LAN-Fax

P : Polling
E : ECM
U : Super Fine
+ : Delivery

Site ID #
Site Address 29625 Pacific Hwy S
City Federal Way

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID# (tank name registered with Ecology)				
2. Date installed				
3. Tank capacity in gallons	12000	2000	10000	8000
4. Last substance stored	Regular	Regular	Midgrade	Premium
5. Number of tank compartments				
6. Tank type: (S) single wall; (D) double wall; (P) partitioned				
7. Is overfill device present? (Yes/No)				
8. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)				
9. The test method used can detect a leak of *how many GPH?*	+/- 0.05	+/- 0.05	+/- 0.05	+/- 0.05
10. The numerical tank test results are? (In gallons per hour)				
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are?				

IV. Line Information

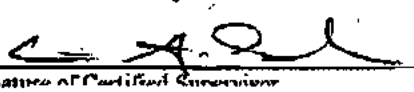
	Line 1	Line 2	Line 3	Line 4
1. Piping type: (S) single wall; (D) double wall	D	n/a	D	D
2. Pump type: (T) turbine; (S) suction	T	n/a	T	T
3. (a) If turbine, is leak detector present (Yes/No)	Yes	n/a	Yes	Yes
(1) If present, was lead seal intact? (Yes/No N/A)	N/A	n/a	N/A	N/A
(2) Line leak detector results? (Pass/Fail)	Pass	n/a	Pass	Pass
(b) If suction, check valve located at? (T) tank (P) pum	N/A	n/a	N/A	N/A
4. The numerical line test results are? (gallons per hour)	N/A	n/a	N/A	N/A
5. Line tightness test results? (Pass/Fail)	N/A	n/a	N/A	N/A

* Inconclusive test results for tanks or piping will not be considered as valid tightness test for the purposes of complying with UST release detection regulations.

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

11/16/2005 — Date
 — Signature of Certified Supervisor
Erik Snyder — Printed Name

* * * Error Report (Dec. 22. 2005 7:38PM) * * *

1) Northwest Regional Office
2) Department of Ecology

File No.	User Name	Destination	Mode	Time	Page	Result
1395			G3RES	1'33"	P. 3	E

Page not received

P. 3

Quick Service Code

00-20

: Batch
M : Memory
S : Standard
> : Reduction
Q : RX Notice Req.

C : Confidential
L : Send later
D : Detail
H : Stored/D. Server
A : RX Notice

$: Transfer
@ : Forwarding
F : Fine
* : LAN-Fax

P : Polling
E : ECM
U : Super Fine
+ : Delivery

* * * Error Report (Dec. 22. 2005 7:40PM) * * *

1) Northwest Regional Office
2) Department of Ecology

File No.	User Name	Destination	Mode	Time	Page	Result
1397			G3RES	0'53"	P. 1	E

Page not received

P. 1

Quick Service Code

00-01

# : Batch	C : Confidential	$: Transfer	P : Polling
M : Memory	L : Send later	@ : Forwarding	E : ECM
S : Standard	D : Detail	F : Fine	U : Super Fine
> : Reduction	H : Stored/D. Server	* : LAN-Fax	+ : Delivery
Q : RX Notice Req.	A : RX Notice		

Underground Storage Tank

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Check those activities which apply: ☒ Tightness Testing Checklist
☐ Retrofit/Repair checklist
☐ Cathodic Protection Checklist

The attached Underground Storage Tank (UST) checklists are required for each of the listed activities. The checklists certify that Tightness Testing, Retrofit/Repair and/or Cathodic Protection activities are performed and conducted in accordance with Chapter 173.360 WAC. **Complete this form and the corresponding UST checklist for each activity checked above.**

See back of form for instructions.

1. UST SYSTEM LOCATION AND OWNER

UBI Number: 602 527 602 (UBI # from Master Business License)
Site ID Number: A 3797 (Available from Ecology if tank is registered)

Site/Business Name: Shell Mini Mart

Site Address: 29625 Pacific Hwy S (Street) Peirce (County)
Federal Way (City) Washington (State) 98006 (Zip+4 required)
Telephone: 253-941-1611

UST Owner/Operator: Shell Mini Mart

Mailing Address: 29625 Pacific Hwy S (Street) (P.O. Box)
Federal Way (City) WA (State) 98006 (Zip+4 required)
Telephone: 253-941-1611

2. FIRM PERFORMING WORK

Service Company: Northwest Tank & Environmental Services, Inc.

Service Co. Address: 17407 59th Ave SE (Street) Snohomish (County)
Snohomish (City) Washington (State) 98926 (Zip+4 required)
Certified Supervisor: Erik Snyder

Address: 17407 59th Ave SE (Street) (P.O. Box)
Snohomish (City) Washington (State) 98926 (Zip+4 required)

IFCI Certification Number: 32-US-32025440
Certification Issue Date (Month/Year): 5/9/2005

Telephone: (425) 742-9622

Ecology is an equal opportunity and affirmative action employer
For special accommodation needs, please contact the Underground Storage Tanks Section at (360) 407-7170.

Underground Storage Tank

Tightness Testing Checklist

Site ID #

Site Address 29625 Pacific Hwy S

City Federal Way

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD

Date of Test: 11/16/2005

1 Tightness testing method(s) used (indicate if more than one method was used):

Test method name/version ☐ Accurite (Line) ☐ 2001 / P(Tank) ☐ 2000 / P(Tank) ☐ 2000 / U

Test method Manufacturer ☐ Services and Training Corp(Line)

☐ USTest - Sound Services (Tank) ☒ VMI LDT 890(leak detector)

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be; 1) filled with product to the 95% full level or 2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): n/a

3. Method used for release detection:
- ☐ Weekly manual gauging
- ☐ Daily manual inventory control
- ☒ Automatic tank gauging (ATG)
- ☐ Interstitial monitoring
- ☐ Other (describe)

4. Reason for conducting tightness test:
- ☒ Required for release detection requirement
- ☐ Bring temporarily closed tanks back into service
- ☐ Tank or piping repair
- ☐ Other (describe)

5. Type of test conducted:
- ☐ Tank tightness test only
- ☐ Line tightness test only
- ☐ Total system test (tank and lines tested togeth
- ☒ Leak Detector Only

6. Test method type:
- ☐ Overfill volumetric
- ☐ Underfill volumetric
- ☒ Nonvolumetric
- ☐ Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form.

	Yes	No	N/A*
1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g., detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm of no	☒	☐	☐
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and	☒	☐	☐
3. Was the product level in the tank during the test within the limitations of the test methods performance standards?	☐	☐	☒
4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)	☐	☐	☒
5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours to UST staff at the appropriate	☐	☐	☒

* Item not applicable

NWRO-KING
8504

Underground Storage Tank

FS# 79813564

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Check those activities which apply: ☒ Tightness Testing Checklist
☐ Retrofit/Repair checklist
☐ Cathodic Protection Checklist

The attached Underground Storage Tank (UST) checklists are required for each of the listed activities. The checklists certify that Tightness Testing, Retrofit/Repair and/or Cathodic Protection activities are performed and conducted in accordance with Chapter 173.360 WAC. **Complete this form and the corresponding UST checklist for each activity checked above.**

See back of form for instructions.

1. UST SYSTEM LOCATION AND OWNER

UBI Number: _____ (UBI # from Master Business License)

Site ID Number: _____ (Available from Ecology if tank is registered)

Site/Business Name: Shell Mini Mart

Site Address: 29625 Pacific Hwy S (Street) Peirce (County)
Federal Way (City) Washington (State) 98006 (Zip+4 required)

Telephone: 253-941-1611

UST Owner/Operator: Shell Mini Mart

Mailing Address: 29625 Pacific Hwy S (Street) (P.O. Box)
Federal Way (City) WA (State) 98006 (Zip+4 required)

Telephone: 253-941-1611

2. FIRM PERFORMING WORK

Service Company: Northwest Tank & Environmental Services, Inc.

Service Co. Address: 17407 59th Ave SE (Street) Snohomish (County)
Snohomish (City) Washington (State) 98926 (Zip+4 required)

Certified Supervisor: Erik Snyder

Address: 17407 59th Ave SE (Street) (P.O. Box)
Snohomish (City) Washington (State) 98926 (Zip+4 required)

IFCI Certification Number: 32-US-32025440 Certification issue Date (Month/Year): 5/9/2005

Telephone: (425) 742-9622

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Ecology is an equal opportunity and affirmative action employer
For special accommodation needs, please contact the Underground Storage Tanks Section at (360) 407-7170.

ECY 010-160 (01/97) Ecology

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8504

Underground Storage Tank

Tightness Testing Checklist

Site ID #

Site Address 29625 Pacific Hwy S

City Federal Way

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD **Date of Test: 11/16/2005**

1 Tightness testing method(s) used (indicate if more than one method was used):
Test method name/version ☐ Accurite (Line) ☐ 2001 / P(Tank) ☐ 2000 / P(Tank) ☐ 2000 / U
Test method Manufacturer ☐ Services and Training Corp(Line)
☐ USTest - Sound Services (Tank) ☒ VMI LDT 890(leak detector)

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be; 1) filled with product to the 95% full level or 2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): n/a

3. Method used for release detection:
- ☐ Weekly manual gauging
- ☐ Daily manual inventory control
- ☒ Automatic tank gauging (ATG)
- ☐ Interstitial monitoring
- ☐ Other (describe)

4. Reason for conducting tightness test:
- ☒ Required for release detection requirement
- ☐ Bring temporarily closed tanks back into service
- ☐ Tank or piping repair
- ☐ Other (describe)

5. Type of test conducted:
- ☐ Tank tightness test only
- ☐ Line tightness test only
- ☐ Total system test (tank and lines tested togeth
- ☒ Leak Detector Only

6. Test method type:
- ☐ Overfill volumetric
- ☐ Underfill volumetric
- ☒ Nonvolumetric
- ☐ Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form.

	Yes	No	N/A*
1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g., detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm of no	☒	☐	☐
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and	☒	☐	☐
3. Was the product level in the tank during the test within the limitations of the test methods performance standards?	☐	☐	☒
4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)*	☐	☐	☒
5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours to UST staff at the appropriate	☐	☐	☒

* Item not applicable

Site ID # _____
Site Address 29625 Pacific Hwy S
City Federal Way

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID# (tank name registered with Ecology)				
2. Date installed				
3. Tank capacity in gallons	12000	2000	10000	8000
4. Last substance stored	Regular	Regular	Midgrade	Premium
5. Number of tank compartments				
6. Tank type: (S) single wall; (D) double wall; (P) partitioned				
7. Is overfill device present? (Yes/No)				
8. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)				
9. The test method used can detect a leak of *how many GPH?*	+/- 0.05	+/- 0.05	+/- 0.05	+/- 0.05
10. The numerical tank test results are? (In gallons per hour)				
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are?				

IV. Line Information

	Line 1	Line 2	Line 3	Line 4
1. Piping type: (S) single wall; (D) double wall	D	n/a	D	D
2. Pump type: (T) turbine; (S) suction	T	n/a	T	T
3. (a) If turbine, is leak detector present (Yes/No)	Yes	n/a	Yes	Yes
(1) If present, was lead seal intact? (Yes/No N/A)	N/A	n/a	N/A	N/A
(2) Line leak detector results? (Pass/Fail)	Pass	n/a	Pass	Pass
(b) If suction, check valve located at? (T) tank (P) pum	N/A	n/a	N/A	N/A
4. The numerical line test results are? (gallons per hour)	N/A	n/a	N/A	N/A
5. Line tightness test results? (Pass/Fail)	N/A	n/a	N/A	N/A

* Inconclusive test results for tanks or piping will not be considered as valid tightness test for the purposes of complying with UST release detection regulations.

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

11/16/2005		Erik Snyder
Date	Signature of Certified Supervisor	Printed Name
Date	Signature of Tank Owner/Authorized Representative	Printed Name

221-830.6
2005

NWRO
8504
KING

MASTER LICENSE SERVIC
DEPARTMENT OF LICENSI
PO BOX 9048
OLYMPIA, WA 98507-9048
Telephone: (360) 664-1400

6- -527-602
UBI NUMBER

OWNER NAME (Please print clearly)

FIRM NAME

UNDERGROUND STORAGE TANK ADDENDUM

(For new tanks and change in ownership)

This form must accompany a Master Application.
Please type or print clearly in dark ink.

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ECOLOGY

Keep a copy of the completed form and the instruction sheet for future reference.

I TANK SITE INFORMATION (See page 1and 2 of the instructions for proper codes.)

1. Tank Site Location Address:

29625 PACIFIC HWY SO
Location Address

FEDERAL WAY | WA. | 98003 | KING.
City | State | Zip Code | County

2a. Operator Information (if other than owner):

YUNG HO / SIN OK HAN
Name

FEDERAL WAY DELIMART
Mailing Address 29625 PACIFIC HWY SO

FEDERAL WAY | WA. | 98003
City | State | Zip Code

253
Phone

2b. Contact Person for site:

MANJINDER SINGH
Name

13114 SE 214TH WAY
Mailing Address

KENT | WA. | 98031
City | State | Zip Code

253-315-5264
Phone

3. Ecology UST ID (if known)..... [ ][ ][ ][ ][ ][ ]

4. This application is for: Old Owner 602163753

- [X] A change of ownership of an existing site (complete sections I & V)
- [ ] A new facility with underground storage tanks (complete sections I, II, III, IV,& V)
- [ ] A new tank installation at existing site (complete sections I, II, III, IV & V)

5. Tank Site Use Type (NAICS Code)..... [ ][ ][ ][ ][ ][ ]

6. Financial Responsibility Limits Category..... 3

7. Method of Compliance with Financial Responsibility Requirement..... A

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OCT 14 2005
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8. Attach the appropriate proof of Financial Responsibility as described in the instructions.

9. If you would like a technical assistance inspection, please check this box..... [ ]

8504

If you need assistance through the Telecommunications Device for the Deaf, call TTY (360) 664-8885. To request this document in an alternate format for the visually impaired, call (360) 664-1400.

Printed on Recycled Paper

II INDIVIDUAL TANK INFORMATION (See pages 2 and 3 of the instructions for proper codes before completing this section.)

	First Tank	Second Tank	Third Tank	Fourth Tank	Fifth Tank
A Tank Name					
B Installation Date	/ /	/ /	/ /	/ /	/ /
C Tank Status					
D Tank Material					
E Tank Construction					
F1 Tank Release Detection/**Primary**					
F2 Tank Release Detection/ **Secondary** (if applicable)					
G Tank Tightness Testing					
H Tank Corrosion Protection					
I Spill Protection					
J Overfill Protection					
K Piping Material					
L Piping Construction					
M1 Piping Release Detection/**Primary**					
M2 Piping Release Detection/ **Secondary** (if applicable)					
N Piping Tightness Testing					
O Piping Corrosion Protection					
P Pumping System					

Compartments	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Q Substance Stored															
R Substance Use															
S Compartment Capacity															

UBI #

221- 830.7
2005

UBI # _____

III SITE PLAN (In the space below, provide an *as built* site plan of the tank and piping installation. Include all the information requested in the instructions.)

Always contact local authorities regarding permit requirements.
You must have the installation supervisor sign the back side of this page.

UBI # _____

IV INSTALLERS CERTIFICATION

I hereby certify that the installation of the new underground tank system listed on this form was completed according to all applicable regulations, codes and standards and that a certified supervisor was on site during all required installation activities.

Signature of Certified Supervisor	Company Name
Printed name	Certification Number
Address	City / State / Zip Code
Phone Number (including area code)	Date Signed

V OWNER/OPERATOR AGREEMENT TO TERMS AND CONDITIONS OF UST PERMIT

Owners and operators of petroleum underground storage tanks (USTs) must:

- Maintain proof of financial responsibility for taking corrective action and compensating third parties for bodily injury and property damages caused by petroleum releases. [RCW 90.76.020(1)(g), WAC 173-360-400 through 499]
- Provide release detection for petroleum USTs that can detect a release from any part of the tank and piping; must be installed, calibrated, operated and maintained according to manufacturers' instructions; and must meet the appropriate performance requirements in WAC 173-360-345 or 355. [RCW 90.76.020(1)(d), WAC 173-360-330 through 355]
- Operate and maintain corrosion protection systems in accordance with WAC 173-360-320 for new or upgraded steel tanks and piping installed after December 22, 1988. [RCW 90.76.020(1)(a)(b), WAC 173-360-300 through 325]
- Provide for spill and overfill protection for new or unpgraded tanks installed after December 22, 1988, that are filled with more than 25 gallons at a time. [RCW 90.76.020(1)(a)(b), WAC 173-360-300 through 315]
- Report, investigate and clean up any spills and overfills in accordance with WAC 173-360-375. [RCW 90.76.020(1)(e), WAC 173-360-360 through 375, WAC 173-360-399]
- Use a certified UST supervisor to perform all UST service activities: repairs, tank installation, retrofitting, tank decommissioning, tightness testing, corrosion protection installation and testing and site assessment. [RCW 90.76.020(5), WAC 173-360-600 through 630]
- Notify Ecology of intent to install a new UST system at least 30 days, but not more than 90 days, prior to installation. [RCW 90.76.020(1)(a), WAC 173-360-200(1)]
- Permanently close a tank after it has been temporarily closed or out of service for 12 months and does not meet the performance standards for new UST systems or the upgrading requirements in WAC 173-360-310(2)(3). [RCW 90.76.020(1)(f), WAC 173-360-380 through 385]
- Notify Ecology at least 30 days before beginning either a permanent closure or a change in service. [RCW 90.76.020(1)(c), WAC 173-360-385]
- Have a certified UST supervisor conduct a site assessment at permanent closure or a change-in-service as required under WAC 173-360-385 through 395. [RCW 90.76.020 (1)(f), WAC 173-360-600 through 630]
- Do not operate an UST or accept delivery of regulated substances without a valid permit. [RCW 90.76.020(1)(c), WAC 173-360-130]
- Notify the Department of Ecology within 30 days after bringing any newly installed UST system into use. [RCW 90.76.020(1)(c), WAC 173-360-200(2)]
- Violations of these permit conditions may result in permit revocation and/or civil penalty up to $5,000 for each tank involved, for each day of the violation. [RCW 90.76.080, WAC 173-360-670, WAC 173-360-130(8)]

As the owner and/or operator of the Underground Storage Tank (UST) system described on this application, I certify that I have read and agree to abide by the foregoing terms and conditions, and that I understand that having an UST permit requires that I comply with the provisions contained in chapter 90.76 RCW, the statute governing USTs, and its implementing regulations, chapter 173-360 WAC.

Manjinder Singh — Signature of Underground Storage Tank Owner

08-05-05 — Date Signed

MANJINDER SINGH — PRINTED Name of Person Signing Above

MASTER LICENSE SERVICE
DEPARTMENT OF LICENSING
P.O. BOX 9034
OLYMPIA, WA 98507-9034
Telephone: (360) 664-1400

130-539.2
2002

602 16 '53 1-1
UBI NUMBER

FW DELI MART INC
OWNER NAME (Please print clearly)

FW DELI MART.
FIRM NAME

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JUN 05 2002
ECOLOGY

UNDERGROUND STORAGE TANK ADDENDUM

(For new and retrofit tanks and change in ownership)

This form must accompany a Master Application.
Please type or print clearly in dark ink.

Done BR

Keep a copy of the completed form and the instruction sheet for future reference.

NW 8504 King

I TANK SITE INFORMATION (See page 1and 2 of the instructions for proper codes.)

1. Tank Site Location Address:

29625 Pacific Hwy S
Location Address

Federal Way	WA	98003	King
City	State	Zip Code	County

2. Contact person for the tank site:

Yung Ho Han	253 941-1611
Name	Phone Number

29625 Pacific Hwy S
Contact's Address

Federal Way	WA	98003	King
City	State	Zip Code	County

3. Site Number (if known)..... | | | 8 | 5 | 0 | 4 |

4. This application is for:

- ☐ A new facility with underground storage tanks
- ☒ A change of ownership of an existing site
- ☐ A retrofit
- ☐ A new tank installation at existing site

5. Tank Site Use Type (SIC Code)..... 5 5 4 1

6. Financial Responsibility Limits Category 3

7. Method of Compliance with Financial Responsibility Requirement ..... A

8. Attach the appropriate proof of Financial Responsibility as described in the instructions.

If you need assistance through the Telecommunications Device for the Deaf, call TDD (360) 586-2788. To request this document in an alternate format for the visually impaired, call (360) 664-1400.

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II INDIVIDUAL TANK INFORMATION (See pages 2 and 3 of the instructions for proper codes before completing this section.)

	First Tank	Second Tank	Third Tank	Fourth Tank	Fifth Tank
A Tank Name					
B Installation Date	/ /	/ /	/ /	/ /	/ /
C Tank Status					
D Tank Material					
E Tank Construction					
F Tank Release Detection					
G Tank Tightness Testing					
H Tank Corrosion Protection					
I Spill Protection					
J Overfill Protection					
K Piping Material					
L Piping Construction					
M Piping Release Detection					
N Piping Tightness Testing					
O Piping Corrosion Protection					
P Pumping System					

Compartments	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Q Substance Stored															
R Substance Use															
S Compartment Capacity															

UBI #

130- 539. 3
2002

FARMERS INSURANCE EXCHANGE

MEMBERS OF THE FARMERS INSURANCE GROUP OF COMPANIES
HOME OFFICE: 4680 WILSHIRE BLVD., LOS ANGELES, CALIFORNIA 90010

COMMON POLICY DECLARATIONS

RETAIL SERVICE - PREMIER

1. Named Insured Mailing Address: FW DELI MART
29625 PACIFIC HWY S
FEDERAL WAY WA 98003

NF81249 — EasyPay Acct. No.
Prod. Count
79-48-334 — Agent No.
03502-96-49 — Policy Number

The named insured is an individual unless otherwise stated:

☐ Partnership ☒ Corporation ☐ Joint Venture ☐ Organization (Any other)

Type of Business FOOD STORE

2. Policy Period from 05/01/02 (not prior to time applied for) to 05/01/03 12:01 a.m. Standard Time

If this policy replaces other coverage that ends at noon standard time of the same day this policy begins, this policy will not take effect until the other coverage ends. **This policy will continue for successive policy periods as follows:** If we elect to continue this insurance, we will renew this policy if you pay the required renewal premium for each successive policy period subject to our premiums, rules and forms then in effect.

THIS POLICY CONSISTS OF THE FOLLOWING COVERAGE PARTS LISTED BELOW AND FOR WHICH A PREMIUM IS INDICATED. THIS PREMIUM MAY BE SUBJECT TO CHANGE.

	Premium After Applicable Discount and Modification
BUSINESSOWNERS POLICY	$5,301.00
EMPLOYEE BENEFITS LIABILITY COVERAGE PART	$224.00
TOTAL	SEE INVOICE ATTACHED

Forms applicable to all Coverage Parts:

IL12011185 IL00030498 56-5166 IL01461198

Countersigned _____ By _____
(Date) (Authorized Representative)

130- 539. 4
2002

(c) To:

(i) Repair or replace any property; or

(ii) Research, replace or restore the lost information on damaged "valuable papers and records":

to the extent it reduces the amount of loss that otherwise would have been payable under this Additional Coverage or Additional Coverage **f.** Business Income.

We will only pay for Extra Expense that occurs within 12 consecutive months after the date of direct physical loss or damage. This Additional Coverage is not subject to the Limits of Insurance.

h. Pollutant Clean Up And Removal

We will pay your expense to extract "pollutants" from land or water at the described premises if the discharge, dispersal, seepage, migration, release or escape of the "pollutants" is caused by or results from a Covered Cause of Loss that occurs during the policy period. The expenses will be paid only if they are reported to us in writing within 180 days of the earlier of:

(1) The date of direct physical loss or damage; or

(2) The end of the policy period.

The most we will pay for each location under this Additional Coverage is $10,000 for the sum of all such expenses arising out of Covered Causes of Loss occurring during each separate 12 month period of this policy.

i. Civil Authority

We will pay for the actual loss of Business Income you sustain and necessary Extra Expense caused by action of civil authority that prohibits access to the described premises due to direct physical loss of or damage to property, other than at the described premises, caused by or resulting from any Covered Cause of Loss.

The coverage for Business Income will begin 72 hours after the time of that action and will apply for a period of up to three consecutive weeks after coverage begins.

The coverage for necessary Extra Expense will begin immediately after the time of that action and ends:

(1) 3 consecutive weeks after the time of that action; or

(2) When your Business Income coverage ends;

whichever is later.

The definitions of Business Income and Extra Expense contained in the Business Income and Extra Expense Additional Coverages also apply to this Civil Authority Additional Coverage. The Civil Authority Additional Coverage is not subject to the Limits of Insurance.

j. Money Orders And Counterfeit Paper Currency

We will pay for loss due to the good faith acceptance of:

(1) Any U.S. or Canadian post office, express company, or national or state (or Canadian) chartered bank money order that is not paid upon presentation to the issuer; or

(2) Counterfeit United States or Canadian paper currency;

in exchange for merchandise, "money" or services or as part of a normal business transaction.

The most we will pay for any loss under this Additional Coverage is $1,000.

k. Forgery And Alteration

(1) We will pay for loss resulting directly from forgery or alteration of, any check, draft, promissory note, bill of exchange or similar written promise of payment in "money", that you or your agent has issued, or that was issued by someone who impersonates you or your agent.

(2) If you are sued for refusing to pay the check, draft, promissory note, bill of exchange or similar written promise of payment in "money", on the basis that it has been forged or altered, and you have our written consent to defend against the suit, we will pay for any reasonable legal expenses that you incur in that defense.

(3) The most we will pay for any loss, including legal expenses, under this Additional Coverage is $2,500.

l. Increased Cost Of Construction

(1) This Additional Coverage applies only to buildings insured on a replacement cost basis.

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130- 539. 5
2002

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CALCULATION OF PREMIUM

This endorsement modifies insurance provided under the following:

BOILER AND MACHINERY COVERAGE PART
BUSINESSOWNERS POLICY
COMMERCIAL AUTOMOBILE COVERAGE PART
COMMERCIAL CRIME COVERAGE PART
COMMERCIAL GENERAL LIABILITY COVERAGE PART
COMMERCIAL INLAND MARINE COVERAGE PART
COMMERCIAL PROPERTY COVERAGE PART
EMPLOYMENT-RELATED PRACTICES LIABILITY COVERAGE PART
FARM COVERAGE PART
LIQUOR LIABILITY COVERAGE PART
OWNERS AND CONTRACTORS PROTECTIVE LIABILITY COVERAGE PART
POLLUTION LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART
PROFESSIONAL LIABILITY COVERAGE PART
RAILROAD PROTECTIVE LIABILITY COVERAGE PART
SPECIAL PROTECTIVE AND HIGHWAY LIABILITY POLICY - NEW YORK

The following is added:

The premium shown in the Declarations was computed based on rates in effect at the time the policy was issued. On each renewal, continuation, or anniversary of the effective date of this policy, we will compute the premium in accordance with our rates and rules then in effect.

Copyright, Insurance Services Office, Inc., 1997

UBI # 602163753

IV INSTALLERS CERTIFICATION

I hereby certify that the installation of the new underground tank system or any upgrades or retrofits to the existing tank system listed on this form were completed according to all applicable regulations, codes and standards and that a certified supervisor was on site during all required installation activities.

Signature of Certified Supervisor

Date Signed

PRINTED Name of Person Signing Above

V OWNER/OPERATOR AGREEMENT TO TERMS AND CONDITIONS OF UST PERMIT

Owners and operators of petroleum underground storage tanks (USTs) must:

- Maintain proof of financial responsibility for taking corrective action and compensating third parties for bodily injury and property damages caused by petroleum releases. [RCW 90.76.020(1)(g), WAC 173-360-400 through 499]
- Provide release detection for petroleum USTs that can detect a release from any part of the tank and piping; must be installed, calibrated, operated and maintained according to manufacturers' instructions; and must meet the appropriate performance requirements in WAC 173-360-345 or 355. [RCW 90.76.020(1)(d), WAC 173-360-330 through 355]
- Operate and maintain corrosion protection systems in accordance with WAC 173-360-320 for new or upgraded steel tanks and piping installed after December 22, 1988. [RCW 90.76.020(1)(a)(b), WAC 173-360-300 through 325]
- Provide for spill and overfill protection for new or unpgraded tanks installed after December 22, 1988, that are filled with more than 25 gallons at a time. [RCW 90.76.020(1)(a)(b), WAC 173-360-300 through 315]
- Report, investigate and clean up any spills and overfills in accordance with WAC 173-360-375. [RCW 90.76.020(1)(e), WAC 173-360-360 through 375, WAC 173-360-399]
- Use a certified UST supervisor to perform all UST service activities: repairs, tank installation, retrofitting, tank decommissioning, tightness testing, corrosion protection installation and testing and site assessment. [RCW 90.76.020(5), WAC 173-360-600 through 630]
- Notify Ecology of intent to install a new UST system at least 30 days, but not more than 90 days, prior to installation. [RCW 90.76.020(1)(a), WAC 173-360-200(1)]
- Permanently close a tank after it has been temporarily closed or out of service for 12 months and does not meet the performance standards for new UST systems or the upgrading requirements in WAC 173-360-310(2)(3). [RCW 90.76.020(1)(f), WAC 173-360-380 through 385]
- Notify Ecology at least 30 days before beginning either a permanent closure or a change in service. [RCW 90.76.020(1)(c), WAC 173-360-385]
- Have a certified UST supervisor conduct a site assessment at permanent closure or a change-in-service as required under WAC 173-360-385 through 395. [RCW 90.76.020 (1)(f), WAC 173-360-600 through 630]
- Do not operate an UST or accept delivery of regulated substances without a valid permit. [RCW 90.76.020(1)(c), WAC 173-360-130]
- Notify the Department of Ecology within 30 days after bringing any newly installed UST system into use. [RCW 90.76.020(1)(c), WAC 173-360-200(2)]
- Violations of these permit conditions may result in permit revocation and/or civil penalty up to $5,000 for each tank involved, for each day of the violation. [RCW 90.76.080, WAC 173-360-670, WAC 173-360-130(8)]

As the owner and/or operator of the Underground Storage Tank (UST) system described on this application, I certify that I have read and agree to abide by the foregoing terms and conditions, and that I understand that having an UST permit requires that I comply with the provisions contained in chapter 90.76 RCW, the statute governing USTs, and its implementing regulations, chapter 173-360 WAC.

Signature of Underground Storage Tank Owner

5/7/02
Date Signed

YUNG HO HAN PRESIDENT
PRINTED Name of Person Signing Above

130- 539. 6
2002

UBI # _____

III SITE PLAN (In the space below, p an *as built* site plan of the tank and piping installatic ... .lude all the information requested in the instructions.)

Always contact local authorities regarding permit requirements.
You must have the installation supervisor sign the back side of this page.

MASTER LICENSE SERVICE
DEPARTMENT OF LICENSING
P.O. BOX 9034
OLYMPIA, WA 98507-9034
Telephone: (360) 664-1400

602.3
2001

602 [redacted] 181 14
UBI NUMBER

YUNG HO KIM OK HAN
OWNER NAME (Please print clearly)

NW King 8504 UST

Done PR

RECEIVED
APR 11 2001
ECOLOGY

UNDERGROUND STORAGE TANK ADDENDUM

(For new and retrofit tanks and change in ownership)

This form must accompany a Master Application.
Please type or print clearly in dark ink.

Keep a copy of the completed form and the instruction sheet for future reference.

OWNER INFORMATION (See page 1 of the instructions for proper codes.)

1. Tank Owner Type	A
2. Financial Responsibility Category of Tank Owner	E
3. Financial Responsibility Compliance Method	A.

4. Attach the document certifying financial responsibility.

5. Attach a list of any tanks at this site that are not covered by the owner's financial responsibility. Include an explanation.

TANK SITE INFORMATION (See pages 1 and 2 of the instructions for the proper codes.)

1. Site Number (if known)	
2. Tank Site Use Type (SIC Code)	5541

3. This application is for ☐ a new installation ☑ change owner of an existing tank ☐ a retrofit

4. Contact person at the tank site: old owner 601 541926 1-1

Larry Stears. (253) 941-1611.
Name Phone Number

29625 pacific Hiway S
Address

Federal Way WA. 98003.
City State Zip Code

RECEIVED
JUN 06 2001
DEPT OF ECOLOGY

If you need assistance through the Telecommunications Device for the Deaf, call TDD (360) 586-2788. To request this document in an alternate format for the visually impaired, call (360) 664-1400.

Printed on Recycled Paper

III INDIVIDUAL TANK INFORMATION (See page 3 of the instructions for proper codes before completing this section.)

	First Tank	Second Tank	Third Tank	Fourth Tank	Fifth Tank
A Tank ID	1	2	3		
B Installation Date	7 1 1 95	7 1 1 95	7 1 1 95	/ /	/ /
C Tank Status	A	A	A		
D Tank Material	D	D	D		
E Tank Construction	B	B	B		
F Tank Release Detection	ACF	ACF	ACF		
G Tank Tightness Testing	A	A	A		
H Tank Corrosion Protection	D	D	D		
I Spill Protection	A	A	A		
J Overfill Protection	CB	CB	CB		
K Piping Material	C	C	C		
L Piping Construction	B	B	B		
M Piping Relase Detection	A	A	A		
N Piping Tightness Testing	A	A	A		
O Piping Corrosion Protection	C	C	C		
P Pumping System	A	A	A		

Compartments	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Q Substance Stored	BC			BC			BC	BC							
R Substance Use	A			A			A	A							
S Compartment Capacity	10,000			10,000			8000	4,000							

UBI # _____

1-602.4
4001

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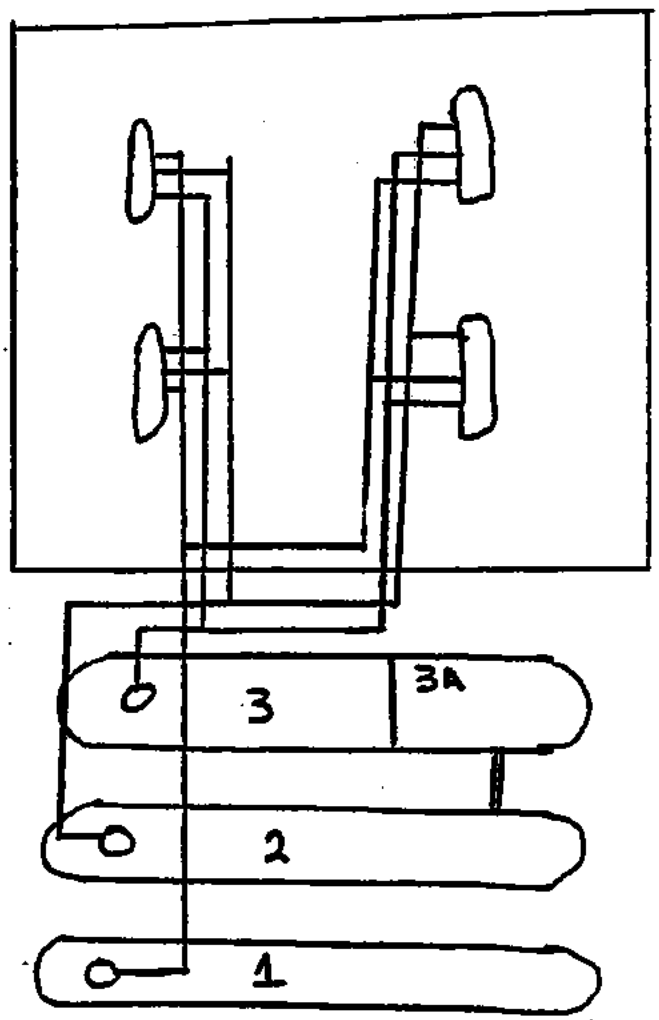
ECOLOGY
NW King
8504 UST

PIPING LAYOUT
504 DELI TOWN PUMP



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NW King 8504 UST

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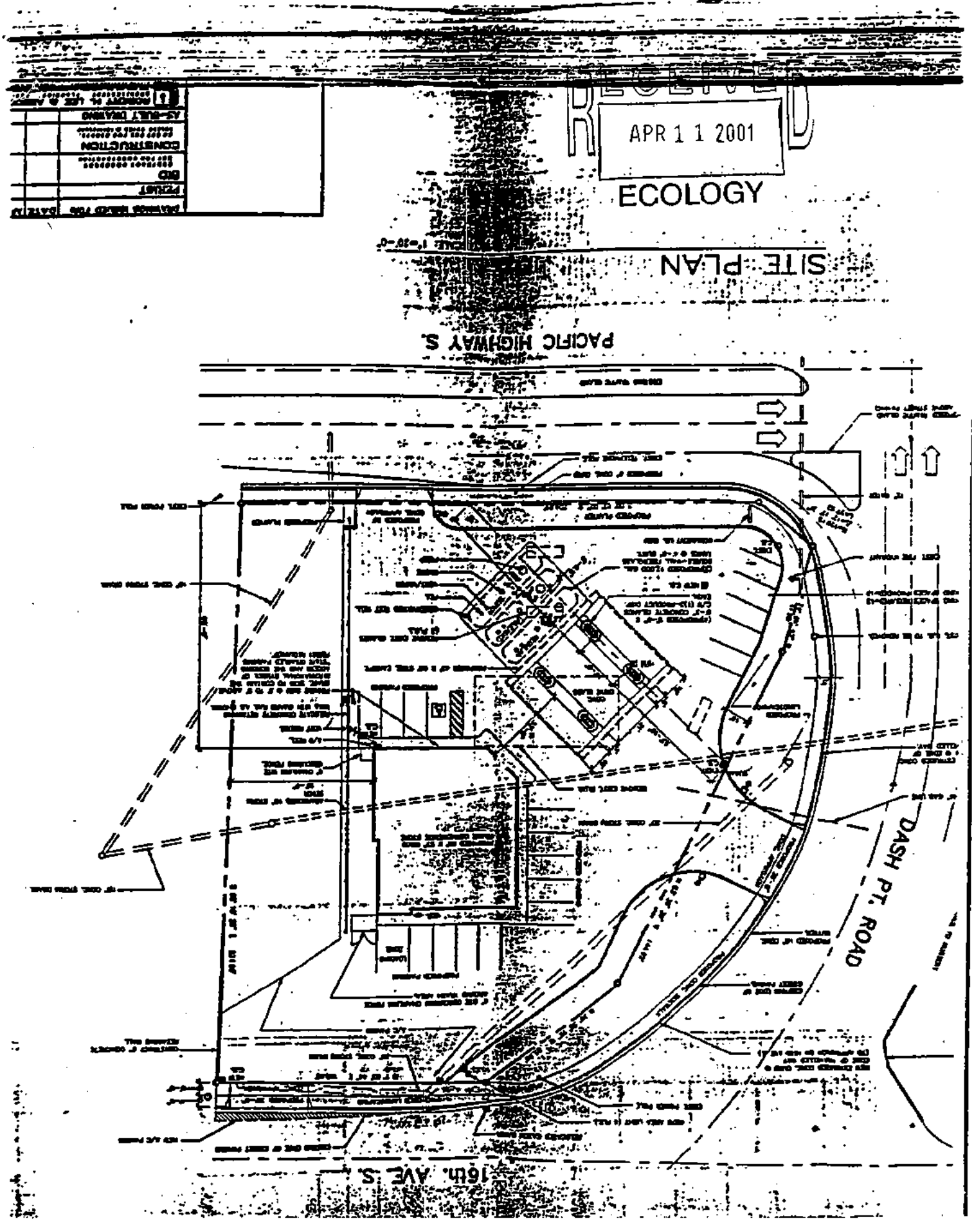
ECOLOGY



094-602.6
2001

UBI # _____

IV SITE PLAN (In the space below, provide a *simple* site plan of the tank and piping installation. Include all the information requested in the instructions.)

RECEIVED
APR 11 2001
ECOLOGY
NW King
8504 UST

Always contact local authorities regarding permit requirements.
You must have the installation supervisor sign the back side of this page.

UBI # _____

V INSTALLERS CERTIFICATION

I hereby certify that the installation of the new underground tank system or any upgrades or retrofits to the existing tank system listed on this form were completed according to all applicable regulations, codes and standards and that a certified supervisor was on site during all required installation activities.

_____ _____

Signature of Certified Supervisor Date Signed

_____

PRINTED Name of Person Signing Above

VI OWNER/OPERATOR AGREEMENT TO TERMS AND CONDITIONS OF UST PERMIT

Owners and operators of petroleum underground storage tanks (USTs) must:

- Maintain proof of financial responsibility for taking corrective action and compensating third parties for bodily injury and property damages caused by petroleum releases. [RCW 90.76.020(1)(g), WAC 173-360-400 through 499]
- Provide release detection for petroleum USTs that can detect a release from any part of the tank and piping; must be installed, calibrated, operated and maintained according to manufacturers' instructions; and must meet the appropriate performance requirements in WAC 173-360-345 or 355. [RCW 90.76.020(1)(d), WAC 173-360-330 through 355]
- Operate and maintain corrosion protection systems in accordance with WAC 173-360-320 for new or upgraded steel tanks and piping installed after December 22, 1988. [RCW 90.76.020(1)(a)(b), WAC 173-360-300 through 325]
- Provide for spill and overfill protection for new or unpgraded tanks installed after December 22, 1988, that are filled with more than 25 gallons at a time. [RCW 90.76.020(1)(a)(b), WAC 173-360-300 through 315]
- Report, investigate and clean up any spills and overfills in accordance with WAC 173-360-375. [RCW 90.76.020(1)(e), WAC 173-360-360 through 375, WAC 173-360-399]
- Use a certified UST supervisor to perform all UST service activities: repairs, tank installation, retrofitting, tank decommissioning, tightness testing, corrosion protection installation and testing and site assessment. [RCW 90.76.020(5), WAC 173-360-600 through 630]
- Notify Ecology of intent to install a new UST system at least 30 days, but not more than 90 days, prior to installation. [RCW 90.76.020(1)(a), WAC 173-360-200(1)]
- Permanently close a tank after it has been temporarily closed or out of service for 12 months and does not meet the performance standards for new UST systems or the upgrading requirements in WAC 173-360-310(2)(3). [RCW 90.76.020(1)(f), WAC 173-360-380 through 385]
- Notify Ecology at least 30 days before beginning either a permanent closure or a change in service. [RCW 90.76.020(1)(c), WAC 173-360-385]
- Have a certified UST supervisor conduct a site assessment at permanent closure or a change-in-service as required under WAC 173-360-385 through 395. [RCW 90.76.020 (1)(f), WAC 173-360-600 through 630]
- Do not operate an UST or accept delivery of regulated substances without a valid permit. [RCW 90.76.020(1)(c), WAC 173-360-130]
- Notify the Department of Ecology within 30 days after bringing any newly installed UST system into use. [RCW 90.76.020(1)(c), WAC 173-360-200(2)]
- Violations of these permit conditions may result in permit revocation and/or civil penalty up to $5,000 for each tank involved, for each day of the violation. [RCW 90.76.080, WAC 173-360-670, WAC 173-360-130(8)]

As the owner and/or operator of the Underground Storage Tank (UST) system described on this application, I certify that I have read and agree to abide by the foregoing terms and conditions, and that I understand that having an UST permit requires that I comply with the provisions contained in chapter 90.76 RCW, the statute governing USTs, and its implementing regulations, chapter 173-360 WAC.

Signature of Underground Storage Tank Owner — Date Signed: 03/26/01

PRINTED Name of Person Signing Above

MASTER LICENSE SERVI
DEPARTMENT OF LICENS
P.O. BOX 9034
OLYMPIA, WA 98507-9034
Telephone: (360) 753-4401

308-
2000 82.3

UBI NUMBER 602-023-177 11

OWNER NAME (Please print clearly) CYL Enterprises, Inc

Dan's PR

UNDERGROUND STORAGE TANK ADDENDUM

(For new and retrofit tanks and change in ownership)

This form must accompany a Master Application.
Please type or print clearly in dark ink.

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ECOLOGY

Keep a copy of the completed form and the instruction sheet for future reference.

8504

OWNER INFORMATION (See page 1 of the instructions for proper codes.)

1. Tank Owner Type	A
2. Financial Responsibility Category of Tank Owner	E
3. Financial Responsibility Compliance Method	4

4. Attach the document certifying financial responsibility.

5. Attach a list of any tanks at this site that are not covered by the owner's financial responsibility. Include an explanation.

I TANK SITE INFORMATION (See pages 1 and 2 of the instructions for the proper codes.)

1. Site Number (if known)	
2. Tank Site Use Type (SIC Code)	5541

3. This application is for ☐ a new installation ☑ change owner of an existing tank ☐ a retrofit

4. Contact person at the tank site:

MR. Young T. Lim — Name
(253) 445-1754 — Phone Number

16006 92d Ave ct E — Address

Puyallup — City
Wa — State
98373 — Zip Code

Site Name: 509 Deli & Town Pump
address: 29625 Pacific Hwy S.
Federal Way WA 98003 4232

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JAN 05 2001
DEPT. OF ECOLOGY

If you need assistance through the Telecommunications Device for the Deaf, call TDD (360) 586-2788. To request this document in an alternate format for the visually impaired, call (360) 753-4401.

Printed on Recycled Paper

III INDIVIDUAL TANK INFORMATION (See page 3 of the instructions for proper codes before completing this section.)

	First Tank			Second Tank			Third Tank			Fourth Tank			Fifth Tank		
A Tank ID	1			2			3								
B Installation Date	7 11 95			7 11 95			7 11 95			1 1			1 1		
C Tank Status	A			A			A								
D Tank Material	D			D			D								
E Tank Construction	B			B			B								
F Tank Release Detection	ACF			ACF			ACF								
G Tank Tightness Testing	A			A			A								
H Tank Corrosion Protection	D			D			D								
I Spill Protection	A			A			A								
J Overfill Protection	CB			CB			CB								
K Piping Material	C			C			C								
L Piping Construction	B			B			B								
M Piping Release Detection	A			A			A								
N Piping Tightness Testing	A			A			A								
O Piping Corrosion Protection	C			C			C								
P Pumping System	A			A			A								
Compartments	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Q Substance Stored	BC			BC			BC	BC							
R Substance Use	A			A			A	A							
S Compartment Capacity	10,000			10,000			8000	4000							

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ECOLOGY

UBI # 602-023-122

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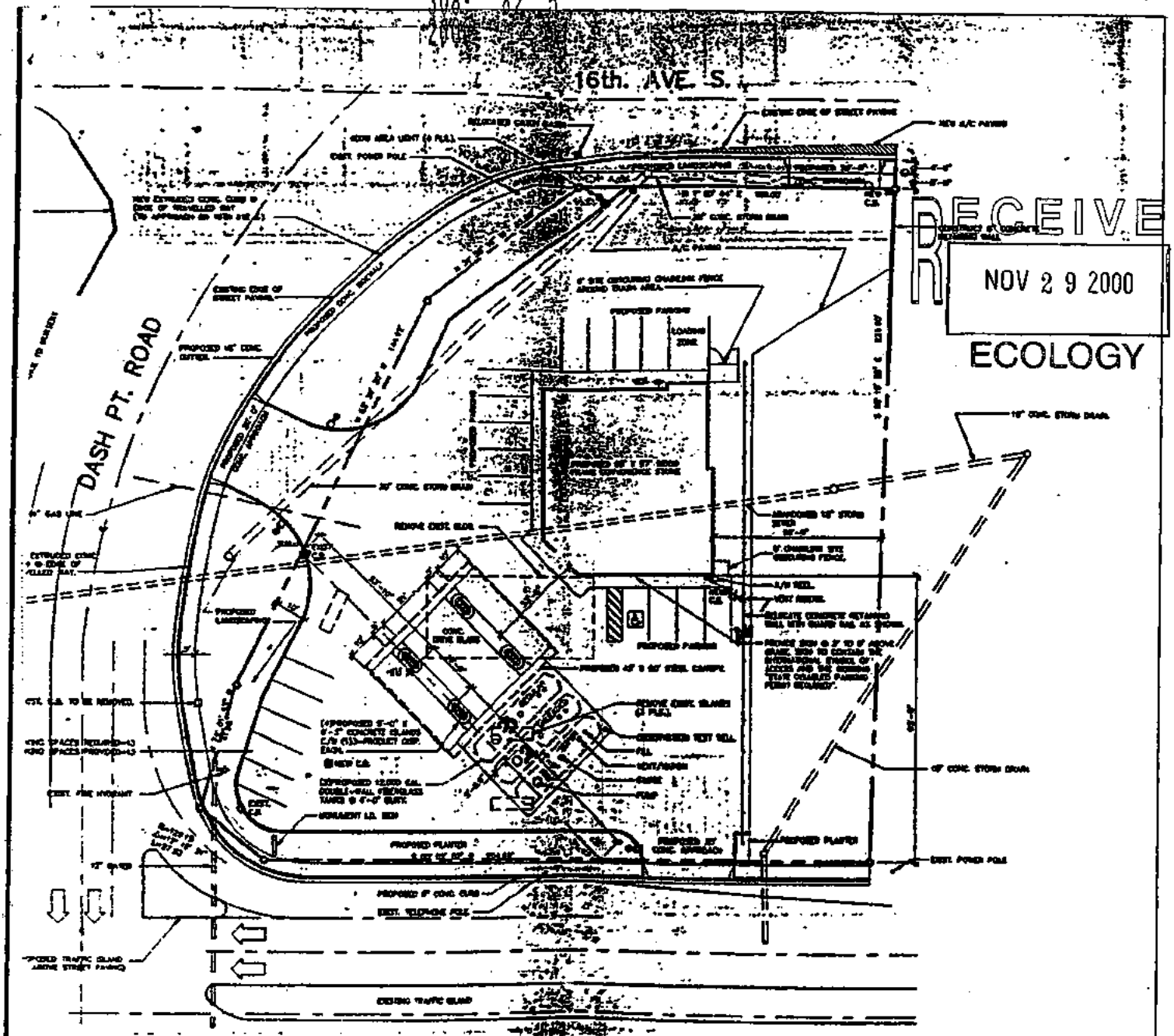
2000

308-82-5



SITE PLAN

SCALE: 1"=20'-0"

DRAWING ISSUED FOR	DATE
PERMIT	
BID	
CONSTRUCTION	
AS-BUILT DRAWING	

ROBERT H. LEE & ASSOC.

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ECOLOGY

308-82 6
2000

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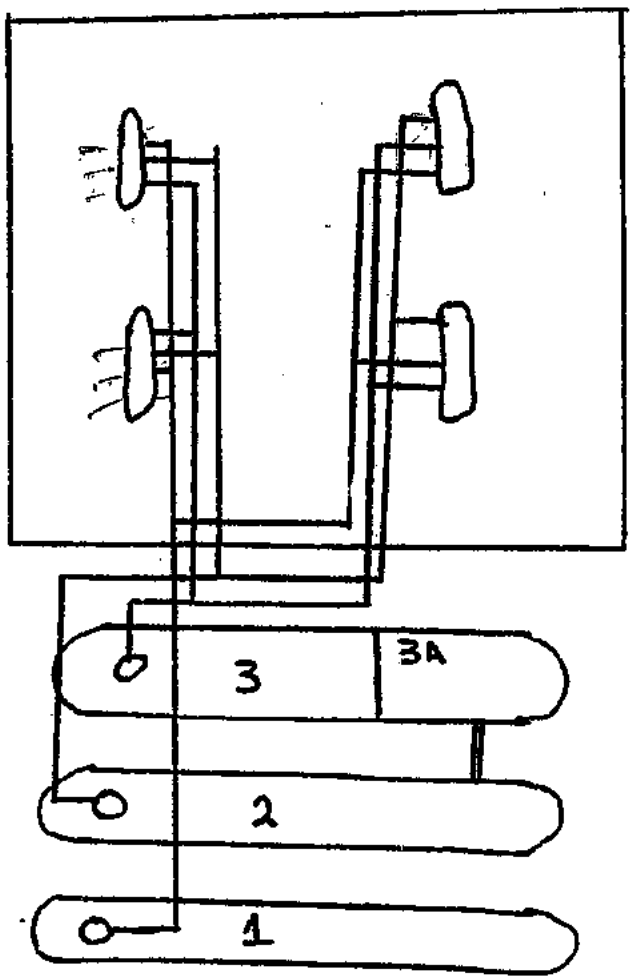
ECOLOGY

PIPING LAYOUT
504 DELI TOWN PUMP



UBI # _____

III SITE PLAN (In the space below, provide an *as built* site plan of the tank and piping installation. Include all the information requested in the instructions.)

RECEIVED
NOV 29 2000
ECOLOGY

Always contact local authorities regarding permit requirements.
You must have the installation supervisor sign the back side of this page.

UBI # 602073 177

IV INSTALLERS CERTIFICATION

I hereby certify that the installation of the new underground tank system or any upgrades or retrofits to the existing tank system listed on this form were completed according to all applicable regulations, codes and standards and that a certified supervisor was on site during all required installation activities.

Signature of Certified Supervisor

Date Signed

PRINTED Name of Person Signing Above

V OWNER/OPERATOR AGREEMENT TO TERMS AND CONDITIONS OF UST PERMIT

Owners and operators of petroleum underground storage tanks (USTs) must:

- Maintain proof of financial responsibility for taking corrective action and compensating third parties for bodily injury and property damages caused by petroleum releases. [RCW 90.76.020(1)(g), WAC 173-360-400 through 499]
- Provide release detection for petroleum USTs that can detect a release from any part of the tank and piping; must be installed, calibrated, operated and maintained according to manufacturers' instructions; and must meet the appropriate performance requirements in WAC 173-360-345 or 355. [RCW 90.76.020(1)(d), WAC 173-360-330 through 355]
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- Report, investigate and clean up any spills and overfills in accordance with WAC 173-360-375. [RCW 90.76.020(1)(e), WAC 173-360-360 through 375, WAC 173-360-399]
- Use a certified UST supervisor to perform all UST service activities: repairs, tank installation, retrofitting, tank decommissioning, tightness testing, corrosion protection installation and testing and site assessment. [RCW 90.76.020(5), WAC 173-360-600 through 630]
- Notify Ecology of intent to install a new UST system at least 30 days, but not more than 90 days, prior to installation. [RCW 90.76.020(1)(a), WAC 173-360-200(1)]
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- Do not operate an UST or accept delivery of regulated substances without a valid permit. [RCW 90.76.020(1)(c), WAC 173-360-130]
- Notify the Department of Ecology within 30 days after bringing any newly installed UST system into use. [RCW 90.76.020(1)(c), WAC 173-360-200(2)]
- Violations of these permit conditions may result in permit revocation and/or civil penalty up to $5,000 for each tank involved, for each day of the violation. [RCW 90.76.080, WAC 173-360-670, WAC 173-360-130(8)]

As the owner and/or operator of the Underground Storage Tank (UST) system described on this application, I certify that I have read and agree to abide by the foregoing terms and conditions, and that I understand that having an UST permit requires that I comply with the provisions contained in chapter 90.76 RCW, the statute governing USTs, and its implementing regulations, chapter 173-360 WAC.

Signature of Underground Storage Tank Owner

Date Signed

YOUNG TAEK LIM

PRINTED Name of Person Signing Above

NW

U0007279

WASHINGTON STATE DEPARTMENT OF ECOLOGY

UNDERGROUND STORAGE TANK
30 DAY NOTICE

See back of form for instructions
Please ☑ the appropriate box

For Office Use Only
Owner # ~~U0008504~~
Site # 008504

☒ Intent to Install ☐ Intent to Close ☐ Both

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MAR - 6 1995
DEPT. OF ECOLOGY

SITE INFORMATION:

Site ID Number (on invoice or available from Ecology if the tank is registered):

Site/Business Name: 509 DELI MART

Site Address: 29625 PACIFIC HWY S (Street) Owner/Operator Telephone: (206) 941-6600

FEDERAL WAY (City) WA (State) 98003 (ZIP-Code)

TANK INFORMATION:

TANKS TO BE CLOSED

This section to be filled out **ONLY** if tanks are being removed

Tank ID	Projected Closure Date	Tank Capacity	Substance Stored	Date tank last used	Is there product in the tank? (yes/no)	If no, date tank was pumped

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JUN 01 1995
ECOLOGY

TANKS TO BE INSTALLED

This section to be filled out **ONLY** if tanks are being installed

Tank ID	Approx. Install Date
00011	3/95
00022	3/95
00033	3/95

TANK INSTALLATION TO BE PERFORMED BY (if known)

This section to be filled out **ONLY** if tanks are being installed

Service Provider: LIBERTE ENVIRONMENTAL Contact Name: DENIS SLAGEL

Telephone: (206) 825-4588

Address: 11115 236 AV SE (Street)

ENUMCLAW (City) P.O. Box WA (State) 98022 (ZIP-Code)

TANK PERMANENT CLOSURE TO BE PERFORMED BY (if known):

This section to be filled out ONLY if tanks are being removed

Service Provider:

Contact Name:

Telephone: (___)

Address: (Street) (P.O. Box)

(State) (ZIP Code)

This form will be returned to this address

UST OWNER/ OPERATOR SRL CORP (CONTACT- ROGER HAZZARD)

MAILING ADDRESS 29625 PACIFIC HWY S (Street)

FEDERAL WAY (City) WA (State) 98321 (ZIP-Code)

TEMPORARY ~~PERMIT~~
VALID UNTIL
JUN 01 1994

Once validated by Ecology, this form serves as your temporary permit for the tanks listed above.

Please type or print information

* NOTE: PLEASE SEND ALL CORRESPONDENCE + PERMIT TO LIBERTE ENV. AT ABOVE ADDRESS.

ECY 020-33

PLEASE READ C/ EFULLY

Retur- this completed form to:

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

INSTRUCTIONS

Check the appropriate box for tank closure, tank installation, or both

SITE INFORMATION:

Fill in the site information. Be sure to include the site number for the tank closures. Include the contact telephone number so that any problems may be resolved quickly.

TANK INFORMATION:

List the tanks to be installed or closed. Please use tank ID number(s) for the tanks to be closed and assign new tank ID number(s) to the tanks being installed. **Do not use existing numbers from closed tanks.**

TANK INSTALLATION TO BE PERFORMED BY:

List the installation contractor. Firms that provide UST services MUST be licensed by Ecology. Once your completed form is received, Ecology will validate it and return it to you. This validated form is your temporary permit. A temporary permit will allow you to receive product. A new notification form must be submitted within 30 days of installation in order to receive permanent permit(s).

TANK PERMANENT CLOSURE TO BE PERFORMED BY:

List the closure contractor. Firms that provide UST services MUST be licensed by Ecology. Ask to see their license. Once a completed 30 day notice closure form is received, Ecology will place the date received on the form and return a copy to the owner.

Closure may proceed 30 days after the date stamped on the form. A site assessment is required at the time of closure unless contamination is confirmed. Any contamination must be reported within 24 hours to the appropriate Ecology Regional Office.

Please fill in the owner's name and address. **Confirmation of receipt of this form and your temporary permit will be sent to this address.**

Contact your local fire marshal and planning department prior to tank closure to find out about any additional permits that may be required by the county or other local jurisdictions. This may include the need to comply with the State Environmental Policy Act (SEPA) Rules Chapter 197-11 WAC.

Tanks exempt from notification requirements are:

Farm or residential tanks, 1100 gallons or less, used to store motor fuel for personal or farm use only. The fuel must not be for resale or used for business purposes.

Tanks used for storing heating oil that is used on the premises where the tank is located.

Tanks with a capacity of 110 gallons or less.

Equipment or machinery tanks such as hydraulic lifts or electrical equipment tanks.

Emergency overflow tanks, catch basins, or sumps.

For more information call toll free in the state of Washington
1-800-826-7716 or (206) 438-7137

Unocal Refining & M ing Division
Unocal Corporation
3131 Elliott Avenue, P.O. Box 76
Seattle, Washington 98111
Telephone (206) 281-7666

D008504

UNOCAL 76

DATE: 8/15, 1989

Underground Storage Tank Notification
Solid & Hazardous Waste Program
Department of Ecology
Mail Stop PO-11
Olympia, Washington 98504-8711

NOTIFICATION OF REMOVAL OF UNOCAL OWNED UNDERGROUND STORAGE TANKS

Three tanks will be removed on or about 9/15, 1989

at Unocal Service Station # L6227

Address: 29625-Pacific Hwy So

Federal Way, WA. 98003

The removed tanks X will, ____ will not be replaced with new underground storage tanks. -

Very truly yours,

V. L. CARLSON
Maintenance Engineer

Tanks Number 1, 2 & 4 will be removed

UNOCAL #6227
FEDERAL WAY
LUST 1622

1622/8504
1989-2006

29625 PACIFIC HWY S INCL VCP NW 1534 NFA 1/27/06

UNOCAL #6227
FEDERAL WAY
1622/8504
1989-2006

UNOCAL STATION 6227

LSI Adapt
615 Eighth Avenue South
Seattle, Washington 98104

Tel (206) 654-7045
Fax (206) 654-7048
www.lsiAdapt.com

aka FW Shell & Deli Mart
aka Federal Way Deli Mart

LUST 1622
VCP NW 1534

November 23, 2005

LSI - Adapt Job No. WA04-13165-ESA

Department of Ecology
Northwest Regional Office
Voluntary Cleanup Program
3190 160th Avenue SE
Bellevue, WA 98008-5452

Attention: Mr. Dale Myers

Subject: Request for Determination of No Further Action
Federal Way Deli Mart
29625 Pacific Highway South
Federal Way, WA 98003

ENTERED
NW 12-9
2005

Dear Mr. Meyers:

LSI - Adapt (Adapt) on behalf of Mr. Han Yung Ho is pleased to present this request for a determination of No Further Action from Ecology for the Federal Way Deli Mart in Federal Way, King County, Washington. The subject site is currently listed on the Leaking Underground Storage Tank database.

Site Description

The subject site is located at 29625 Pacific Highway South in Federal Way, King County, Washington (Section 4, Township 21 North, Range 4 East, WM).

The subject site is an irregular shaped property consisting of one tax parcel, totaling approximately 0.96 acres in size. The site currently supports a gasoline station and convenience store and associated fueling system. The building is located in the north central portion of the property (see Figure 3 – Site Plan). The current site building was reportedly built in 1995.

According to the United States Geological Survey (USGS) 7.5-minute series topographic map, "Poverty Bay" (1961 Photo revised 1994), elevation of the site is approximately 420 feet above sea level. Topographically, the building area of the subject site is generally level. The paved areas have been graded to drain to a series of catch basins. A steep slope is present adjacent to the north of the building that slopes down to drainage area at the northern property line. Regional gradient general slopes moderately down to the west/northwest to Poverty Bay.

The subject site is bordered to the north by undeveloped woodland; to the east by Pacific Highway, beyond which is an apartment complex; to the south by Dash Point Road, beyond which is a vacant commercial building and storage yard; and to the east by Redondo Way South, beyond which are a veterinary clinic/animal hospital and retail businesses. An athletic field/recreation area is present to the southwest across the intersection of Dash Point Road and Redondo Way.

Project Background

The following project history and background is a summary from information presented in several previous reports including four subsurface investigations or remedial actions and two Phase I Environmental Site Assessments. Three of the subsurface reports were prepared by GeoEngineers, Inc. (GeoEngineers) and submitted to Ecology in 1989 and 1991. The fourth subsurface report was prepared by Assessment and Remediation Consulting Services (ARCS) and has not been submitted to Ecology. The three GeoEngineers reports are titled "Report of Remedial Action Underground Storage Tank Removal, UNOCAL Service Station 6227", dated November 27, 1989, "Results of Supplemental Field Testing UNOCAL Service Station 6227" Dated January 17, 1991 and "Report of Remedial Action Underground Storage Tank Removal, UNOCAL Service Station 6227" dated April 10, 1991. The ARCS report is titled "Letter Report-Limited Phase II Investigation, Shell Service Station and Mini-Mart" dated April 9, 2001. The two Phase I reports were prepared by Adapt and dated October 17, 2005 and ARCS dated December 1, 2000. Copies of the GeoEngineers and the Limited Phase II prepared by ARCS reports are attached in Appendix C, D, E and F.

Site History

The subject site was developed with a store and two sheds/garages prior to 1936 until approximately 1969. The subject site was developed with a UNOCAL gasoline service station in 1970. The service station reportedly operated from approximately 1970 until the late 1980s. The steel underground storage tanks (USTs) associated with the 1970 UNOCAL service station were reportedly removed in 1989 and replaced with new fiberglass USTs in 1989. The 1989 USTs were reportedly removed in 1990/91 and were not replaced. The site was reportedly occupied by an automobile sales facility and U-Haul Company during the early 1990s. The 1970 UNOCAL gasoline service station building was reportedly demolished in 1994/95. The current underground storage tanks and fueling system were reportedly installed in 1994 as part of the construction for the existing convenience store which was reportedly built in 1995. The 1970 era gasoline service station was operated by Union Oil from 1970 until late 1980s/early 1990s. The current gasoline station is a Shell branded station.

USTs removal activities in both 1989 and 1990/91 documented petroleum impacts to soil beneath the USTs and former station building. According to the UST removal reports prepared by GeoEngineers and summarized below, approximately 800 to 900 cubic yards of petroleum impacted soil were excavated and transported off site for disposal in 1989 and 1991.

Previous Characterization and Remedial Work

"Report of Remedial Action Underground Storage Tank Removal, UNOCAL Service Station 6227", dated November 27, 1989

Report Summary
According to the GeoEngineers 1989 UST removal report, two 10,000-gallon gasoline, one 550-gallon waste oil and one-550-gallon heating oil USTs were removed from the subject site in September 1989. GeoEngineers documented petroleum impacts to soil beneath the gasoline and waste oil USTs. Analytical results from soil samples are summarized in Table 1 attached in Appendix A. According to the report approximately 600 cubic yards of petroleum impacted soil was removed from beneath the gasoline USTs and 100 cubic yards of petroleum impacted soil was removed from beneath and in the vicinity of the former waste oil UST.

GeoEngineers collected confirmation soil samples from the lateral and vertical extent of the excavations. Analytical results from soil samples collected from beneath and from the sidewalls of the gasoline USTs excavation did not identify petroleum impacts above regulatory cleanup levels in place in 1989. Confirmation sampling beneath and in the sidewalls of the former waste oil UST documented 14,933 parts per million [ppm] Total Petroleum Hydrocarbons [TPH] in north sidewall, adjacent to the former building and 208 ppm TPH in the bottom of the excavation at approximately 8.5 feet. Reported concentrations at the bottom of excavation were above cleanup levels in place in 1989 but would be below current cleanup levels for diesel/oil. The documented concentrations in the north sidewall exceed both previous and current cleanup levels. Analytical testing of the waste oil UST included testing for halogenated (chlorinated) volatile compounds and did not document any halogenated compounds above laboratory reporting limits.

The GeoEngineers UST removal report concluded that to remove the documented contamination in the north wall of the waste oil UST the service station building would have to be removed. They also concluded that the extent of the impacted soil in the vicinity of the waste oil UST was of limited extent. *"It is our opinion therefore; that this contamination does not represent a hazard to human health or the environment and that removal of the building is not warranted."*

The GeoEngineers report stated that three new USTs (two 12,000-gallon gasoline and one 520-gallon waste oil) were installed in the former gasoline and waste oil UST excavations in 1989.

"Results of Supplemental Field Testing UNOCAL Service Station 6227" Dated January 17, 1991

Report Summary
According to the GeoEngineers 1991 Supplemental Field Testing report one boring/vapor well was installed in August 1990, west and slightly south of the former waste oil UST to document conditions in the vicinity of the former waste oil and heating oil USTs and to assess whether shallow groundwater exists beneath the subject site. The vapor well was reportedly advance to a total depth of 33 feet below ground surface. The report stated that the upper 25 feet was fill material "consisting of sand and gravel with variable amounts of silt." The lower 8 feet of the vapor well was reportedly very dense native soils. GeoEngineers documented a slight sheen on soil from 17 to 23 feet below ground surface and a TPH concentration of 420 ppm in a soil sample from approximately 23 feet bgs using EPA Method TPH 418.1. This reported level was

above the cleanup levels in effect in 1990 but below current cleanup levels for diesel and/or heavy oil. GeoEngineers recommended that based on their findings from the vapor well boring and their previous the November 1989 UST removal report that additional soil be excavated from the waste oil UST location and that exploratory excavations be completed in the vicinity of the vapor well to identify the extent of petroleum impacted soil documented in the vapor well boring.

"Report of Remedial Action Underground Storage Tank Removal, UNOCAL Service Station 6227" dated April 10, 1991

Report Summary

The three fiberglass USTs that were installed in 1989 were reportedly removed from the subject site in December 1990 and January 1991. Analytical results from soil samples collected from the bottom and sidewalls of the gasoline UST excavation reportedly did not document petroleum contamination. However, elevated levels of lead (460 ppm and 770 ppm) were identified in soil samples collected from the bottom of the gasoline UST excavation. Petroleum impacted soil was documented in both the waste oil UST (TPH at 210 ppm from a bottom sample) and product line (Gasoline at 110 ppm from product line trench) excavations at levels above regulatory cleanup levels in effect in 1991. Approximately 110 cubic yards of soil were reportedly excavated from the gasoline, waste oil and product line excavations and transported off-site for disposal at an approved facility. Confirmation soil samples collected by GeoEngineers from the bottom and sidewalls of the gasoline USTs, the waste oil UST and the product line excavations did not document petroleum hydrocarbons or lead above laboratory reporting limits or regulatory cleanup levels in effect in 1991. Analytical results are summarized in Table 1 attached in Appendix A.

The report indicated that approximately 180 cubic yards of soil was excavated from the vicinity of the vapor well installed in August 1990 to a depth of approximately 18 feet bgs. The analytical results for soil samples collected from the vapor well excavation did not document petroleum hydrocarbons above 1991 cleanup levels except one sample at approximately 16 feet bgs. A deeper sample from approximately 18 feet bgs reportedly did not exhibit petroleum hydrocarbons above 1991 cleanup levels. Based on the findings, GeoEngineers concluded "*As indicated in previous reports, the service station facilities are constructed on imported fill placed at the head of a ravine. It is possible that the concentrations of TPH detected in soil samples from the vapor well excavation and the sample obtained from a depth of 23 feet in the vapor well boring are the result of interferences caused by organic matter present in the imported fill. In our opinion, petroleum-related contamination of regulatory significance is not present in the location of the former vapor well at this site.*"

"Letter Report-Limited Phase II Investigation, Shell Service Station and Mini-Mart" dated April 9, 2001

Report Summary

ARCS conducted a Limited Phase II Investigation at the existing Shell Station and Mini-Mart. According to the report, four soil borings were advanced at the subject site using direct-push drilling method. Borings were located to the north of the existing USTs and to the southwest of the western dispenser island. A fourth boring was located at the base of the slope to the north of the subject site building adjacent to a drainage bioswale. The borings were advanced to between 9 and 18 feet below ground surface. The ground surface adjacent to the bioswale is

reportedly approximately 15 to 20 feet below the ground surface of the site building and parking areas. ARCS stated that "no staining or fuel-type odors were observed in the soils recovered from the borings." According to the ARCS report analytical results did not exhibit petroleum hydrocarbons above the laboratory reporting limits. The ARCS report concluded that "Based on field observations and laboratory data, there are no obvious indications of a release at this site. At this time, no additional investigation activities are recommended."

Site Closure

Data collected during the 1989 and 1990/91 UST removal, remedial and 2001 characterization studies conducted by GeoEngineers and ARCS show that current soil conditions beneath the subject site meet current MTCA Method A Cleanup levels for lead, TPH-G/BTEX and TPH-D/O. Vertical and lateral confirmatory soil samples collected from the bottoms and from sidewalls of the excavations for the former gasoline and waste oil USTs did not document TPH-G/BTEX and TPH-D/O above current MTCA Method A cleanup levels. Vertical and lateral confirmatory soil samples from the vapor well excavation indicate that the residual TPH-D/O impacted soils in the vicinity of the former vapor well, are below current MTCA Method A Cleanup levels.

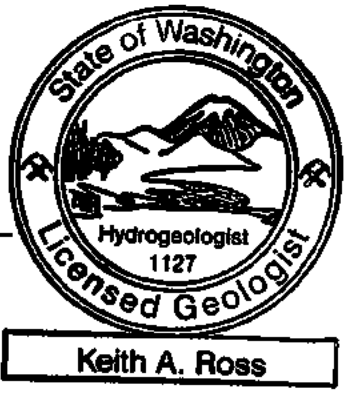
Groundwater was not been encountered in any of the borings to maximum depth of 33 feet below ground surface or in any of the excavations to depths of 18 feet below ground surface. Further, the analytical results from the bottom of the excavations, and the exploratory borings indicate that any soils with residual petroleum compounds are below current MTCA Method A Cleanup levels and are protective of groundwater.

The three GeoEngineers reports were submitted to the Toxics Clean-up Program at Ecology for review and comment in 1989 and 1991. The reports were reviewed by Mr. Joseph Hickey of the Toxics Cleanup Program. Mr. Hickey issued a letter dated April 22, 1991 that indicated concurrence with the GeoEngineers conclusion from the 1991 UST removal report which stated that "*In our opinion, petroleum-related contamination of regulatory significance is not present in the location of the former vapor well at this site.*" However, the site owners did not officially request a No Further Action determination in 1991 and the April 22, 1991 letter does not appear to be a determination of no further action letter and the subject site is still listed on the LUST database as reported cleaned up. As such, Adapt, on behalf of Mr. Han Yung Ho, requests that Ecology issue a determination of No Further Action and that the site be removed from Ecology's Leaking Underground Storage Tank database.

Should you have any questions concerning this letter, or if we can assist you in any way, please feel free to contact us at (206) 654-7045.

Respectfully Submitted,

LSI - Adapt



Keith A. Ross, L.H.G.
Senior Project Manager

Daryl S. Petrarca, L.H.G.

KAR/kar

Attachments:
Appendix A - Table 1: Analytical Results: Soil

Appendix B - Figure 1: Location/Topographic Map
Figure 2: Site Plan (GeoEngineers November 27, 1989 UST Removal)
Figure 3: Site Plan (GeoEngineers April 10, 1991 UST Removal)
Figure 4: Site Plan (ARCs April 9, 2001 Limited Phase II)

Appendix C - Report Of Remedial Action Underground Storage Tank Removal Unocal Service Station 6227, King County, Washington, November 27, 1989
Appendix D – Results Of Supplemental Field Testing Unocal Service Station 6227, King County, Washington, January 17, 1991
Appendix E – Report Of Remedial Action Underground Storage Tank Removal Unocal Service Station 6227, King County, Washington, April 10, 1991
Appendix F – Letter Report Limited Phase Ii Investigation Shell Service Station And Mini-Mart 29625 Pacific Highway South, Federal Way, Washington
Appendix G – Ecology April 22, 1991 Letter from Mr. Joseph Hickey

APPENDIX A

TABLES

Table 1: Analytical Results: Soil

Sample ID	Date	Depth (ft)	PID	Reported Sample Location	TPH (EPA 418.1)	Gasoline	EPA Method 8020 (ppm)				Diesel	Lead
							B	T	E	X		
GeoEngineers November 27, 1989 UST Removal Soil Sample Results												
Gasoline USTs and Product Line Excavation												
1	9/12/89	Composite	180	Composite of soil stockpile (clean)	28.1	--	<0.001	<0.001	<0.001	0.075	--	--
2	9/12/89	Composite	110	Composite of soil stockpile (contaminated)	382	--	0.077	0.73	0.44	3.27	--	--
3	9/12/89	18	<100	Base of excavation, beneath unleaded gasoline tank	<5.0	--	<0.001	<0.001	<0.001	0.138	--	--
4	9/12/89	18	<100	Base of excavation, beneath super unleaded gasoline tank	21.7	--	<0.001	0.0041	0.0026	0.094	--	--
5	9/12/89	17	<100	East wall	<5.0	--	<0.001	<0.001	<0.001	0.004	--	--
6	9/12/89	17	<100	North wall	31.2	--	<0.001	<0.001	<0.001	<0.001	--	--
7	9/12/89	17	<100	West wall	<5.0	--	<0.001	<0.001	<0.001	<0.001	--	--
8	9/12/89	16	<100	South wall	<5.0	--	<0.001	0.0012	<0.001	0.0062	--	--
9	9/12/89	19	<100	Base of excavation, beneath super unleaded gasoline tank	<5.0	--	<0.001	<0.001	<0.001	0.0017	--	--
10	9/12/89	2	<100	Beneath product lines	<5.0	--	<0.001	<0.001	<0.001	0.0016	--	--
Waste and Heating Oil USTs Excavation												
1a	9/14/89	6	<100	Base of excavation, beneath heating oil tank	561	--	--	--	--	--	--	--
2a	9/14/89	6	<100	Beneath waste oil tank	NT	--	--	--	--	--	--	--
3a	9/14/89	4	<100	West wall	7.9	--	--	--	--	--	--	--
4a	9/14/89	3	200	North wall	14,933	--	---	--	--	--	--	--
5a	9/14/89	3.5	<100	South wall	12.0	--	--	--	--	--	--	--
6a	9/14/89	4	<100	East wall	9.3	--	--	--	--	--	--	--
7a	9/14/89	Composite	<100	Composite of soil from excavation	280	--	--	--	--	--	--	--
8a	9/14/89	8.5	<100	Base of excavation, beneath waste oil tank	208	--	--	--	--	--	--	--
GeoEngineers April 10, 1991 UST Removal and Vapor well soil sample												
Vapor Well sample July Supplemental field testing												
VP-1	7/25/90	23	<100	Vapor well soil sample	420	--	<0.025	<0.025	<0.025	<0.025	--	--
Waste oil Tank Excavation												
WO-1	12/13/90	12.0	<100	North base, waste oil tank excavation	210	--	--	--	--	--	<5.0	--
WO-2	12/13/90	7.0	<100	North wall, waste oil tank excavation	21	--	--	--	--	--	<5.0	--
WO-3	12/13/90	2.0	<100	North wall, waste oil tank excavation	28	--	--	--	--	--	<5.0	--
WO-4	12/13/90	12.0	<100	West base, waste oil tank excavation	<5.0	--	--	--	--	--	<5.0	--
WO-5	12/13/90	12.0	<100	South base, waste oil tank excavation	8	--	--	--	--	--	<5.0	--
WO-6	12/13/90	13.0	<100	Central base, waste oil tank excavation	21	--	--	--	--	--	<5.0	--
WO-7	12/13/90	12.0	<100	East base, waste oil tank excavation	26	--	--	--	--	--	<5.0	--
WO-8	12/13/90	Composite	<100	Composite from waste oil tank excavation	55	--	--	--	--	--	<5.0	--
WO-8	12/13/90	12.5	<100	North base, waste oil tank excavation	47	--	--	--	--	--	<5.0	--
Vapor Well Excavation												
VW-1	1/9/91	13.0	<100	Vapor well test pit	170	--	--	--	--	--	<5.0	--
VW-2	1/9/91	16.0	<100	Vapor well test pit	280	--	--	--	--	--	<5.0	--
VW-3	1/10/91	18.0	<100	Vapor well test pit	33	--	--	--	--	--	<5.0	--
VWSP-1	1/10/91	Composite	<100	Composite from vapor well excavation	34	--	--	--	--	--	<5.0	--
VWSP-2	1/10/91	Composite	<100	Composite from vapor well excavation	12	--	--	--	--	--	<5.0	--
VWSP-3	1/10/91	Composite	<100	Composite from vapor well excavation	50	--	--	--	--	--	<5.0	--
Gasoline UST Excavation												
G-1	12/31/90	13.0	<100	South base, gas tank excavation	--	<5.0	<0.025	<0.025	<0.025	<0.025	<5.0	<10
G-2	12/31/90	14.0	<100	Southwest base, gas tank excavation	--	<5.0	<0.025	<0.025	<0.025	<0.025	<5.0	<10
G-3	12/31/90	14.0	<100	North base, gas tank excavation	--	<5.0	<0.025	<0.025	<0.025	<0.025	<5.0	770
G-4	12/31/90	13.0	<100	Northwest base, gas tank excavation	--	<5.0	<0.025	<0.025	<0.025	<0.025	<5.0	460
G-5	12/31/90	13.0	<100	East base, gas tank excavation	--	<5.0	<0.025	<0.025	<0.025	<0.025	<5.0	<10
G-6	1/31/91	17.0	<100	North base, gas tank excavation	--	<5.0	--	--	--	--	<5.0	14.8
G-7	1/31/91	17.0	<100	Northwest base, gas tank excavation	--	<5.0	--	--	--	--	<5.0	23.4

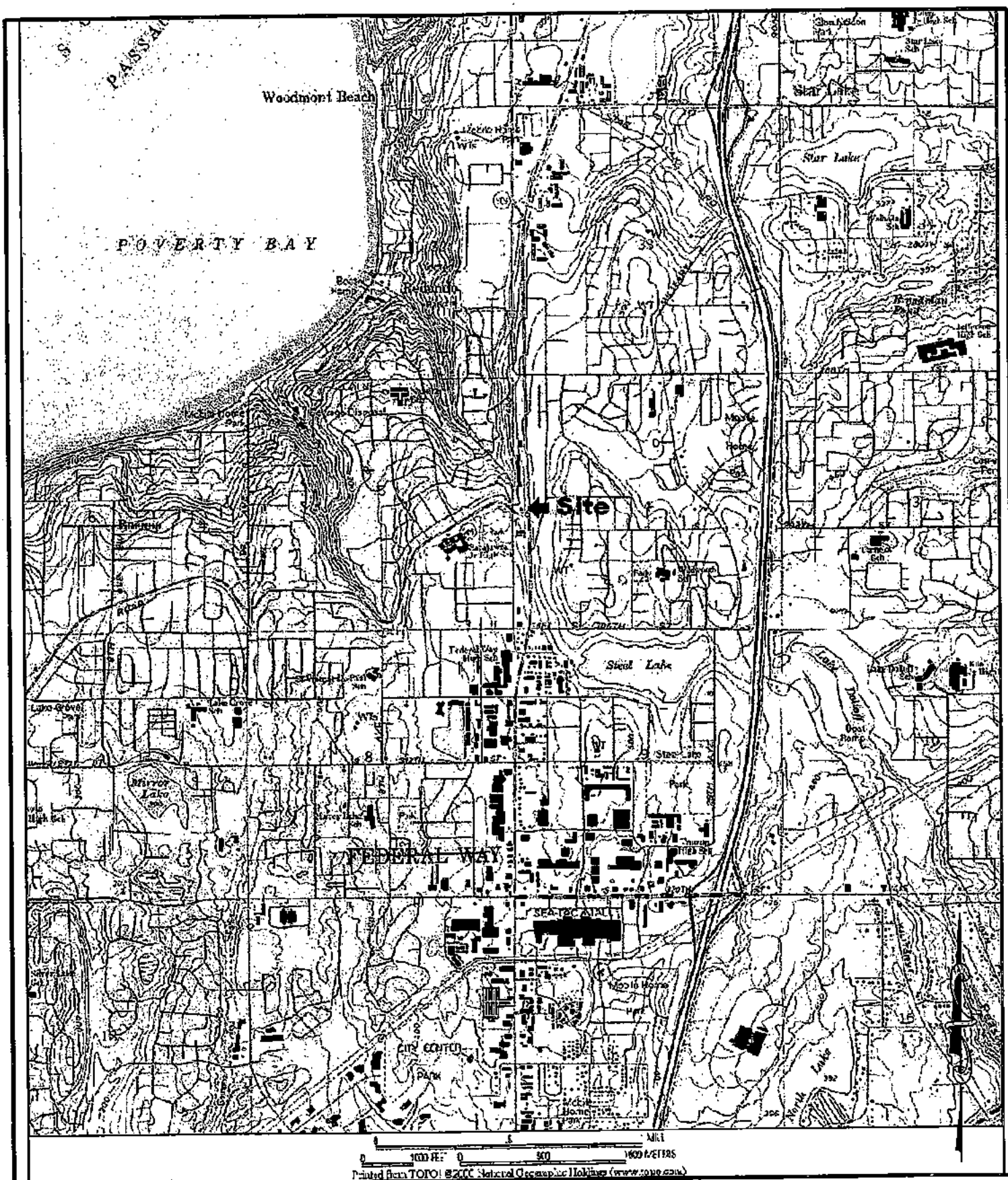
Table 1: Analytical Results: Soil

Sample ID	Date	Depth (ft)	PID	Reported Sample Location	TPH (EPA 418.1)	Gasoline	EPA Method 8020 (ppm)				Diesel	Lead
							B	T	E	X		
G-8	1/31/91	17.0	<100	Central base, gas tank excavation	--	<10.0	<0.05	<0.05	<0.05	<0.05	<10.0	11.0
SP-1	12/31/90	Composite	<100	Composite from gas tank excavation	--	<5.0	<0.025	<0.025	<0.025	<0.025	<5.0	<10
SP-2	12/31/90	Composite	<100	Composite from gas tank excavation	--	<5.0	<0.025	<0.025	<0.025	<0.025	<5.0	--
G-SP-A	1/9/91	Composite	<100	Composite from gas tank excavation	--	<5.0	<0.025	<0.025	<0.025	<0.025	<5.0	--
G-SP-B	1/9/91	Composite	<100	Composite from gas tank excavation	--	<5.0	<0.025	<0.025	<0.025	<0.025	<5.0	<10
GSP-5	1/30/91	Composite	<100	Composite from gas tank excavation	--	<5.0	--	--	--	--	<5.0	<1.2
GSP-6	1/30/91	Composite	<100	Composite from gas tank excavation	--	<5.0	--	--	--	--	<5.0	<1.2
GSP-7	1/30/91	Composite	<100	Composite from gas tank excavation	--	<5.0	--	--	--	--	<5.0	2.8
GSP-8	1/31/91	Composite	<100	Composite from gas tank excavation	--	<5.0	--	--	--	--	<5.0	44.2
Product Line Excavation												
PL-1	12/31/90	3.0	<100	South Island, product line excavation	--	<5	<0.025	<0.025	<0.025	<0.025	<5.0	--
PL-2	12/31/90	2.5	<100	South Island, product line excavation	--	<5	<0.025	<0.025	<0.025	<0.025	<5.0	--
PL-3(5)	12/31/90	3.0	<100	Northwest Island, product line excavation	--	110	<0.025	<0.025	<0.025	1.6	<5.0	--
PL-4	12/31/90	3.0	<100	Northwest Island, product line excavation	--	<5	<0.025	<0.025	<0.025	<0.025	<5.0	--
PL-5	12/31/90	2.5	<100	Northwest Island, product line excavation	--	<5	<0.025	<0.025	<0.025	<0.025	<5.0	--
PL-6	1/9/91	2.0	<100	Northwest Island, product line excavation	--	<5	<0.025	<0.025	<0.025	<0.025	<5.0	<10
PL-7	1/9/91	2.0	<100	Northwest Island, product line excavation	--	<5	<0.025	<0.025	<0.025	<0.025	<5.0	--
PL-8	1/9/91	1.5	<100	Northwest Island, product line excavation	--	<5	<0.025	<0.025	<0.025	<0.025	<5.0	--
PL-SP	1/9/91	Composite	<100	Composite from product line excavation	--	<5	<0.025	<0.025	<0.025	<0.025	<5.0	--
ARCS Limited Phase II Investigation												
FWS-SB1-18'	3/3/01	18	--	Boring B1 at 18 feet bgs	--	<5	<0.05	<0.05	<0.05	<0.05	<0.05	--
FWS-SB2-15'	3/3/01	15	--	Boring B2 at 15 feet bgs	--	<5	<0.05	<0.05	<0.05	<0.05	<0.05	--
FWS-SB2-18'	3/3/01	18	--	Boring B2 at 18 feet bgs	--	<5	<0.05	<0.05	<0.05	<0.05	<0.05	--
FWS-SB3-5'	3/3/01	5	--	Boring B3 at 5 feet bgs	--	<5	<0.05	<0.05	<0.05	<0.05	<0.05	--
FWS-SB4-16'	3/3/01	16	--	Boring B4 at 16 feet bgs	--	<5	<0.05	<0.05	<0.05	<0.05	<0.05	--
Current MTCA Method A Cleanup Levels					2,000 (Heavy oil)	30 (100)	0.03	7	6	9	2000	250

ppm = parts per million
-- = sample not tested for the listed analyte or result not reported.
<5 = Indicates the listed analyte was not detected above standard laboratory reporting limits.
Gasoline and Diesel Range Petroleum analyzed using EPA 8015 modified

APPENDIX B

FIGURES



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615 - 8th Avenue South
Seattle, Washington 98104

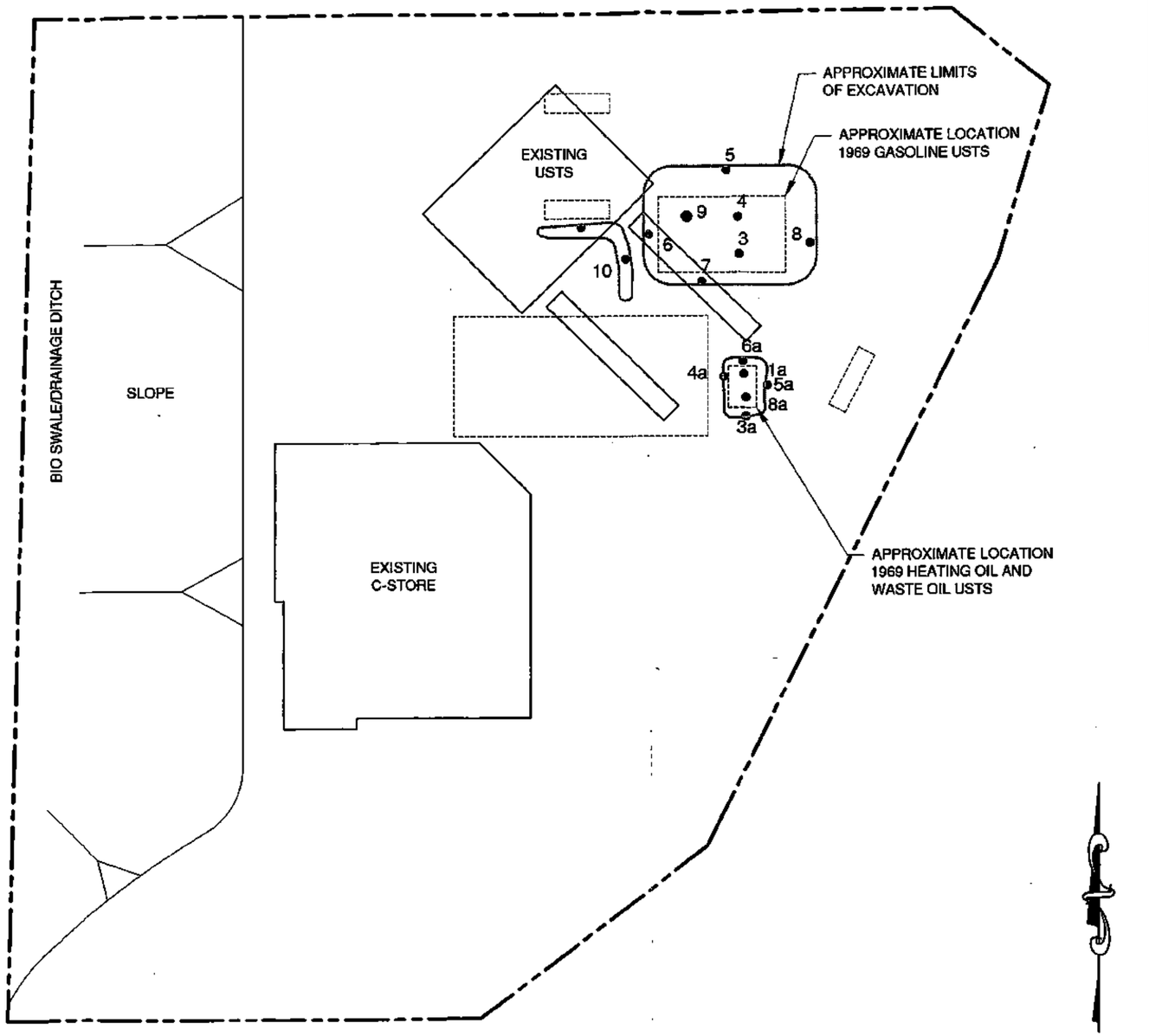
Tel (206) 654-7045
Fax (206) 654-7048

FIGURE 1 - Location/Topographic Map

Project : Federal Way Shell
Location : 29625 Pacific Highway
Federal Way, WA 98003
Client : Business Loan Express (Seattle)
Project No : WA05-13165-ESA **Date** : 11/04/05

LEGEND:

- EXISTING BUILDING, DISPENSERS AND USTS
- FORMER BUILDING, DISPENSERS AND USTS
1 ● - GEO ENGINEERS SOIL SAMPLE NUMBER AND APPROXIMATE LOCATION



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Seattle, Washington 98104
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Fax (206) 654-7048

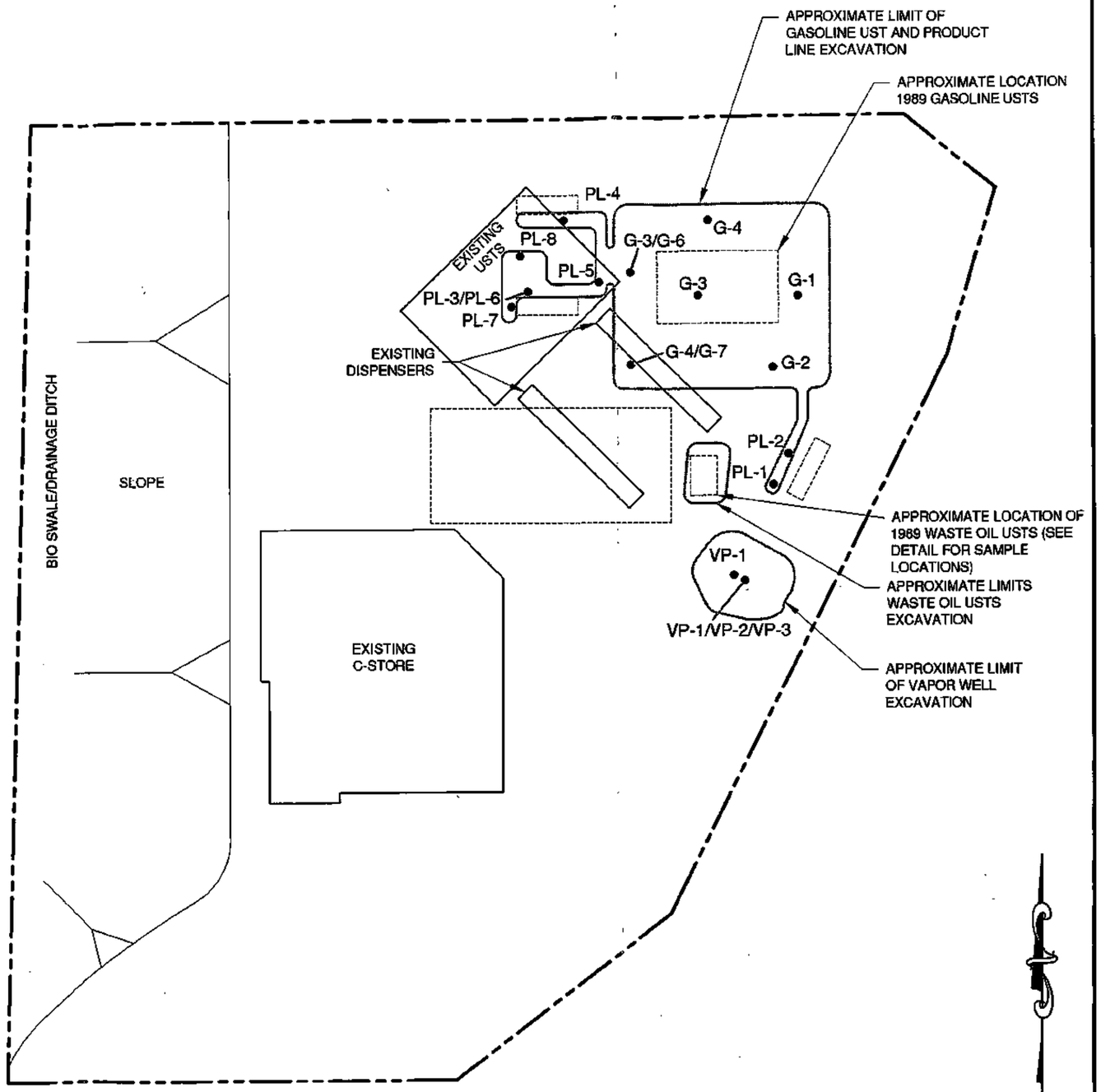
FIGURE 2 - Soil Sample Location (Geo Engineers 1989 UST Removal)

Project : Federal Way Shell
Location : 29625 Pacific Highway
Federal Way, WA 98003
Client : Business Loan Express (Seattle)
Project No : WA05-13165-ESA **Date** : 11/04/05

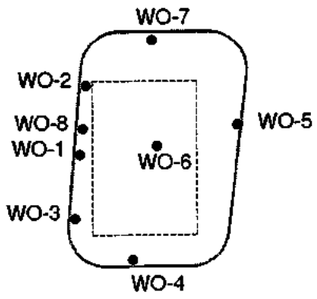
LEGEND:

- EXISTING BUILDING, DISPENSERS AND USTS
- FORMER BUILDING, DISPENSERS AND USTS

G-1 ● - GEO ENGINEERS SOIL SAMPLE NUMBER AND APPROXIMATE LOCATION



WASTE OIL SAMPLE LOCATION DETAIL



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Seattle, Washington 98104

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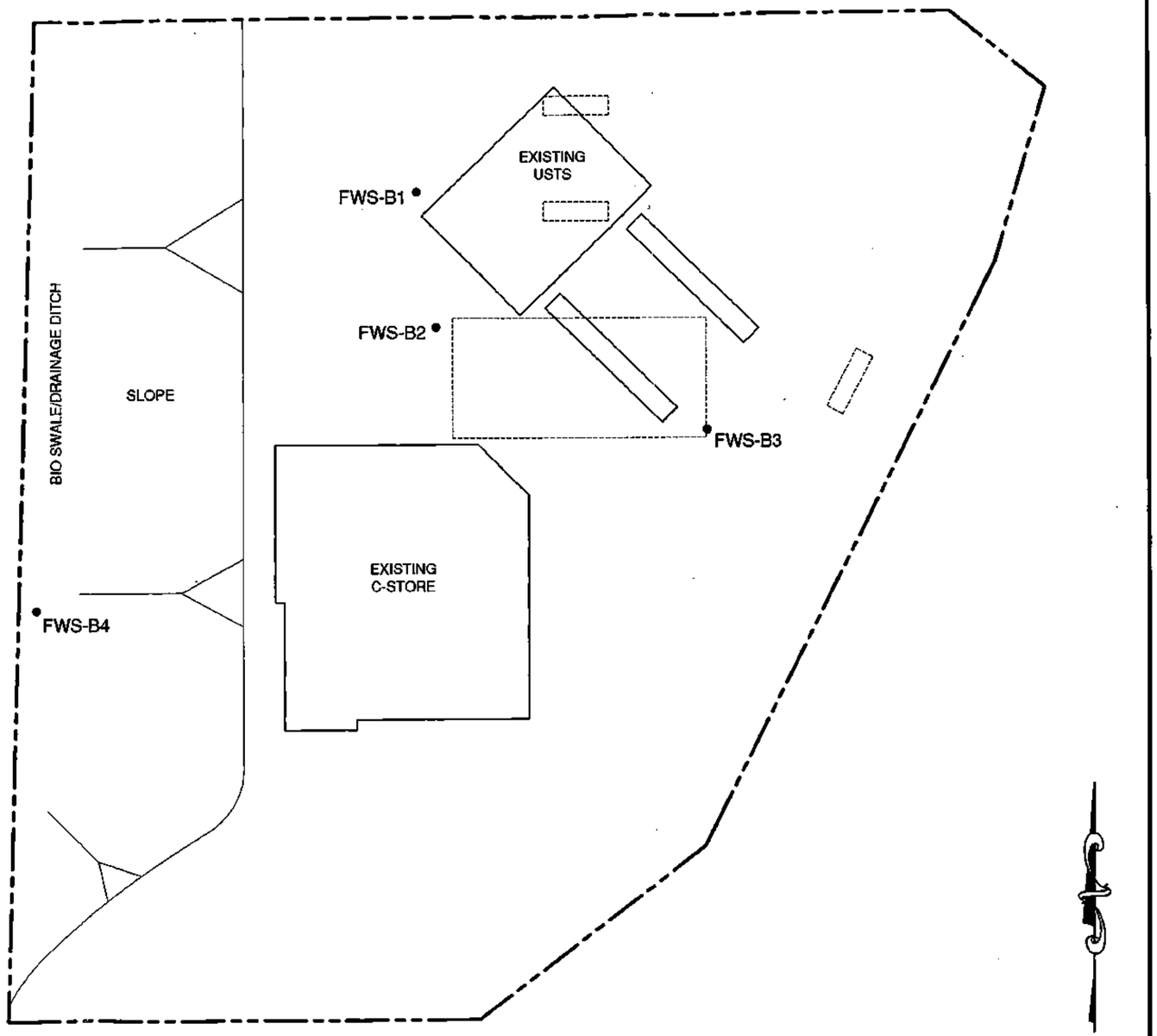
FIGURE 3 - Soil Sample Location (Geo Engineers 1991 UST Removal)

Project : Federal Way Shell
Location : 29625 Pacific Highway
Federal Way, WA 98003
Client : Business Loan Express (Seattle)
Project No : WA05-13165-ESA **Date** : 11/04/05

LEGEND:

- EXISTING BUILDING, DISPENSERS AND USTS
- FORMER BUILDING, DISPENSERS AND USTS

FWS-B1 ● - NUMBER AND APPROXIMATE LOCATION OF ARCS PHASE II BORING



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Seattle, Washington 98104
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FIGURE 4 - Boring Location (ARCS 2001 Phase II)

Project : Federal Way Shell
Location : 29625 Pacific Highway
Federal Way, WA 98003
Client : Business Loan Express (Seattle)
Project No : WA05-13165-ESA Date : 11/04/05

APPENDIX C

REPORT OF REMEDIAL ACTION UNDERGROUND STORAGE TANK REMOVAL UNOCAL SERVICE STATION 6227, KING COUNTY, WASHINGTON NOVEMBER 27, 1989

RECEIVED
NOV 29 1989
DEPARTMENT OF ECOLOGY
NORTHWEST REGION

REPORT OF REMEDIAL ACTION
UNDERGROUND STORAGE TANK REMOVAL
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

GeoEngineers

Consulting Geotechnical
Engineers and Geologists

November 27, 1989

Unocal
P. O. Box 76
Seattle, Washington 98111

Attention: Mr. Gary Gunderson

We are submitting five copies of our report for environmental monitoring during removal of the underground fuel tanks at Unocal Service Station 6227 in King County, Washington. Our services were authorized verbally by Mr. Leigh Carlson on September 7, 1989. Contractual terms for our services are included in Blanket Contract B1982A.

We appreciate the opportunity to be of continued service to Unocal. Please call if you have any questions regarding this report.

Yours very truly,

GeoEngineers, Inc.

James A. Miller, P.E.
Principal

JF:JAM:db

cc: Mr. Joe Hickey
Washington Department of Ecology
4350 150th Avenue Northeast
Redmond, Washington 98052

File No. 0161-041-B04

GeoEngineers, Inc.
2405 140th Ave. NE, Suite 105
Bellevue, WA 98005
Telephone (206) 746-5200
Fax. (206) 746-5068

Geo Engineers

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GeoEngineers

REPORT OF REMEDIAL ACTION
UNDERGROUND STORAGE TANK REMOVAL
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

INTRODUCTION

This report summarizes the results of our observations during the removal of the underground fuel storage tanks at the site of Unocal Service Station 6227 near Federal Way in King County, Washington. The site is located northwest of the intersection between Pacific Highway South and Dash Point Road, as shown on the Vicinity Map, Figure 1. The general layout of the site is shown on the Site Plan, Figure 2.

Two 10,000-gallon steel gasoline storage tanks, one 550-gallon steel waste oil tank and one 550-gallon steel heating oil tank were removed from the site between September 12 and 14, 1989. The steel gasoline storage tanks were replaced by two 12,000-gallon double-wall fiberglass-coated steel underground storage tanks. The steel waste oil tank was replaced with a 520-gallon double-wall fiberglass-coated steel tank. The steel heating oil tank was removed but not replaced.

The purpose of our services was to observe and evaluate subsurface soil conditions in the excavations, and to develop a remediation plan, if necessary. GeoEngineers' scope of services completed for this project is listed below.

1. Observe and document the excavation of the four underground storage tanks at the site.
2. Obtain soil samples from the limits of the storage tank excavations for chemical analysis of petroleum-related contaminants. Field screening was conducted on each soil sample for evidence of contamination using visual, water sheen and volatile organics headspace screening methods. These methods are described in Appendix A.
3. Obtain one soil sample for chemical analysis from beneath a segment of the product lines that was exposed during repair of a broken water line.

4. Obtain composite samples for chemical analyses from soil removed from the excavations as required for disposal at a landfill.
5. Evaluate the field and laboratory data with regard to existing regulatory concerns.

SOIL EXCAVATION AND SAMPLING

GASOLINE STORAGE TANK EXCAVATION

Joe Hall Construction Inc. (Joe Hall) removed the two gasoline storage tanks on September 12, 1989 from the locations shown in Figure 2. GeoEngineers was present to observe the tank removal activities and to obtain soil samples. Very minor evidence of rust and corrosion was observed on the two storage tanks.

Ground water was not encountered in the excavation. The excavation extended to a depth of 18 feet in the southern portion and 19 feet in the northern portion. Backfill surrounding the tanks consisted of sandy gravel. Fine to medium gravelly sand interbedded with thin layers of gravel and cobbles was encountered in the walls of the gasoline tank excavation to a depth of 18 feet. The gravelly sand unit is underlain by silty sand with occasional gravel.

Physical evidence of petroleum-related contamination was detected in the backfill material in the vicinity of the fill port for the super unleaded gasoline storage tank. Approximately 600 cubic yards of contaminated backfill was transported to Fife Sand and Gravel for aeration. Non-contaminated backfill was transported to Fife Sand and Gravel for use as fill material at other locations. The excavation was lengthened on September 12 to accommodate the larger gasoline storage tanks. The final limits of the excavation are shown in Figure 2.

Seven soil samples (Samples 3 through 9) were obtained from the limits of the completed excavation. Sample 1 was obtained from the non-contaminated backfill removed from the tank excavation and Sample 2 was collected from the contaminated backfill that was transported to Fife Sand and Gravel. All of these soil samples were analyzed for the presence of total petroleum hydrocarbons (TPH by EPA Method 418.1) and for benzene, ethylbenzene, toluene and xylenes (BETX by EPA Method 8020). The sample

locations are shown in Figure 2. Analytical results are summarized in Table 1. Laboratory reports for the soil samples are included in Appendix B.

A section of the product lines was exposed during tank replacement operations to facilitate the repair of a broken water line. The location of the water line excavation is shown on Figure 2. Two discrete soil samples were obtained from beneath the exposed product lines and composited. This composite sample (Sample 10) was submitted for laboratory analysis of BETX and TPH.

The current Washington State Department of Ecology (Ecology) cleanup guidelines for petroleum-contaminated soil are 200 ppm TPH, 660 ppb (.66 ppm) benzene, 14 ppm ethylbenzene and 143 ppm toluene. Test results indicated that concentrations of benzene, ethylbenzene, toluene and TPH were either nondetected or were less than current Ecology cleanup guidelines (Table 1) in the soil samples obtained from the limits of the gasoline storage tank excavation, from beneath the exposed product line and from the non-contaminated soil that was transported to Fife Sand and Gravel for use as fill. A TPH concentration greater than Ecology cleanup guidelines was detected in Sample 2, obtained from the contaminated backfill material.

WASTE OIL/HEATING OIL TANKS EXCAVATION

The waste oil and heating oil tanks were removed by Joe Hall on September 14, 1989. Minor evidence of corrosion was noted on both tanks. The two small-diameter copper pipes that serve as heating oil supply and return pipes were encountered 2.3 feet below the asphalt surface layer in the north wall of the excavation. Petroleum-like odor and staining were noted in the soil surrounding these two pipes.

Six soil samples (Samples 1a through 6a) were obtained from the initial limits of the waste oil/heating oil tanks excavation. Sample 7a was a composite sample obtained from the backfill material removed from the excavation and transported to Fife Sand and Gravel for temporary storage. Approximately 100 cubic yards of backfill from the waste oil/heating oil tanks excavation was transport to Fife Sand and Gravel. Soil sample locations are indicated on Figure 2.

Field screening of soil samples obtained from the limits of the excavation indicated the possible presence of heavier hydrocarbon contamination in the four walls and floor of the excavation. Because the service station building is located immediately north and a service island concrete slab immediately south of the excavation, it was determined that additional soil could not be removed from the walls of the excavation without endangering these structures. It was possible to remove an additional 2.5 feet of soil from beneath the waste oil tank in an attempt to determine the vertical extent of contamination in this area. The results of field screening and laboratory analysis are listed in Table 2.

Samples 1a, 4a, 7a and 8a resulted in TPH concentrations greater than Ecology cleanup guidelines (Table 2). Sample 1a was obtained from beneath the heating oil tank at depth of 6 feet. Sample 4a was obtained from 0.5 feet below the copper pipes that were encountered in the north wall of the excavation. Sample 7a was a composite sample obtained from the soil removed from the excavation and transported to Fife Sand and Gravel. Soil Sample 8a was obtained from the deepened excavation at a depth of 8.5 feet.

SOIL DISPOSAL

We were informed by Joe Hall Construction that the 700 cubic yards of soil temporarily stored at Fife Sand and Gravel was transported on November 21, 1989 to Coal Creek Landfill for disposal. Del Lovell of Joe Hall Construction indicated that permission for disposal was given by Seattle-King County Department of Public Health based on the results of chemical analyses on samples of the soil removed from Service Station 6227.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our observations and testing, gasoline-related contamination of regulatory significance is not present in the vicinity of the underground gasoline storage tanks. However, the results of this study indicate the presence of subsurface petroleum-related soil contamination in the vicinity of the new waste oil tank. Excavation of this soil would require removal of the service station building and the new tank.

The residual contamination in the vicinity of the waste oil tank appears to be limited in extent. It is our opinion, therefore, that this

contamination does not represent a hazard to human health or the environment and that removal of the building is not warranted.

LIMITATIONS

We have prepared this report for use by Unocal. This report may be made available to regulatory agencies. This report is not intended for use by others and the information contained herein is not applicable to other sites.

Our interpretation of soil conditions during remediation is based on field observations and chemical analytical data. It is possible that areas with undetected contamination may exist in portions of the site which were not excavated or analyzed.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted practices in this area at the time the report was prepared. No other conditions, express or implied, should be understood.

Respectfully submitted,

GeoEngineers, Inc.

Julia Fowler
Hydrogeologist

James A. Miller, P.E.
Principal

JF:JAM:db

TABLE 1
SUMMARY OF SUBSURFACE SOIL CHEMISTRY
GASOLINE STORAGE TANK AND PRODUCT LINE EXCAVATION

Sample Number	Sampling Date	Depth of Sample (feet)	BETX (ppb)(a) (EPA Method 8020)				TPH(b) EPA Method 418.1 (PPM)	Field screening Results(c)		General Sample Location
			B	E	T	X		Headspace Vapors (ppm)	Sheen Test	
1	9/12/89	Composite	ND	ND	ND	7.5	28.1	180	NS	Composite from soil taken to Fife Sand & Gravel for use as fill
2(d)	9/12/89	Composite	77	440	730	3270	382	110	NS	Composite of contaminated soil transported to Fife Sand & Gravel for aeration
3	9/12/89	18	ND	ND	ND	13.8	ND	<100	Slight	Base of excavation, beneath unleaded gasoline tank
4	9/12/89	18	ND	2.6	4.1	94	21.7	<100	Slight	Base of excavation, beneath super unleaded gasoline tank
5	9/12/89	17	ND	ND	ND	4	ND	<100	NS	East wall
6	9/12/89	17	ND	ND	ND	ND	31.2	<100	NS	North wall
7	9/12/89	17	ND	ND	ND	ND	ND	<100	NS	West wall
8	9/12/89	16	ND	ND	1.2	6.2	ND	<100	Slight	South wall
9	9/12/89	19	ND	ND	ND	1.7	ND	<100	NS	Base of excavation, beneath super unleaded gasoline storage tank
10	9/12/89	2	ND	ND	ND	1.6	ND	<100	Slight	Beneath product lines

Notes:
"ND" indicates "not detected"; "NS" indicates "no sheen."
"ppb" indicates "parts per billion"; "ppm" indicates "parts per million."
(a) B = benzene, E = ethylbenzene, T = toluene, X = xylenes. Detections limits are given in Appendix B.
(b) TPH = total petroleum hydrocarbons. Detection limits are given in Appendix B.
(c) Refer to Appendix A for a description of field screening methods.
(d) Sample 2 was also analyzed for fuel hydrocarbons by Modified EPA Method 8015. A concentration of 42 ppm "heavy oil" was detected in this sample.

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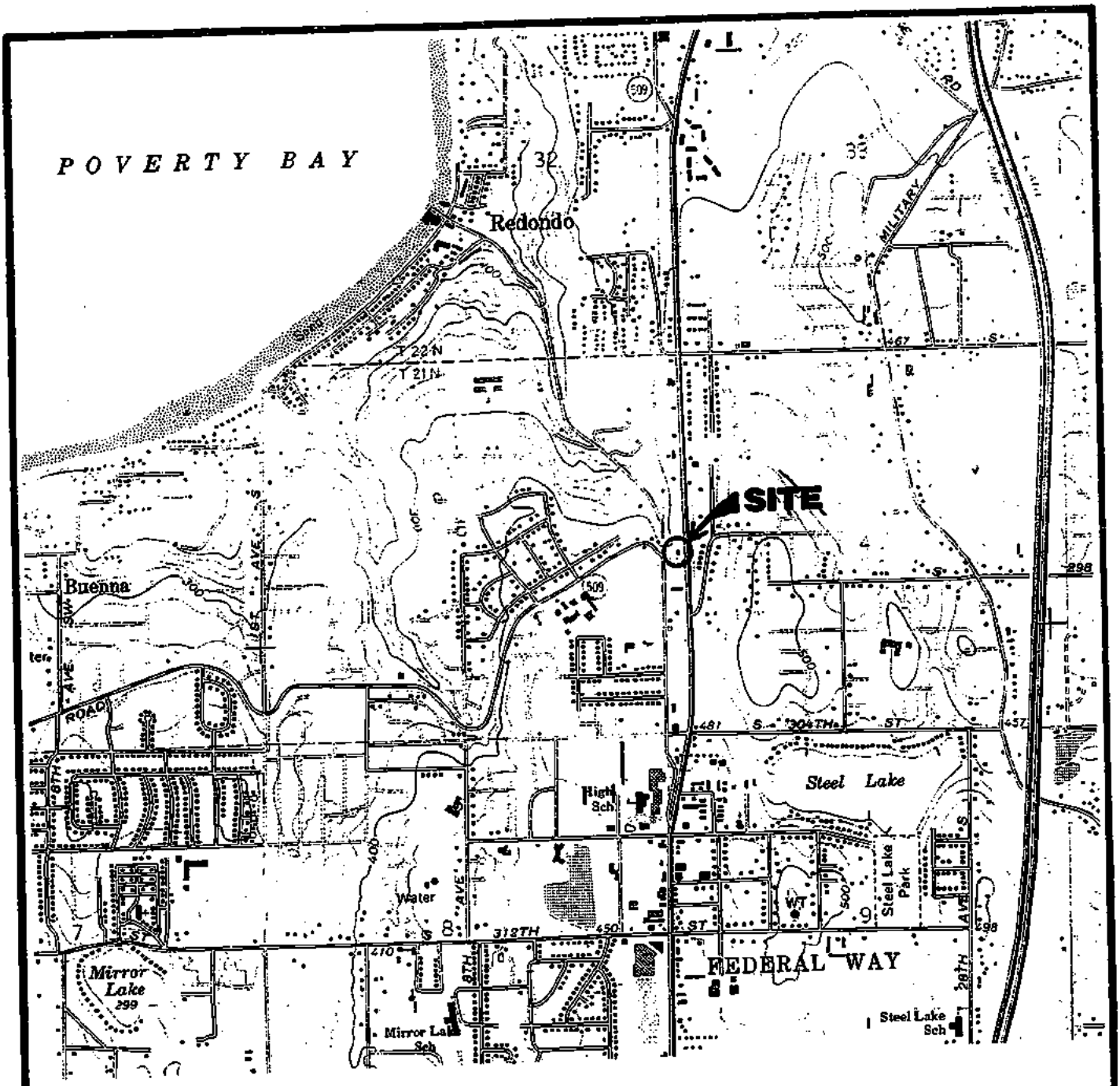
TABLE 2
SUMMARY OF SUBSURFACE SOIL CHEMISTRY
WASTE OIL AND HEATING OIL TANK EXCAVATION

Sample Number	Sampling Date	Depth of Sample (feet)	Total Petroleum Hydrocarbons (ppm) (EPA Method 418.1)	Field screening Results(1)		General Sample Location
				Headspace Vapors (ppm)	Sheen Test	
1a	9/14/89	6	561	<100	Moderate	Base of excavation, beneath heating oil tank
2a	9/14/89	6	--	<100	Moderate	Beneath waste oil tank
3a	9/14/89	4	7.9	<100	Moderate	West wall
4a	9/14/89	3	14,933	200	Heavy	North wall
5a	9/14/89	3.5	12.0	<100	Moderate	South wall
6a	9/14/89	4	9.3	<100	Moderate	East wall
7a(2)	9/14/89	Composite	280	<100	Slight	Composite of soil from excavation
8a	9/14/89	8.5	208	<100	Moderate	Base of excavation, beneath waste oil tank

Notes:
"ppb" indicates "parts per billion"; "ppm" indicates "parts per million."
(1) Field screening methods are described in Appendix A.
(2) Sample 7a was also analyzed for chlorinated hydrocarbons (EPA Method 8010), flash point and PCBs. PCBs and chlorinated hydrocarbons were not detected in this sample. Flashpoint was determined to be greater than 200 degrees Fahrenheit.



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP "POVERTY BAY, WASH."

0161-041-B04 DJK:KRT 10.6.89

GeoEngineers	VICINITY MAP
	FIGURE 1

PACIFIC HIGHWAY SOUTH

Planter

Planter

Planter

Service Islands

Concrete Slab

Underground Gasoline
Storage Tanks (Replaced)

5

9

4

6

8

3

Water Line Excavation

10

7

Limits Of Excavations

Underground Heating
Oil Tank (Removed)

Service Island

Concrete Slab

6a

1a

4a

5a

6a

3a

Service Station Building

Concrete Slab

Underground Waste
Oil Tank (Replaced)

Planter

Property Line

DASH POINT ROAD

Planter

0 20 40

SCALE IN FEET

EXPLANATION:

1a ◎ SOIL SAMPLE LOCATION AND NUMBER

REFERENCE: DRAWING ENTITLED "GENERAL ARRANGEMENT, SERVICE STATION 6227, PACIFIC HWY. S. & DASH PT. ROAD, KING CO., WASHINGTON", DATED 3/24/69, BY UNOCAL.

GeoEngineers

SITE PLAN

FIGURE 2

APPENDIX A

GeoEngineers

APPENDIX A

FIELD SCREENING OF SOIL SAMPLES

A GeoEngineers representative conducted field screening on soil samples obtained from the underground storage tank excavations. Field screening results are used as a general guideline to delineate areas of potential petroleum-related contamination in soils. In addition, screening results are used to aid in the selection of soil samples for chemical analysis. The field screening methods employed included: (1) visual examination, (2) sheen testing, and (3) headspace vapor testing using a Bacharach TLV Sniffer calibrated to hexane. The results of headspace and sheen screening are included on Tables 1 and 2 in the text of this report.

Visual screening consists of inspecting the soil for the presence of stains indicative of petroleum-related contamination. Visual screening is generally more effective in detecting the presence of heavier petroleum hydrocarbons such as motor oil or when hydrocarbon concentrations are high. Sheen screening and headspace vapor screening are more sensitive methods which have been effective in detecting contamination at levels less than regulatory cleanup guidelines.

Sheen testing involves placing soil in water and observing the water surface for signs of sheen. Sheens are classified as follows:

NS - No Sheen	No visible sheen.
SS - Slight Sheen	Light colorless sheen, spotty to globular; spread is irregular, not rapid; areas of no sheen remain; film dissipates rapidly.
MS - Moderate Sheen	Light to heavy film, may have some color or iridescence, globular to stringy; spread is rapid; irregular to flowing.
HS - Heavy Sheen	Heavy colorful film with iridescence; stringy, spread is rapid; sheen flows off the sample; most of water surface is covered.

Headspace vapor screening involves placing a soil sample in a plastic sample bag. Air is captured in the bag and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a Bacharach TLV Sniffer is used to puncture the bag, the instrument withdraws the air in the bag and the TLV Sniffer records the concentration of combustible vapor in the air removed from the sample headspace. The TLV Sniffer records concentrations in parts per million (ppm) and is calibrated to hexane. The Sniffer is designed to quantify combustible gas concentrations in the range between 100 and 10,000 ppm.

Field screening results are site specific. The results vary with temperature, soil type, type of contaminant, and soil moisture content.

CHEMICAL ANALYTICAL PROGRAM

Soil samples obtained between September 12 and 14, 1989 were analyzed by Enviros Corporation or Sound Analytical Services, Inc.. The soil samples were analyzed for TPH and/or BETX. Infrared spectrophotometry methods were used to analyze for petroleum hydrocarbons (EPA Method 418.1) and gas chromatography was used to quantify BETX (EPA Method 8020).

The composite sample obtained from backfill material surrounding the gasoline tanks was also analyzed for fuel hydrocarbons by modified EPA Method 8015. The composite sample obtained from backfill material surrounding the heating oil and waste oil tanks was analyzed for PCBs, chlorinated hydrocarbons (EPA Method 8010), and TPH (EPA Method 418.1).

APPENDIX B

APPENDIX B

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS
4630 PACIFIC HIGHWAY EAST, SUITE B-14, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: GeoEngineers

Date: September 18, 1989

Report On: Analysis of Soil

Lab No.: 7652
Page 1 of 2

GeoEngineers
SEP 20 1989
Received JF
File

IDENTIFICATION:
Samples Received on 9-14-89
Project: 161-41-4 Unocal, Federal Way

ANALYSIS:

Laboratory Sample No.	Client Identification	Total Petroleum Hydrocarbons, mg/kg by EPA Method 418.1
Rush 1	#1	561
Rush 2	#3	7.9
Rush 3	#4	14,933
Rush 4	#5	12.0
Rush 5	#6	9.3
Rush 6	#7	280
Rush 7	#8	208

Laboratory Sample No.: Rush 6 Client ID: #7

Flash, PMCC°F	> 200
PCB, Type	ND
PCB, mg/kg	< 0.1

Continued . . . . . .

This report is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with

SOUND ANALYTICAL SERVICES, INC.

GeoEngineers
Page 2 of 2
Lab No. 7652
September 18, 1989

Laboratory Sample No.: Rush 6 Client ID: #7

Purgeable Halocarbons per EPA SW-846, Method 8010.

Contaminant	Concentration (mg/kg) (ppm)
Methylene chloride	< 0.05
1,1-dichloroethylene	< 0.05
1,2-dichloroethane	< 0.05
1,2-transdichloroethylene	< 0.05
Chloroform	< 0.05
1,2-dichloroethane*	
Freon	< 0.010
1,1,1-trichloroethane	< 0.05
Bromodichloromethane*	
Carbon Tetrachloride	< 0.010
1,2-dichloropropane*	
Trans-1,3-dichloropropene	< 0.010
Trichlorethylene	< 0.05
Cis-1,3-dichloropropene*	
1,1,2-trichloroethane	< 0.010
Chlorodibromomethane	< 0.05
Bromoform	< 0.05
Tetrachloroethylene	< 0.05
1,1,2,2-tetrachloroethane	< 0.05
Chlorobenzene	< 0.05

* These halocarbons coelute

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

This report is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with

SEP 21 1989

Rec'd JF

File

September 19, 1989

Julia Fowler, Project Coordinator
GeoEngineers, Inc.
2405-140th Avenue N.E., Suite 105
Bellevue, WA 98005

Dear Julia:

Enclosed are the results of the analyses of samples submitted on September 12, 1989 from Project 0161-41-4 Unocal.

We appreciate this opportunity to be of service to you on this project. If you have any questions regarding this material, or if you just want to discuss any aspect of your projects, please do not hesitate to contact me.

Sincerely,

James K. Farr, Ph.D.

Enclosures

enviros

Corporation Scientists & Engineers (206) 455-2962 fax 451-8546
600 Skyline Tower 10900 NE 4th Street Bellevue, Washington 98004
Analytical Laboratory: 225 112th Avenue NE (206) 453-8174

Date of Report: September 19, 1989
Date Submitted: September 12, 1989
Project: 0161-41-4 Unocal

RESULTS OF ANALYSES OF ENVIRONMENTAL SAMPLES FOR BTX AND ETHYLBENZENE USING PURGE AND TRAP (EPA METHOD 602/8020) Results Reported as ng/g (ppb)

Sample #	Dil. Fac.	Benzene	Toluene	Et-Benzene	Xylene m,p	Xylene o
1	1	<1	<1	<1	5.4	2.1
2	100	<100	680	390	2,400	1,000
2	50	60	730	440	2,300	970
2	1	77	>50	>50	>50	>50
3	1	<1	<1	<1	7.4	6.4
4	1	<1	4.1	2.6	49	45
5	1	<1	<1	<1	2	2
6	1	<1	<1	<1	<1	<1
7	1	<1	<1	<1	<1	<1
8	1	<1	1.2	<1	3.0	3.1
9	1	<1	<1	<1	1.7	<1
10	1	<1	<1	<1	1.6	<1

enviros

Date of Report: September 19, 1989
Date Submitted: September 12, 1989
Project: 0161-41-4 Unocal

RESULTS OF ANALYSES OF ENVIRONMENTAL SAMPLES FOR BTX AND ETHYLBENZENE USING PURGE AND TRAP (EPA METHOD 602/8020)
Results Reported as ng/g (ppb)

Sample #	Dil. Fac.	Benzene	Toluene	Et-Benzene	Xylene m,p	Xylene o
Quality Assurance						
Method Blank		<1	<1	<1	<1	<1
(Duplicate)		<1	<1	<1	1.5	<1
(Matrix Spike) Spiked @ 20 ppb Percent Recovery		94%	89%	81%	93%	80%

enviros

Date of Report: September 19, 1989
Date Submitted: September 12, 1989
Project: 0161-41-4 Unocal

RESULTS OF ANALYSES OF SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS (C7-C30) BY MODIFIED EPA METHOD 8015

Sample #	Matrix	Dilution Factor.	TPH (ppm)	RANGE (C7-C30)
2	Soil	1	42*	C7-C32
Quality Assurance				
Method Blank		1	<1.0	----
2 (Duplicate)		1	45	----

* Heavy Oil

Date of Report: September 19, 1989
Date Submitted: September 12, 1989
Project: 0161-41-4 Unocal

RESULTS OF ANALYSES OF ENVIRONMENTAL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS BY IR (EPA METHOD 418.1)

Sample #		Total Petroleum Hydrocarbons (ppm)
1	Soil	28.1
2	Soil	382
3	Soil	<5.0
4	Soil	21.7
5	Soil	<5.0
6	Soil	31.2
7	Soil	<5.0
8	Soil	<5.0
9	Soil	<5.0
10	Soil	<5.0

Quality Assurance

Method Blank	<5.0
10 (Duplicate)	<5.0

enviros

Julia Fowler

GEOENGINEERS INC.
2405 - 140th AVE. N.E., SUITE 105
BELLEVUE, WASHINGTON 98005
206-746-5200

PROJECT LOC. Federal Way

PROJECT NAME Unocal

GEI FILE NO. 161-41-4

CHAIN OF CUSTODY RECORD

SAMPLED BY Jon C Kolosk: DATE 9-12-89

SAMPLE No.	DATE SAMPLED	~~TIME SAMPLED~~ Lab #	DEPTH OF SAMPLE	TYPE OF SAMPLE	FIELD FILTERED	PRESERVATIVE ADDED TO SAMPLE	ANALYSES TO BE CONDUCTED	NO. OF SAMPLE CONTAINERS	COMMENTS
1	9-12	2456	Composite	50:1	NO	NO - Ice	BETX + TPH (add HCl 9/15/89)	1	BETX by 8020 and TPH by 418.1
2	9-12	57	Composite	"		" "	"	1	
3	9-12	55	18'	"		" "	"	1	
4	9-12	54	10'	"		" "	"	1	
5	9-12	2466	17'	"		" "	"	1	
6	9-12	6-1	17'	"		" "	"	1	
7	9-12	6-2	17'	"		" "	"	1	
8	9-12	6-3	16'	"		" "	"	1	
9	9-12	6-4	~~Composite~~	"		" "	"	1	
10	9-12	2465	~~Composite~~	"		←	←	1	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
NAME Jon C Kolosk FIRM GeoEngineers INC.	9-12-89		NAME Jon C Kolosk FIRM	9/12/89	14:45
RELINQUISHED BY (SIGNATURE) NAME FIRM	DATE	TIME	RECEIVED BY (SIGNATURE) NAME FIRM	DATE	TIME

ADDITIONAL COMMENTS:

Please analyze Sample 2 as quickly as possible (24-hour). The others are regular turn around.

Please use EPA methods. Thanks, Julia

GEI 10-87

APPENDIX D

RESULTS OF SUPPLEMENTAL FIELD TESTING UNOCAL SERVICE STATION 6227, KING COUNTY, WASHINGTON JANUARY 17, 1991

RECEIVED
JAN 22 1991
DEPT. OF ECOLOGY

Interim Soils

RESULTS OF SUPPLEMENTAL FIELD TESTING
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

GeoEngineers

January 17, 1991

Consulting Geotechnical
Engineers and Geologists

Unocal
P.O. Box 76
Seattle, Washington 98111

Attention: Mr. Gary Gunderson

Results of Supplemental Field Testing
Unocal Service Station 6227
King County, Washington
File No. 0161-041-B04

INTRODUCTION

The results of our supplemental testing for subsurface petroleum-related contamination at the site of Service Station 6227 are presented in this report. The site is located northwest of the intersection between Pacific Highway South and Dash Point Road in the Federal Way area of King County, Washington. The site location and surrounding features are shown in Figure 1. The general layout of the site is shown on the Site Plan, Figure 2.

GeoEngineers previously completed two studies at Service Station 6227. We provided geotechnical services regarding fill embankment and storm drain replacement in 1987. The results of our geotechnical consultation are presented in our report dated June 4, 1987. We observed the removal of the former underground gasoline, waste oil and heating oil storage tanks at the site in September 1989. The results of our observations during tank removal activities at the site are presented in our report dated November 27, 1989.

Total petroleum hydrocarbons (TPH) were detected at concentrations greater than the Washington Department of Ecology (Ecology) cleanup guidelines in the walls and base of the excavation completed for removal of the waste oil and heating oil tanks in 1989. The excavation was between the service station building and the southern service island (Figure 2). Removal of all the contaminated soil from this area was not attempted because of the potential for endangering the building and service island concrete slab. The former gasoline and waste oil tanks were replaced with new tanks. The heating oil tank was removed, but not replaced.

GeoEngineers, Inc.
2405 140th Ave. NE, Suite 105
Bellevue, WA 98005
Telephone (206) 746-5200
Fax. (206) 746-5068

Based on the results of our observations during 1989 tank removal activities, we concluded that the residual contamination in the vicinity of the waste oil tank was limited in extent. We also concluded that this contamination did not represent a hazard to human health or the environment.

SCOPE

The purpose of our supplemental services is to determine if shallow ground water exists beneath the site and if that ground water has been affected by residual waste oil-related soil contamination. The scope of services completed for this study includes:

1. Drill one exploration boring (VP-1) in the vicinity of the former waste oil and heating oil tank excavation using hollow-stem auger drilling equipment.
2. Obtain soil samples at 5-foot intervals from the boring and conduct field screening on the soil samples for evidence of contamination using visual, water sheen and headspace vapor screening methods. The field screening methods are described in Appendix A.
3. Test one soil sample from the boring for the presence of benzene, ethylbenzene, toluene and xylenes (BETX) by EPA Method 8020 and for total petroleum hydrocarbons (TPH) by EPA Method 418.1.
4. Install a 2-inch-diameter PVC well casing with a flush-grade, locking surface monument in the boring.
5. Evaluate the field and laboratory data with regard to current regulatory criteria.

SITE CONDITIONS

GENERAL

Service Station 6227 is located within the Federal Way city limits in an area of primarily residential development. The site is located at the head of a ravine that slopes steeply downward toward the north-northwest. The surface of the site is paved with asphaltic concrete and slopes gently downward toward the northwest. The elevation of the site is approximately 420 feet above sea level.

The service station is inactive. The property includes a service station building, three covered service islands, two 12,000-gallon

underground gasoline storage tanks and one 520-gallon underground waste oil tank. These tanks were installed at the site in 1989. The locations of the current facilities at the service station are shown in Figure 2.

SUBSURFACE SOIL CONDITIONS

Subsurface soil conditions in the vicinity of the former waste oil and heating oil tanks were explored by drilling one exploration boring (VP-1) at the location indicated in Figure 2. Details of the field exploration program and the boring log are presented in Appendix A.

Based on the results of our earlier geotechnical study, we understand that the service station is constructed on imported fill placed at the head of the ravine. Fill consisting of sand and gravel with variable amounts of silt was encountered from the base of the asphalt paving to a depth of 25 feet in VP-1. Very dense silty sand with gravel grading to gravel with sand and silt (glacial till) was encountered beneath the fill to the total depth of the boring (33 feet).

GROUND WATER CONDITIONS

Ground water conditions were explored by installing a vapor probe well casing in Boring VP-1. Construction details for the vapor probe are included in Appendix A.

Ground water was not encountered in the boring. Based on the geology of the area, we anticipate that the depth to ground water at this site is greater than 100 feet. It is possible that runoff water from higher ground east and south of the site drains down the filled ravine during rainy months of the year. "Perched" ground water may exist seasonally above the glacial till unit.

SUBSURFACE CONTAMINATION

Potential subsurface petroleum-related contamination at the location of VP-1 was evaluated by: (1) conducting field screening on soil samples from the boring for evidence of contamination using visual, water sheen and headspace vapor screening methods, and (2) testing one soil sample from the boring for BETX and TPH.

The subsurface soil analytical data are summarized in Table 1. The field screening results are presented on the boring log. The laboratory report is included in Appendix B.

A slight sheen was observed on the soil samples obtained from the depths of 17 and 23 feet in VP-1. Headspace vapor concentrations were less than 100 parts per million (ppm) for all of the soil samples from VP-1. The soil sample from a depth of 23 feet was tested for BETX and TPH. BETX was not detected. TPH was detected at a concentration of 420 milligrams per kilogram (mg/kg) in this sample.

Mr. Joe Hickey of Ecology was informed on August 31, 1990 of the presence of the subsurface soil contamination detected in VP-1. Mr. Hickey also has a copy of our report dated November 27, 1989, regarding our observations during tank removal at the site.

CONCLUSIONS AND RECOMMENDATIONS

The results of this study indicate the possible presence of petroleum-related contamination at depth beneath the site of Service Station 6227. The concentration of TPH detected in the soil sample obtained from 23 feet in VP-1 (420 mg/kg) exceeds the current Ecology soil cleanup guideline for TPH of 200 mg/kg. Three soil samples obtained from the limits of the heating oil and waste oil tank excavation in 1989 also exceeded Ecology's cleanup guideline for TPH.

We drilled VP-1 in an attempt to determine whether shallow or "perched" ground water is present beneath the service station site. Because of the variable geologic conditions beneath the site, the results of this effort are inconclusive.

We understand that Unocal intends to remove the existing gasoline and waste oil tanks from the site in the near future. We recommend that additional soil be excavated from the location of the former waste oil and heating oil tank excavation. Soil should be removed from this area until the concentrations of petroleum-related contamination are less than Ecology cleanup guidelines. It may be necessary to demolish the service station building and a portion of the southern service island to excavate all of the contaminated soil.

We further recommend that an exploratory excavation be completed in the vicinity of VP-1 to determine the extent of the subsurface contamination detected in this boring. The depth of this excavation will be approximately 25 feet. It may be necessary to extend this excavation in the direction of the service station building if subsurface conditions suggest that the

source of contamination in VP-1 is the waste oil tank or a source beneath the building. Soil samples obtained from the exploratory excavation should be submitted for laboratory analysis of petroleum hydrocarbons by EPA Methods 8015 (modified) and 418.1. We understand that the storm drain that was replaced in 1987 was installed around the western perimeter of the site. If the storm drain is encountered during excavation it may be necessary to temporarily remove a portion of the drain pipe to allow excavation to continue. The storm drain should be fully restored upon completion of work at the site.

We recommend that contaminated soil be treated on the site if feasible. In our opinion, land farming/biological treatment is the most practical method of soil remediation at this site. Treatment should consist of spreading the soil on a lined and bermed area of the property, tilling the soil regularly, and adding nutrients (fertilizer) and water as necessary to promote biodegradation of the petroleum product.

LIMITATIONS

We have prepared this report for use by Unocal. This report can be made available to prospective buyers of the property and to regulatory agencies. The report is not intended for use by others and the information contained herein is not applicable to other sites.

Our interpretations of subsurface conditions are based on data from one boring and from previous excavations at the site. It is possible that areas with undetected contamination exist in areas of the site that were not explored or analyzed.

- o 0 o -

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted practices in this area at the time the report was prepared. No other conditions, express or implied, should be understood.

Yours very truly,

GeoEngineers, Inc.

Terry T. Fisk
Geologist

James A. Miller, P.E.
Principal

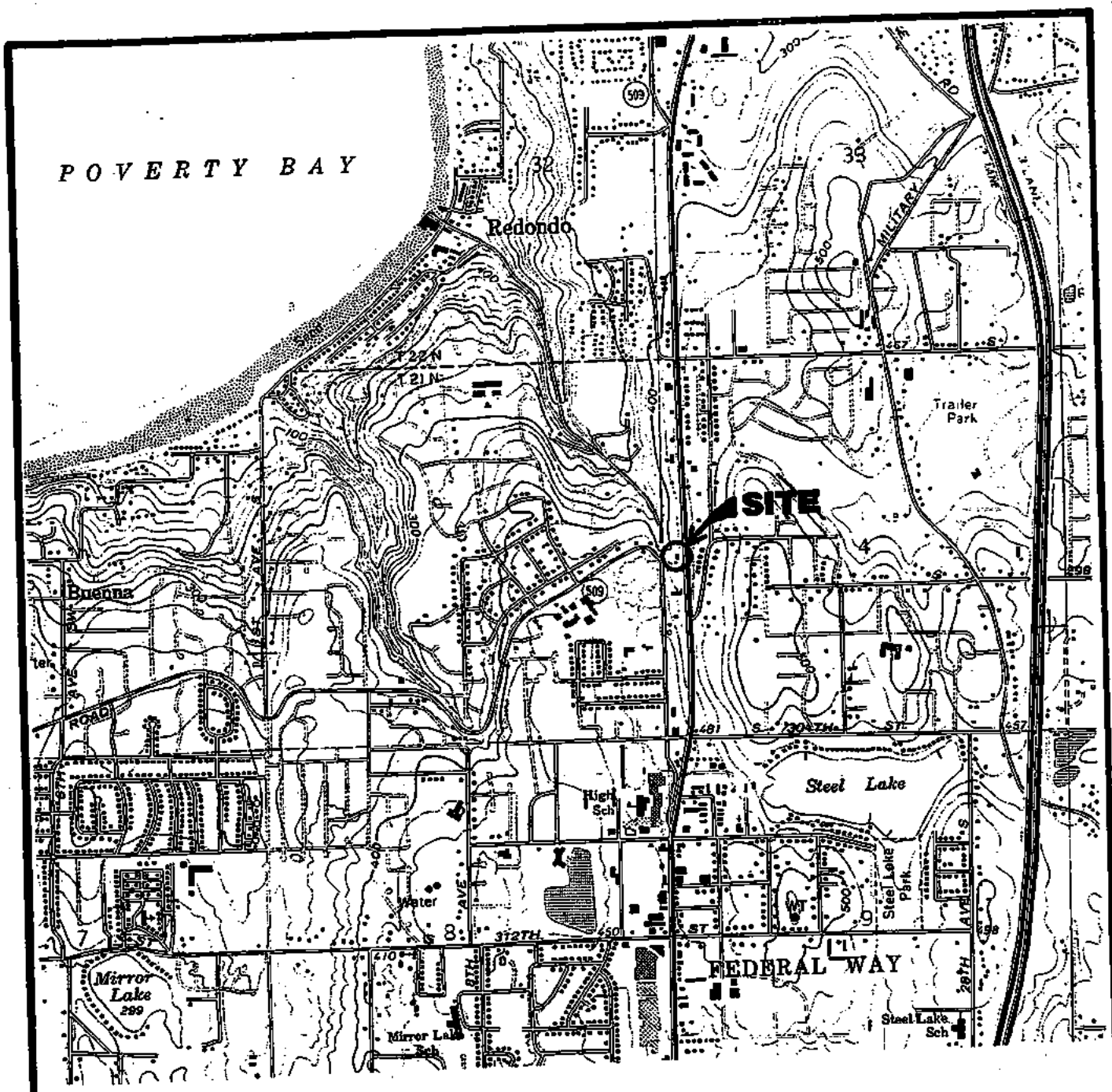
TTF:JAM:ira

cc: Mr. Joe Hickey
Washington Department of Ecology
4350 150th Avenue Northeast
Redmond, Washington 98052

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA

Soil Sample Location	Date Sampled	Depth of Sample (feet)	Field Screening Results		TPH (EPA Method 418.1) (mg/kg)	BETX (mg/kg) (EPA Method 8020)			
			Headspace Vapors (ppm)	Sheen Test		Benzene	Ethylbenzene	Toluene	Xylenes
VP-1	07/25/90	23	<100	SS	420	<0.025	<0.025	<0.025	<0.025

Notes:
"<" indicates "less than"
"ppm" indicates "parts per million"
"mg/kg" indicates "milligram per kilogram"
"SS" indicates "slight sheen"
"TPH" indicates "total petroleum hydrocarbons"



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP "POVERTY BAY, WASH."

0161-041-B04 DJK:KRT 10-6-89

Geo Engineers

VICINITY MAP

FIGURE 1

PACIFIC HIGHWAY SOUTH

Planter

Planter

Planter

Service Islands

Concrete Slab

Underground Gasoline
Storage Tanks (Replaced)

Underground Heating
Oil Tank (Removed)

Service Island

Concrete Slab

Service Station Building

Concrete Slab

Underground Waste
Oil Tank (Replaced)

⊕VP-1

Planter

Property Line

Planter

DASH POINT ROAD

0 20 40

SCALE IN FEET

EXPLANATION:

⊕VP-1 VAPOR PROBE LOCATION AND NUMBER

LIMITS OF FORMER EXCAVATIONS COMPLETED IN SEPTEMBER 1989

REFERENCE: DRAWING ENTITLED "GENERAL ARRANGEMENT, SERVICE STATION 6227, PACIFIC HWY. S. & DASH PT. ROAD, KING CO., WASHINGTON", DATED 3/24/69, BY UNOCAL.

Geo Engineers

SITE PLAN

FIGURE 2

0161-041-804 JF:KKT 9-25-89

APPENDIX B

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9008-002

GeoEngineers

AUG 17 1990

Routing
File

August 16, 1990

GeoEngineers, Inc.
2405 140th Ave. NE
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 0161-041-B04

Project Name : Unocal

On August 1, 1990 Analytical Technologies, Inc. received one soil sample for analysis. The sample was analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and the quality control data are enclosed.

Mary C. Silva
Senior Project Manager

FWG/hbb

Frederick W. Grothkopp
Technical Manager

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9008-002-1	MW-1, #5	07/25/90	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R
MOISTURE	GRAVIMETRIC	METHOD 7-2.2	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL	DATE EXTRACTED	: 08/02/90
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 08/06/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	99

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 07/25/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 08/01/90
PROJECT NAME	: UNOCAL	DATE EXTRACTED	: 08/02/90
CLIENT I.D.	: MW-1, #5	DATE ANALYZED	: 08/06/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	85

PURGEABLE AROMATICS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9007-279-5
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 08/01/90
PROJECT NAME	: UNOCAL	DATE ANALYZED	: 08/02/90
EPA METHOD	: 8020 (BETX)	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % REC	RPD
BENZENE	<0.025	0.60	0.491	82	0.539	90	9
TOLUENE	0.114	0.60	0.549	73	0.600	81	9
TOTAL XYLENES	0.343	0.83	1.02	81	0.950	73	7

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL

SAMPLE MATRIX : SOIL
UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	PETROLEUM HYDROCARBONS
9008-002-1	MW-1, #5	420

GENERAL CHEMISTRY QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL

SAMPLE MATRIX : SOIL
UNITS : mg/Kg

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
PETROLEUM HYDROCARBONS	9002-217-9	1,200	1,300	8	**	**	**
PETROLEUM HYDROCARBONS	9007-233-6	6	11	59	274	255	105

** Due to the necessary dilution of the sample, result was not attainable.

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC. SAMPLE MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9008-002-1	MW-1, #5	12

GENERAL CHEMISTRY QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL

SAMPLE MATRIX : SOIL
UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9007-274-3	6.9	7.0	1	N/A	N/A	N/A
MOISTURE	9007-231-2	28	28	0	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.

560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

DATE 8/1/90 PAGE 1 OF 1

LABORATORY NUMBER:

PROJECT MANAGER: Terry Fisk

COMPANY: G E I

ADDRESS: 2005 Third Ave NE

Bellevue WA 98005

PHONE: 747-5200 SAMPLED BY: CAK

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
Mw-1 #5	7/31/90	13:00	Soil	-1

ANALYSIS REQUEST

8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	TCLP ONLY: 8240 ZH-EXT	TCLP ONLY: 8270	TCLP ONLY: 8150 Herbicides (2)	TCLP ONLY: Metals (8)			NUMBER OF CONTAINERS
		X									X															1

PROJECT INFORMATION

PROJECT NUMBER: 111-401-R04

PROJECT NAME: Wyatt

PURCHASE ORDER NUMBER:

ONGOING PROJECT? YES ☐ NO ☒

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	1
COC SEALS/INTACT? Y/N/NA	Y
RECEIVED GOOD COND./COLD	Y/Y
RECEIVED VIA:	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☐ 24HR ☐ 48 HRS ☐ 72 HRS ☒ 1 WK

GREATER THAN 24 HR. NOTICE? YES ☐ NO ☒ (LAB USE ONLY)

SPECIAL INSTRUCTIONS:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: T. Fisk Time: 1300	Signature: Time:	Signature: Time:
Printed Name: Terry Fisk Date: 8/1/90	Printed Name: Date:	Printed Name: Date:
Company: G E I	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time:	Signature: Time:	Signature: Time: 1340
Printed Name: Date:	Printed Name: Date:	Printed Name: Date: 8-1-90
Company:	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

B - 11

APPENDIX E

REPORT OF REMEDIAL ACTION UNDERGROUND STORAGE TANK REMOVAL UNOCAL SERVICE STATION 6227, KING COUNTY, WASHINGTON APRIL 10, 1991

RECEIVED
APR 12 1991
DEPT. OF ECOLOGY

JR VR 4/23/91 Final Cleanup Report Soils Contamination

REPORT OF REMEDIAL ACTION
UNDERGROUND STORAGE TANK REMOVAL
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

GeoEngineers

April 10, 1991

Consulting Geotechnical
Engineers and Geologists

Unocal
P.O. Box 76
Seattle, Washington 98111

Attention: Mr. Leigh Carlson

We are submitting five copies of our report of remedial action for Unocal Service Station 6227 located in King County, Washington. Our services for this project were authorized verbally by Mr. Leigh Carlson of Unocal on December 12, 1990. Contractual terms for our services are listed in blanket contract number B1982C.

We appreciate the opportunity to be of continued service to Unocal. Please call if you have any questions regarding this report or our services.

Yours very truly,

GeoEngineers, Inc.

James A. Miller, P.E.
Principal

TTF:JAM:db

cc: Attn: Mr. Joseph Hickey
Washington Dept. of Ecology
Northwest Regional Office
4350 - 150th Ave. N.E.
Redmond, WA 98052-5301

File No. 0161-041-B04

GeoEngineers, Inc.
2405 140th Ave. NE, Suite 105
Bellevue, WA 98005
Telephone (206) 746-5200
Fax. (206) 746-5068

GeoEngineers

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GeoEngineers

REPORT OF REMEDIAL ACTION
UNDERGROUND STORAGE TANK REMOVAL
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

INTRODUCTION AND SCOPE

This report summarizes the results of GeoEngineers' observations during the removal of the underground storage tanks at the site of Unocal Service Station 6227 near Federal Way in King County, Washington. The site is located northwest of the intersection between Pacific Highway South and Dash Point Road, as shown in Figure 1. The general layout of the site is shown in Figure 2. The storage tanks were removed from the site during December 1990 and January 1991. The tanks removed during this study were installed at the site in September 1989.

GeoEngineers previously completed three studies at the site. We provided geotechnical services regarding fill embankment and storm drain replacement in 1987. The results of our geotechnical consultation are presented in our report dated June 4, 1987. We observed the removal of the former underground gasoline, waste oil and heating oil tanks in September 1989. The results of our observations during removal of the former tanks are presented in our report dated November 27, 1989. We drilled one exploration boring and installed a vapor well casing (VP-1) in the boring during July 1990. The results of our vapor well exploration are presented in our report dated January 17, 1991.

Information provided by Unocal indicates that the service station facilities were constructed in 1969. A survey completed in February 1969 indicates that the site was covered primarily with vegetation prior to construction of the service station facilities. Two frame buildings were located in the southwest corner of the site in February 1969. We understand that the underground storage tanks removed from the site during 1989 were the tanks installed originally in 1969.

Two 12,000-gallon double-wall, fiberglass-coated steel gasoline storage tanks; associated product lines; one 520-gallon double-wall, fiberglass-coated steel waste oil tank; and the vapor well were removed from the site between December 13, 1990 and January 10, 1991. The underground storage tanks, product lines and vapor well were not replaced.

The purpose of our services was to observe and evaluate subsurface soil conditions in the excavations and to evaluate the need for remedial actions at the site. GeoEngineers' scope of services completed for this project is listed below.

1. Observe and document the excavation and removal of the underground storage tanks, product lines and vapor well at the site.
2. Obtain soil samples from the limits of the excavations and from soil stockpiles for chemical analysis of petroleum-related contaminants. Conduct field screening on each soil sample for evidence of contamination using visual, water sheen and headspace vapor screening methods. Field screening methods are described in Appendix A.
3. Submit selected soil samples from the excavations and soil stockpiles for one or more of the following chemical analyses: TPH (total petroleum hydrocarbons) by EPA Method 418.1; fuel hydrocarbons by modified EPA Method 8015; BETX (benzene, ethylbenzene, toluene, xylenes) by EPA Method 8020; lead by EPA Method 7420; and TCLP (toxicity characteristic leaching procedure) metals by EPA 7000 series methodology.
4. Evaluate the field and laboratory data with regard to existing regulatory concerns.
5. Arrange for disposal of soil with petroleum-related contamination at the Kitsap County Landfill.

SOIL EXCAVATION AND SAMPLING

GENERAL

Sleister (A.L. Sleister and Sons Construction, Inc.) excavated and removed the underground storage tanks, product lines and vapor well at the site. Sleister was also responsible for the excavation of petroleum-contaminated soil encountered at the site. A representative of GeoEngineers was present to observe the tank removal and soil excavation activities, and to obtain soil samples from the excavations. Soil removed from the excavations was placed in temporary on-site stockpiles. The stockpiles were segregated according to the source of the soil and the relative degree of contamination based on field screening. Composite soil samples were collected from each individual stockpile.

The former locations of the underground storage tanks and the vapor well, the limits of the excavations and the soil sample locations are shown in Figure 2. The soil sample analytical data are summarized in Tables 1, 2 and 3. Laboratory data sheets and chain-of-custody records are included in Appendix B.

Ecology (Washington State Department of Ecology) has established soil cleanup levels under MTCA (Model Toxics Control Act). The MTCA Method A soil cleanup levels for petroleum-related contamination are listed below.

Compound	MTCA Cleanup Level
Benzene	0.5 mg/kg
Ethylbenzene	20 mg/kg
Toluene	40 mg/kg
Xylenes	20 mg/kg
TPH (quantified as gasoline)	100 mg/kg
TPH (quantified as diesel)	200 mg/kg
TPH (other)	200 mg/kg
Total Lead	250 mg/kg

Note: mg/kg = milligrams per kilogram.

WASTE OIL TANK EXCAVATION

The waste oil tank was removed on December 13, 1990. Corrosion or pitting were not observed on the tank. Backfill surrounding the tank consisted of fine to medium sand. Soil encountered in the walls and base of the excavation consisted of gravelly sand with thin layers of gravel and cobbles. Ground water was not encountered in the excavation.

Seven discrete soil samples (WO-1 through WO-7) were obtained from the limits of the waste oil tank excavation on December 13, 1990. One sample (WO-8 composite) was obtained from the stockpiled soil on December 13, 1990. The soil samples obtained from the waste oil tank excavation limits and soil stockpile were submitted for chemical analysis of TPH and fuel hydrocarbons.

The sample obtained from the soil stockpile was also analyzed for TCLP metals. Soil sample analytical results are summarized in Table 1. Soil sample locations are shown in Figure 2.

The concentration of TPH (210 mg/kg) exceeded the MTCA cleanup level in sample WO-1 obtained from the base of the excavation. Fuel hydrocarbons were not detected in sample WO-1. TPH and fuel hydrocarbons were either not detected or were detected at concentrations less than MTCA cleanup levels in the remaining samples. Additional soil was removed from the waste oil tank excavation on December 31, 1990. Sample WO-8 (a discrete sample) was obtained from the base of the excavation after the additional soil was removed and submitted for chemical analysis of TPH and fuel hydrocarbons. TPH and fuel hydrocarbons either were not detected or were detected at concentrations less than MTCA cleanup levels in sample WO-8.

GASOLINE TANK EXCAVATION

The gasoline storage tanks were removed on December 18, 1990. Corrosion or pitting were not observed on the two gasoline tanks. Remedial activities at the site were suspended between December 19 and 30, 1990, because of weather conditions.

Backfill surrounding the tanks consisted of fine to medium sand. Fine to medium gravelly sand with thin layers of gravel and cobbles was encountered in the walls and base of the gasoline tank excavation. Evidence of petroleum-related contamination was not observed in the tank backfill or in the walls and base of the excavation. Ground water was not encountered in the excavation.

Five discrete soil samples (G-1 through G-5) were obtained from the limits of the excavation on December 31, 1990. Four composite samples (SP-1, SP-2, G-SP-A and G-SP-B) were obtained from the stockpiled soil. The soil samples were analyzed for BETX and fuel hydrocarbons. All of the samples, excluding composite samples SP-2 and G-SP-A, were also submitted for analysis of total lead. Soil sample analytical results are summarized in Table 2. Soil sample locations are shown in Figure 2.

Test results indicated that BETX and fuel hydrocarbons were not detected in the soil samples. Lead was detected at concentrations greater than MTCA cleanup levels in samples G-3 and G-4, obtained from the base of

the excavation (770 mg/kg and 460 mg/kg, respectively). Lead was not detected at concentrations greater than the MTCA guideline of 250 mg/kg in the remaining samples.

Additional soil was removed from the excavation on January 30 and 31, 1991, based on the concentrations of lead detected in G-3 and G-4. Three discrete soil samples (G-6 through G-8) and four composite samples (GSP-5 through GSP-8) were obtained and submitted for analysis of lead after the additional soil excavation. Sample G-8 was also analyzed for BETX and fuel hydrocarbons. The concentrations of lead in samples G-6 through G-8, and GSP-5 through GSP-8 either were not detected or were less than MTCA cleanup levels (Table 2). BETX was not detected in sample G-8.

PRODUCT LINE EXCAVATIONS

Five discrete soil samples (PL-1 through PL-5) were obtained from the product line excavations on December 31, 1990 and submitted for analysis of BETX and fuel hydrocarbons. Soil sample analytical results are summarized in Table 3. Soil sample locations are shown in Figure 2. Fuel hydrocarbons (quantified as gasoline) were detected at concentrations greater than MTCA cleanup levels in sample PL-3. Ethylbenzene and xylenes were detected at concentrations less than MTCA cleanup levels in sample PL-3. Benzene and toluene were not detected in this sample. Sample PL-3 was obtained from the western portion of the service islands adjacent to Pacific Highway South, as shown in Figure 2. BETX and fuel hydrocarbons were not detected in the remaining samples.

Additional soil was removed from the product line excavation in the vicinity of PL-3 on January 9, 1991. Three discrete soil samples (PL-6 through PL-8) and one composite sample (PL-SP) were obtained and submitted for analysis of BETX and fuel hydrocarbons after the additional soil was removed. Test results indicated that BETX and fuel hydrocarbons were not detected in these samples. Sample PL-6 also was analyzed for total lead. Lead was not detected in sample PL-6.

VAPOR WELL TEST PIT EXCAVATION

TPH was detected at a concentration of 420 mg/kg in the soil sample tested from a depth of 23 feet in vapor well VP-1 at the time the well was constructed in July 1990. BETX was not detected in this sample. A test pit excavation was completed on January 9 and 10, 1991 at the location of VP-1 to determine the source and extent of the petroleum hydrocarbons detected

in the sample from 23 feet. The vapor well casing was removed during the excavation activities. Ground water was not present in the well casing in July 1990 or on January 9, 1991. As indicated in our report dated January 17, 1991, we expect that the depth to ground water beneath the site is greater than 100 feet.

The vapor well excavation was completed at a depth of about 18 feet. Excavation deeper than 18 feet was not possible because of severe sloughing of the test pit sidewalls. Excavation was suspended after two active utilities crossing the site were undermined by sloughing from the excavation sidewalls. Approximately 180 cubic yards of soil were removed from the vapor well test pit excavation. The excavation was backfilled on January 10, 1990, with the soil that was removed from the excavation.

Three discrete soil samples (VW-1, VW-2 and VW-3) were obtained from the depths of 13, 16 and 18 feet in the excavation. Three composite samples (VWSP-1, VWSP-2 and VWSP-3) were obtained from the soil stockpile. The samples were collected on January 9 and 10, 1991. The soil samples were analyzed for fuel hydrocarbons and TPH. The results of analytical testing are summarized in Table 1.

Fuel hydrocarbons were not detected in any of the six samples. TPH was detected at concentrations less than MTCA cleanup levels in all of the samples, except VW-2. TPH was detected at a concentration of 280 mg/kg in VW-2. Examination of the chromatograms included with the fuel hydrocarbons analysis for the six samples obtained from the vapor well excavation and soil stockpile indicates that petroleum hydrocarbons are either not present or are present at very low concentrations in the soil removed from the vicinity of VP-1.

SOIL DISPOSAL AND BACKFILLING OF EXCAVATIONS

Approximately 110 cubic yards of soil were stockpiled at the site pending disposal at the Kitsap County Sanitary Landfill. The stockpile consisted of about 50 cubic yards of petroleum-contaminated soil from the waste oil tank excavation; about 50 cubic yards of lead-contaminated soil from the gasoline tank excavation; and about 10 cubic yards of gasoline-contaminated soil from the product line excavation.

One composite sample (WO-8 composite) was obtained from the stockpile of soil removed from the waste oil tank excavation. The sample was analyzed for fuel hydrocarbons, TPH and TCLP metals. The concentrations of fuel

hydrocarbons, TPH and TCLP metals either were nondetected or were less than MTCA cleanup guidelines in this sample (Table 1). The soil stockpile was not used as backfill, however, because the stockpile includes soil removed from the base of the excavation after TPH was detected at a concentration of 210 mg/kg in sample WO-1. A separate soil sample (sample 7a) obtained from the waste oil tank excavation during our 1989 study was tested for PCBs, purgeable halocarbons and flash point. PCBs and purgeable halocarbons were not detected in this sample. The flash point was greater than 200 degrees Fahrenheit.

One composite soil sample (GSP-8) was obtained from the stockpile of soil removed from the gasoline tank excavation after lead was detected at concentrations greater than MTCA cleanup levels in samples G-3 and G-4. Lead was detected at a concentration of 44.2 mg/kg in sample GSP-8. This soil stockpile will be transported to the landfill based on the lead concentrations detected in G-3 and G-4.

Approximately 10 cubic yards of soil were excavated from the service island excavation after fuel hydrocarbons (quantified as gasoline) were detected at a concentration of 110 mg/kg in sample PL-3. This soil also will be transported to the landfill.

We received permission for disposal of the soil at Kitsap County Landfill on March 5, 1991. The soil was transported to the landfill by CW Trucking & Excavating of Poulsbo, Washington, on March 19, 1991.

Composite samples obtained from the remaining gasoline tank and product line soil stockpiles (SP-1, SP-2, G-SP-A, G-SP-B, GSP-5, GSP-6, GSP-7 and PL-SP) were analyzed for one or more of the following: fuel hydrocarbons, BETX and lead. The concentrations of fuel hydrocarbons, BETX and lead either were nondetected or were less than MTCA cleanup guidelines in these samples (Tables 2 and 3). The soil stockpiles that these samples were collected from were used to backfill the excavations at the site based on the chemical analytical data. The waste oil tank and product line excavations were backfilled by Sleister on March 25, 1991. The gasoline storage tank excavation was not backfilled, as requested by Unocal on March 22, 1991.

CONCLUSIONS

The results of our observations and chemical testing indicate that petroleum-related contamination of regulatory significance is not present

in the vicinity of the underground storage tank and product line excavations at the site of Unocal Service Station 6227. Soil samples collected from the final limits of the excavations and from the stockpiles used to backfill the excavations did not contain petroleum-related contaminants at concentrations exceeding MTCA Method A cleanup levels.

As indicated in previous reports, the service station facilities are constructed on imported fill placed at the head of a ravine. It is possible that the concentrations of TPH detected in soil samples from the vapor well excavation and the sample obtained from a depth of 23 feet in the vapor well boring are the result of interferences caused by organic matter present in the imported fill. In our opinion, petroleum-related contamination of regulatory significance is not present in the location of the former vapor well at this site.

LIMITATIONS

We have prepared this report for use by Unocal. This report may be made available to regulatory agencies. This report is not intended for use by others and the information contained herein is not applicable to other sites.

Our interpretation of soil conditions during remediation is based on field observations and chemical analytical data. It is possible that areas with contamination may exist in portions of the site that were not excavated or analyzed. In addition, regulatory requirements may change and could be applied retroactively.

- o O o -

GeoEngineers

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted practices in this area at the time this report was prepared. No other conditions, express or implied, should be understood.

Respectfully submitted,

GeoEngineers, Inc.

Terry T. Fisk
Project Geologist

James A. Miller, P.E.
Principal

TTF:JAM:db

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA
WASTE OIL TANK AND VAPOR WELL EXCAVATIONS

Sample Number	Sampling Date	General Sample Location	Depth of Sample (feet)	Field Screening Results(1)		TPH(2) (mg/kg)	Fuel Hydrocarbons(3) (mg/kg)	
				Headspace Vapors (ppm)	Sheen Test		Gasoline	Diesel
WO-1(4)	12/13/90	North base, waste oil tank excavation	12.0	<100	NS	210	<5	<5
WO-2	12/13/90	North wall, waste oil tank excavation	7.0	<100	NS	21	<5	<5
WO-3	12/13/90	North wall, waste oil tank excavation	2.0	<100	SS	28	<5	<5
WO-4	12/13/90	West base, waste oil tank excavation	12.0	<100	NS	<5	<5	<5
WO-5	12/13/90	South base, waste oil tank excavation	12.0	<100	SS	8	<5	<5
WO-6	12/13/90	Central base, waste oil tank excavation	13.0	<100	NS	21	<5	<5
WO-7	12/13/90	East base, waste oil tank excavation	12.0	<100	NS	26	<5	<5
WO-8(5)	12/13/90	Composite from waste oil tank excavation	Composite	<100	SS	55	<5	<5
WO-9(5)	12/31/90	North base, waste oil tank excavation	12.5	<100	SS	47	<5	<5
VW-1(4)	01/09/91	Vapor well test pit	13.0	<100	SS	170	<5	<5
VW-2(4)	01/09/91	Vapor well test pit	16.0	<100	SS	280	<5	<5
VW-3	01/10/91	Vapor well test pit	18.0	<100	SS	33	<5	<5
VWSP-1	01/10/91	Composite from vapor well excavation	Composite	<100	SS	34	<5	<5
VWSP-2	01/10/91	Composite from vapor well excavation	Composite	<100	SS	12	<5	<5
VWSP-3	01/10/91	Composite from vapor well excavation	Composite	<100	SS	50	<5	<5

Notes:

(1) Refer to Appendix A for a description of field screening methods.

(2) TPH = total petroleum hydrocarbons. TPH analyzed by EPA Method 418.1.

(3) Analyzed by modified EPA Method 8015.

(4) Additional soil was removed during supplemental excavation.

(5) Also analyzed for TCLP metals. Barium was detected at a concentration less than 1 mg/l in each sample. Other metals were not detected.

NS = no sheen, SS = slight sheen

mg/kg = milligrams per kilogram

ppm = parts per million

TABLE 2
SUMMARY OF SOIL ANALYTICAL DATA
GASOLINE TANK EXCAVATION

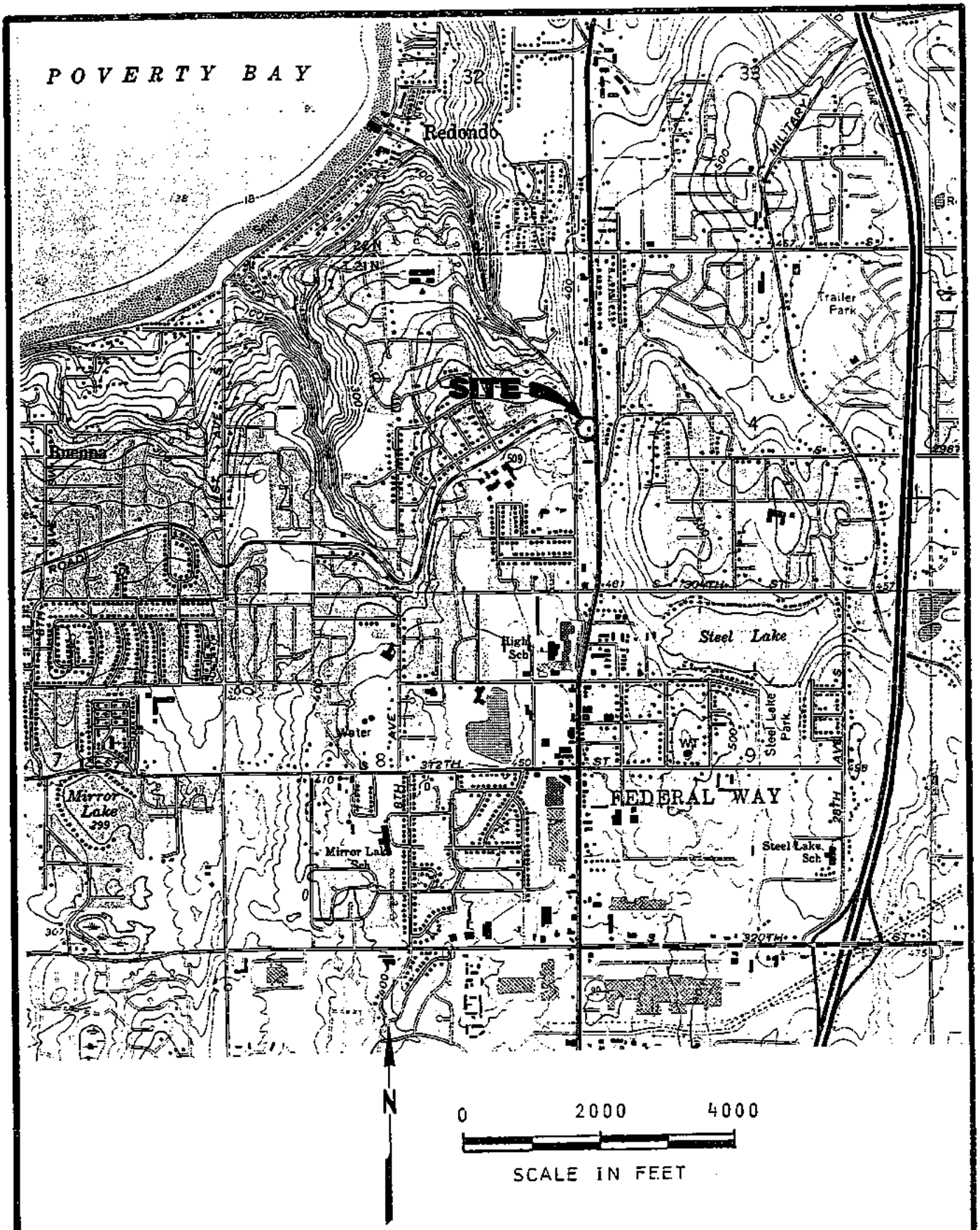
Sample Number	Sampling Date	General Sample Location	Depth of Sample (feet)	Field Screening Results(1)		BETX(2) (mg/kg)				Fuel Hydrocarbons(3) (mg/kg)		Lead(4) (mg/kg)
				Headspace Vapors (ppm)	Sheen Test	B	E	T	X	Gasoline	Diesel	
G-1	12/31/90	South base, gas tank excavation	13.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
G-2	12/31/90	Southwest base, gas tank excavation	14.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
G-3(5)	12/31/90	North base, gas tank excavation	14.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	770
G-4(5)	12/31/90	Northwest base, gas tank excavation	13.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	460
G-5	12/31/90	East base, gas tank excavation	13.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
G-6	01/31/91	North base, gas tank excavation	17.0	<100	NS	—	—	—	—	—	—	14.8
G-7	01/31/91	Northwest base, gas tank excavation	17.0	<100	SS	—	—	—	—	—	—	23.4
G-8	01/31/91	Central base, gas tank excavation	17.0	<100	NS	<0.050	<0.050	<0.050	<0.050	<10	<10	11.0
SP-1	12/31/90	Composite from gas tank excavation	Composite	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
SP-2	12/31/90	Composite from gas tank excavation	Composite	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	—
G-SP-A	01/09/91	Composite from gas tank excavation	Composite	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	—
G-SP-B	01/09/91	Composite from gas tank excavation	Composite	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
GSP-5	01/30/91	Composite from gas tank excavation	Composite	<100	SS	—	—	—	—	—	—	<1.2
GSP-6	01/30/91	Composite from gas tank excavation	Composite	<100	SS	—	—	—	—	—	—	<1.2
GSP-7	01/30/91	Composite from gas tank excavation	Composite	<100	SS	—	—	—	—	—	—	2.8
GSP-8	01/31/91	Composite from gas tank excavation	Composite	<100	SS	—	—	—	—	—	—	44.2

Notes:
(1) Refer to Appendix A for a description of field screening methods.
(2) B = benzene, E = ethylbenzene, T = toluene, X = xylenes. BETX analyzed by EPA Method 8020.
(3) Analyzed by modified EPA Method 8015.
(4) Analyzed by EPA Method 7420.
(5) Additional soil was removed during supplemental excavation.
NS = no sheen; SS = slight sheen;
mg/kg = milligrams per kilogram
ppm = parts per million
"—" = not tested

TABLE 3
SUMMARY OF SOIL ANALYTICAL DATA
PRODUCT LINE EXCAVATIONS

Sample Number	Sampling Date	General Sample Location	Depth of Sample (feet)	Field Screening Results(1)		BETX(2) (mg/kg)				Fuel Hydrocarbons(3) (mg/kg)		Lead(4) (mg/kg)
				Headspace Vapors (ppm)	Sheen Test	B	E	T	X	Gasoline	Diesel	
PL-1	12/31/90	South island, product line excavation	3.0	<100	MS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-2	12/31/90	South island, product line excavation	2.5	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-3(5)	12/31/90	Northwest island, product line excavation	3.0	<100	HS	<0.025	0.098	<0.025	1.6	110	<5	--
PL-4	12/31/90	Northeast island, product line excavation	3.0	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-5	12/31/90	Northwest island, product line excavation	2.5	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-6	01/09/91	Northwest island, product line excavation	2.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
PL-7	01/09/91	Northwest island, product line excavation	2.0	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-8	01/09/91	Northwest island, product line excavation	1.5	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-SP	01/09/91	Composite from product line excavation	Composite	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	--

Notes:
(1) Refer to Appendix A for a description of field screening methods.
(2) B = benzene, E = ethylbenzene, T = toluene, X = xylenes. BETX analyzed by EPA Method 8020.
(3) Analyzed by modified EPA Method 8015.
(4) Analyzed by EPA Method 7420.
(5) Additional soil was removed during supplemental excavation.
NS = no sheen; SS = slight sheen; MS = moderate sheen; HS = heavy sheen
mg/kg = milligrams per kilogram
ppm = parts per million
"--" = not tested



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP "POVERTY BAY, WASH."

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VICINITY MAP

FIGURE 1

PACIFIC HIGHWAY SOUTH

Planter

Planter

Planter

Service Islands

PL-4

PL-8

PL-5

PL-3

PL-6

PL-7

G-3

G-6

G-5

G-8

G-1

Underground Gasoline Storage Tanks (Removed)

G-4

G-7

G-2

Underground Waste Oil Tank (Removed)

Service Station Building

See Inset

Concrete Slab

PL-2

PL-1

Service Island

Concrete Slab

Planter

VW-1
VW-2
VW-3

Vapor Well (Removed)

Property Line

DASH POINT ROAD

Planter

0 20 40

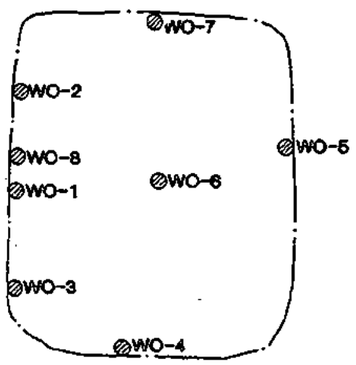
SCALE IN FEET

EXPLANATION:

⊘G-1 SOIL SAMPLE LOCATION AND NUMBER

LIMITS OF EXCAVATIONS COMPLETED IN DECEMBER 1990 AND JANUARY 1991

Inset: Waste Oil Tank Excavation



REFERENCE: DRAWING ENTITLED "GENERAL ARRANGEMENT, SERVICE STATION 6227, PACIFIC HWY. S. & DASH PT. ROAD, KING CO., WASHINGTON", DATED 3/24/69, BY UNOCAL.

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SITE PLAN

FIGURE 2

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APPENDIX A

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APPENDIX A

FIELD EXPLORATIONS

DRILLING AND SOIL SAMPLING PROGRAM

Subsurface conditions at Service Station 6227 were explored by drilling one boring (VP-1) using truck-mounted, hollow-stem auger drilling equipment at the location indicated in Figure 2. The boring was drilled on July 25, 1990 to a depth of 33 feet using drilling equipment owned and operated by McDonald Holt, Inc. The drilling equipment was cleaned with a hot-water pressure washer prior to drilling the boring. The soil sampling equipment was cleaned with a trisodiumphosphate (TSP) solution and rinsed with distilled water prior to drilling.

A geologist from our staff determined the boring location, examined and classified the soils encountered, and prepared a detailed log of the boring. Soils encountered were classified visually in general accordance with ASTM D-2488-83, which is described in Figure A-1. An explanation of the boring log symbols is presented in Figure A-2. The boring log is given in Figure A-3.

Soil samples were obtained from the boring using a Dames & Moore split-barrel sampler (2.4-inch ID). The sampler was driven 18 inches by a 300-pound weight falling a vertical distance of approximately 30 inches. The number of blows needed to advance the sampler the final 12 inches or other specified intervals is indicated to the left of the corresponding sample notations on the boring logs.

One soil sample was selected from the boring for chemical analysis of benzene, ethylbenzene, toluene, and xylenes (BETX), and total petroleum hydrocarbons (TPH). The sample that was tested is denoted in the boring log with a "CA." Chain-of-custody procedures were followed in transporting the soil sample to the laboratory.

FIELD SCREENING OF SOIL SAMPLES

A GeoEngineers representative conducted field screening on soil samples obtained from the boring. Field screening results are used as a general guideline to delineate areas of potential petroleum-related contamination. In addition, screening results are used to aid in the selection of soil samples for chemical analysis. The screening methods employed included:

(1) visual examination, (2) sheen testing, and (3) headspace vapor testing using a Bacharach TLV Sniffer calibrated to hexane. The results of headspace and sheen screening are included on the boring log.

Visual screening consists of inspecting the soil for the presence of stains indicative of petroleum-related contamination. Visual screening is generally more effective when contamination is related to heavier petroleum hydrocarbons such as motor oil, or when hydrocarbon concentrations are high. Sheen screening and headspace vapor screening are more sensitive methods which have been effective in detecting contamination at concentrations less than regulatory cleanup guidelines.

Sheen testing involves placing soil in water and observing the water surface for signs of sheen. Sheens observed are classified as follows:

No Sheen (NS)	No visible sheen on the water surface.
Slight Sheen (SS)	Light colorless sheen, spread is irregular, not rapid; film dissipates rapidly.
Moderate Sheen (MS)	Light to heavy film, may have some color or iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface.
Heavy Sheen (HS)	Heavy colorful film with iridescence; spread is rapid, and sheen flows off the sample; entire water surface may be covered with sheen.

Headspace vapor screening involves placing a soil sample in a plastic sample bag. Air is captured in the bag and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a Bacharach TLV Sniffer is inserted in the bag and the TLV Sniffer records the concentrations of combustible vapor in the air removed from the sample headspace. The TLV Sniffer records concentrations in parts per million (ppm) and is calibrated to hexane. The TLV Sniffer is designed to quantify combustible gas concentrations in the range between 100 and 10,000 ppm.

Field screening results are site and boring specific. The results vary with temperature, soil type, soil moisture content and type of contaminant.

VAPOR PROBE CONSTRUCTION

Two-inch-diameter, Schedule 40 PVC pipe was installed in Boring VP-1 at the completion of drilling. The lower portion of the PVC pipe is machine slotted (0.02-inch slot width) to allow entry of hydrocarbon vapors and water (if present) into the well casing. Medium sand was placed in the borehole annulus surrounding the slotted portion of the PVC pipe. Vapor probe construction is indicated in Figure A-3.

CHEMICAL ANALYTICAL PROGRAM

One soil sample was analyzed by Analytical Technologies, Inc. The soil sample was analyzed for total petroleum hydrocarbons using freon extraction/infrared spectroscopy detection in accordance with EPA Method 418.1. Gas chromatography detection was used to quantify benzene, ethylbenzene, toluene and xylenes in accordance with EPA Method 8020.

The analytical data are presented in Appendix B.

SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE GRAINED SOILS MORE THAN 50% RETAINED ON NO. 200 SIEVE	GRAVEL MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVEL	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL
			GP	POORLY-GRADED GRAVEL
		GRAVEL WITH FINES	GM	SILTY GRAVEL
			GC	CLAYEY GRAVEL
	SAND MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE	CLEAN SAND	SW	WELL-GRADED SAND, FINE TO COARSE SAND
			SP	POORLY-GRADED SAND
		SAND WITH FINES	SM	SILTY SAND
			SC	CLAYEY SAND
FINE GRAINED SOILS MORE THAN 50% PASSES NO. 200 SIEVE	SILT AND CLAY LIQUID LIMIT LESS THAN 50	INORGANIC	ML	SILT
			CL	CLAY
		ORGANIC	OL	ORGANIC SILT, ORGANIC CLAY
	SILT AND CLAY LIQUID LIMIT 50 OR MORE	INORGANIC	MH	SILT OF HIGH PLASTICITY, ELASTIC SILT
			CH	CLAY OF HIGH PLASTICITY, FAT CLAY
		ORGANIC	OH	ORGANIC CLAY, ORGANIC SILT
HIGHLY ORGANIC SOILS			PT	PEAT

NOTES:

1. Field classification is based on visual examination of soil in general accordance with ASTM D2488-83.
2. Soil classification using laboratory tests is based on ASTM D2487-83.
3. Descriptions of soil density or consistency are based on interpretation of blowcount data, visual appearance of soils, and/or test data.

SOIL MOISTURE MODIFIERS:

Dry – Absence of moisture, dusty, dry to the touch

Moist – Damp, but no visible water

Wet – Visible free water or saturated, usually soil is obtained from below water table

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GEI 85-88

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SOIL CLASSIFICATION SYSTEM

FIGURE A-1

LABORATORY TESTS:

CA Chemical Analysis

FIELD SCREENING TESTS:

Headspace vapor concentration data given in parts per million

Sheen classification system:

NS No Visible Sheen
SS Slight Sheen
MS Moderate Sheen
HS Heavy Sheen
NT Not Tested

SOIL GRAPH:

SM Soil Group Symbol (See Note 2)

Distinct Contact Between Soil Strata

Gradual or Approximate Location of Change Between Soil Strata

Water Level

Bottom of Boring

BLOW-COUNT/SAMPLE DATA:

Blows required to drive a 2.4-inch I.D. split-barrel sampler 12 inches or other indicated distances using a 300-pound hammer falling 30 inches.

22 — Location of relatively undisturbed sample

12 — Location of disturbed sample

17 — Location of sampling attempt with no recovery

Blows required to drive a 1.5-inch I.D. (SPT) split-barrel sampler 12 inches or other indicated distances using 140-pound hammer falling 30 inches.

10 — Location of sample obtained in general accordance with Standard Penetration Test (ASTM D-1586) procedures

26 — Location of SPT sampling attempt with no recovery

Location of grab sample

"P" indicates sampler pushed with weight of hammer or against weight of drill rig.

NOTES:

1. The reader must refer to the discussion in the report text, the Key to Boring Log Symbols and the exploration logs for a proper understanding of subsurface conditions.

2. Soil classification system is summarized in Figure A-1.

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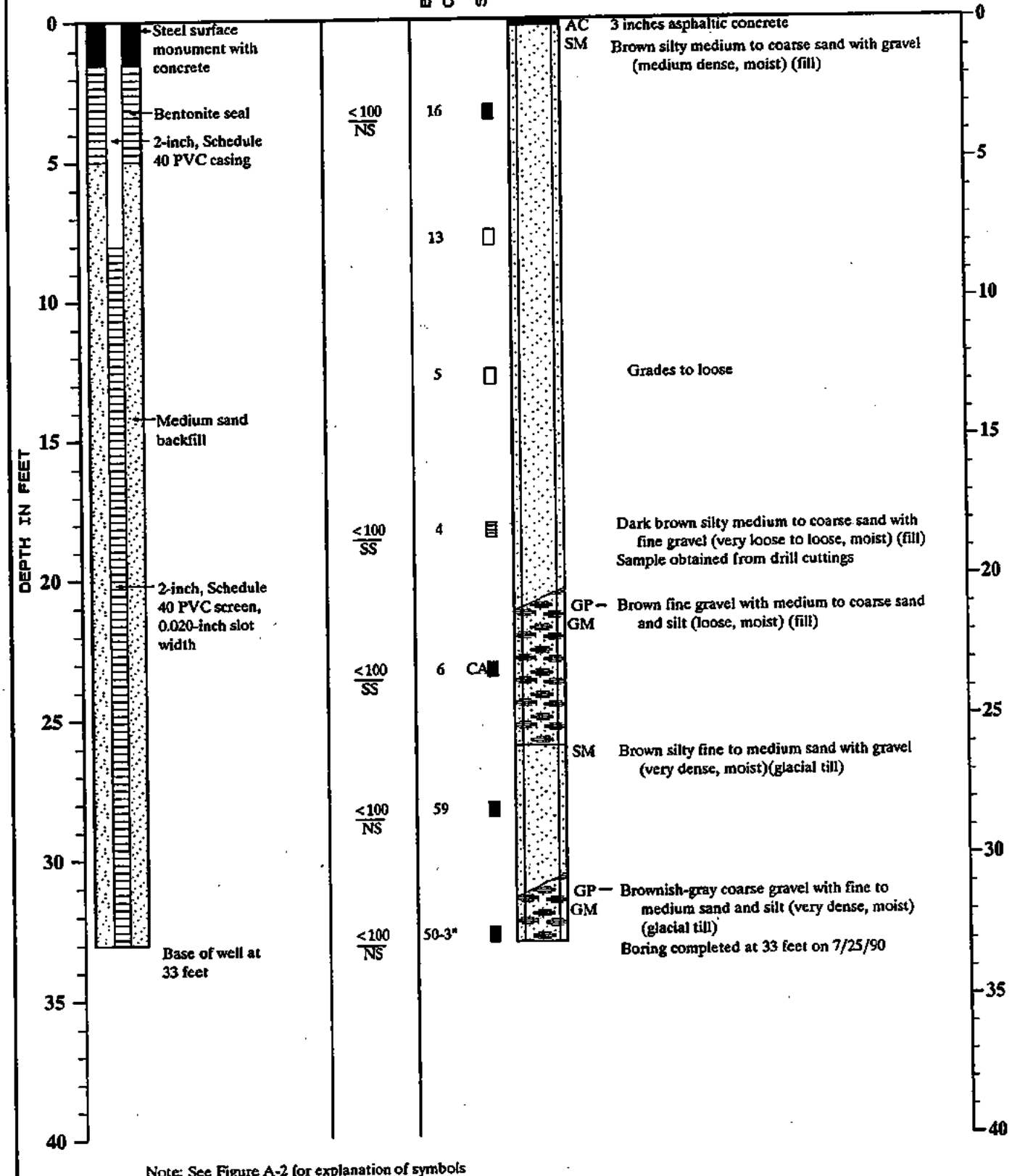
KEY TO BORING LOG SYMBOLS

FIGURE A-2

VAPOR PROBE NO. VP-1



Note: See Figure A-2 for explanation of symbols

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Log of Vapor Probe

Figure A-3

!SAK:TTF:KKT 9/20/90

0161-041-B04

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9012-122

GeoEngineers

DEC 27 1990

Routing JF

File

December 26, 1990

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Julia Fowler

Project Number : 0161-041-B04

Project Name : Unocal - Federal Way

On December 13, 1990, Analytical Technologies, Inc., received eight soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Mary C. Silva
Senior Project Manager

FWG/elf

Frederick W. Grothkopp
Technical Manager

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9012-122-1	WO-1 (N BASE)	12/13/90	SOIL
9012-122-2	WO-2 (N WALL)	12/13/90	SOIL
9012-122-3	WO-3 (N WALL)	12/13/90	SOIL
9012-122-4	WO-4 (W BASE)	12/13/90	SOIL
9012-122-5	WO-5 (S BASE)	12/13/90	SOIL
9012-122-6	WO-6 (CENTER BASE)	12/13/90	SOIL
9012-122-7	WO-7 (E BASE)	12/13/90	SOIL
9012-122-8	WO-8 (COMPOSITE)	12/13/90	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	8

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 12/13/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-1 (N BASE)	DATE ANALYZED	: 12/13/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-2 (N WALL)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-3 (N WALL)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-4 (W BASE)	DATE ANALYZED	: 12/13/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-5 (S BASE)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-6 (CENTER BASE)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-7 (E BASE)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-8 (COMPOSITE)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9012-122-4
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE ANALYZED	: 12/13/90
EPA METHOD	: 8015 MODIFIED	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	CONC SPIKED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % RECOVERY	RPD
FUEL HYDROCARBONS	<5	500	502	100	474	95	6

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY UNITS : mg/Kg

ATI I.D.#	CLIENT I.D.	PETROLEUM HYDROCARBONS
9012-122-1	WO-1 (N BASE)	210
9012-122-2	WO-2 (N WALL)	21
9012-122-3	WO-3 (N WALL)	28
9012-122-4	WO-4 (W BASE)	<5
9012-122-5	WO-5 (S BASE)	8
9012-122-6	WO-6 (CENTER BASE)	21
9012-122-7	WO-7 (E BASE)	26
9012-122-8	WO-8 (COMPOSITE)	55

GENERAL CHEMISTRY QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

MATRIX : SOIL

UNITS : mg/Kg

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
PETROLEUM HYDROCARBONS	9012-122-8	55	61	9	301	250	98

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

DATE 12-13-90 PAGE 1 OF 1

LABORATORY NUMBER: 9012-122

PROJECT MANAGER: Julia Fowler
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, #105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert Miyahira

SAMPLE DISPOSAL INSTRUCTIONS
☒ ATI Disposal @ $5.00 each ☐ Return

	SAMPLE ID	DATE	TIME	MATRIX	LAB ID
12'	WO-1 (N base)	12-13-90	1305	Soil	1
7'	WO-2 (N wall)		1310		2
2'	WO-3 (N wall)		1310		3
12'	WO-4 (W base)		1315		4
12'	WO-5 (S base)		1315		5
13'	WO-6 (center base)		1320		6
12'	WO-7 (E base)		1320		7
	WO-8 (composite)	↓	1330	↓	8

ANALYSIS REQUEST

LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	9015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (8)			NUMBER OF CONTAINERS
1												X		X													1
2												X		X													1
3												X		X													1
4												X		X													1
5												X		X													1
6												X		X													1
7												X		X													1
8												X		X													1

PROJECT INFORMATION
PROJECT NUMBER: 0161-041-B04
PROJECT NAME: Unocal - Federal Way
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☐ NO ☐

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS: 8
COC SEALS/INTACT? Y/N/NA: N/A
RECEIVED GOOD COND./COLD: ✓
RECEIVED VIA: Hand del

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: contact Julia Fowler w/results

For Unocal Service Station #6227

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Robert Miyahira Time: 1430	Signature: Time:	Signature: Time:
Printed Name: Robert Miyahira Date: 12-13-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc.	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: T Landreth Time: 14:30	Signature: Time:	Signature: Time:
Printed Name: T. Landreth Date: 12/13/90	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

B - 16

No. 2342

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055. (206) 228-8335

ATI I.D. # 9101-003

GeoEngineers

JAN 11 1991

Routing

File

January 10, 1991

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 0161-041-B04

Project Name : Unocal-Federal Way

On January 2, 1991, Analytical Technologies, Inc., received 13 soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Bob A. Olsiewski
Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/tc

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-003-1	SP-1 (GAS STOCKPILE-WEST)	12/31/90	SOIL
9101-003-2	SP-2 (GAS STOCKPILE-EAST)	12/31/90	SOIL
9101-003-3	PL-1 (SOUTH ISLAND-WEST)	12/31/90	SOIL
9101-003-4	PL-2 (SOUTH ISLAND-EAST)	12/31/90	SOIL
9101-003-5	PL-3 (NW ISLAND-NORTH)	12/31/90	SOIL
9101-003-6	PL-4 (NE ISLAND-SOUTH)	12/31/90	SOIL
9101-003-7	PL-5 (NW ISLAND-SOUTH)	12/31/90	SOIL
9101-003-8	G-1 (SOUTH BASE)	12/31/90	SOIL
9101-003-9	G-2 (SW BASE)	12/31/90	SOIL
9101-003-10	G-3 (NORTH BASE)	12/31/90	SOIL
9101-003-11	G-4 (NW BASE)	12/31/90	SOIL
9101-003-12	G-5 (EAST BASE)	12/31/90	SOIL
9101-003-13	WO-8 (NORTH BASE)	12/31/90	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	13

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R
MOISTURE	GRAVIMETRIC	METHOD 7-2.2	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	95

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: SP-1 (GAS STOCKPILE-WEST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	90

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: SP-2 (GAS STOCKPILE-EAST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	86

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-1 (SOUTH ISLAND-WEST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	86

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-2 (SOUTH ISLAND-EAST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	85

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-3 (NW ISLAND-NORTH)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	0.096
TOLUENE	<0.025
TOTAL XYLENES	1.6

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	94

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-4 (NE ISLAND-SOUTH)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	85

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-5 (NW ISLAND-SOUTH)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	78

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-1 (SOUTH BASE)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	80

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-2 (SW BASE)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	85

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-3 (NORTH BASE)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	75

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-4 (NW BASE)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY	
BROMOFLUOROBENZENE	78

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-5 (EAST BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	79

PURGEABLE AROMATICS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9101-003-1
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE ANALYZED	: 01/02/91
EPA METHOD	: 8020 (BETX)	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % REC	RPD
BENZENE	<0.025	1.0	0.803	80	0.798	80	1
TOLUENE	<0.025	1.0	0.823	82	0.744	74	10
TOTAL XYLENES	<0.025	2.0	1.67	84	1.53	77	9

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: SP-1 (GAS STOCKPILE-WEST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: SP-2 (GAS STOCKPILE-EAST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-1 (SOUTH ISLAND-WEST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-2 (SOUTH ISLAND-EAST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-3 (NW ISLAND-NORTH)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	110
HYDROCARBON RANGE	C8 - C12
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-4 (NE ISLAND-SOUTH)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-5 (NW ISLAND-SOUTH)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-1 (SOUTH BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-2 (SW BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-3 (NORTH BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-4 (NW BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-5 (EAST BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: WO-8 (NORTH BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9101-003-4
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE ANALYZED	: 01/02/91
EPA METHOD	: 8015 MODIFIED	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	CONC SPIKED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % RECOVERY	RPD
FUEL HYDROCARBONS	<5	500	421	84	420	84	0

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

SAMPLE MATRIX : SOIL
UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	PETROLEUM HYDROCARBONS
9101-003-13	WO-8 (NORTH BASE)	47
REAGENT BLANK	-	<5

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

SAMPLE MATRIX : SOIL
UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9101-003-1	SP-1 (GAS STOCKPILE-WEST)	11
9101-003-2	SP-2 (GAS STOCKPILE-EAST)	9.2
9101-003-3	PL-1 (SOUTH ISLAND-WEST)	11
9101-003-4	PL-2 (SOUTH ISLAND-EAST)	10
9101-003-5	PL-3 (NW ISLAND-NORTH)	12
9101-003-6	PL-4 (NE ISLAND-SOUTH)	12
9101-003-7	PL-5 (NW ISLAND-SOUTH)	15
9101-003-8	G-1 (SOUTH BASE)	21
9101-003-9	G-2 (SW BASE)	16
9101-003-10	G-3 (NORTH BASE)	21
9101-003-11	G-4 (NW BASE)	14
9101-003-12	G-5 (EAST BASE)	11

GENERAL CHEMISTRY QUALITY CONTROL

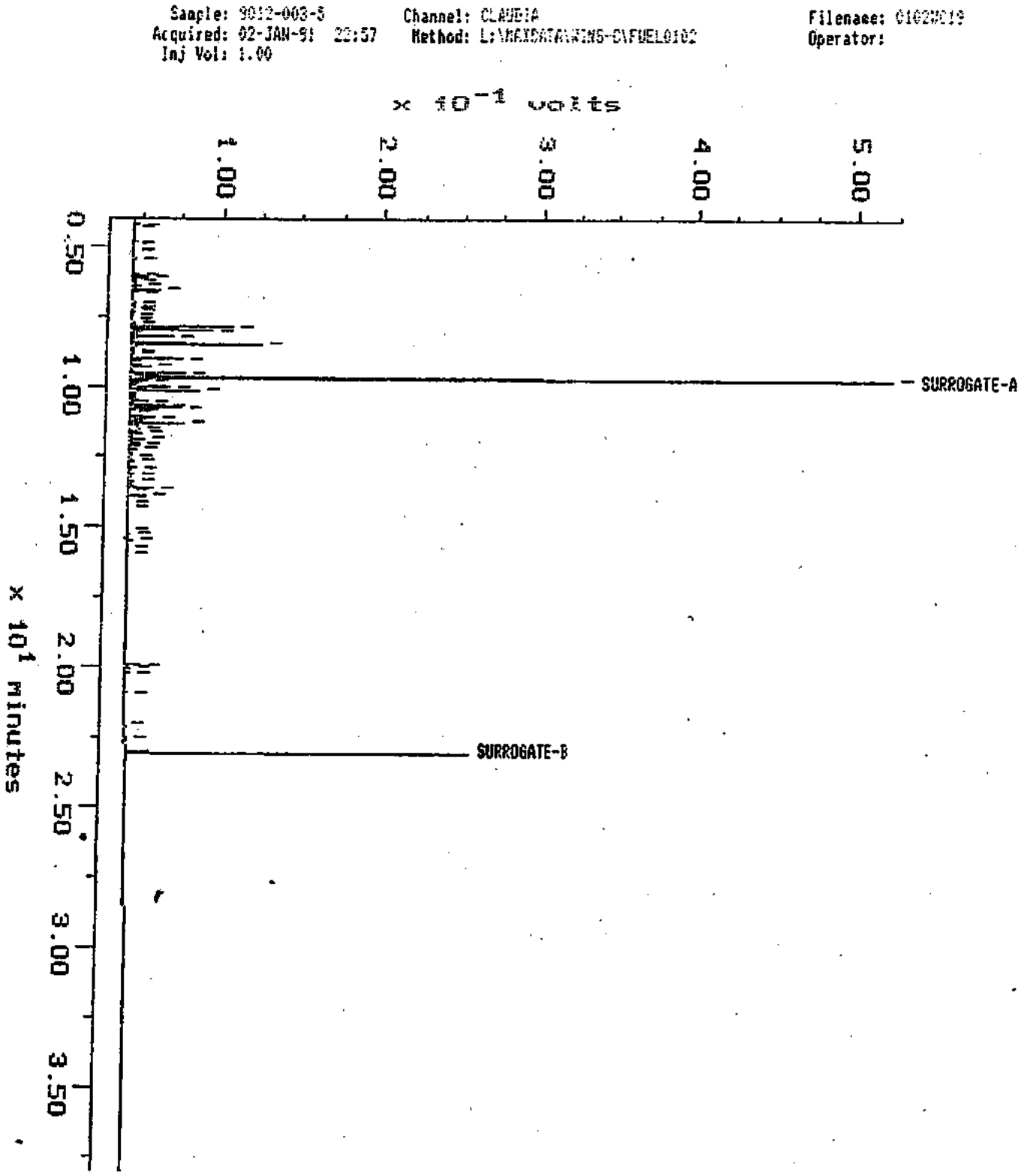
CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

SAMPLE MATRIX : SOIL

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
PETROLEUM HYDROCARBONS	mg/Kg	9101-003-13	47	43	9	306	252	103
MOISTURE	%	9101-003-6	12	11	9	N/A	N/A	N/A
MOISTURE	%	9101-003-12	11	11	0	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$


Sample: 9012-003-S
Acquired: 02-JAN-91 22:57
Inj Vol: 1.00
Channel: CLAUDIA
Method: L:\MAINDATA\WIN5-D\FUEL0102
Filename: 0102W019
Operator:
x 10⁻¹ volts
1.00
2.00
3.00
4.00
5.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
x 10¹ minutes
SURROGATE-A
SURROGATE-B

Analytical Technologies, Inc.

560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

DATE 1-2-91 IV PAGE 1 OF 1

Chain of Custody LABORATORY NUMBER: 9101-003

PROJECT MANAGER: Terry Fisk
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, # 105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert N. Miyahira

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (8)			NUMBER OF CONTAINERS
SP-1 (gas stockpile - west)	12-31-90	1105	soil	-1			X											X													1
SP-2 (gas stockpile - east)		1110		-2			X											X													1
PL-1 (south island - west)		1355		-3			X											X													1
PL-2 (south island - east)		1400		-4			X											X													1
PL-3 (NW island - north)		1435		-5			X											X													1
PL-4 (NE island - south)		1445		-6			X											X													1
PL-5 (NW island - south)		1505		-7			X											X													1
G-1 (south base)		1420		-8			X											X													1
G-2 (SW base)		1430		-9			X											X													1
G-3 (north base)		1450		-10			X											X													1
G-4 (NW base)		1500		-11			X											X													1
G-5 (east base)		1520		-12			X											X													1

PROJECT INFORMATION

PROJECT NUMBER: 0161-041-B04
PROJECT NAME: Unocal - Federal Way
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	13
COC SEALS/INTACT? Y/N/NA *	Y
RECEIVED GOOD COND./COLD	Y
RECEIVED VIA:	Courier

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: Contact Terry Fisk with results

For Unocal Service Station #6227

RELINQUISHED BY: 1	RELINQUISHED BY: 2	RELINQUISHED BY: 3
Signature: Time: 1730	Signature: Time:	Signature: Time:
Printed Name: Robert Miyahira Date: 12-31-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc.	Company:	Company:
RECEIVED BY: 1	**RECEIVED BY: 2**	**RECEIVED BY: (LAB) 3**
Signature: DK Thomas Time: 10:45	Signature: Time:	Signature: Time:
Printed Name: DK Thomas Date: 1-2-91	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

Nº 3148

Analytical Technologies, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

DATE 12-31-90 PAGE 2 OF 2

LABORATORY NUMBER: 9101-003

PROJECT MANAGER: Terry Fisk
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, #105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert N. Miyahira

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
WD-8 (north base)	12-31-90	1530	soil	-13

ANALYSIS REQUEST

8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	TCLP ONLY: 8240 ZH-EXT	TCLP ONLY: 8270	TCLP ONLY: 8150 Herbicides (2)	TCLP ONLY: Metals (8)			NUMBER OF CONTAINERS
											X		X													13

PROJECT INFORMATION

PROJECT NUMBER: 0161-041-B04
PROJECT NAME: Unocal-Federal Way
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	13
COC SEALS/INTACT? Y/N/NA	Y/N/NA
RECEIVED GOOD COND./COLD	Y
RECEIVED VIA:	Courier

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK

GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: Contact Terry Fisk with results

For Unocal Service Station #6227

RELINQUISHED BY: 1	RELINQUISHED BY: 2	RELINQUISHED BY: 3
Signature: Time: 1730	Signature: Time:	Signature: Time:
Printed Name: Robert Miyahira Date: 12-31-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc.	Company:	Company:
RECEIVED BY: 1	**RECEIVED BY: 2**	**RECEIVED BY: (LAB) 3**
Signature: Time: 10:45	Signature: Time:	Signature: Time:
Printed Name: D.L. Thomas Date: 1-2-91	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

12½'

R - 54

10 28 54

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9101-053

GeoEngineers

JAN 17 1991

Routing

File

January 15, 1991

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 0161-041-B04

Project Name : Unocal Federal Way

On January 10, 1991, Analytical Technologies, Inc., received eight soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Bob A. Olsiewski
Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/elf

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-053-1	910109-PL-6	01/09/91	SOIL
9101-053-2	910109-PL-7	01/09/91	SOIL
9101-053-3	910109-PL-8	01/09/91	SOIL
9101-053-4	910109-PL-SP	01/09/91	SOIL
9101-053-5	910109-VW-1	01/09/91	SOIL
9101-053-6	910109-VW-2	01/09/91	SOIL
9101-053-7	910109-G-SP-A	01/09/91	SOIL
9101-053-8	910109-G-SP-B	01/09/91	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	8

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R
MOISTURE	GRAVIMETRIC	METHOD 7-2.2	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	99

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-6	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	91

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-7	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	96

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-8	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY	
BROMOFLUOROBENZENE	92

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-SP	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	92

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-G-SP-A	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	89

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-G-SP-B	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	92

PURGEABLE AROMATICS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9101-053-3
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE ANALYZED	: 01/10/91
EPA METHOD	: 8020 (BETX)	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % REC	RPD
BENZENE	<0.025	1.0	0.774	77	0.838	84	8
TOLUENE	<0.025	1.0	0.821	82	0.886	89	8
TOTAL XYLENES	<0.025	2.0	1.74	87	1.87	94	7

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-6	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-7	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-8	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-SP	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-VW-1	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-VW-2	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-G-SP-A	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-G-SP-B	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9101-053-3
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE ANALYZED	: 01/10/91
EPA METHOD	: 8015 MODIFIED	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	CONC SPIKED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % RECOVERY	RPD
FUEL HYDROCARBONS	<5	500	381	76	394	79	3

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

MATRIX : SOIL
UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	PETROLEUM HYDROCARBONS
9101-053-5	910109-VW-1	170
9101-053-6	910109-VW-2	280
REAGENT BLANK	-	<5

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

MATRIX : SOIL
UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9101-053-1	910109-PL-6	13
9101-053-2	910109-PL-7	16
9101-053-3	910109-PL-8	10
9101-053-4	910109-PL-SP	13
9101-053-7	910109-G-SP-A	12
9101-053-8	910109-G-SP-B	11

GENERAL CHEMISTRY QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

MATRIX : SOIL

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
PETROLEUM HYDROCARBONS	mg/Kg	9101-053-6	280	270	4	576	263	112
MOISTURE	%	9101-059-2	16	17	6	N/A	N/A	N/A

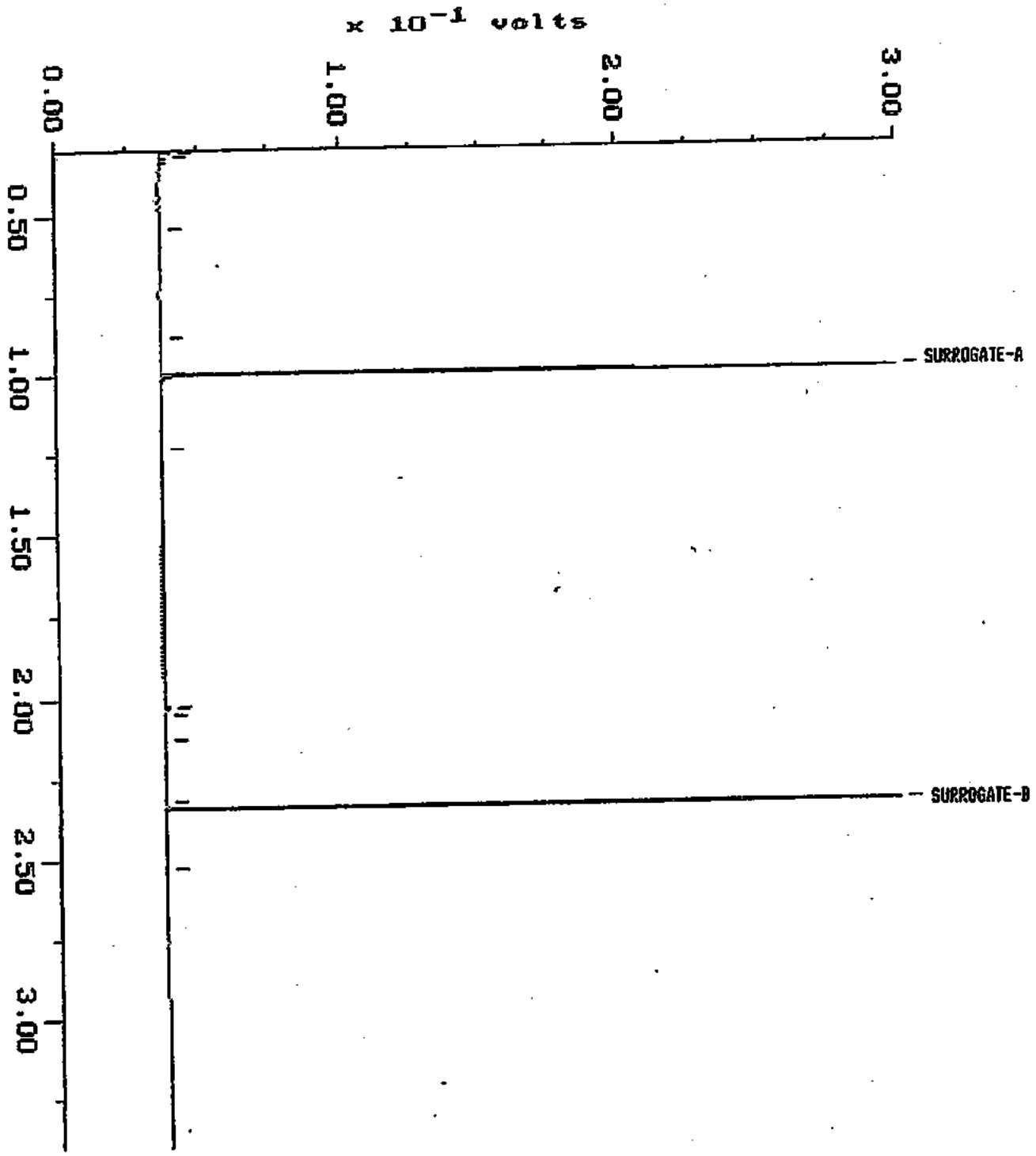
$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

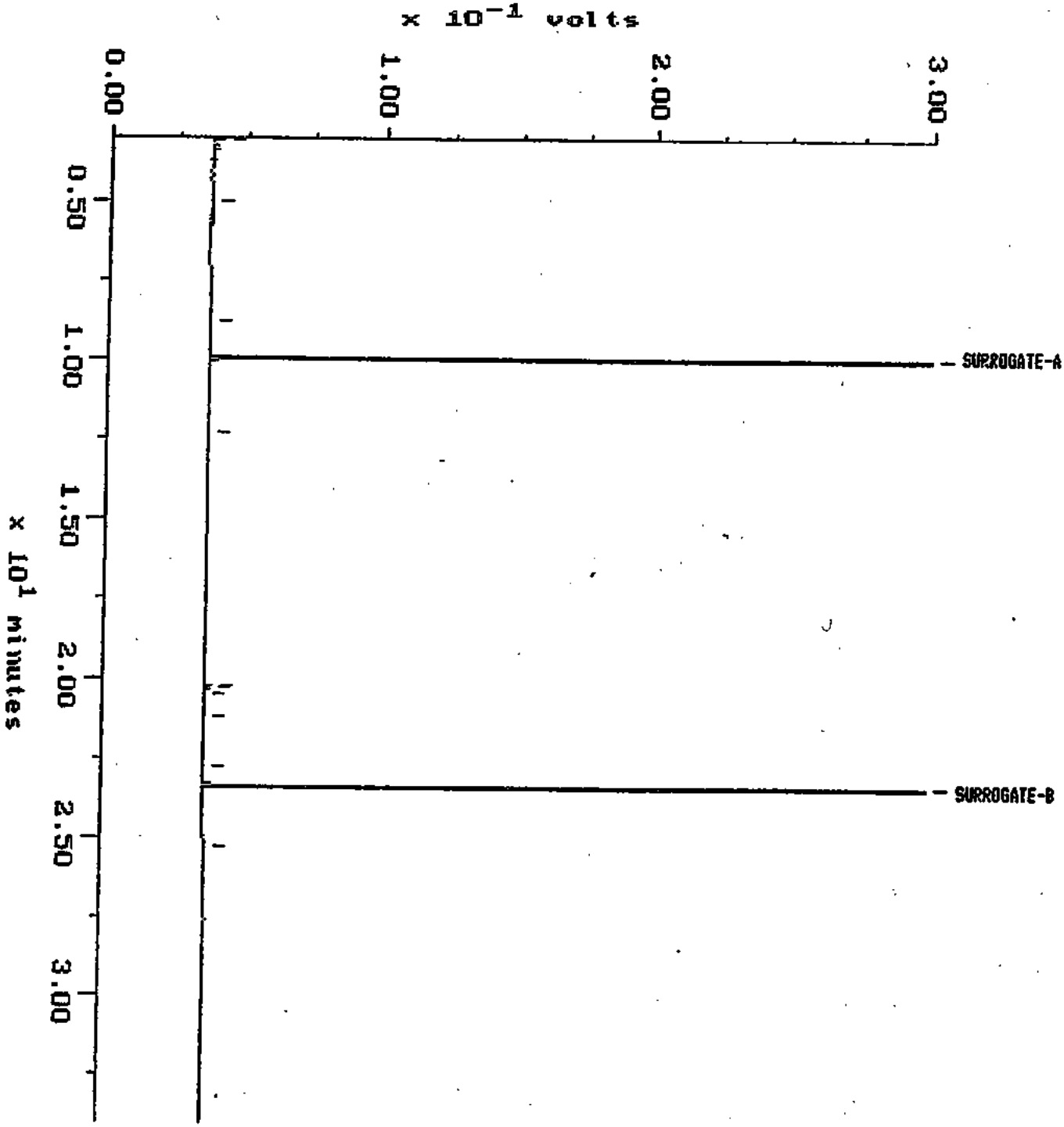
Sample: 9101-053-I
Acquired: 10-JAN-91 18:36
Inj Vol: 1.00

Channel: CLARENCE
Method: M:\MAXDATA\SERGE-C\FUEL0110

Filename: 0110SC09
Operator: BRE



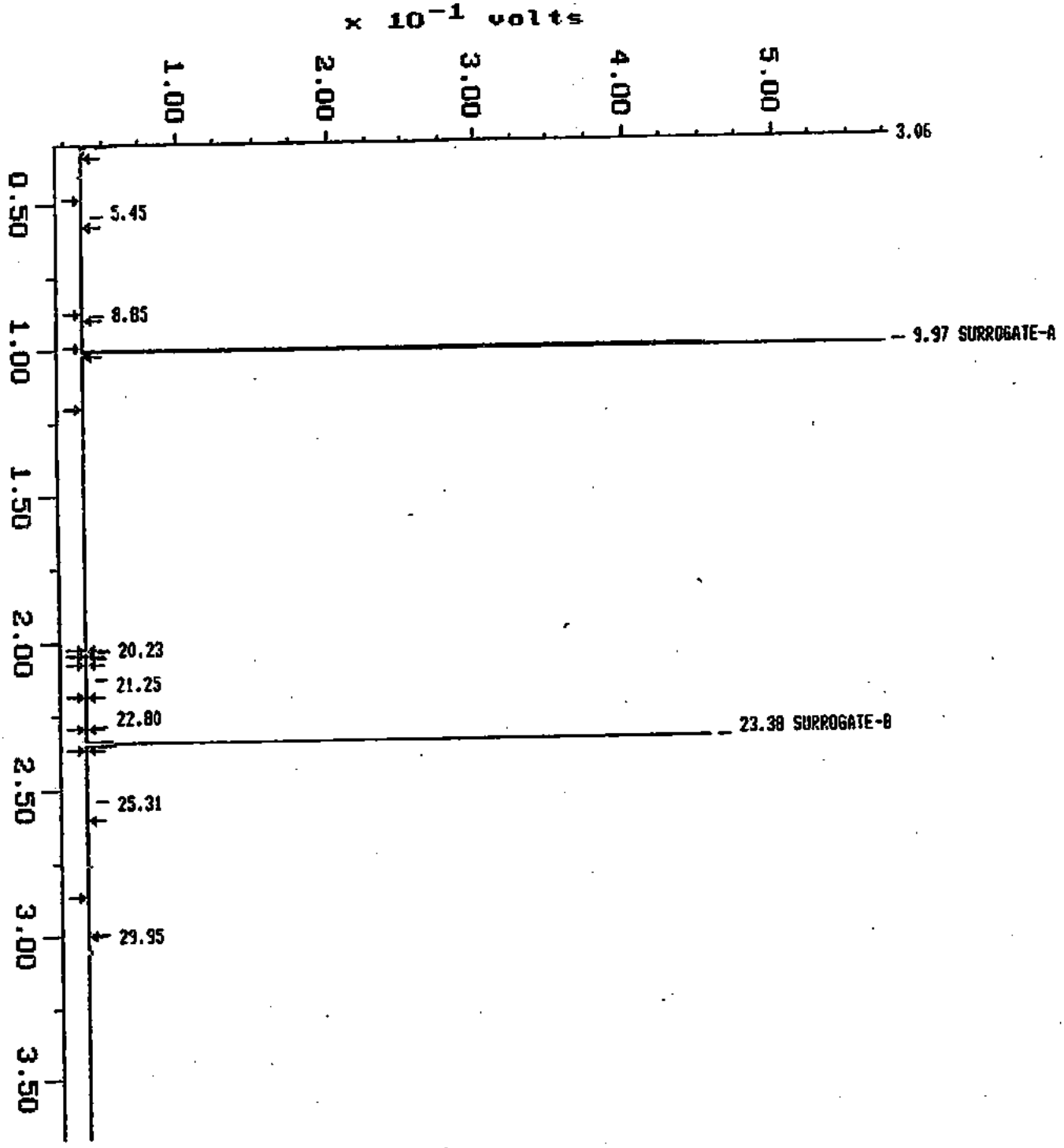
Sample: 9101-053-2 Channel: CLARENCE Filename: 0110SC10
Acquired: 10-JAN-91 19:23 Method: M:\MAXDATA\SERGE-C\FUEL0110 Operator: BRE
Inj Vol: 1.00

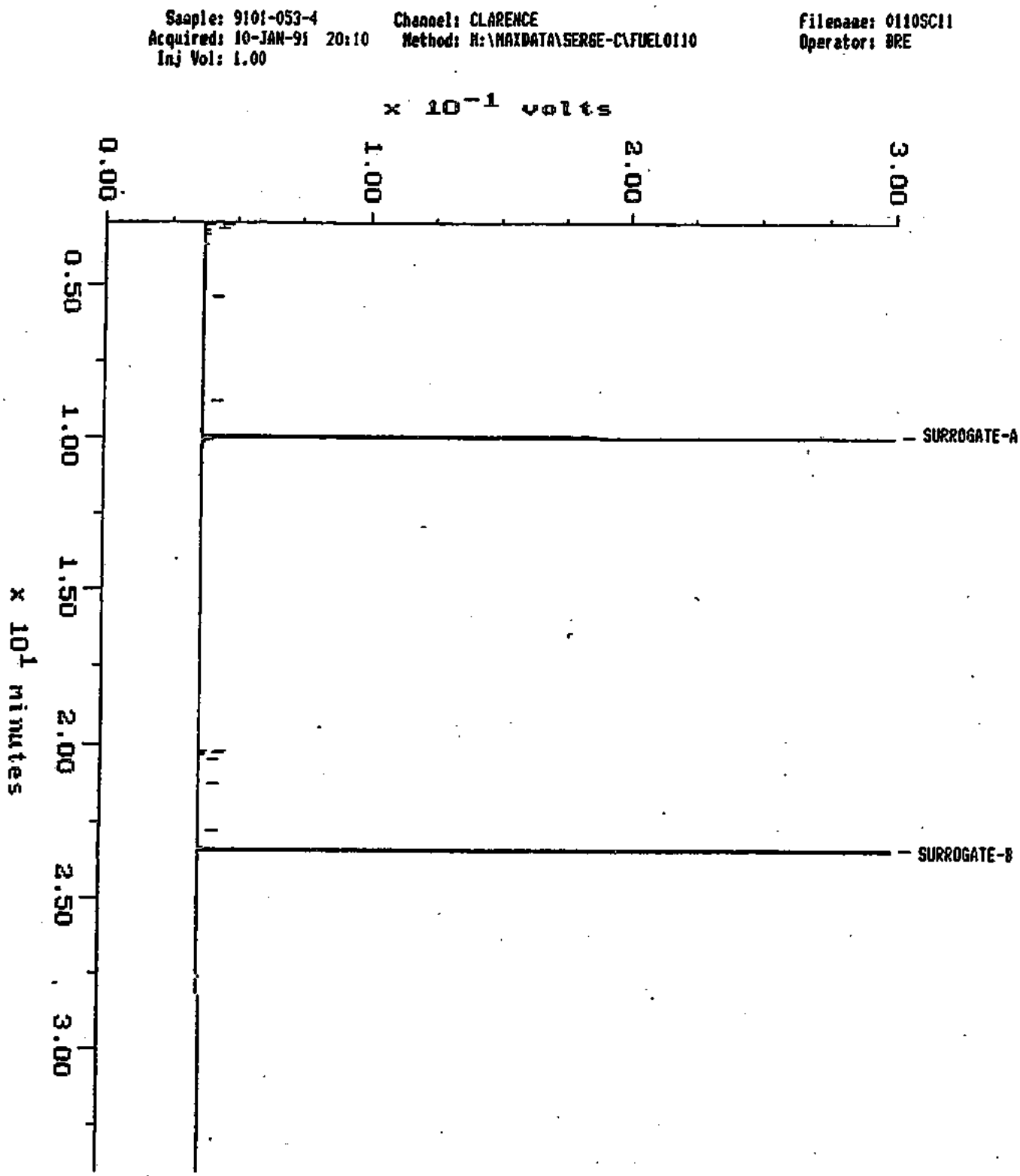


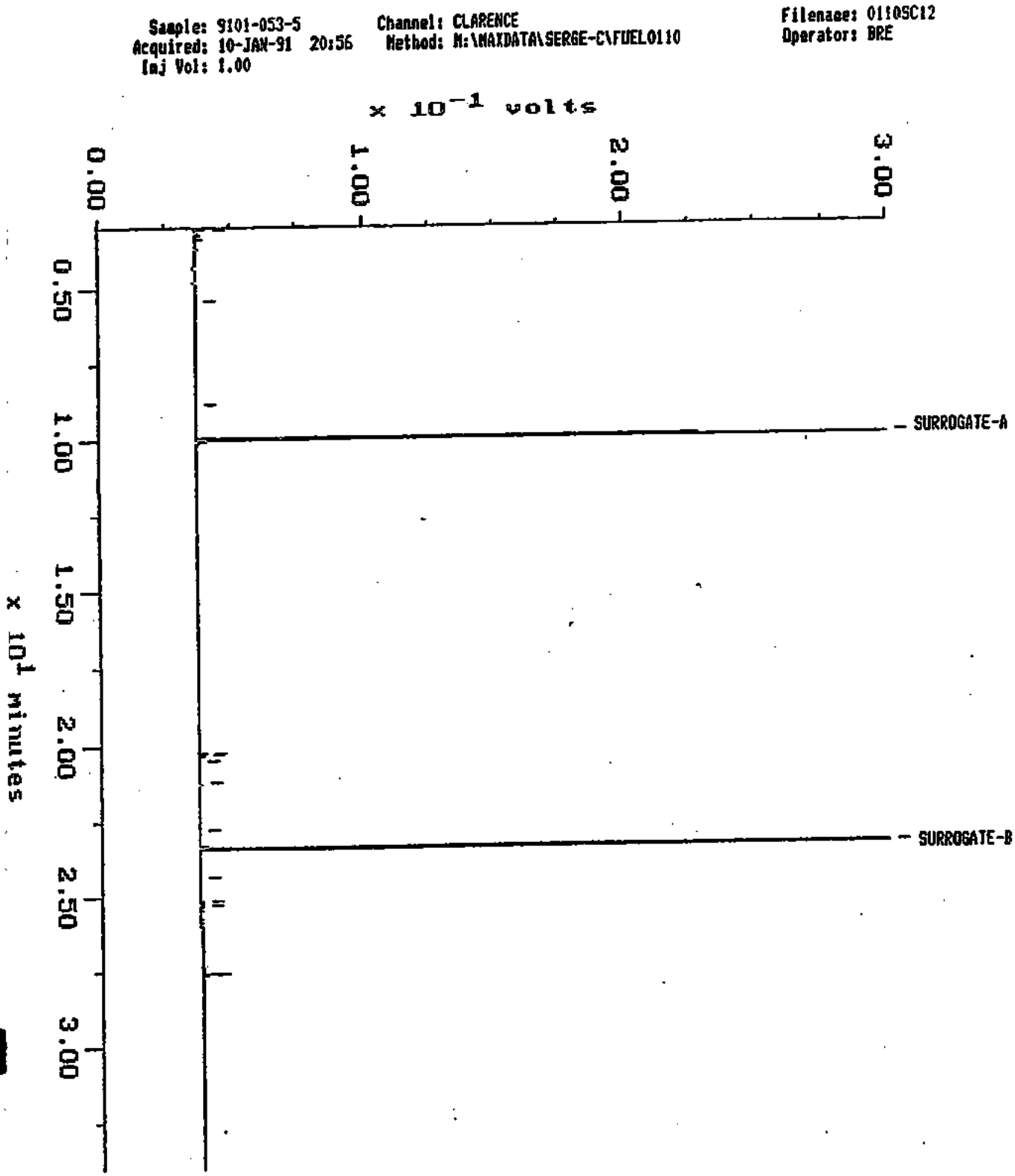
Sample: 9101-053-3
Acquired: 10-JAN-91 14:42
Inj Vol: 1.00

Channel: CLARENCE
Method: M:\MAXDATA\SERGE-C\FUEL0110

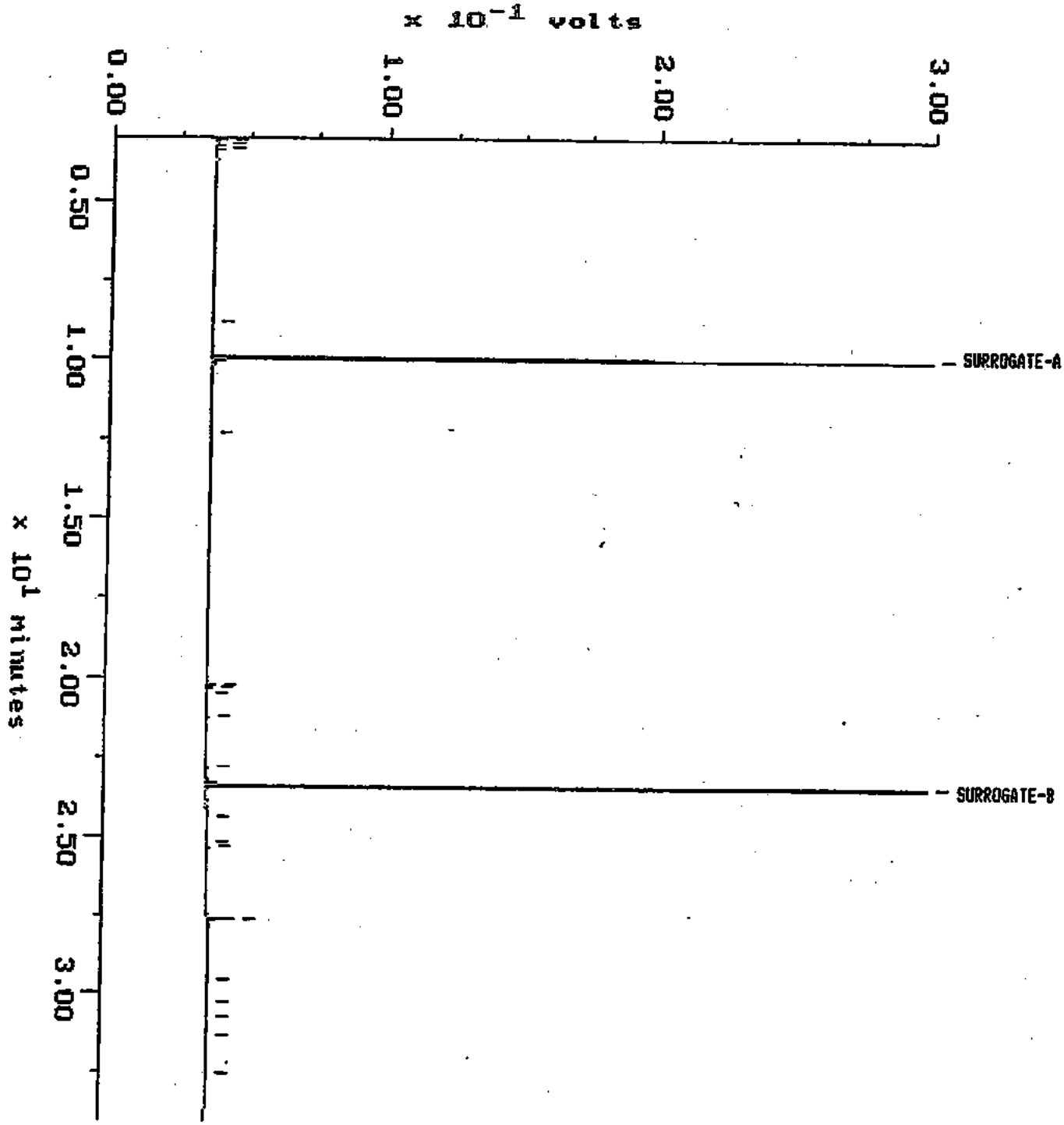
Filename: 0110SC04
Operator: BRE



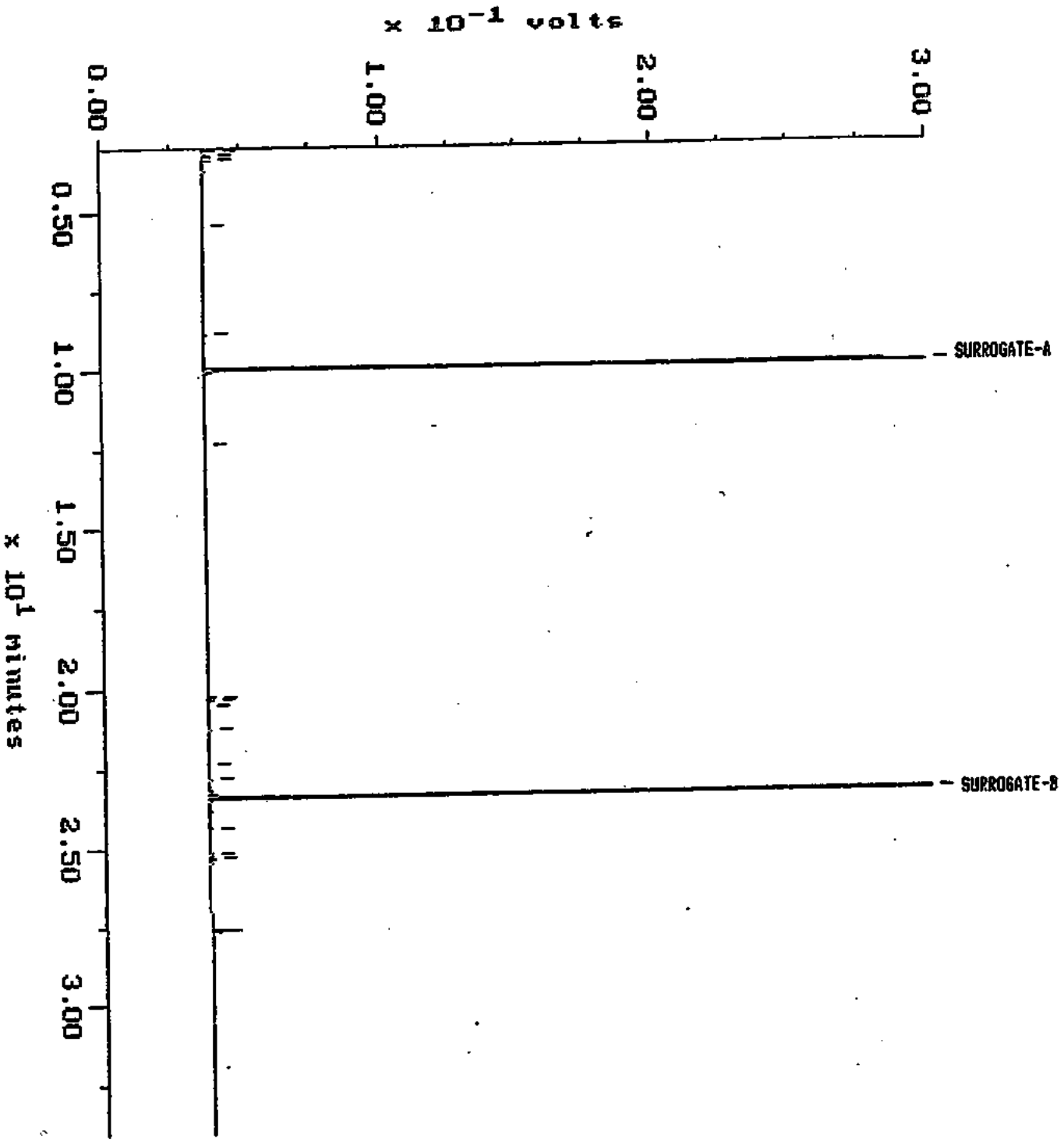

Sample: 9101-053-4
Acquired: 10-JAN-91 20:10
Inj Vol: 1.00
Channel: CLARENCE
Method: M:\MAXDATA\SERGE-C\FUEL0110
Filename: 0110SC11
Operator: BRE
x 10⁻¹ volts
0.00
1.00
2.00
3.00
0.50
1.00
1.50
2.00
2.50
3.00
x 10¹ minutes
SURROGATE-A
SURROGATE-B

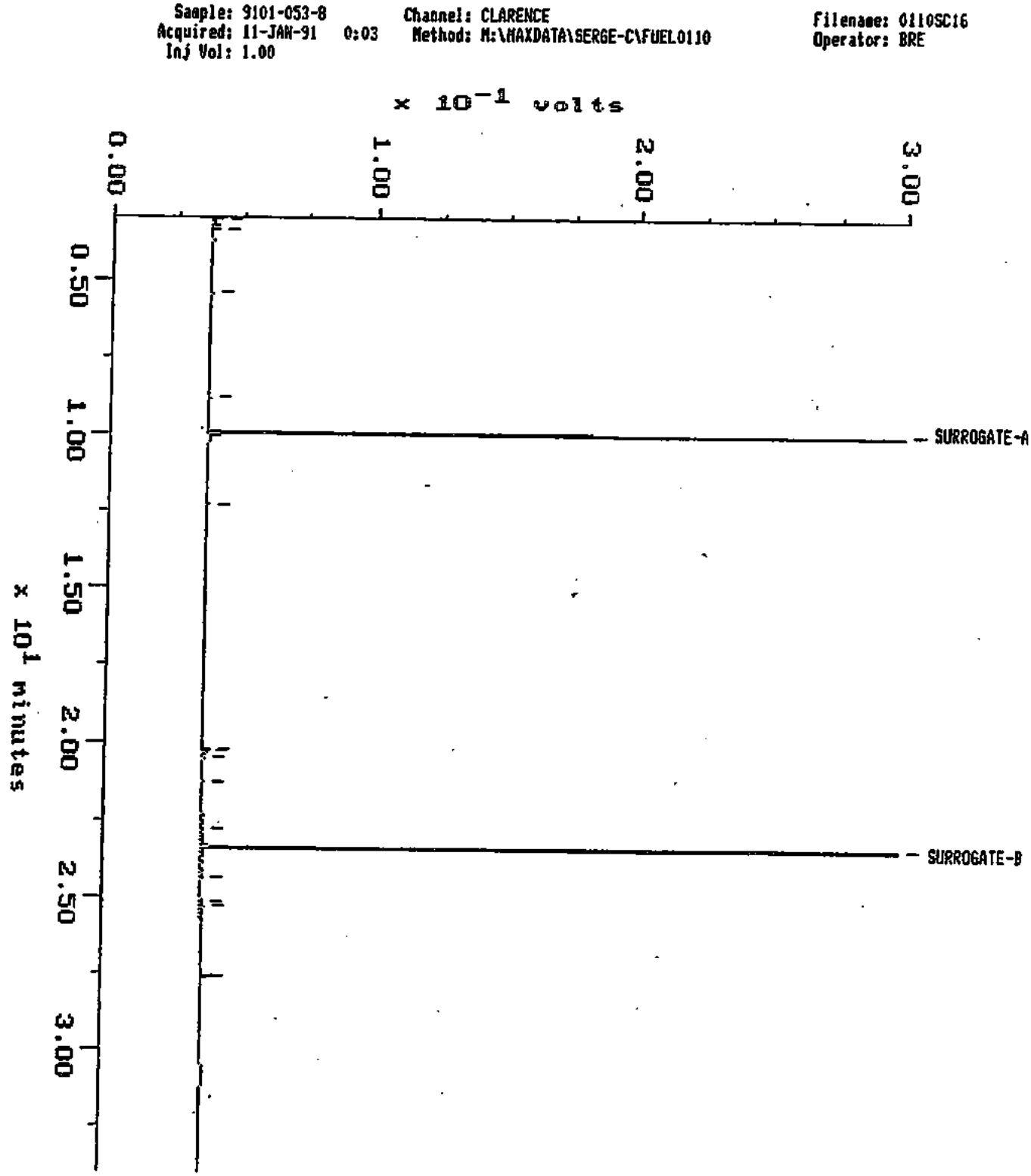

Sample: 9101-053-5
Acquired: 10-JAN-91 20:56
Inj Vol: 1.00
Channel: CLARENCE
Method: M:\MAXDATA\SERGE-C\FUEL0110
Filename: 0110SC12
Operator: BRE
x 10⁻¹ volts
0.00
1.00
2.00
3.00
0.50
1.00
1.50
2.00
2.50
3.00
x 10¹ minutes
SURROGATE-A
SURROGATE-B

Sample: 9010-053-6 Channel: CLARENCE Filename: 0110SC14
Acquired: 10-JAN-91 22:29 Method: M:\MAXDATA\SERGE-C\FUEL0110 Operator: BRE
Inj Vol: 1.00



Sample: 9101-053-7 Channel: CLARENCE Filename: 0110SC15
Acquired: 10-JAN-91 23:17 Method: M:\MAXDATA\SERGE-C\FUEL0110 Operator: BRE
Inj Vol: 1.00




Sample: 9101-053-8
Acquired: 11-JAN-91 0:03
Inj Vol: 1.00
Channel: CLARENCE
Method: M:\HAXDATA\SERGE-C\FUEL0110
Filename: 0110SC16
Operator: BRE
x 10⁻¹ volts
0.00
1.00
2.00
3.00
0.50
1.00
1.50
2.00
2.50
3.00
x 10¹ minutes
SURROGATE-A
SURROGATE-B

Analytical Technologies, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

DATE 1/9 PAGE ___ OF ___

Chain of Custody

LABORATORY NUMBER: 9101-053

PROJECT MANAGER: JERRY FISK
COMPANY: GEO ENGINEERS
ADDRESS: 2405 140TH AVE NE STE 105
BELLEVUE, WA 98005
PHONE: 746-5200 SAMPLED BY: DCH

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (8)			NUMBER OF CONTAINERS
910109-PL-6	1/9/96	1250	SOIL	1			X											X													1
910109-PL-7		1235	SOIL	2			X											X													1
910109-PL-8		1240	SOIL	3			X											X													1
910109-PL-SP		1300	SOIL	4			X											X													1
910109-VW-1		1330	SOIL	5												X		X													1
910109-VW-2		1600	SOIL	6												X		X													1
910109-G-SP-A		1400	SOIL	7			X											X													1
910109-G-SP-B	↓	1435	SOIL	8			X											X													1

PROJECT INFORMATION

PROJECT NUMBER: 0161-041-B04
PROJECT NAME: UNOCAL FEDERAL UNIT
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☑ NO ☐

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	8
COC SEALS/INTACT? Y/N/NA	N/A
RECEIVED GOOD COND./COLD	Y/4
RECEIVED VIA:	Hand Del

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☑ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☑ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: 55#6227
Send results to Jerry Fisk @ GE1

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Donald Hanson Time: 1005	Signature: Time:	Signature: Time:
Printed Name: DONALD HANSON Date: 1/10/96	Printed Name: Date:	Printed Name: Date:
Company: GE1	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time:	Signature: Time:	Signature: J. Pinnick Time: 1005
Printed Name: Date:	Printed Name: Date:	Printed Name: V. PINNICK Date: 1/10/96
Company:	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

NO 1042

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055. (206) 228-8335

ATI I.D. # 9101-069

GeoEngineers

JAN 21 1991

Routing

File

January 16, 1991

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 161-041-B04

Project Name : Unocal Federal Way

On January 11, 1991, Analytical Technologies, Inc., received four soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Kenneth C. Wahl for Bob A. Olsiewski
Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/tc

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-069-1	910110-VW-3	01/10/91	SOIL
9101-069-2	910110-VWSP-1	01/10/91	SOIL
9101-069-3	910110-VWSP-2	01/10/91	SOIL
9101-069-4	910110-VWSP-3	01/10/91	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	4

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/11/91
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 01/11/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/10/91
PROJECT #	: 161-041-B04	DATE RECEIVED	: 01/11/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/11/91
CLIENT I.D.	: 910110-VW-3	DATE ANALYZED	: 01/11/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/10/91
PROJECT #	: 161-041-B04	DATE RECEIVED	: 01/11/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/11/91
CLIENT I.D.	: 910110-VWSP-1	DATE ANALYZED	: 01/11/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/10/91
PROJECT #	: 161-041-B04	DATE RECEIVED	: 01/11/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/11/91
CLIENT I.D.	: 910110-VWSP-2	DATE ANALYZED	: 01/11/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/10/91
PROJECT #	: 161-041-B04	DATE RECEIVED	: 01/11/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/11/91
CLIENT I.D.	: 910110-VWSP-3	DATE ANALYZED	: 01/11/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9101-070-1
PROJECT #	: 161-041-B04	DATE EXTRACTED	: 01/11/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE ANALYZED	: 01/11/91
EPA METHOD	: 8015 MODIFIED	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	CONC SPIKED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % RECOVERY	RPD
FUEL HYDROCARBONS	<5	500	606	121	608	122	0

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY
SOIL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ANALYSIS	DATE PREPPED	DATE ANALYZED
PETROLEUM HYDROCARBONS	01/11/91	01/11/91

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

SAMPLE MATRIX : SOIL
UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	PETROLEUM HYDROCARBONS
9101-069-1	910110-VW-3	33
9101-069-2	910110-VWSP-1	34
9101-069-3	910110-VWSP-2	12
9101-069-4	910110-VWSP-3	50
REAGENT BLANK	-	<5

GENERAL CHEMISTRY QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

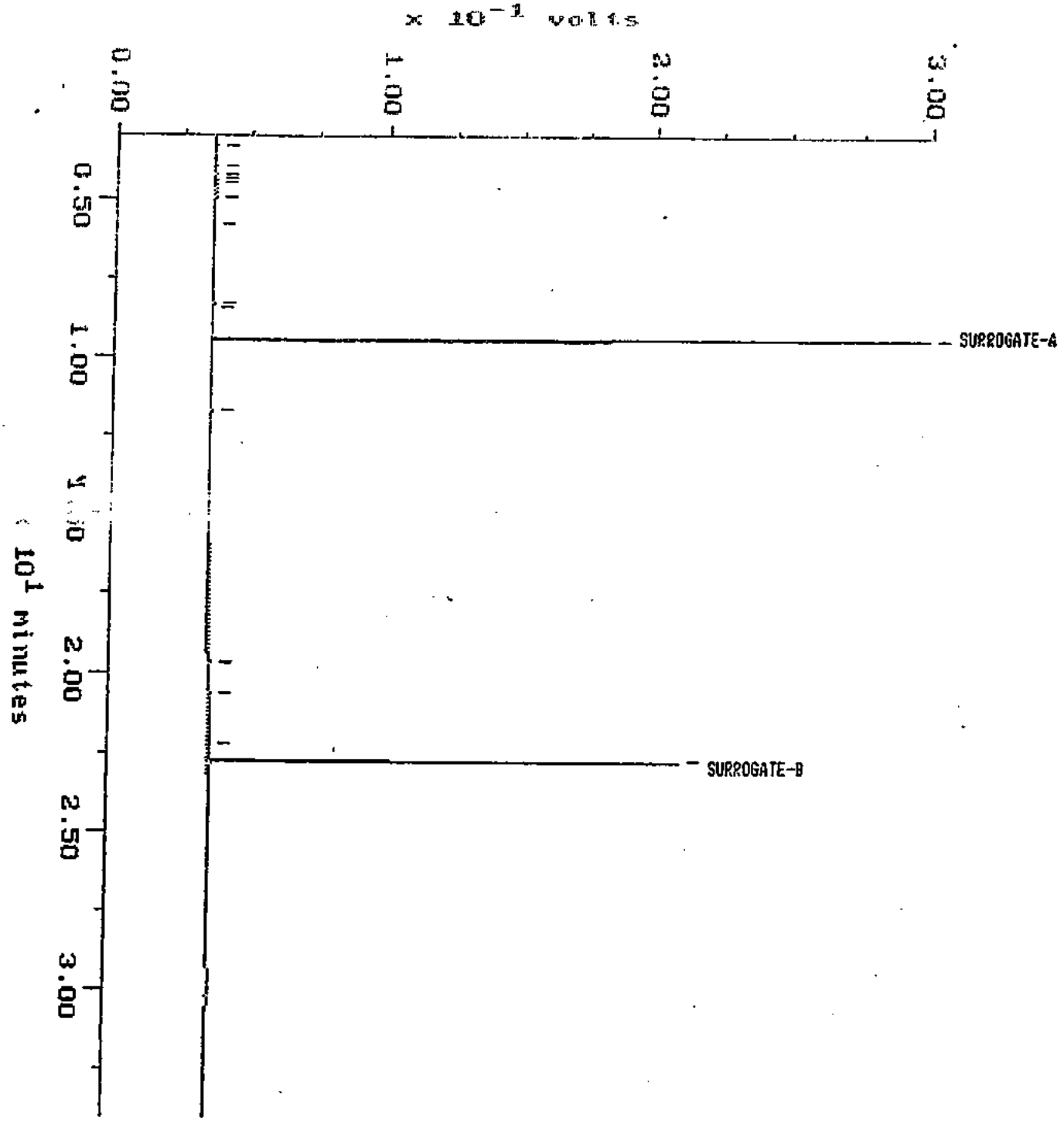
MATRIX : SOIL

UNITS : mg/Kg

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
PETROLEUM HYDROCARBONS	9101-070-2	48	51	6	282	244	96

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

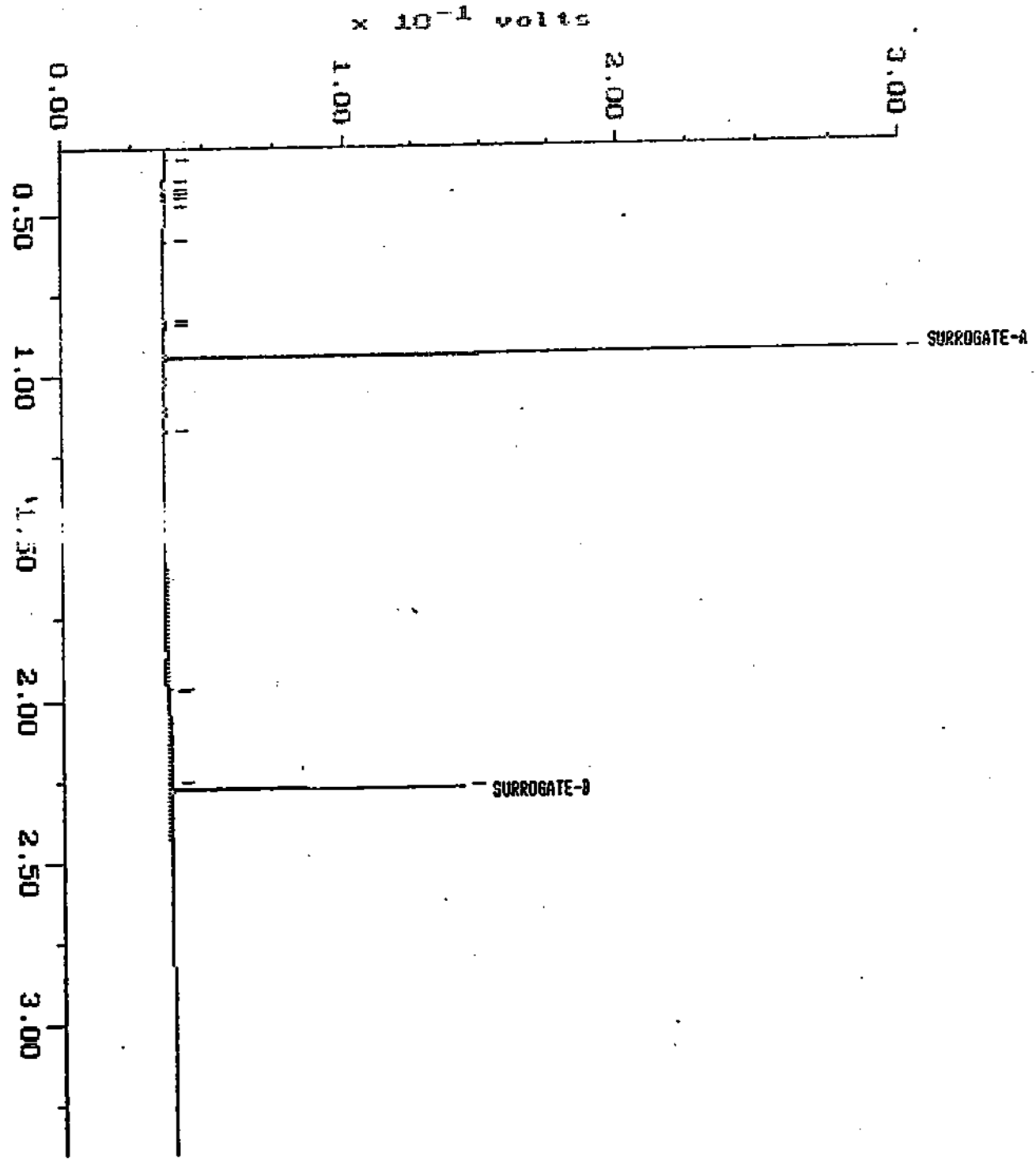
$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$


Sample: 9101-069-1
Acquired: 11-JAN-91 17:29
Inj Vol: 1.00
Channel: DEMITRI
Method: M:\MAXDATA\SERGE-D\FUEL0111
Filename: 01115D09
Operator: BRE
x 10⁻¹ volts
0.00
1.00
2.00
3.00
0.50
1.00
2.00
2.50
3.00
10⁻¹ minutes
SURROGATE-A
SURROGATE-B

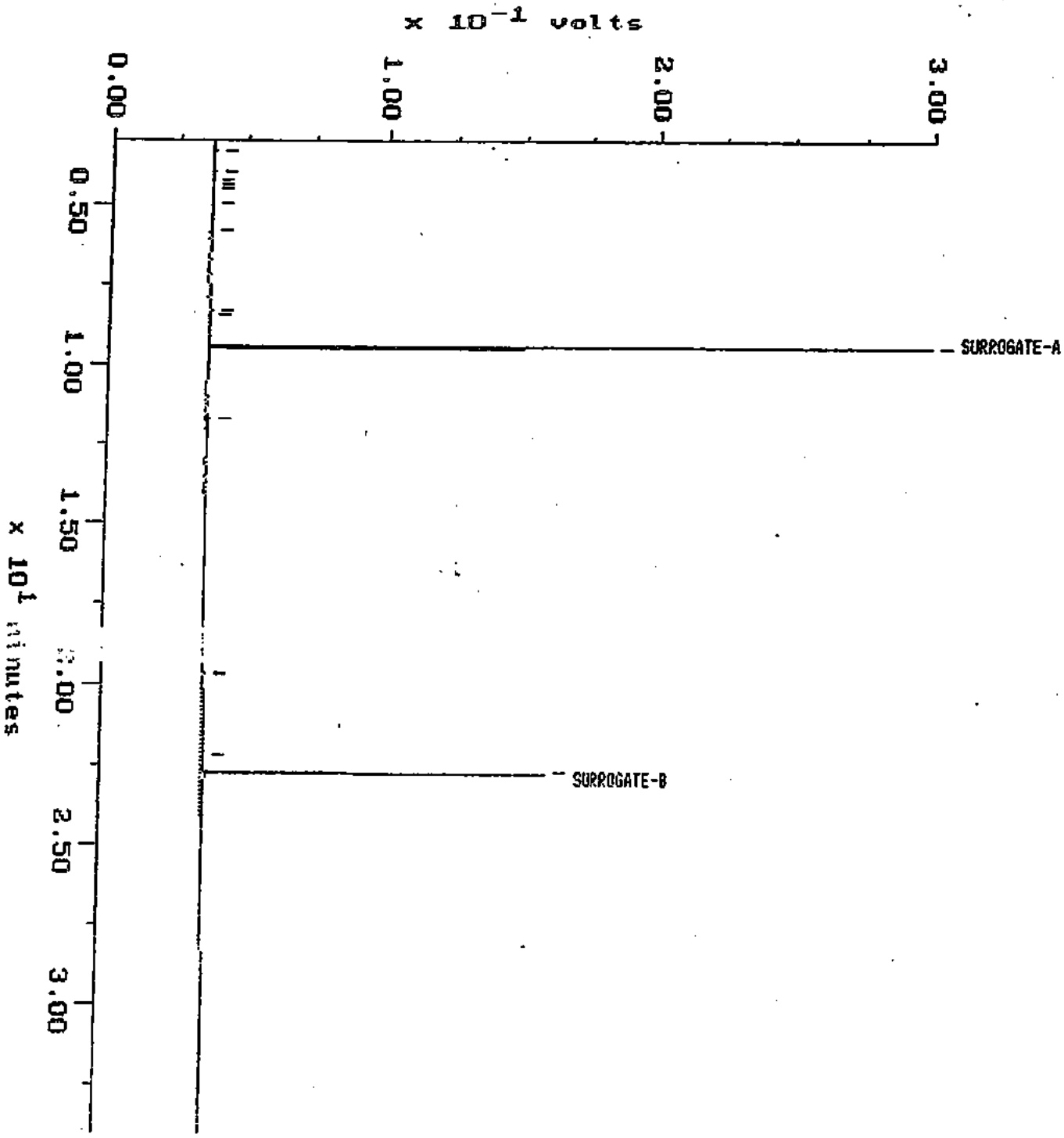
Sample: 9101-069-2
Acquired: 11-JAN-91 10:15
Inj Vol: 1.00

Channel: DEMITRI
Method: M:\MAYDATA\SERGE-D\FUEL0111

Filename: 01113010
Operator: BRE



Sample: 9101@69-3 Channel: BENITRI Filename: 0111SD12
Acquired: 11-JAN-91 19:49 Method: M:\MAXDATA\SERGE-D\FUEL0111 Operator: BRE
Inj Vol: 1.00

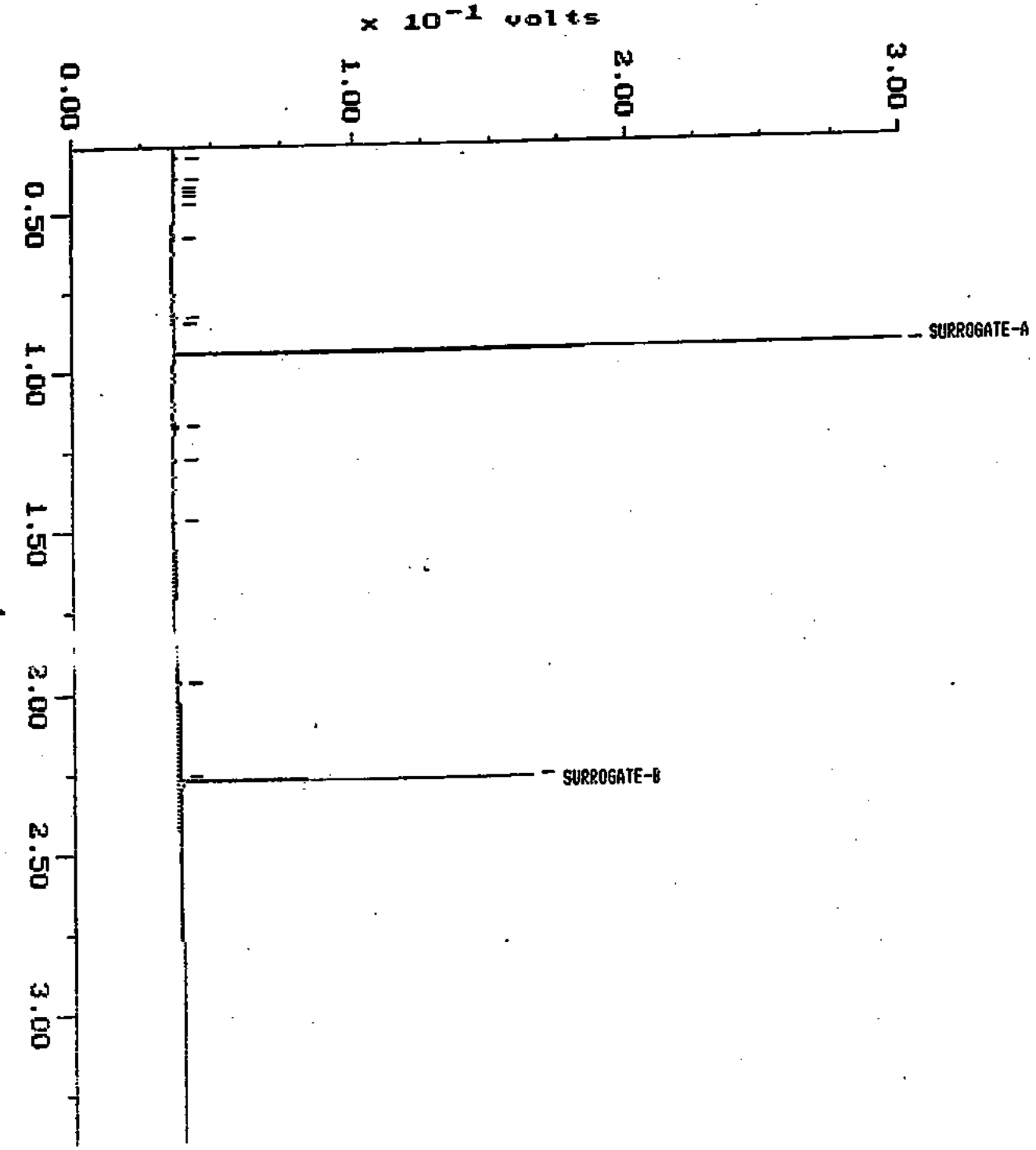


9101-169-4

Sample: 9101-169-4
Acquired: 11-JAN-91 20:35
Inj Vol: 1.00

Channel: DEMITRI
Method: M:\MAXDATA\SERGE-D\FUEL0111

Filename: 0111SD13
Operator: BRE



Analytical Technologies, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

DATE 1/10/91 PAGE 1 OF 1

LABORATORY NUMBER: 9101-069

PROJECT MANAGER: TERRY FISK
COMPANY: GEO ENGINEERS
ADDRESS: 2405 140th AVE NE STE 105
BELLEVUE, WA 98005
PHONE: 746-5200 SAMPLED BY: DEH

SAMPLE DISPOSAL INSTRUCTIONS
☒ ATI Disposal @ $5.00 each ☐ Return

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
910110-VW-3	1/10/91	1225	SOIL	1
910110-VWSP-1	1/10/91	1240	SOIL	2
910110-VWSP-2	1/10/91	1245	SOIL	3
910110-VWSP-3	1/10/91	1300	SOIL	4

ANALYSIS REQUEST

8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (6)			NUMBER OF CONTAINERS
											X		X													1
											X		X													1
											X		X													1
											X		X													1

PROJECT INFORMATION
PROJECT NUMBER: 161-091-B01
PROJECT NAME: UNOCAL FEDERAL WAY
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS: 4
COC SEALS/INTACT? Y/N/NA: Y/Y
RECEIVED GOOD COND./COLD: Y
RECEIVED VIA: Courier

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: SS#6227
Results to Terry Fisk @ GeoEngineers

RELINQUISHED BY: 1	RELINQUISHED BY: 2	RELINQUISHED BY: 3
Signature: Time: 0815	Signature: Time:	Signature: Time:
Printed Name: Donald Hanson Date: 1/11/91	Printed Name: Date:	Printed Name: Date:
Company: GEI	Company:	Company:
RECEIVED BY: 1	**RECEIVED BY: 2**	**RECEIVED BY: (LAB) 3**
Signature: Time:	Signature: Time:	Signature: Time: 1015
Printed Name: Date:	Printed Name: Date:	Printed Name: V. PENNICK Date: 1/11/91
Company:	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI - Pink - ORIGINATOR

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9101-113

GeoEngineers

JAN 31 1991

Routing TTF

Files

January 29, 1991

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Julia Fowler

Project Number : 0161-041-B04

Project Name : Unocal - Federal Way

On December 13, 1990, Analytical Technologies, Inc., received eight soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data were issued on December 26, 1990, under ATI accession number 9012-122.

One sample was reaccessioned for additional tests on January 17, 1991. Enclosed is the report for the additional analyses.

Mary C. Silva
Senior Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/elf

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-113-1	WO-8 (COMPOSITE)	12/13/90	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
ARSENIC	AA/GF	EPA 7060	R
BARIUM	AA/F	EPA 7080	R
CADMIUM	AA/F	EPA 7130	R
CHROMIUM	AA/F	EPA 7190	R
LEAD	AA/F	EPA 7420	R
MERCURY	AA/COLD VAPOR	EPA 7470	R
SELENIUM	AA/GF	EPA 7740	R
SILVER	AA/F	EPA 7760	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

TCLP
METALS ANALYSIS
TCLP EXTRACT

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

ELEMENT	DATE PREPARED	DATE ANALYZED
ARSENIC	01/17/91	01/21/91
BARIUM	01/17/91	01/22/91
CADMIUM	01/17/91	01/21/91
CHROMIUM	01/17/91	01/21/91
LEAD	01/17/91	01/21/91
MERCURY	01/17/91	01/22/91
SELENIUM	01/17/91	01/21/91
SILVER	01/17/91	01/21/91

TCLP
METALS RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

MATRIX : TCLP EXTRACT
UNITS : mg/L

PARAMETER	WO-8 (COMPOSITE) -1	REAGENT BLANK
ARSENIC	<0.005	<0.005
BARIUM	0.27	<0.02
CADMIUM	<0.01	<0.01
CHROMIUM	<0.02	<0.02
LEAD	<0.1	<0.1
MERCURY	<0.0005	<0.0005
SELENIUM	<0.005	<0.005
SILVER	<0.02	<0.02

TCLP
METALS QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

MATRIX : TCLP EXTRACT
UNITS : mg/L

COMPOUND	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
ARSENIC	9101-113-1	<0.005	<0.005	0	0.048	0.050	96
BARIUM	9101-113-1	0.27	0.27	0	2.49	2.50	89
CADMIUM	9101-113-1	<0.01	<0.01	0	0.51	0.50	102
CHROMIUM	9101-113-1	<0.02	<0.02	0	0.83	1.00	83
LEAD	9101-113-1	<0.1	<0.1	0	10.0	10.0	100
MERCURY	9101-113-1	<0.0005	<0.0005	0	0.0030	0.0020	150
SELENIUM	9101-113-1	<0.005	<0.005	0	0.051	0.050	102
SILVER	9101-113-1	<0.02	<0.02	0	0.91	1.00	91

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

AnalyticalTechnologies, Inc.

560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

9101-113

Chain of Custody

DATE 12-13-90 PAGE 1 OF 1

LABORATORY NUMBER: 9012-122

PROJECT MANAGER: Julia Fowler
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, #105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert Miyahira

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
12' WO-1 (N base)	12-13-90	1305	Soil	1
7' WO-2 (N wall)		1310		2
2' WO-3 (N wall)		1310		3
12' WO-4 (W base)		1315		4
12' WO-5 (S base)		1315		5
13' WO-6 (center base)		1320		6
12' WO-7 (E base)		1320		7
WO-8 (composite)	↓	1330	↓	8

ANALYSIS REQUEST

8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (8)			NUMBER OF CONTAINERS
											X		X													1
											X		X													1
											X		X													1
											X		X													1
											X		X													1
											X		X													1
											X		X											4/11/91 per		1
											X		X											X		1

PROJECT INFORMATION

PROJECT NUMBER: 0161-041-B04
PROJECT NAME: Unocal - Federal Way
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☐ NO ☐

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS: 8
COC SEALS/INTACT? Y/N/NA: NA
RECEIVED GOOD COND./COLD: ✓
RECEIVED VIA: Hand del

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: contact Julia Fowler w/results

For Unocal Service Station #6227

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: Robert Miyahira 1430	Signature: Time:	Signature: Time:
Printed Name: Date: Robert Miyahira 12-13-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc.	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time: T. Landreth 14:30	Signature: Time:	Signature: Time:
Printed Name: Date: T. Landreth 12/13/90	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9101-003

GeoEngineers

FEB - 1 1991

Routing

File

January 31, 1991

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 0161-041-B04

Project Name : Unocal-Federal Way

On January 2, 1991, Analytical Technologies, Inc., received 13 soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data were issued on January 10, 1991.

Several of the samples were reaccessioned for additional tests on January 17, 1991. Additional analyses were also requested on January 24, 1991. Enclosed is the report for the additional analyses.

Mary C. Silva
Senior Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/elf

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-003-1	SP-1 (GAS STOCKPILE-WEST)	12/31/90	SOIL
9101-003-2	SP-2 (GAS STOCKPILE-EAST)	12/31/90	SOIL
9101-003-3	PL-1 (SOUTH ISLAND-WEST)	12/31/90	SOIL
9101-003-4	PL-2 (SOUTH ISLAND-EAST)	12/31/90	SOIL
9101-003-5	PL-3 (NW ISLAND-NORTH)	12/31/90	SOIL
9101-003-6	PL-4 (NE ISLAND-SOUTH)	12/31/90	SOIL
9101-003-7	PL-5 (NW ISLAND-SOUTH)	12/31/90	SOIL
9101-003-8	G-1 (SOUTH BASE)	12/31/90	SOIL
9101-003-9	G-2 (SW BASE)	12/31/90	SOIL
9101-003-10	G-3 (NORTH BASE)	12/31/90	SOIL
9101-003-11	G-4 (NW BASE)	12/31/90	SOIL
9101-003-12	G-5 (EAST BASE)	12/31/90	SOIL
9101-003-13	WO-8 (NORTH BASE)	12/31/90	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	13

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R
ARSENIC	AA/GF	EPA 7060	R
BARIUM	AA/F	EPA 7080	R
CADMIUM	AA/F	EPA 7130	R
CHROMIUM	AA/F	EPA 7190	R
LEAD	AA/F	EPA 7420	R
MERCURY	AA/COLD VAPOR	EPA 7470	R
SELENIUM	AA/GF	EPA 7740	R
SILVER	AA/F	EPA 7760	R
MOISTURE	GRAVIMETRIC	METHOD 7-2.2	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

TCLP
METALS ANALYSIS
TCLP EXTRACT

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ELEMENT	DATE PREPARED	DATE ANALYZED
ARSENIC	01/17/91	01/21/91
BARIUM	01/17/91	01/22/91
CADMIUM	01/17/91	01/21/91
CHROMIUM	01/17/91	01/21/91
LEAD	01/17/91	01/21/91
MERCURY	01/17/91	01/22/91
SELENIUM	01/17/91	01/21/91
SILVER	01/17/91	01/21/91

TCLP
METALS RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

MATRIX : TCLP EXTRACT
UNITS : mg/L

PARAMETER	WO-8 (NORTH BASE) -13	REAGENT BLANK
ARSENIC	<0.005	<0.005
BARIUM	0.50	<0.02
CADMIUM	<0.01	<0.01
CHROMIUM	<0.02	<0.02
LEAD	<0.1	<0.1
MERCURY	<0.0005	<0.0005
SELENIUM	<0.005	<0.005
SILVER	<0.02	<0.02

TCLP
METALS QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

MATRIX : TCLP EXTRACT
UNITS : mg/L

COMPOUND	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
ARSENIC	9101-113-1	<0.005	<0.005	0	0.048	0.050	96
BARIUM	9101-113-1	0.27	0.27	0	2.49	2.50	89
CADMIUM	9101-113-1	<0.01	<0.01	0	0.51	0.50	102
CHROMIUM	9101-113-1	<0.02	<0.02	0	0.83	1.00	83
LEAD	9101-113-1	<0.1	<0.1	0	10.0	10.0	100
MERCURY	9101-113-1	<0.0005	<0.0005	0	0.0030	0.0020	150
SELENIUM	9101-113-1	<0.005	<0.005	0	0.051	0.050	102
SILVER	9101-113-1	<0.02	<0.02	0	0.91	1.00	91

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

METALS ANALYSIS
SOIL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ELEMENT	DATE PREPARED	DATE ANALYZED
LEAD	01/18/91	01/18/91
LEAD	01/25/91	01/25/91

METALS RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

MATRIX : SOIL
UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	LEAD
9101-003-1	SP-1 (GAS STOCKPILE-WEST)	<10
9101-003-8	G-1 (SOUTH BASE)	<10
9101-003-9	G-2 (SW BASE)	<10
9101-003-10	G-3 (NORTH BASE)	770
9101-003-11	G-4 (NW BASE)	460
9101-003-12	G-5 (EAST BASE)	<10
REAGENT BLANK	(01/18/91)	<10
REAGENT BLANK	(01/25/91)	<10

METALS QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

MATRIX : SOIL
UNITS : mg/Kg

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
LEAD	9101-092-9	<10	<10	0	250	260	96
LEAD	9101-172-2	<10	<10	0	280	280	100

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.

560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

DATE 1-31 ~~12-18-90~~ PAGE 1 OF 2

LABORATORY NUMBER: 9101-003

PROJECT MANAGER: Terry Fisk
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, #105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert N. Miyahira

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/H (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8060 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (8)	Total Pb		NUMBER OF CONTAINERS
composite SP-1 (gas stockpile-west)	12-31-90	1105	Soil	-1			X											X											X		1
composite SP-2 (gas stockpile-east)		1110		-2			X											X													1
3' PL-1 (south island-west)		1355		-3			X											X													1
2½' PL-2 (south island-east)		1400		-4			X											X													1
3' PL-3 (NW island-north)		1435		-5			X											X													1
3' PL-4 (NE island-south)		1445		-6			X											X													1
2½' PL-5 (NW island-south)		1505		-7			X											X													1
13' G-1 (south base)		1420		-8			X											X											✓	Yet	1
14' G-2 (SW base)		1430		-9			X											X											X		1
14' G-3 (north base)		1450		-10			X											X											X		1
13' G-4 (NW base)		1500		-11			X											X											✓	Yet	1
13' G-5 (east base)	↓	1520	↓	-12			X											X											✓	Yet	1

PROJECT INFORMATION

PROJECT NUMBER: 0161-041-B04
PROJECT NAME: Unocal-Federal Way
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS: 13
COC SEALS/INTACT? Y/N/NA: Y / NA
RECEIVED GOOD COND./COLD: Y
RECEIVED VIA: Courier

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK

GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: Contact Terry Fisk with results

For Unocal Service Station #6227

RELINQUISHED BY: 1	RELINQUISHED BY: 2	RELINQUISHED BY: 3
Signature: Time: 1730	Signature: Time:	Signature: Time:
Printed Name: Robert Miyahira Date: 12-31-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc.	Company:	Company:
RECEIVED BY: 1	**RECEIVED BY: 2**	**RECEIVED BY: (LAB) 3**
Signature: DL Thomas Time: 10:45	Signature: Time:	Signature: Time:
Printed Name: DL Thomas Date: 1-2-91	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

B - 121

DATE 12-31-90 PAGE 2 OF 2

Analytical Technologies, Inc.

560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody LABORATORY NUMBER: 9101-003

PROJECT MANAGER: Terry Fisk
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, #105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert N. Miyahira

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH-H (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (6)			NUMBER OF CONTAINERS
12½' WD-8 (north base)	12-31-90	1530	soil	-13												X		X										X			1
																												Zn Ni			
																												Hg Pb			

PROJECT INFORMATION

PROJECT NUMBER: 0161-041-804
PROJECT NAME: Unocal - Federal Way
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	13
COC SEALS/INTACT? Y/N/NA	Y/N/NA
RECEIVED GOOD COND./COLD	Y
RECEIVED VIA:	Courier

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: Contact Terry Fisk with results

For Unocal Service Station #6227

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 1730	Signature: Time:	Signature: Time:
Printed Name: Robert Miyahira Date: 12-31-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc.	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time: 1014S	Signature: Time:	Signature: Time:
Printed Name: D.L. Thomas Date: 1-2-91	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

ns: lego 08-91 hoes: 1438 • Se 06)2 • dia (4-10 DISTI ION: ATI ORI DR

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: GeoEngineers, Inc. Date: February 5, 1991

Report On: Analysis of Soil Lab No.: 15745

GeoEngineers
FEB - 6 1991
Routing
0161-41

IDENTIFICATION:
Samples Received on 01-31-91
Project: Unocal #6227 Federal Way

ANALYSIS:

Lab Sample No.	Client ID	Total Lead, ppm
1	GSP-5	< 1.2
2	GSP-6	< 1.2
3	GSP-7	2.8
4	G-6	14.8
5	G-7	23.4
6	G-8	11.0
7	GSP-8	44.2

Lab Sample No. 6 Client ID: G-8

	Concentration, ppm
Benzene	< 0.05
Toluene	< 0.05
Ethyl Benzene	< 0.05
Xylenes	< 0.05

BTEX by EPA SW-846
Method 8020

Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015: < 10

Note - BTEX and TPH 8015 results reported on as as received, wet basis.

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

This report is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with industry acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

DUPLICATES

Lab No: 15745 (1)
Date: February 1, 1991
Client: GeoEngineers, Inc.

Client ID: GSP-5
Matrix: Soil
Units: ppm

Compound	Sample(S)	Duplicate(D)	RPD*
Total Lead	< 1.2	< 1.2	---

Lab No: 15745 (6)
Date: February 1, 1991
Client: GeoEngineers, Inc.

Client ID: G-8
Matrix: Soil
Units: ppm

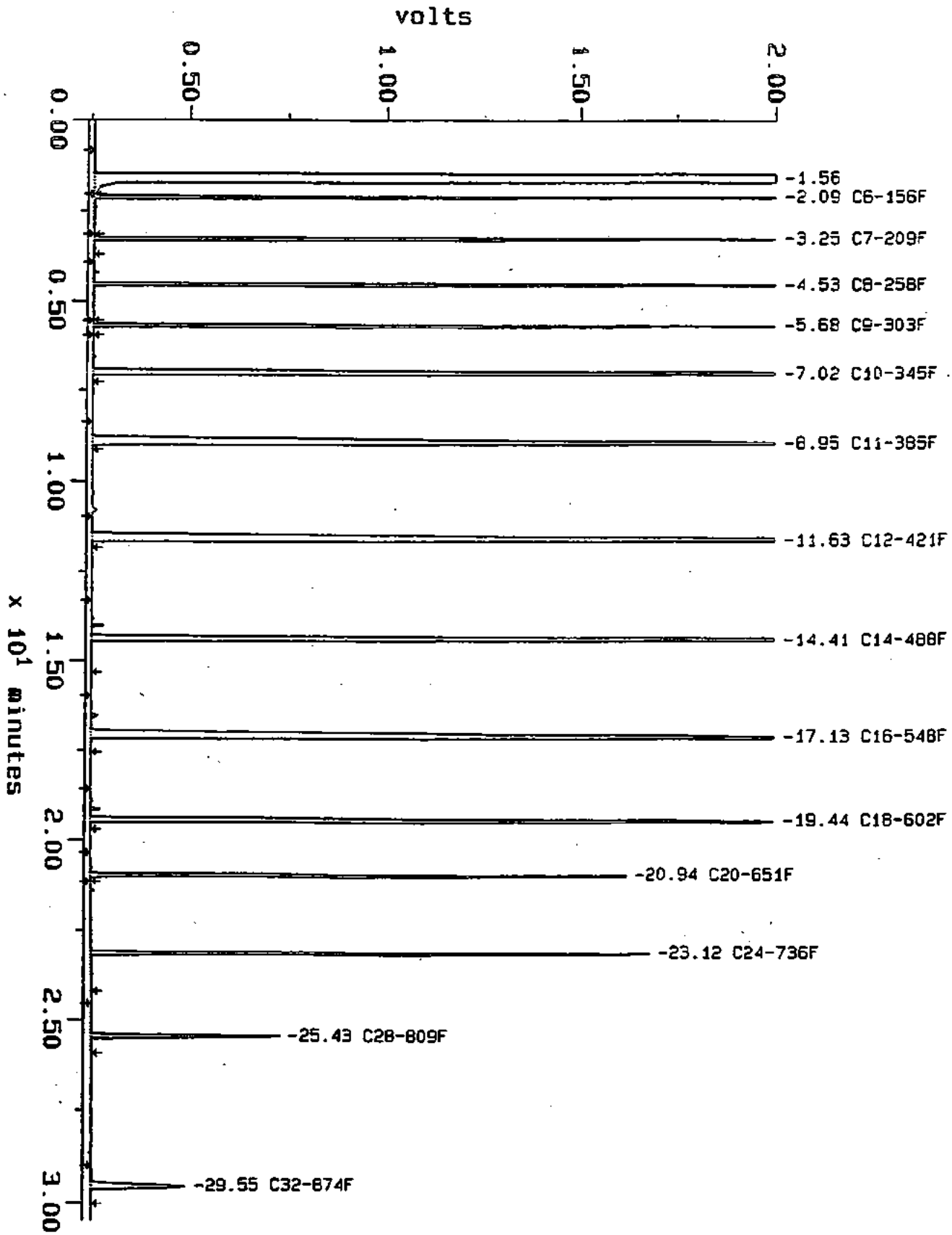
Compound	Sample(S)	Duplicate(D)	RPD*
Benzene	< 0.05	< 0.05	---
Toluene	< 0.05	< 0.05	---
Ethyl Benzene	< 0.05	< 0.05	---
Xylenes	< 0.05	< 0.05	---
Total Petroleum Hydrocarbons	< 10	< 10	---

*RPD = relative percent difference
= [(S - D) / ((S + D) / 2)] x 100

Sample: CAL8 STD
Acquired: 07-SEP-90 14:50

Channel: detecto~ :
Method: C:\MAX\DATA4\80150

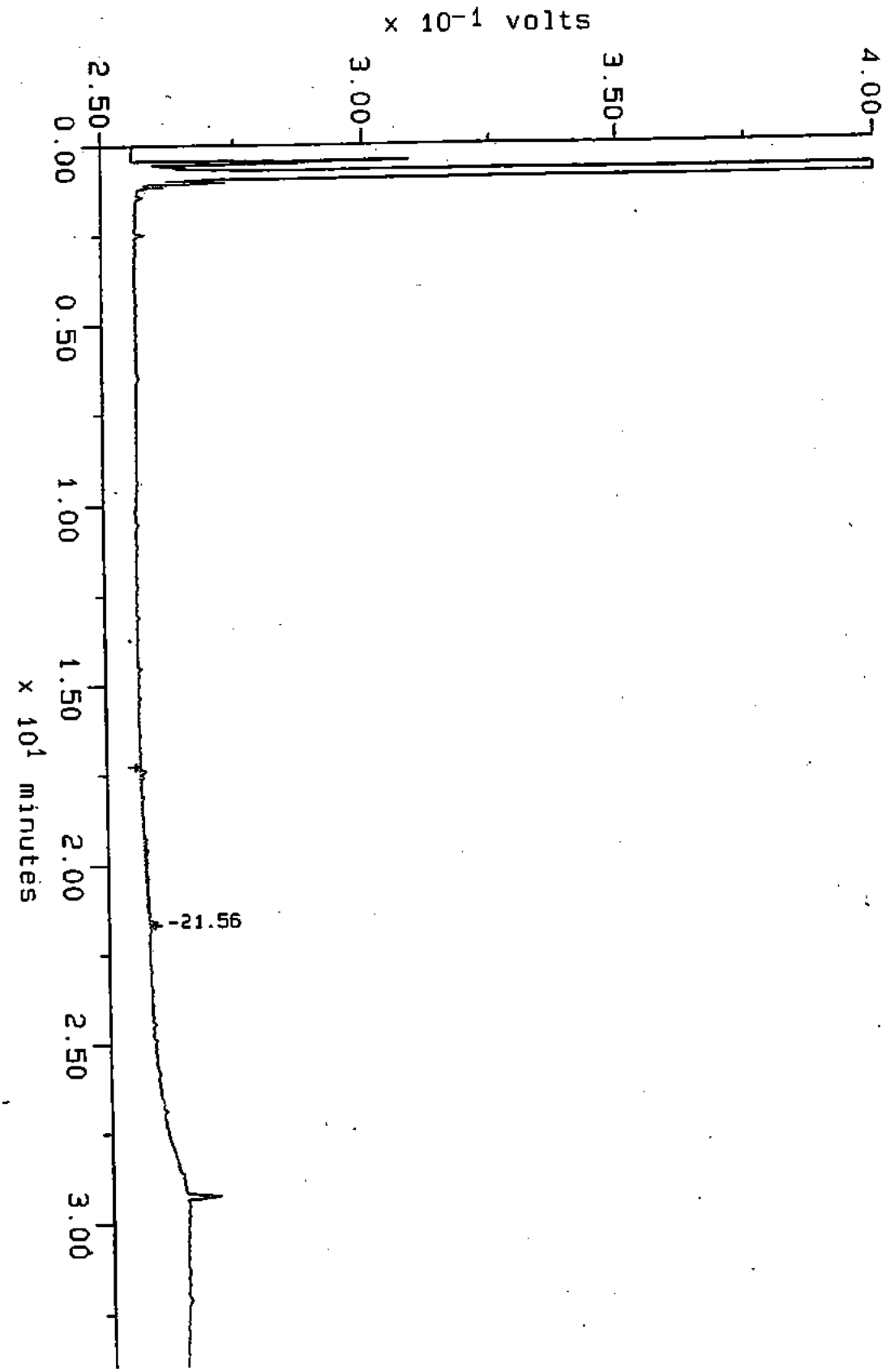
Filename: CS3
Operator:



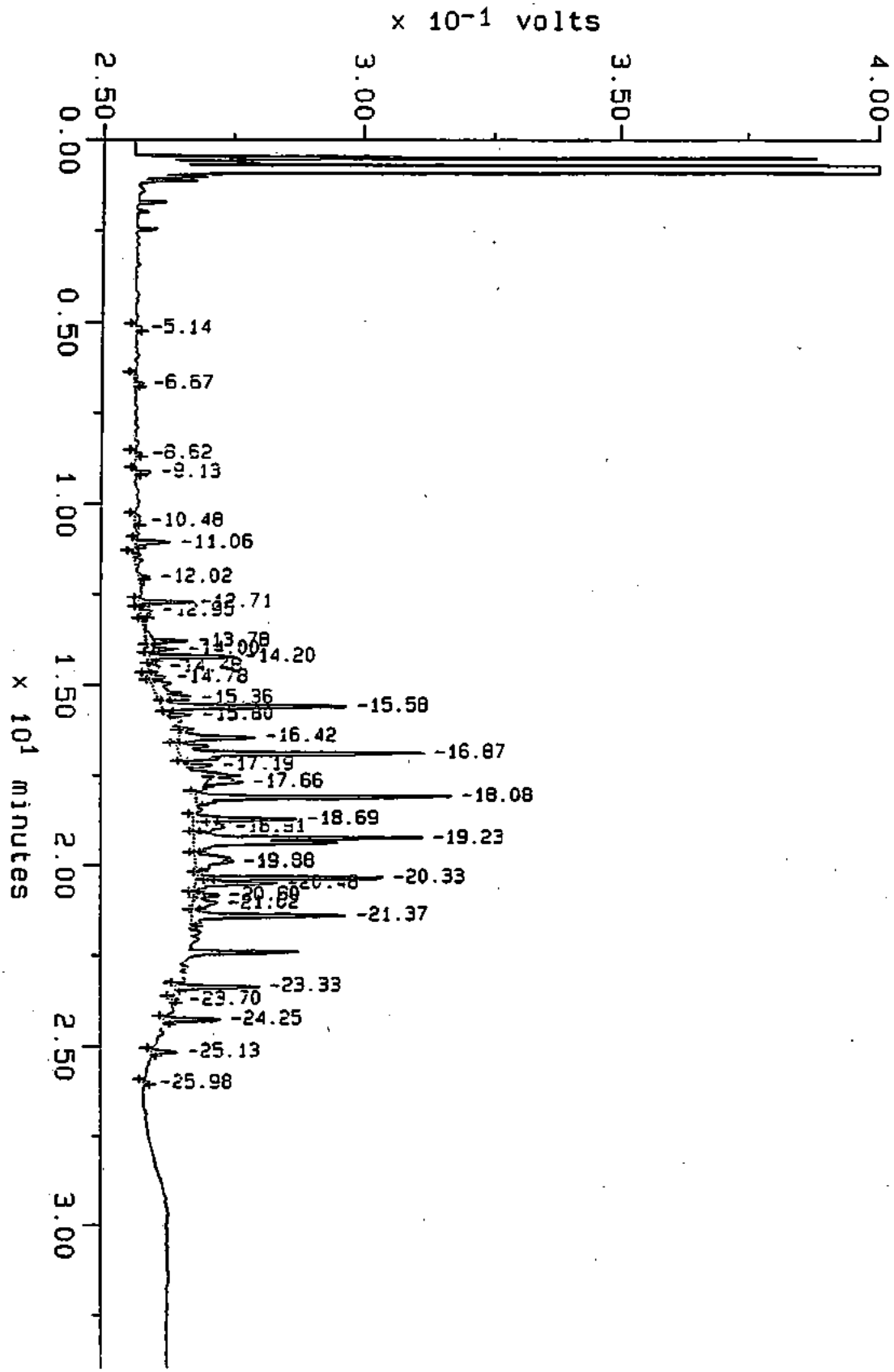
Sample: BLANK
Acquired: 18-JAN-91 19:27

Channel: detector 1
Method: C:\MAX\DATA4\80150

Filename: BL1
Operator:



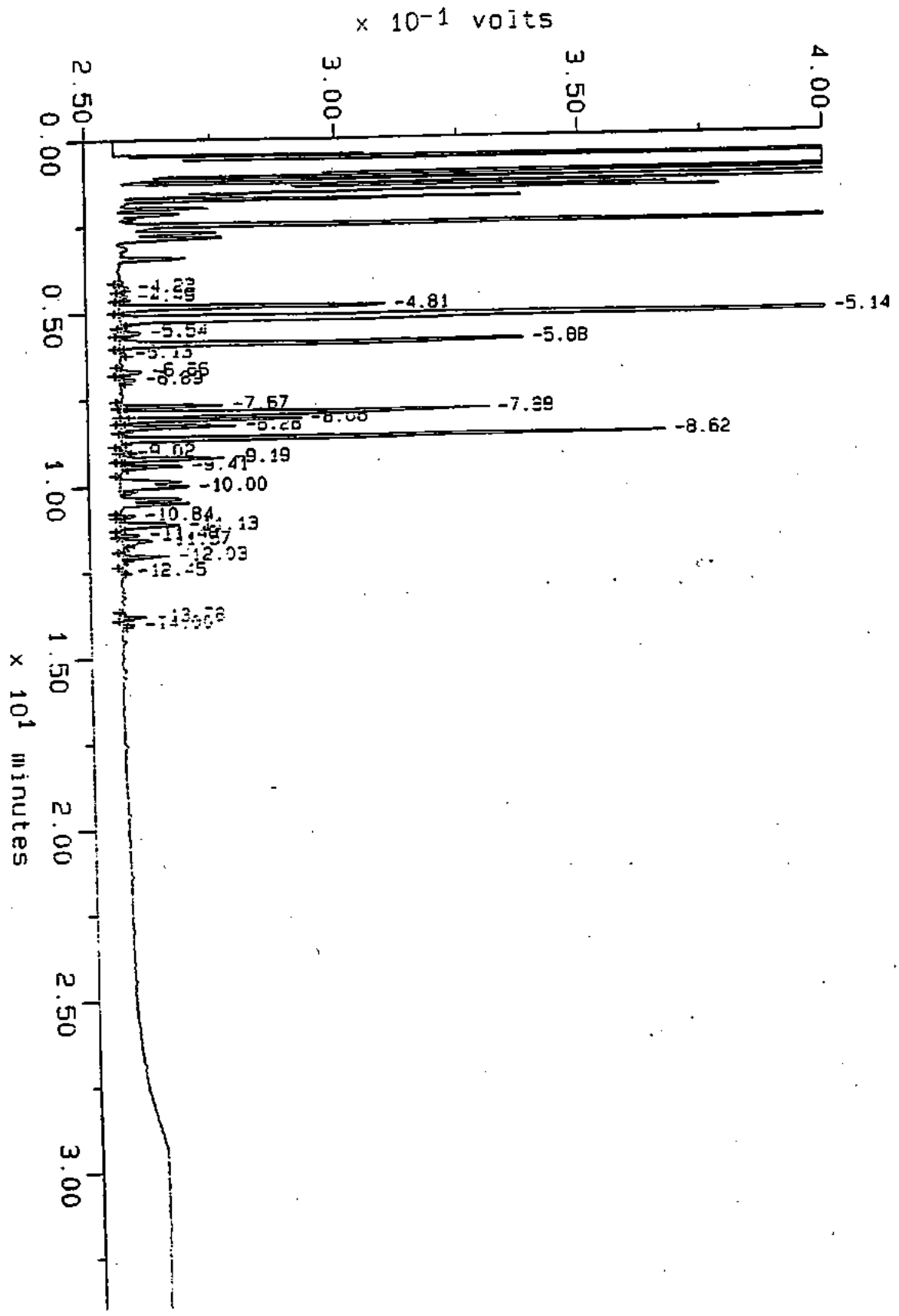
Sample: 100DIESEL
Acquired: 19-JAN-91 1:47
Channel: detector 1
Method: C:\MAX\DATA4\80150
Filename: 100DIE7
Operator:



Sample: 100GAS
Acquired: 18-JAN-91 20:10

Channel: detector 1
Method: C:\MAX\DATA4\8015D

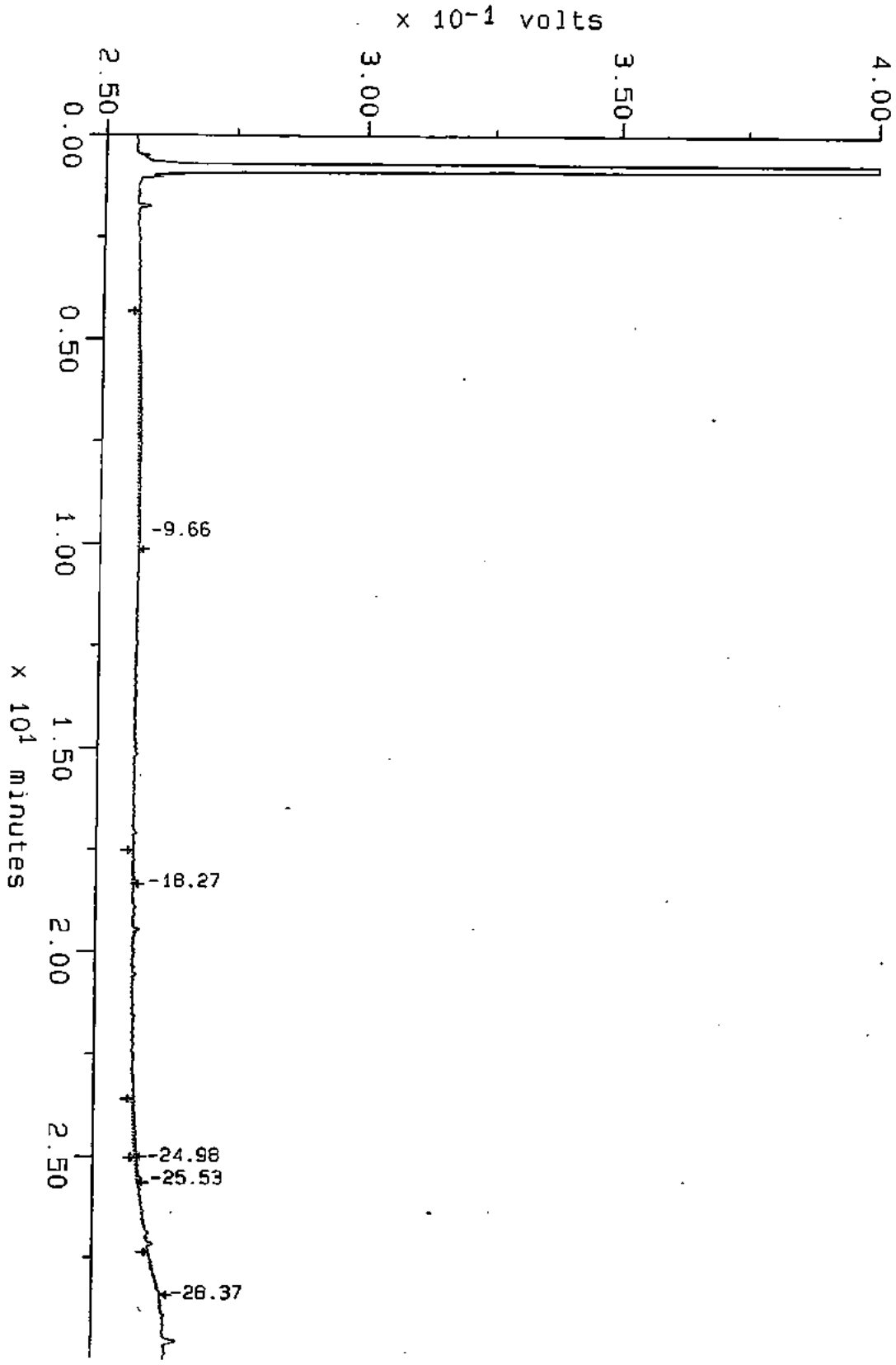
Filename: 100GAS7
Operator:



Sample: 15745-6
Acquired: 31-JAN-91 22:54
Dilution: 1 : 10.000

Channel: detector 1
Method: C:\MAX\DATA4\B015
Amount: 1.988

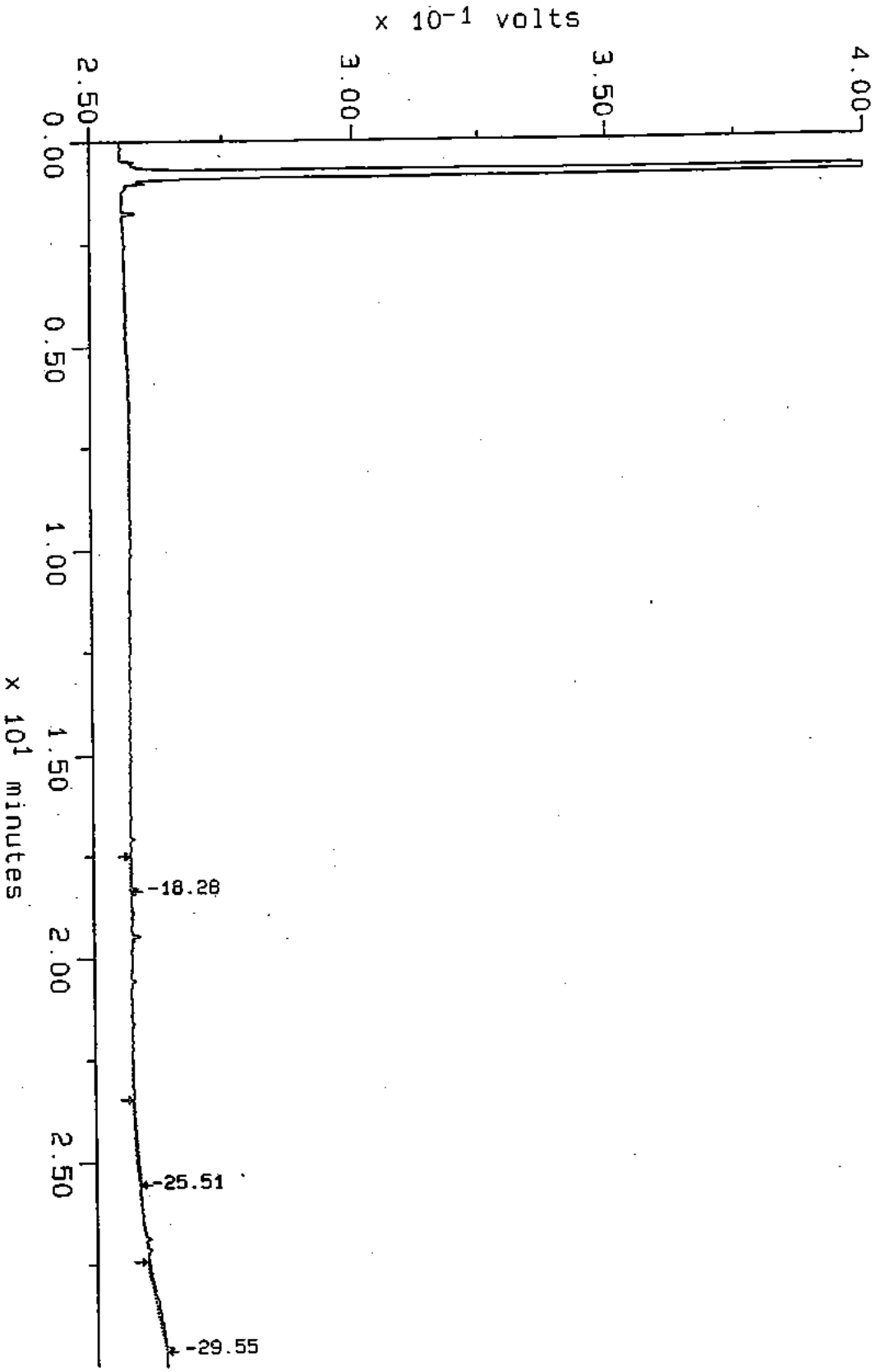
Filename: 15745-6
Operator:



Sample: 15745-6D
Acquired: 31-JAN-91 23:31
Dilution: 1 : 10.000

Channel: detector 1
Method: C:\MAX\DATA4\8015
Amount: 2.501

Filename: 15745-6D
Operator:



Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9101-172

GeoEngineers
FEB 07 1991
Routing
File

February 5, 1991

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 0161-041-B04

Project Name : Unocal Federal Way

On January 10, 1991, Analytical Technologies, Inc., received eight soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data were issued under ATI accession number 9101-053 on January 16, 1991.

Two samples were reaccessioned for additional tests on January 24, 1991. Enclosed is the report for the additional analyses.

Mary C. Silva
Senior Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/elf

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-172-1	910109-PL-6	01/09/91	SOIL
9101-172-2	910109-G-SP-B	01/09/91	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	2

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
LEAD	AA/F	EPA 7420	R
MOISTURE	GRAVIMETRIC	METHOD 7-2.2	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

METALS ANALYSIS
SOIL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ELEMENT	DATE PREPARED	DATE ANALYZED
LEAD	01/25/91	01/25/91

METALS RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

MATRIX : SOIL
UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	LEAD
9101-172-1	910109-PL-6	<10
9101-172-2	910109-G-SP-B	<10
REAGENT BLANK	-	<10

METALS QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

MATRIX : SOIL

UNITS : mg/Kg

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
LEAD	9101-172-2	<10	<10	0	280	280	100

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY
SOIL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ANALYSIS	DATE ANALYZED
MOISTURE	01/10/91

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

MATRIX : SOIL
UNITS : %

ATI I.D.#	CLIENT I.D.	MOISTURE
9101-172-1	910109-PL-6	13
9101-172-2	910109-G-SP-B	11

GENERAL CHEMISTRY QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

MATRIX : SOIL
UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9101-059-2	16	17	6	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

9101-172

Chain of Custody

DATE 1/9/91 PAGE ___ OF ___

LABORATORY NUMBER: 9101-053

PROJECT MANAGER: TERRY FISK
COMPANY: GEO ENGINEERS
ADDRESS: 2405 140TH AVE NE STE 105
BELLEVUE, WA 98005
PHONE: 746-5200 SAMPLED BY: DEH

SAMPLE DISPOSAL INSTRUCTIONS
[X] ATI Disposal @ $5.00 each [ ] Return

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (8) 9101-172	TOTAL LEAD		NUMBER OF CONTAINERS
910109-PL-6	1/9/91	1250	SOIL	1			X											X											X		1
910109-PL-7		1235	SOIL	2			X											X													1
910109-PL-8		1240	SOIL	3			X											X													1
910109-PL-SP		1300	SOIL	4			X											X													1
910109-VW-1		1330	SOIL	5												X		X													1
910109-VW-2		1600	SOIL	6												X		X													1
910109-G-SP-A		1400	SOIL	7			X											X													1
910109-G-SP-B	V	1435	SOIL	8			X											X											X		1

PROJECT INFORMATION
PROJECT NUMBER: 0161-041-B04
PROJECT NAME: UNOCAL FEDERAL UNIT
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES [X] NO [ ]

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS: 8
COC SEALS/INTACT? Y/N/NA: N/NA
RECEIVED GOOD COND./COLD: Y/Y
RECEIVED VIA: Hand Del

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
TAT: (NORMAL) [ ] 2WKS (RUSH) [X] 24HR [ ] 48 HRS [ ] 72 HRS [ ] 1 WK
GREATER THAN 24 HR. NOTICE? YES [X] NO [ ] (LAB USE ONLY)
SPECIAL INSTRUCTIONS: SS#627
Send results to Terry Fisk @ GEI

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 1600	Signature: Time:	Signature: Time:
Printed Name: DONALD HANSON Date: 1/10/91	Printed Name: Date:	Printed Name: Date:
Company: GEI	Company:	Company:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: (LAB) 3.
Signature: Time:	Signature: Time:	Signature: Time: 1005
Printed Name: Date:	Printed Name: Date:	Printed Name: V. PENNICK Date: 1/10/91
Company:	Company:	Analytical Technologies, Inc.

APPENDIX F

LETTER REPORT LIMITED PHASE II INVESTIGATION SHELL SERVICE STATION AND MINI-MART 29625 PACIFIC HIGHWAY SOUTH, FEDERAL WAY, WASHINGTON

Assessment and Remediation Consulting Services
P.O. Box 2171
Issaquah, Washington 98027
Phone (425) 837-0220 / Fax (425) 369-8606
E-mail: eric_chapman@msn.com

ARCS

April 9, 2001

Mr. Bob Fadden
CityBank
P.O. Box 97007
Lynnwood, Washington 98046

Subject: Letter Report – Limited Phase II Investigation
Shell Service Station and Mini-Mart
29625 Pacific Highway South, Federal Way, Washington

Dear Mr. Fadden:

Assessment and Remediation Consulting Services (ARCS) is pleased to present this letter report that documents the limited subsurface investigation (Phase II) activities conducted at the above-referenced gasoline station and convenience store in Federal Way, Washington. Provided in this report is the following information:

- a brief description of the site setting and background;
- methods used to conduct the Phase II sampling;
- laboratory analytical methods and results; and
- summary and conclusions.

Included as attachments to this letter report is a vicinity map, a site diagram depicting sampling locations, soil boring logs, and laboratory data sheets with chain-of-custody documentation. Mr. Eric Chapman of ARCS conducted the fieldwork in support of this project and prepared this report.

The scope of work for this project included collecting subsurface soil samples around the underground storage tank (UST) and fuel island areas. The scope of work is described in our proposal and contract dated March 23, 2001. This work was done in accordance with the contract and ARCS' General Terms and Conditions. Written authorization to proceed with this project was received from Mr. George Stears on April 29, 2001.

SITE SETTING AND BACKGROUND INFORMATION

The subject property is located in the north portion of Federal Way, King County, Washington (see Vicinity Map). Improvements to the property include the convenience store building, a canopy, fuel islands, and paved driveways/parking areas (see Site Diagram). The north portion of the property is an undeveloped area covered by vegetation, and is approximately 15 to 20 feet lower in elevation than the gasoline station. According to the property owner, a bioswale that treats storm water drainage from the parking area is located on this portion of the property.

The local topography slopes from the south/southeast to the northwest towards Poverty Bay. Information obtained from nearby water wells indicates that the depth to ground water ranges from 55 to over 150 feet below ground surface, with a reported flow direction to the north/northwest.

The subject property has reportedly been occupied by a gasoline service station since the early 1970s. In 1989, three underground storage tanks (USTs) were removed from the subject property. A release of petroleum products to soil was reported to Ecology at the time of the removals. According to the property owner, the soil contamination was limited to the tank area and was cleanup up at the time of the removals.

Three new USTs were installed in 1995. At the time of the installations, all of the fuel dispensers and piping were upgraded. An automatic leak detection system that monitors the tanks and piping is located in the site office. The property owner has reported no known releases or losses of product from the USTs, piping or dispensers.

SUMMARY OF FIELD ACTIVITIES

ARCS' was retained to conduct subsurface sampling activities at this site in support of the potential sale of the business and property. The purpose of the sampling is to determine if any obvious indications of gasoline contamination exist in subsurface soils and/or ground water. This section describes the methods used to collect samples from the site.

- ***SAMPLING METHODS AND SOIL CHARACTERIZATION***

Sampling activities were conducted on April 3, 2001. ARCS subcontracted with Environmental Services Network Northwest (ESN) to advance temporary soil borings at the site using a Strataprobe rig. The Strataprobe rig uses direct-push techniques to advance a steel sampling probe into subsurface soils. Following the completion of each soil boring, the sampler and all steel rods used for the boring were decontaminated using a solution of Alconox™ and water, followed by a thorough rinse with clean water. After sampling, the temporary borings were filled with bentonite chips and then sealed with cold patch asphalt.

Prior to conducting the subsurface sampling activities, a utility locate was requested to identify any underground utilities on the property. The locate identified buried electrical, gas and water lines leading to the property from Redondo Road, Dash Point Road, and Pacific Highway South. In addition to the identified utilities, the property owner stated that other "unmarked" underground lines were located near the planned sampling locations. The presence of unknown underground utilities and piping limited the number of sampling locations from the original scope of five borings to four borings.

Four soil borings were advanced at the site (FWS-B1 through FWS-B4), as indicated on the Site Diagram. Soil borings FWS-B1 and B2 were advanced on the north side of the UST area, to a depth of 18 feet below ground surface (bgs). Boring FWS-B3 was advanced on the west side of the dispenser island, to a depth of 9 feet bsg. Borings FWS-B4 was advanced on the north portion of the lot, adjacent to the bioswale, to a depth 18 feet bsg. Please note that boring FWS-B4 is located at an elevation of approximately 15 to 20 feet below the elevation of the gas station, effectively making this boring 30 to 35 feet below the grade of the station parking area.

A split-spoon sampler was used to recover continuous soil samples at 3-foot intervals. Soils encountered in the borings consisted of well graded, fine to medium-grained silty sand with gravels and cobbles. Soils recovered from the borings were moist, but ground water was not encountered in any of the borings. No staining or fuel-type odors were observed in the soils recovered from the borings. Soil boring logs that include soil characterization information are presented in Attachment A.

- ***FIELD SCREENING AND SAMPLE COLLECTION***

Soil samples were collected from selected depths in each boring. A portion of each sample interval was placed into a plastic bag for headspace screening and characterization using a photo-ionization detector (PID) calibrated to an isobutylene standard. A separate portion of each sample interval was reserved for laboratory analysis. None of the soils recovered from the borings exhibited staining or odors indicative of petroleum contamination.

Soil samples reserved for analysis were placed into 4-ounce glass containers supplied by the laboratory. Each sample was labeled and then placed in an ice-filled cooler pending transport to the laboratory. Laboratory analytical methods and results are discussed in the following section of this report.

LABORATORY ANALYTICAL METHODS AND RESULTS

Soil samples collected from the temporary borings were transported under standard chain-of-custody protocol to ESN's laboratory in Lacey, Washington. Samples from each boring were analyzed for gasoline-range total petroleum hydrocarbons (TPH-G) by Washington State Method WTPH-G and for benzene, toluene, ethyl benzene and xylenes (BTEX) by EPA Method 8021B. The laboratory results, summarized in Table 1, indicate that none of the samples submitted for

analysis contained detectable concentrations of WTPH-G or BTEX. Laboratory data sheets and chain-of-custody documentation are presented in Attachment B.

Table 1
Dash Point Shell - Soil Analytical Results (mg/kg)

Sample ID	Description	Analysis Parameters & Results (mg/kg)				
		TPH-G	Benzene	Toluene	Ethyl Benzene	Xylenes
FWS-SB1-18'	Boring B1 at 18 feet bsg.	nd[3]	nd	nd	nd	nd
FWS-SB2-15'	Boring B2 at 15 feet bsg.	nd	nd	nd	nd	nd
FWS-SB2-18'	Boring B2 at 18 feet bsg.	nd	nd	nd	nd	nd
FWS-SB3-5'	Boring B3 at 5 feet bsg.	nd	nd	nd	nd	nd
FWS-SB4-16'	Boring B4 at 16 feet bsg.	nd	nd	nd	nd	nd
Laboratory Method Detection Limits[1]		5	0.05	0.05	0.05	0.05
Ecology Cleanup Levels[2]		100	0.5	40	20	20

Notes:
1. *Laboratory method detection limits. See laboratory data sheets for additional information.*
2. *Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels – Soil (Chapter 173-340-740(2)(a)(i) WAC.*
3. *ND = Not detected at or above the laboratory method detection limits. See laboratory data sheets for detection limits.*

SUMMARY AND CONCLUSIONS

This report documents the limited Phase II sampling activities conducted by ARCS at the Shell Service Station and Mini-Mart located at 29625 Pacific Highway South in Federal Way, Washington. This work was conducted on behalf of Mr. George Stears and Citybank in accordance with the terms and conditions of our contract.

Four temporary borings were advanced near the USTs, fuel island and undeveloped area on the north portion of the site. Ground water was not encountered in any of the borings, the deepest of which was advanced to depth of more than 30 feet below the grade of the station. Field screening did not detect the presence of petroleum staining or odors in any of the soils recovered from the borings. Laboratory analytical results indicated that none of the samples submitted for analysis contained detectable concentrations of gasoline–range petroleum hydrocarbons or BTEX.

Based on field observations and laboratory data, there are no obvious indications of a release at this site. At this time, no additional investigation activities are recommended.

LIMITATIONS OF STUDY

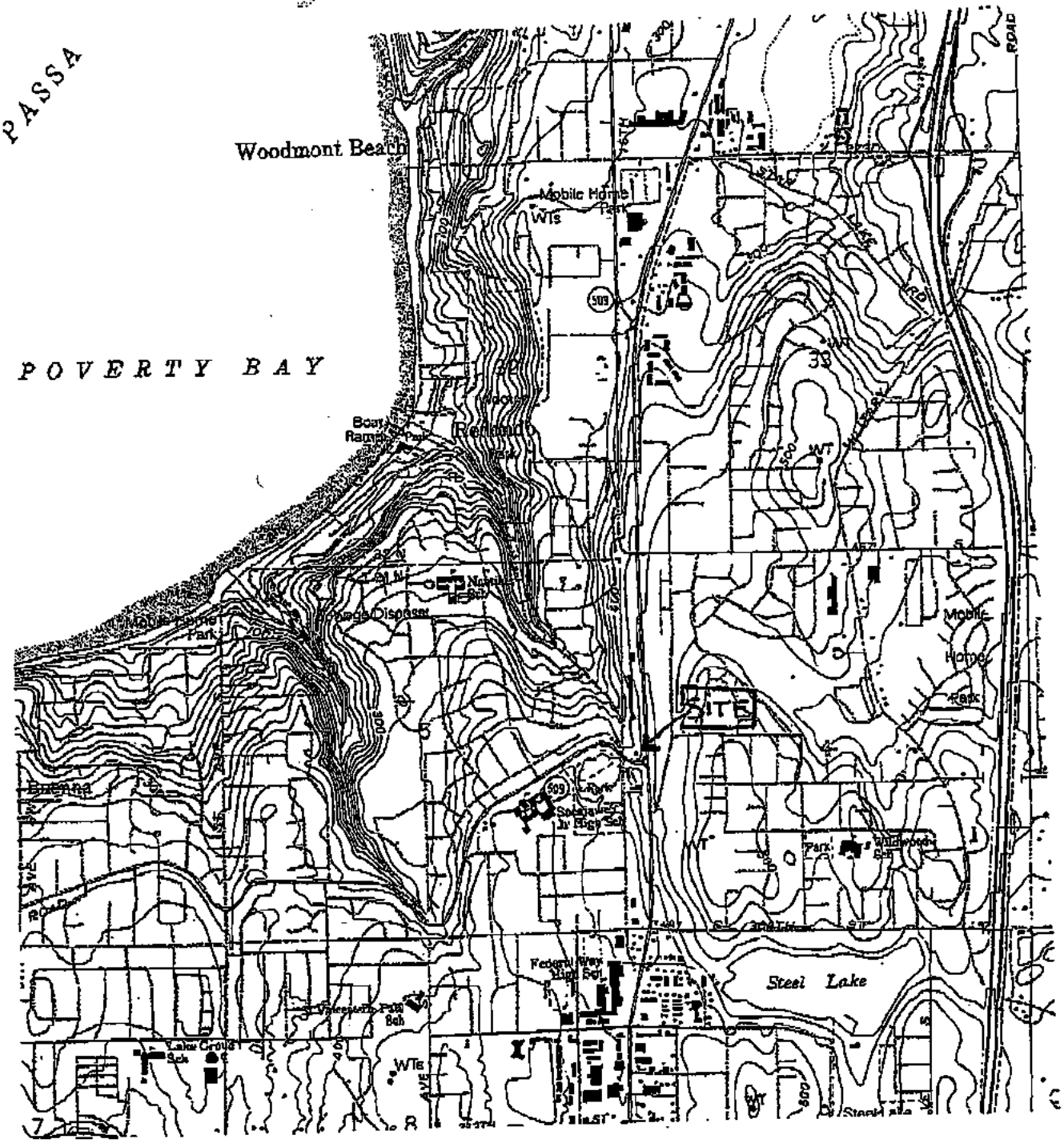
A limited environmental assessment was conducted at this site. Conditions outside of the sampling areas may vary from those observed. A potential always remains for the presence of unknown, unidentified, unexpected, or unforeseen surface or subsurface contamination, or adverse subsurface conditions. Further evidence against such potential site contamination or adverse conditions would require appropriate subsurface exploration and testing. The conclusions, expectations, and recommendations presented in this report are our professional opinion based on our interpretation of information currently available to us. No warranty, express or implied, is made. This information should not be construed as legal advice.

It is our pleasure to provide this service for you. If you have any questions regarding this letter report, please call me at (425) 837-0220.

Sincerely,

Eric K. Chapman, CHMM
Principal / Environmental Scientist

Enclosure: Attachment A – Soil Boring Logs
Attachment B – Laboratory Data Sheets



N

Date: December 1, 2000

Assessment and Remediation
Consulting Services

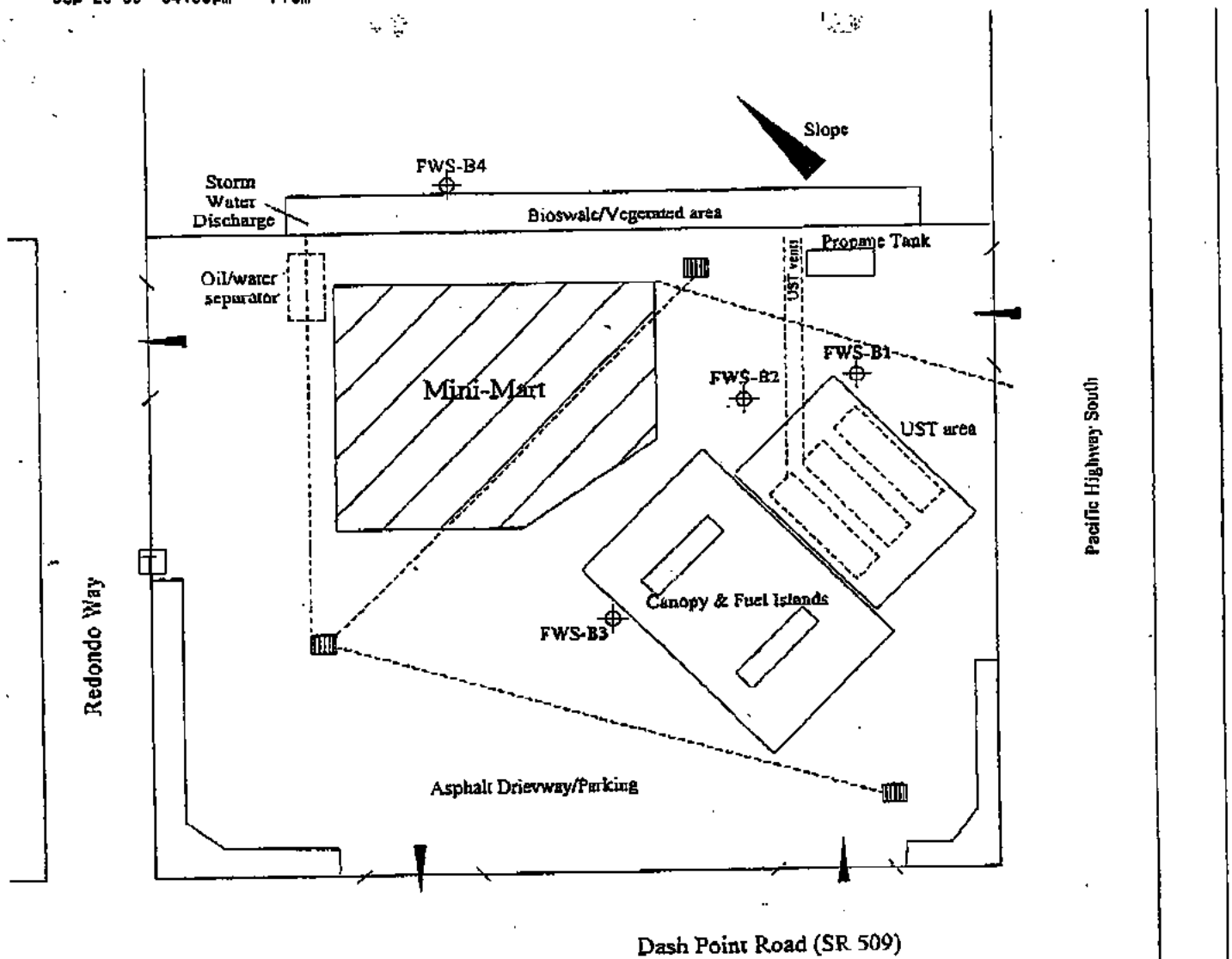
General Vicinity Map

Shell Service Station & Mini-Mart
29625 Pacific Highway South
Federal Way, Washington

ARCS Project No: 00-33

Source:

USGS
7.5 Minute Series Topographic Map
Poverty Bay, WA Quadrangle
1961, revised 1994



N

Date: April 9, 2001

Assessment and Remediation Consulting Services (ARCS)

Site Diagram

Shell Service Station & Mini-Mart
29625 Pacific Highway South
Federal Way, Washington

ARCS Project No: 00-33

Legend:

FWS-B2 — Soil boring location

Storm Drain

Underground utilites and piping

~ not drawn to scale ~

ATTACHMENT A

Boring/Well Number:

FWS-B1

Client: Dash Point Shell Project Number: 00-33

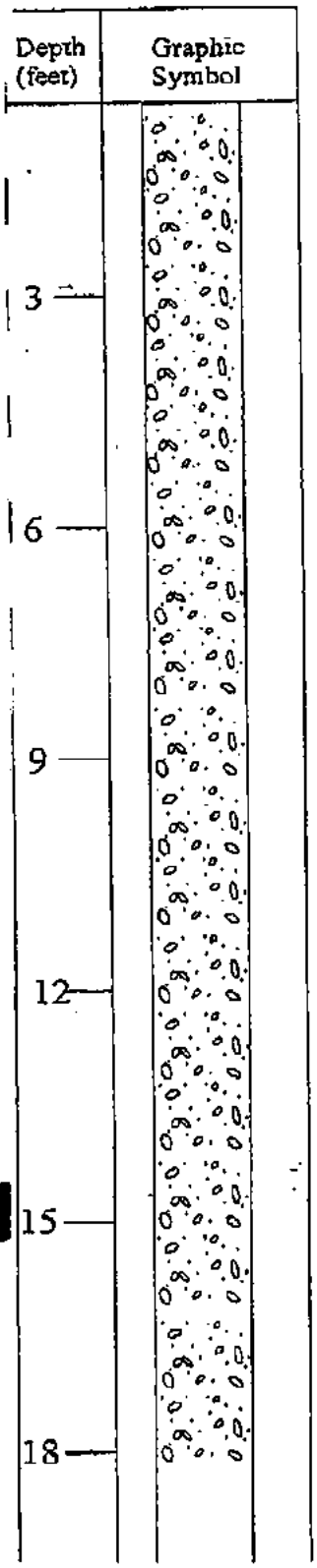
Drilling Contractor: ESN Northwest

Drilling Method: Strataprobe

Logged By: Eric Chapman Company: ARCS

Date: 4-03-01

Page: 1 of 1



Recovery (inches)	USGS Soil Type	Description	PID Reading	Sample Name
30"	SW	Well graded, medium grained sand with gravels Dry. No odors or staining.	0.00	NA
4"	SW	Well graded, medium to fine-grained sand with gravels Moist. No odors or staining.	0.00	NA
12"	SW	Well graded, medium to fine-grained sand with gravels Moist. No odors or staining.	0.00	NA
12"	SW	Well graded, medium to fine-grained sand with gravels Large fractured cobble at 11' Moist. No odors or staining.	0.00	NA
12"	SW	Well graded, medium to fine-grained sand with gravels Moist. No odors or staining.	0.00	NA
10"	SW	Well graded, medium to fine-grained sand with gravels Moist. No odors or staining.	0.00	FWS-B1-18

Boring Log and Well Construction Form

Boring/Well Number: FWS-B2

Client: Dash Point Shell Project Number: 00-33
Drilling Contractor: ESN Northwest
Drilling Method: Strataprobe
Logged By: Eric Chapman Company: ARCS
Date: 4-03-01
Page: 1 of 1

Depth (feet)	Graphic Symbol	Recovery (inches)	USGS Soil Type	Description	PID Reading	Sample Name
		24"	SW	Well graded, medium grained sand with gravels Dry. No odors or staining.	0.00	NA
3		30"	SW	Well graded, medium to fine-grained sand with gravels Moist. No odors or staining.	0.00	NA
6		1"	SW	Poor recovery. Well graded, medium to fine-grained sand with gravels Moist. No odors or staining.	0.00	NA
9		24"	SW	Well graded, medium to fine-grained sand with gravels. Moist. No odors or staining.	0.00	NA
12		18"	SW	Well graded, medium to fine-grained sand with gravels Moist. No odors or staining.	0.00	FWS-B2-15
15		24"	SW	Well graded, medium to fine-grained sand with silt and gravel. Greenish-gray color. Moist. No odors or staining.	0.00	FWS-B2-18
18						

Bore[illegible]le Log and Well Construction Diagram

Boring/Well Number:
FWS-B3

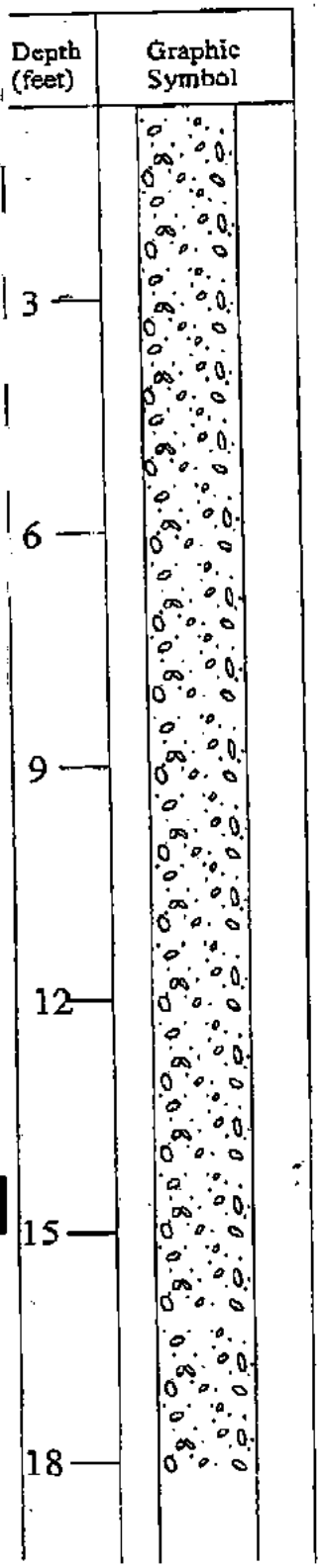
Client: Dash Point Shell	Project Number: 00-33
Drilling Contractor: ESN Northwest	
Drilling Method: Strataprobe	
Logged By: Eric Chapman	Company: ARCS
Date: 4-03-01	
Page: 1 of 1	

Depth (feet)	Graphic Symbol	Recovery (inches)	USGS Soil Type	Description	PID Reading	Sample Name
3		30"	SW	Well graded, medium grained sand with gravels. Greenish-gray to moderate brown in color. Dry. No odors or staining.	0.00	NA
6		24"	SW	Well graded, medium to fine-grained sand with gravels. Moderate brown to orangish brown in color. Moist. No odors or staining.	0.00	FWS-B3-5
9		18"	SW	Well graded, medium to fine-grained sand with gravels. Moderate brown to orangish brown in color. Moist. No odors or staining.	0.00	FWS-B3-9

Bore le Log and Well Construction agram

Boring/Well Number:
FWS-B4

Client: Dash Point Shell	Project Number: 00-33
Drilling Contractor: ESN Northwest	
Drilling Method: Strataprobe	
Logged By: Eric Chapman	Company: ARCS
Date: 4-03-01	
Page: 1 of 1	



Recovery (inches)	USGS Soil Type	Description	PID Reading	Sample Name
30"	SW	Well graded, medium grained sand with gravels. Moderate brown color. Moist. No odors or staining.	0.00	NA
32"	SW	Well graded, medium to fine-grained sand with gravels. Moderate brown color. Moist. No odors or staining.	0.00	NA
24"	SW	Well graded, medium to fine-grained sand with gravels. Moderate brown color. Moist. No odors or staining.	0.00	NA
24"	SW	Well graded, medium to fine-grained sand with gravels. Moderate brown to grayish brown color. Moist. No odors or staining.	0.00	NA
20"	SW	Well graded, medium to fine-grained sand with gravels. Moderate brown to grayish brown color. Moist. No odors or staining.	0.00	NA
24"	SW	Well graded, medium to fine-grained sand with gravels. Moderate brown to grayish brown color. Moist. No odors or staining.	0.00	FWS-B4-16

ATTACHMENT B

PRELIMINARY DATA

ENVIRONMENTAL SERVICES NETWORK NORTHWEST, INC

FUDURAL WAY SHELL PROJECT
Federal Way, Washington
ARCS

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	4/4/01	nd	nd	nd	nd	nd	111
FWS-B1-18'	4/4/01	nd	nd	nd	nd	nd	101
FWS-B1-18' Dup	4/4/01	nd	nd	nd	nd	nd	97
FWS-B2-15'	4/4/01	nd	nd	nd	nd	nd	90
FWS-B2-18'	4/4/01	nd	nd	nd	nd	nd	86
FWS-B3-5'	4/4/01	nd	nd	nd	nd	nd	92
FWS-B4-16'	4/4/01	nd	nd	nd	nd	nd	101
Method Detection Limits		0.05	0.05	0.05	0.05	10	

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65% TO 135%

ANALYSES PERFORMED BY: Dean Phillips

teg

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES

CHAIN-OF-CUSTODY RECORD

CLIENT: ARCS

ADDRESS: P.O. Box 2171 ISSAQUAH WA 98027

PHONE: (425) 837-0220 FAX: (425) 369-8606

CLIENT PROJECT #: _____ PROJECT MANAGER: Eric Chapman

DATE: 3-03-01 PAGE 1 OF 1

PROJECT NAME: Federal Way Shell

LOCATION: _____

COLLECTOR: E. Chapman DATE OF COLLECTION 3/03

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES: VOA 8010/60218	VOA 8021B BTEX	VOA 8260	SEMI VOL 8270	TPH - HCID	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (d & o)	PAH 8100	PCBs 8082	Pesticides 8081	TOTAL LEAD	pH	NOTES	Total Number of Containers	Laboratory Number
1. FWS-B1-18	15'	930	S	4oz Glass		X			X											
2. FWS-B2-15	15	1120	S	"		X			X											
3. FWS-B2-18	18'	1130	S	"		X			X											
4. FWS-B3-5	5'	1200	S	"		X			X											
5. FWS-B4-16	16	1240	S	"		X			X											
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
13.																				
14.																				
15.																				
16.																				
17.																				
18.																				

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
E. Chapman	3/03/01 1230		
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS Y/N/NA	
SEALS INTACT? Y/N/NA	
RECEIVED GOOD COND/COLD	
NOTES:	

LABORATORY NOTES:

48 HR T/A

Turn Around Time:

Sep-28-05 04:08pm From- SEP-28-05 16:13 P.16 R-054 Job-886 T-465 P.16/16 F-740

FAX COVER SHEET

TO: Keith Ross

COMPANY:

DATE: 9/28

FAX #: ~~425 328 5248~~ 1-425-562-5114

Number of Pages ~~[illegible]~~ 16 (including cover page)

This fax is from: Kevin Janusz

601 Union Street
Suite 4200
Seattle, WA 98101
Fax: (206) 652-3205

Please deliver this transmission as soon as possible.

Additional Notes: 3 faxed packets total (1 of 3)

Please call (206) 652-3200 if there are any problems with this transmission.

APPENDIX G

ECOLOGY APRIL 22, 1991 LETTER FROM MR. JOSEPH HICKEY

CHRISTINE O. GREGOIRE
Director

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
4350-150th Ave. N.E. • Redmond, Washington 98052-5301 • (206) 867-7000

April 22, 1991

RECEIVED
APR 24 1991
MAINT. & CONT.

Mr. Leigh Carlson
Unocal Corporation
Unocal Refining and Marketing Division
P.O. Box 76
100 West Harrison, Suite 225
Seattle, WA 98119

COPY

RE: Petroleum Contamination Remediation at Unocal SS #6227, 29625 Pacific Highway South, Federal Way, WA.

Dear Mr. Carlson:

Thank you for providing the final clean-up report for the above referenced property.

Based on the information provided, proper procedures were followed regarding the tank removal and site remediation pursuant to federal and state regulations (40 CFR Part 280, and WAC 173-340, respectively).

Also based on the information provided, recommended clean-up standards were met or bettered after the remediation process, with the exception of soil contamination at 23 foot depth which could not be sampled or remediated; the report did indicate, however, that the contamination was insufficient to warrant further action, and the Department of Ecology will abide by that professional opinion in lieu of additional information. The clean-up standards are referenced in the proposed amendments 173-340-740.

Please call me at 867-7202 if you have any questions.

Sincerely,

Joseph M. Hickey
Toxics Clean-up Program
Site Inspector

JH/jh

Consulting Geotechnical
Engineers and Geologists

GeoEngineers

REPORT OF REMEDIAL ACTION
UNDERGROUND STORAGE TANK REMOVAL
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

RECEIVED
NOV 29 1989
DEPARTMENT OF ECOLOGY
NORTHWEST REGION

REPORT OF REMEDIAL ACTION
UNDERGROUND STORAGE TANK REMOVAL
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

GeoEngineers

Consulting Geotechnical
Engineers and Geologists

November 27, 1989

Unocal
P. O. Box 76
Seattle, Washington 98111

Attention: Mr. Gary Gunderson

We are submitting five copies of our report for environmental monitoring during removal of the underground fuel tanks at Unocal Service Station 6227 in King County, Washington. Our services were authorized verbally by Mr. Leigh Carlson on September 7, 1989. Contractual terms for our services are included in Blanket Contract B1982A.

We appreciate the opportunity to be of continued service to Unocal. Please call if you have any questions regarding this report.

Yours very truly,

GeoEngineers, Inc.

James A. Miller, P.E.
Principal

JF:JAM:db

cc: Mr. Joe Hickey
Washington Department of Ecology
4350 150th Avenue Northeast
Redmond, Washington 98052

File No. 0161-041-B04

GeoEngineers, Inc.
2405 140th Ave. NE, Suite 105
Bellevue, WA 98005
Telephone (206) 746-5200
Fax. (206) 746-5068

Geo Engineers

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GASOLINE STORAGE TANK EXCAVATION	2
WASTE OIL/HEATING OIL TANKS EXCAVATION	3
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CHEMICAL ANALYTICAL PROGRAM	A-2

APPENDIX B

	Page No.
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GeoEngineers

REPORT OF REMEDIAL ACTION
UNDERGROUND STORAGE TANK REMOVAL
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

INTRODUCTION

This report summarizes the results of our observations during the removal of the underground fuel storage tanks at the site of Unocal Service Station 6227 near Federal Way in King County, Washington. The site is located northwest of the intersection between Pacific Highway South and Dash Point Road, as shown on the Vicinity Map, Figure 1. The general layout of the site is shown on the Site Plan, Figure 2.

Two 10,000-gallon steel gasoline storage tanks, one 550-gallon steel waste oil tank and one 550-gallon steel heating oil tank were removed from the site between September 12 and 14, 1989. The steel gasoline storage tanks were replaced by two 12,000-gallon double-wall fiberglass-coated steel underground storage tanks. The steel waste oil tank was replaced with a 520-gallon double-wall fiberglass-coated steel tank. The steel heating oil tank was removed but not replaced.

The purpose of our services was to observe and evaluate subsurface soil conditions in the excavations, and to develop a remediation plan, if necessary. GeoEngineers' scope of services completed for this project is listed below.

1. Observe and document the excavation of the four underground storage tanks at the site.
2. Obtain soil samples from the limits of the storage tank excavations for chemical analysis of petroleum-related contaminants. Field screening was conducted on each soil sample for evidence of contamination using visual, water sheen and volatile organics headspace screening methods. These methods are described in Appendix A.
3. Obtain one soil sample for chemical analysis from beneath a segment of the product lines that was exposed during repair of a broken water line.

4. Obtain composite samples for chemical analyses from soil removed from the excavations as required for disposal at a landfill.
5. Evaluate the field and laboratory data with regard to existing regulatory concerns.

SOIL EXCAVATION AND SAMPLING

GASOLINE STORAGE TANK EXCAVATION

Joe Hall Construction Inc. (Joe Hall) removed the two gasoline storage tanks on September 12, 1989 from the locations shown in Figure 2. GeoEngineers was present to observe the tank removal activities and to obtain soil samples. Very minor evidence of rust and corrosion was observed on the two storage tanks.

Ground water was not encountered in the excavation. The excavation extended to a depth of 18 feet in the southern portion and 19 feet in the northern portion. Backfill surrounding the tanks consisted of sandy gravel. Fine to medium gravelly sand interbedded with thin layers of gravel and cobbles was encountered in the walls of the gasoline tank excavation to a depth of 18 feet. The gravelly sand unit is underlain by silty sand with occasional gravel.

Physical evidence of petroleum-related contamination was detected in the backfill material in the vicinity of the fill port for the super unleaded gasoline storage tank. Approximately 600 cubic yards of contaminated backfill was transported to Fife Sand and Gravel for aeration. Non-contaminated backfill was transported to Fife Sand and Gravel for use as fill material at other locations. The excavation was lengthened on September 12 to accommodate the larger gasoline storage tanks. The final limits of the excavation are shown in Figure 2.

Seven soil samples (Samples 3 through 9) were obtained from the limits of the completed excavation. Sample 1 was obtained from the non-contaminated backfill removed from the tank excavation and Sample 2 was collected from the contaminated backfill that was transported to Fife Sand and Gravel. All of these soil samples were analyzed for the presence of total petroleum hydrocarbons (TPH by EPA Method 418.1) and for benzene, ethylbenzene, toluene and xylenes (BETX by EPA Method 8020). The sample

locations are shown in Figure 2. Analytical results are summarized in Table 1. Laboratory reports for the soil samples are included in Appendix B.

A section of the product lines was exposed during tank replacement operations to facilitate the repair of a broken water line. The location of the water line excavation is shown on Figure 2. Two discrete soil samples were obtained from beneath the exposed product lines and composited. This composite sample (Sample 10) was submitted for laboratory analysis of BETX and TPH.

The current Washington State Department of Ecology (Ecology) cleanup guidelines for petroleum-contaminated soil are 200 ppm TPH, 660 ppb (.66 ppm) benzene, 14 ppm ethylbenzene and 143 ppm toluene. Test results indicated that concentrations of benzene, ethylbenzene, toluene and TPH were either nondetected or were less than current Ecology cleanup guidelines (Table 1) in the soil samples obtained from the limits of the gasoline storage tank excavation, from beneath the exposed product line and from the non-contaminated soil that was transported to Fife Sand and Gravel for use as fill. A TPH concentration greater than Ecology cleanup guidelines was detected in Sample 2, obtained from the contaminated backfill material.

WASTE OIL/HEATING OIL TANKS EXCAVATION

The waste oil and heating oil tanks were removed by Joe Hall on September 14, 1989. Minor evidence of corrosion was noted on both tanks. The two small-diameter copper pipes that serve as heating oil supply and return pipes were encountered 2.3 feet below the asphalt surface layer in the north wall of the excavation. Petroleum-like odor and staining were noted in the soil surrounding these two pipes.

Six soil samples (Samples 1a through 6a) were obtained from the initial limits of the waste oil/heating oil tanks excavation. Sample 7a was a composite sample obtained from the backfill material removed from the excavation and transported to Fife Sand and Gravel for temporary storage. Approximately 100 cubic yards of backfill from the waste oil/heating oil tanks excavation was transport to Fife Sand and Gravel. Soil sample locations are indicated on Figure 2.

Field screening of soil samples obtained from the limits of the excavation indicated the possible presence of heavier hydrocarbon contamination in the four walls and floor of the excavation. Because the service station building is located immediately north and a service island concrete slab immediately south of the excavation, it was determined that additional soil could not be removed from the walls of the excavation without endangering these structures. It was possible to remove an additional 2.5 feet of soil from beneath the waste oil tank in an attempt to determine the vertical extent of contamination in this area. The results of field screening and laboratory analysis are listed in Table 2.

Samples 1a, 4a, 7a and 8a resulted in TPH concentrations greater than Ecology cleanup guidelines (Table 2). Sample 1a was obtained from beneath the heating oil tank at depth of 6 feet. Sample 4a was obtained from 0.5 feet below the copper pipes that were encountered in the north wall of the excavation. Sample 7a was a composite sample obtained from the soil removed from the excavation and transported to Fife Sand and Gravel. Soil Sample 8a was obtained from the deepened excavation at a depth of 8.5 feet.

SOIL DISPOSAL

We were informed by Joe Hall Construction that the 700 cubic yards of soil temporarily stored at Fife Sand and Gravel was transported on November 21, 1989 to Coal Creek Landfill for disposal. Del Lovell of Joe Hall Construction indicated that permission for disposal was given by Seattle-King County Department of Public Health based on the results of chemical analyses on samples of the soil removed from Service Station 6227.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our observations and testing, gasoline-related contamination of regulatory significance is not present in the vicinity of the underground gasoline storage tanks. However, the results of this study indicate the presence of subsurface petroleum-related soil contamination in the vicinity of the new waste oil tank. Excavation of this soil would require removal of the service station building and the new tank.

The residual contamination in the vicinity of the waste oil tank appears to be limited in extent. It is our opinion, therefore, that this

contamination does not represent a hazard to human health or the environment and that removal of the building is not warranted.

LIMITATIONS

We have prepared this report for use by Unocal. This report may be made available to regulatory agencies. This report is not intended for use by others and the information contained herein is not applicable to other sites.

Our interpretation of soil conditions during remediation is based on field observations and chemical analytical data. It is possible that areas with undetected contamination may exist in portions of the site which were not excavated or analyzed.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted practices in this area at the time the report was prepared. No other conditions, express or implied, should be understood.

Respectfully submitted,

GeoEngineers, Inc.

Julia Fowler
Hydrogeologist

James A. Miller, P.E.
Principal

JF:JAM:db

TABLE 1
SUMMARY OF SUBSURFACE SOIL CHEMISTRY
GASOLINE STORAGE TANK AND PRODUCT LINE EXCAVATION

Sample Number	Sampling Date	Depth of Sample (feet)	BETX (ppb)(a) (EPA Method 8020)				TPH(b) (EPA Method 418.1) (PPM)	Field screening Results(c)		General Sample Location
			B	E	T	X		Headspace Vapors (ppm)	Sheen Test	
1	9/12/89	Composite	ND	ND	ND	7.5	28.1	180	NS	Composite from soil taken to Fife Sand & Gravel for use as fill
2(d)	9/12/89	Composite	77	440	730	3270	382	110	NS	Composite of contaminated soil transported to Fife Sand & Gravel for aeration
3	9/12/89	18	ND	ND	ND	13.8	ND	<100	Slight	Base of excavation, beneath unleaded gasoline tank
4	9/12/89	18	ND	2.6	4.1	94	21.7	<100	Slight	Base of excavation, beneath super unleaded gasoline tank
5	9/12/89	17	ND	ND	ND	4	ND	<100	NS	East wall
6	9/12/89	17	ND	ND	ND	ND	31.2	<100	NS	North wall
7	9/12/89	17	ND	ND	ND	ND	ND	<100	NS	West wall
8	9/12/89	16	ND	ND	1.2	6.2	ND	<100	Slight	South wall
9	9/12/89	19	ND	ND	ND	1.7	ND	<100	NS	Base of excavation, beneath super unleaded gasoline storage tank
10	9/12/89	2	ND	ND	ND	1.6	ND	<100	Slight	Beneath product lines

Notes:
"ND" indicates "not detected"; "NS" indicates "no sheen."
"ppb" indicates "parts per billion"; "ppm" indicates "parts per million."
(a) B = benzene, E = ethylbenzene, T = toluene, X = xylenes. Detections limits are given in Appendix B.
(b) TPH = total petroleum hydrocarbons. Detection limits are given in Appendix B.
(c) Refer to Appendix A for a description of field screening methods.
(d) Sample 2 was also analyzed for fuel hydrocarbons by Modified EPA Method 8015. A concentration of 42 ppm "heavy oil" was detected in this sample.

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TABLE 2
SUMMARY OF SUBSURFACE SOIL CHEMISTRY
WASTE OIL AND HEATING OIL TANK EXCAVATION

Sample Number	Sampling Date	Depth of Sample (feet)	Total Petroleum Hydrocarbons (ppm) (EPA Method 418.1)	Field screening Results(1)		General Sample Location
				Headspace Vapors (ppm)	Sheen Test	
1a	9/14/89	6	561	<100	Moderate	Base of excavation, beneath heating oil tank
2a	9/14/89	6	--	<100	Moderate	Beneath waste oil tank
3a	9/14/89	4	7.9	<100	Moderate	West wall
4a	9/14/89	3	14,933	200	Heavy	North wall
5a	9/14/89	3.5	12.0	<100	Moderate	South wall
6a	9/14/89	4	9.3	<100	Moderate	East wall
7a(2)	9/14/89	Composite	280	<100	Slight	Composite of soil from excavation
8a	9/14/89	8.5	208	<100	Moderate	Base of excavation, beneath waste oil tank

Notes:
"ppb" indicates "parts per billion"; "ppm" indicates "parts per million."
(1) Field screening methods are described in Appendix A.
(2) Sample 7a was also analyzed for chlorinated hydrocarbons (EPA Method 8010), flash point and PCBs. PCBs and chlorinated hydrocarbons were not detected in this sample. Flashpoint was determined to be greater than 200 degrees Fahrenheit.

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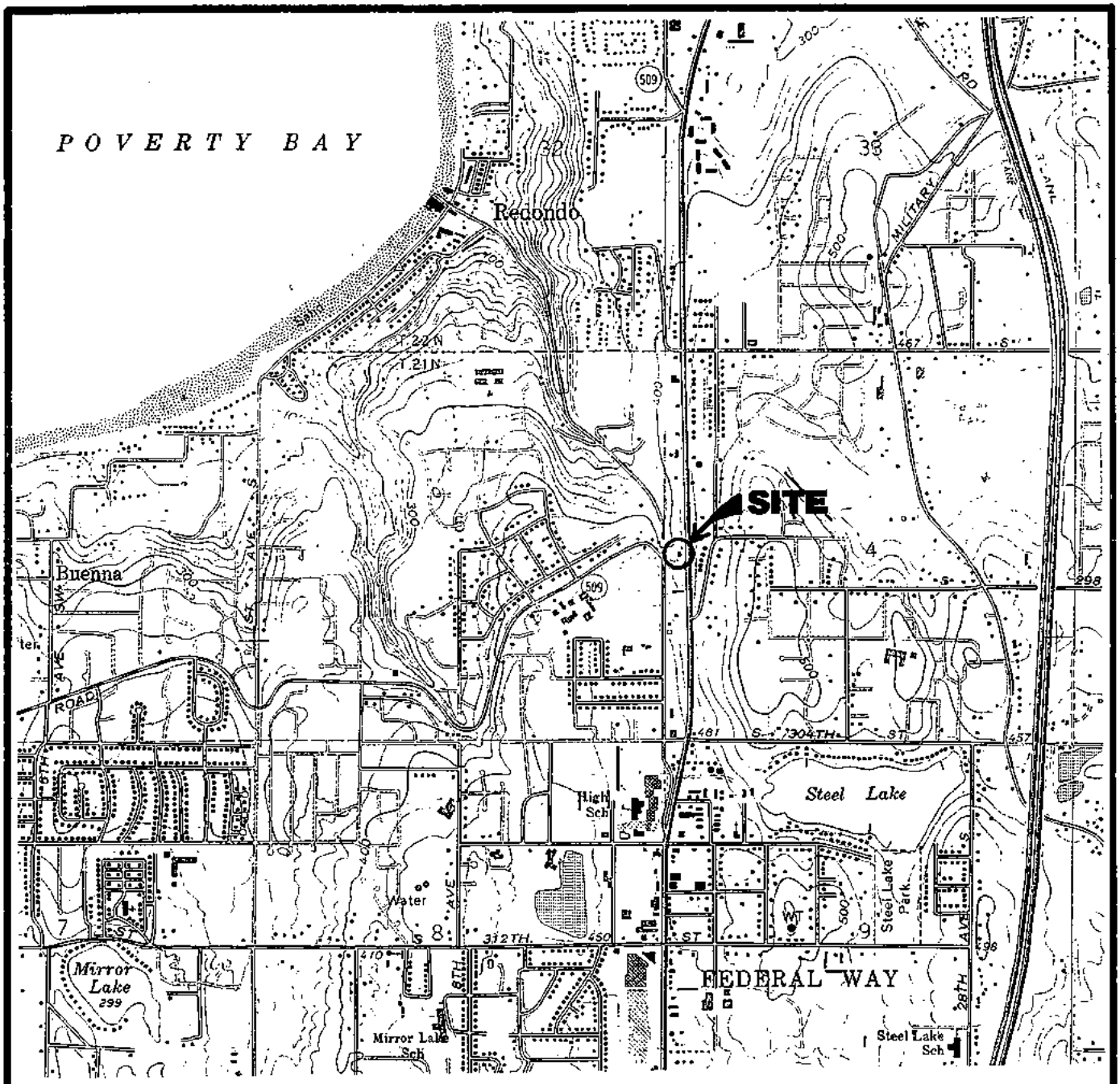

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP "POVERTY BAY, WASH."

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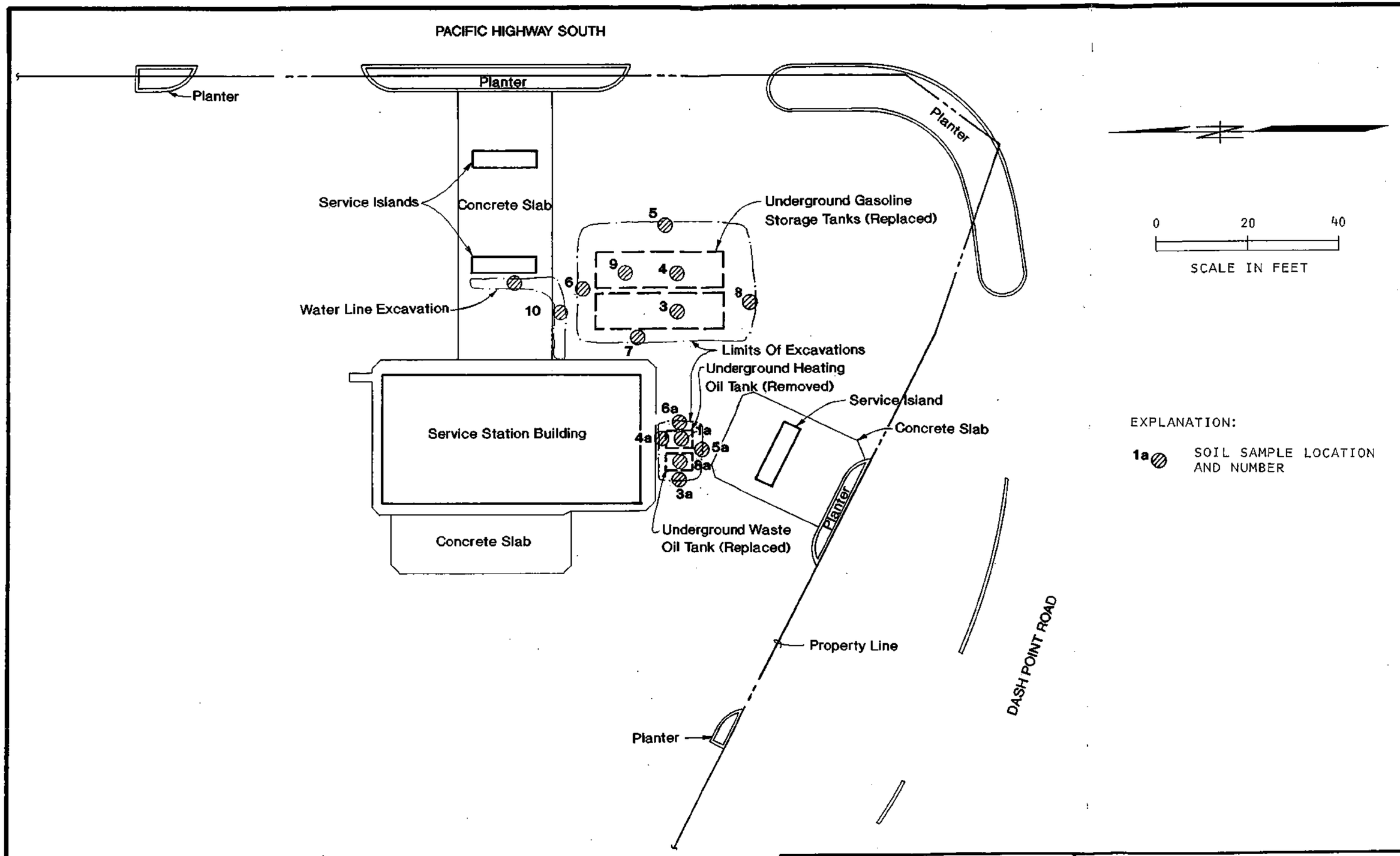
VICINITY MAP

FIGURE 1

0161-041-804 DJK:KKT 10.6.89



REFERENCE: DRAWING ENTITLED "GENERAL ARRANGEMENT, SERVICE STATION 6227, PACIFIC HWY. S. & DASH PT. ROAD, KING CO., WASHINGTON", DATED 3/24/69, BY UNOCAL.

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SITE PLAN

FIGURE 2

0161-041-804 JF:KKT 9.25.89

GeoEngineers

APPENDIX A

FIELD SCREENING OF SOIL SAMPLES

A GeoEngineers representative conducted field screening on soil samples obtained from the underground storage tank excavations. Field screening results are used as a general guideline to delineate areas of potential petroleum-related contamination in soils. In addition, screening results are used to aid in the selection of soil samples for chemical analysis. The field screening methods employed included: (1) visual examination, (2) sheen testing, and (3) headspace vapor testing using a Bacharach TLV Sniffer calibrated to hexane. The results of headspace and sheen screening are included on Tables 1 and 2 in the text of this report.

Visual screening consists of inspecting the soil for the presence of stains indicative of petroleum-related contamination. Visual screening is generally more effective in detecting the presence of heavier petroleum hydrocarbons such as motor oil or when hydrocarbon concentrations are high. Sheen screening and headspace vapor screening are more sensitive methods which have been effective in detecting contamination at levels less than regulatory cleanup guidelines.

Sheen testing involves placing soil in water and observing the water surface for signs of sheen. Sheens are classified as follows:

NS - No Sheen	No visible sheen.
SS - Slight Sheen	Light colorless sheen, spotty to globular; spread is irregular, not rapid; areas of no sheen remain; film dissipates rapidly.
MS - Moderate Sheen	Light to heavy film, may have some color or iridescence, globular to stringy; spread is rapid; irregular to flowing.
HS - Heavy Sheen	Heavy colorful film with iridescence; stringy, spread is rapid; sheen flows off the sample; most of water surface is covered.

Headspace vapor screening involves placing a soil sample in a plastic sample bag. Air is captured in the bag and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a Bacharach TLV Sniffer is used to puncture the bag, the instrument withdraws the air in the bag and the TLV Sniffer records the concentration of combustible vapor in the air removed from the sample headspace. The TLV Sniffer records concentrations in parts per million (ppm) and is calibrated to hexane. The Sniffer is designed to quantify combustible gas concentrations in the range between 100 and 10,000 ppm.

Field screening results are site specific. The results vary with temperature, soil type, type of contaminant, and soil moisture content.

CHEMICAL ANALYTICAL PROGRAM

Soil samples obtained between September 12 and 14, 1989 were analyzed by Enviros Corporation or Sound Analytical Services, Inc.. The soil samples were analyzed for TPH and/or BETX. Infrared spectrophotometry methods were used to analyze for petroleum hydrocarbons (EPA Method 418.1) and gas chromatography was used to quantify BETX (EPA Method 8020).

The composite sample obtained from backfill material surrounding the gasoline tanks was also analyzed for fuel hydrocarbons by modified EPA Method 8015. The composite sample obtained from backfill material surrounding the heating oil and waste oil tanks was analyzed for PCBs, chlorinated hydrocarbons (EPA Method 8010), and TPH (EPA Method 418.1).

APPENDIX B

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS
4630 PACIFIC HIGHWAY EAST, SUITE B-14, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: GeoEngineers
Date: September 18, 1989

Report On: Analysis of Soil
Lab No.: 7652
Page 1 of 2

GeoEngineers
SEP 20 1989
Routing JF
File

IDENTIFICATION:
Samples Received on 9-14-89
Project: 161-41-4 Unocal, Federal Way

ANALYSIS:

Laboratory Sample No.	Client Identification	Total Petroleum Hydrocarbons, mg/kg by EPA Method 418.1
Rush 1	#1	561
Rush 2	#3	7.9
Rush 3	#4	14,933
Rush 4	#5	12.0
Rush 5	#6	9.3
Rush 6	#7	280
Rush 7	#8	208

Laboratory Sample No.: Rush 6 Client ID: #7

Flash, PMCC°F	> 200
PCB, Type	ND
PCB, mg/kg	< 0.1

Continued . . . . . .

This report is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with industry acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

GeoEngineers
Page 2 of 2
Lab No. 7652
September 18, 1989

Laboratory Sample No.: Rush 6 Client ID: #7

Purgeable Halocarbons per EPA SW-846, Method 8010.

Contaminant	Concentration (mg/kg) (ppm)
Methylene chloride	< 0.05
1,1-dichloroethylene	< 0.05
1,2-dichloroethane	< 0.05
1,2-transdichloroethylene	< 0.05
Chloroform	< 0.05
1,2-dichloroethane*	
Freon	< 0.010
1,1,1-trichloroethane	< 0.05
Bromodichloromethane*	
Carbon Tetrachloride	< 0.010
1,2-dichloropropane*	
Trans-1,3-dichloropropene	< 0.010
Trichlorethylene	< 0.05
Cis-1,3-dichloropropene*	
1,1,2-trichloroethane	< 0.010
Chlorodibromomethane	< 0.05
Bromoform	< 0.05
Tetrachloroethylene	< 0.05
1,1,2,2-tetrachloroethane	< 0.05
Chlorobenzene	< 0.05

* These halocarbons coelute

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

This report is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with industry acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SEP 21 1989

Rec. JF

File

September 19, 1989

Julia Fowler, Project Coordinator
GeoEngineers, Inc.
2405-140th Avenue N.E., Suite 105
Bellevue, WA 98005

Dear Julia:

Enclosed are the results of the analyses of samples submitted on September 12, 1989 from Project 0161-41-4 Unocal.

We appreciate this opportunity to be of service to you on this project. If you have any questions regarding this material, or if you just want to discuss any aspect of your projects, please do not hesitate to contact me.

Sincerely,

James K. Farr, Ph.D.

Enclosures

enviros

Corporation Scientists & Engineers (206) 455-2962 fax 451-8546
600 Skyline Tower 10900 NE 4th Street Bellevue, Washington 98004
Analytical Laboratory: 225 112th Avenue NE (206) 453-8174

Date of Report: September 19, 1989
Date Submitted: September 12, 1989
Project: 0161-41-4 Unocal

RESULTS OF ANALYSES OF ENVIRONMENTAL SAMPLES FOR BTX AND ETHYLBENZENE USING PURGE AND TRAP (EPA METHOD 602/8020) Results Reported as ng/g (ppb)

Sample #	Dil. Fac.	Benzene	Toluene	Et-Benzene	Xylene m,p	Xylene o
1	1	<1	<1	<1	5.4	2.1
2	100	<100	680	390	2,400	1,000
2	50	60	730	440	2,300	970
2	1	77	>50	>50	>50	>50
3	1	<1	<1	<1	7.4	6.4
4	1	<1	4.1	2.6	49	45
5	1	<1	<1	<1	2	2
6	1	<1	<1	<1	<1	<1
7	1	<1	<1	<1	<1	<1
8	1	<1	1.2	<1	3.0	3.1
9	1	<1	<1	<1	1.7	<1
10	1	<1	<1	<1	1.6	<1

enviros

Date of Report: September 19, 1989
Date Submitted: September 12, 1989
Project: 0161-41-4 Unocal

RESULTS OF ANALYSES OF ENVIRONMENTAL SAMPLES FOR BTX AND ETHYLBENZENE USING PURGE AND TRAP (EPA METHOD 602/8020) Results Reported as ng/g (ppb)

Sample #	Dil. Fac.	Benzene	Toluene	Et-Benzene	Xylene m,p	Xylene o
Quality Assurance						
Method Blank		<1	<1	<1	<1	<1
(Duplicate)		<1	<1	<1	1.5	<1
(Matrix Spike) Spiked @ 20 ppb Percent Recovery		94%	89%	81%	93%	80%

enviros

Date of Report: September 19, 1989
Date Submitted: September 12, 1989
Project: 0161-41-4 Unocal

RESULTS OF ANALYSES OF SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS (C7-C30) BY MODIFIED EPA METHOD 8015

Sample #	Matrix	Dilution Factor.	TPH (ppm)	RANGE (C7-C30)
2	Soil	1	42*	C7-C32
Quality Assurance				
Method Blank		1	<1.0	----
2 (Duplicate)		1	45	----

* Heavy Oil

enviros

Date of Report: September 19, 1989
Date Submitted: September 12, 1989
Project: 0161-41-4 Unocal

RESULTS OF ANALYSES OF ENVIRONMENTAL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS BY IR (EPA METHOD 418.1)

Sample #		Total Petroleum Hydrocarbons (ppm)
1	Soil	28.1
2	Soil	382
3	Soil	<5.0
4	Soil	21.7
5	Soil	<5.0
6	Soil	31.2
7	Soil	<5.0
8	Soil	<5.0
9	Soil	<5.0
10	Soil	<5.0

Quality Assurance

Method Blank	<5.0
10 (Duplicate)	<5.0

enviros

Julia Fowler

GEOENGINEERS INC.
2405 - 140th AVE. N.E., SUITE 105
BELLEVUE, WASHINGTON 98005
206-746-5200

PROJECT LOC. Federal Way
PROJECT NAME Unocal
GEI FILE NO. 161-41-4

CHAIN OF CUSTODY RECORD

SAMPLED BY Jon C Kolosk. DATE 9-12-89

SAMPLE No.	DATE SAMPLED	~~TIME SAMPLED~~ Lab #	DEPTH OF SAMPLE	TYPE OF SAMPLE	FIELD FILTERED	PRESERVATIVE ADDED TO SAMPLE	ANALYSES TO BE CONDUCTED	NO. OF SAMPLE CONTAINERS	COMMENTS
1	9-12	2456	Composite	50:1	NO	NO - Ice	BETX + TPH	1	BETX by 8020 and TPH by 418.1
2	9-12	57	Composite	"		" "	" (add 418.1)	1	
3	9-12	55	18'	"		" "	" 9/15/89	1	
4	9-12	54	18'	"		" "	"	1	
5	9-12	2460	17'	"		" "	"	1	
6	9-12	61	17'	"		" "	"	1	
7	9-12	62	17'	"		" "	"	1	
8	9-12	63	16'	"		" "	"	1	
9	9-12	64	~~Composite~~ comp	"		" "	"	1	
10	9-12	2465	~~Composite~~ comp	"		←	←	1	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
NAME Jon C Kolosk. FIRM GeoEngineers INC.	9-12-89		NAME Jon C Lopp FIRM	9/12/89	14:45
RELINQUISHED BY (SIGNATURE) NAME FIRM	DATE	TIME	RECEIVED BY (SIGNATURE) NAME FIRM	DATE	TIME

ADDITIONAL COMMENTS:

Please analyze Sample 2 as quickly as possible (24-hour). The others are regular turn around.

Please use EPA methods. Thanks, Julia

B - 8

GEI-01-94

Consulting Geotechnical
Engineers and Geologists

GeoEngineers

Interim
Soils

1/21/91
DM

RESULTS OF SUPPLEMENTAL FIELD TESTING
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

RECEIVED
JAN 22 1991
DEPT. OF ECOLOGY

Interim Soils Site Register 1/23/91 ck

RESULTS OF SUPPLEMENTAL FIELD TESTING
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

GeoEngineers

January 17, 1991

Consulting Geotechnical
Engineers and Geologists

Unocal
P.O. Box 76
Seattle, Washington 98111

Attention: Mr. Gary Gunderson

Results of Supplemental Field Testing
Unocal Service Station 6227
King County, Washington
File No. 0161-041-B04

INTRODUCTION

The results of our supplemental testing for subsurface petroleum-related contamination at the site of Service Station 6227 are presented in this report. The site is located northwest of the intersection between Pacific Highway South and Dash Point Road in the Federal Way area of King County, Washington. The site location and surrounding features are shown in Figure 1. The general layout of the site is shown on the Site Plan, Figure 2.

GeoEngineers previously completed two studies at Service Station 6227. We provided geotechnical services regarding fill embankment and storm drain replacement in 1987. The results of our geotechnical consultation are presented in our report dated June 4, 1987. We observed the removal of the former underground gasoline, waste oil and heating oil storage tanks at the site in September 1989. The results of our observations during tank removal activities at the site are presented in our report dated November 27, 1989.

Total petroleum hydrocarbons (TPH) were detected at concentrations greater than the Washington Department of Ecology (Ecology) cleanup guidelines in the walls and base of the excavation completed for removal of the waste oil and heating oil tanks in 1989. The excavation was between the service station building and the southern service island (Figure 2). Removal of all the contaminated soil from this area was not attempted because of the potential for endangering the building and service island concrete slab. The former gasoline and waste oil tanks were replaced with new tanks. The heating oil tank was removed, but not replaced.

GeoEngineers, Inc.
2405 140th Ave. NE, Suite 105
Bellevue, WA 98005
Telephone (206) 746-5200
Fax. (206) 746-5068

Based on the results of our observations during 1989 tank removal activities, we concluded that the residual contamination in the vicinity of the waste oil tank was limited in extent. We also concluded that this contamination did not represent a hazard to human health or the environment.

SCOPE

The purpose of our supplemental services is to determine if shallow ground water exists beneath the site and if that ground water has been affected by residual waste oil-related soil contamination. The scope of services completed for this study includes:

1. Drill one exploration boring (VP-1) in the vicinity of the former waste oil and heating oil tank excavation using hollow-stem auger drilling equipment.
2. Obtain soil samples at 5-foot intervals from the boring and conduct field screening on the soil samples for evidence of contamination using visual, water sheen and headspace vapor screening methods. The field screening methods are described in Appendix A.
3. Test one soil sample from the boring for the presence of benzene, ethylbenzene, toluene and xylenes (BETX) by EPA Method 8020 and for total petroleum hydrocarbons (TPH) by EPA Method 418.1.
4. Install a 2-inch-diameter PVC well casing with a flush-grade, locking surface monument in the boring.
5. Evaluate the field and laboratory data with regard to current regulatory criteria.

SITE CONDITIONS

GENERAL

Service Station 6227 is located within the Federal Way city limits in an area of primarily residential development. The site is located at the head of a ravine that slopes steeply downward toward the north-northwest. The surface of the site is paved with asphaltic concrete and slopes gently downward toward the northwest. The elevation of the site is approximately 420 feet above sea level.

The service station is inactive. The property includes a service station building, three covered service islands, two 12,000-gallon

underground gasoline storage tanks and one 520-gallon underground waste oil tank. These tanks were installed at the site in 1989. The locations of the current facilities at the service station are shown in Figure 2.

SUBSURFACE SOIL CONDITIONS

Subsurface soil conditions in the vicinity of the former waste oil and heating oil tanks were explored by drilling one exploration boring (VP-1) at the location indicated in Figure 2. Details of the field exploration program and the boring log are presented in Appendix A.

Based on the results of our earlier geotechnical study, we understand that the service station is constructed on imported fill placed at the head of the ravine. Fill consisting of sand and gravel with variable amounts of silt was encountered from the base of the asphalt paving to a depth of 25 feet in VP-1. Very dense silty sand with gravel grading to gravel with sand and silt (glacial till) was encountered beneath the fill to the total depth of the boring (33 feet).

GROUND WATER CONDITIONS

Ground water conditions were explored by installing a vapor probe well casing in Boring VP-1. Construction details for the vapor probe are included in Appendix A.

Ground water was not encountered in the boring. Based on the geology of the area, we anticipate that the depth to ground water at this site is greater than 100 feet. It is possible that runoff water from higher ground east and south of the site drains down the filled ravine during rainy months of the year. "Perched" ground water may exist seasonally above the glacial till unit.

SUBSURFACE CONTAMINATION

Potential subsurface petroleum-related contamination at the location of VP-1 was evaluated by: (1) conducting field screening on soil samples from the boring for evidence of contamination using visual, water sheen and headspace vapor screening methods, and (2) testing one soil sample from the boring for BETX and TPH.

The subsurface soil analytical data are summarized in Table 1. The field screening results are presented on the boring log. The laboratory report is included in Appendix B.

A slight sheen was observed on the soil samples obtained from the depths of 17 and 23 feet in VP-1. Headspace vapor concentrations were less than 100 parts per million (ppm) for all of the soil samples from VP-1. The soil sample from a depth of 23 feet was tested for BETX and TPH. BETX was not detected. TPH was detected at a concentration of 420 milligrams per kilogram (mg/kg) in this sample.

Mr. Joe Hickey of Ecology was informed on August 31, 1990 of the presence of the subsurface soil contamination detected in VP-1. Mr. Hickey also has a copy of our report dated November 27, 1989, regarding our observations during tank removal at the site.

CONCLUSIONS AND RECOMMENDATIONS

The results of this study indicate the possible presence of petroleum-related contamination at depth beneath the site of Service Station 6227. The concentration of TPH detected in the soil sample obtained from 23 feet in VP-1 (420 mg/kg) exceeds the current Ecology soil cleanup guideline for TPH of 200 mg/kg. Three soil samples obtained from the limits of the heating oil and waste oil tank excavation in 1989 also exceeded Ecology's cleanup guideline for TPH.

We drilled VP-1 in an attempt to determine whether shallow or "perched" ground water is present beneath the service station site. Because of the variable geologic conditions beneath the site, the results of this effort are inconclusive.

We understand that Unocal intends to remove the existing gasoline and waste oil tanks from the site in the near future. We recommend that additional soil be excavated from the location of the former waste oil and heating oil tank excavation. Soil should be removed from this area until the concentrations of petroleum-related contamination are less than Ecology cleanup guidelines. It may be necessary to demolish the service station building and a portion of the southern service island to excavate all of the contaminated soil.

We further recommend that an exploratory excavation be completed in the vicinity of VP-1 to determine the extent of the subsurface contamination detected in this boring. The depth of this excavation will be approximately 25 feet. It may be necessary to extend this excavation in the direction of the service station building if subsurface conditions suggest that the

source of contamination in VP-1 is the waste oil tank or a source beneath the building. Soil samples obtained from the exploratory excavation should be submitted for laboratory analysis of petroleum hydrocarbons by EPA Methods 8015 (modified) and 418.1. We understand that the storm drain that was replaced in 1987 was installed around the western perimeter of the site. If the storm drain is encountered during excavation it may be necessary to temporarily remove a portion of the drain pipe to allow excavation to continue. The storm drain should be fully restored upon completion of work at the site.

We recommend that contaminated soil be treated on the site if feasible. In our opinion, land farming/biological treatment is the most practical method of soil remediation at this site. Treatment should consist of spreading the soil on a lined and bermed area of the property, tilling the soil regularly, and adding nutrients (fertilizer) and water as necessary to promote biodegradation of the petroleum product.

LIMITATIONS

We have prepared this report for use by Unocal. This report can be made available to prospective buyers of the property and to regulatory agencies. The report is not intended for use by others and the information contained herein is not applicable to other sites.

Our interpretations of subsurface conditions are based on data from one boring and from previous excavations at the site. It is possible that areas with undetected contamination exist in areas of the site that were not explored or analyzed.

- o 0 o -

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted practices in this area at the time the report was prepared. No other conditions, express or implied, should be understood.

Yours very truly,

GeoEngineers, Inc.

Terry T. Fisk
Geologist

James A. Miller, P.E.
Principal

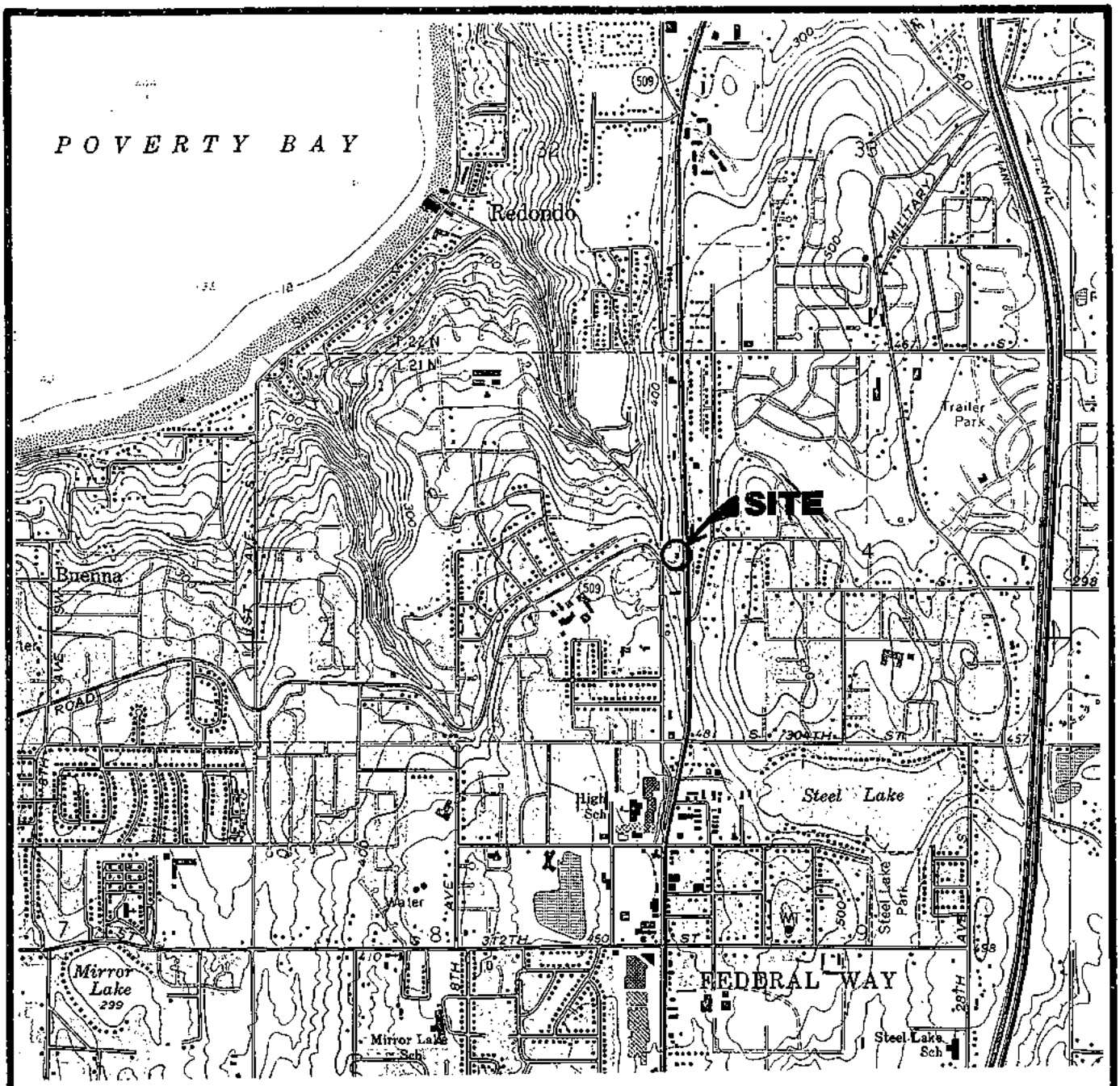
TTF:JAM:ira

cc: Mr. Joe Hickey
Washington Department of Ecology
4350 150th Avenue Northeast
Redmond, Washington 98052

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA

Soil Sample Location	Date Sampled	Depth of Sample (feet)	Field Screening Results		TPH (EPA Method 418.1) (mg/kg)	BETX (mg/kg) (EPA Method 8020)			
			Headspace Vapors (ppm)	Sheen Test		Benzene	Ethylbenzene	Toluene	Xylenes
VP-1	07/25/90	23	<100	SS	420	<0.025	<0.025	<0.025	<0.025

Notes:
"<" indicates "less than"
"ppm" indicates "parts per million"
"mg/kg" indicates "milligram per kilogram"
"SS" indicates "slight sheen"
"TPH" indicates "total petroleum hydrocarbons"



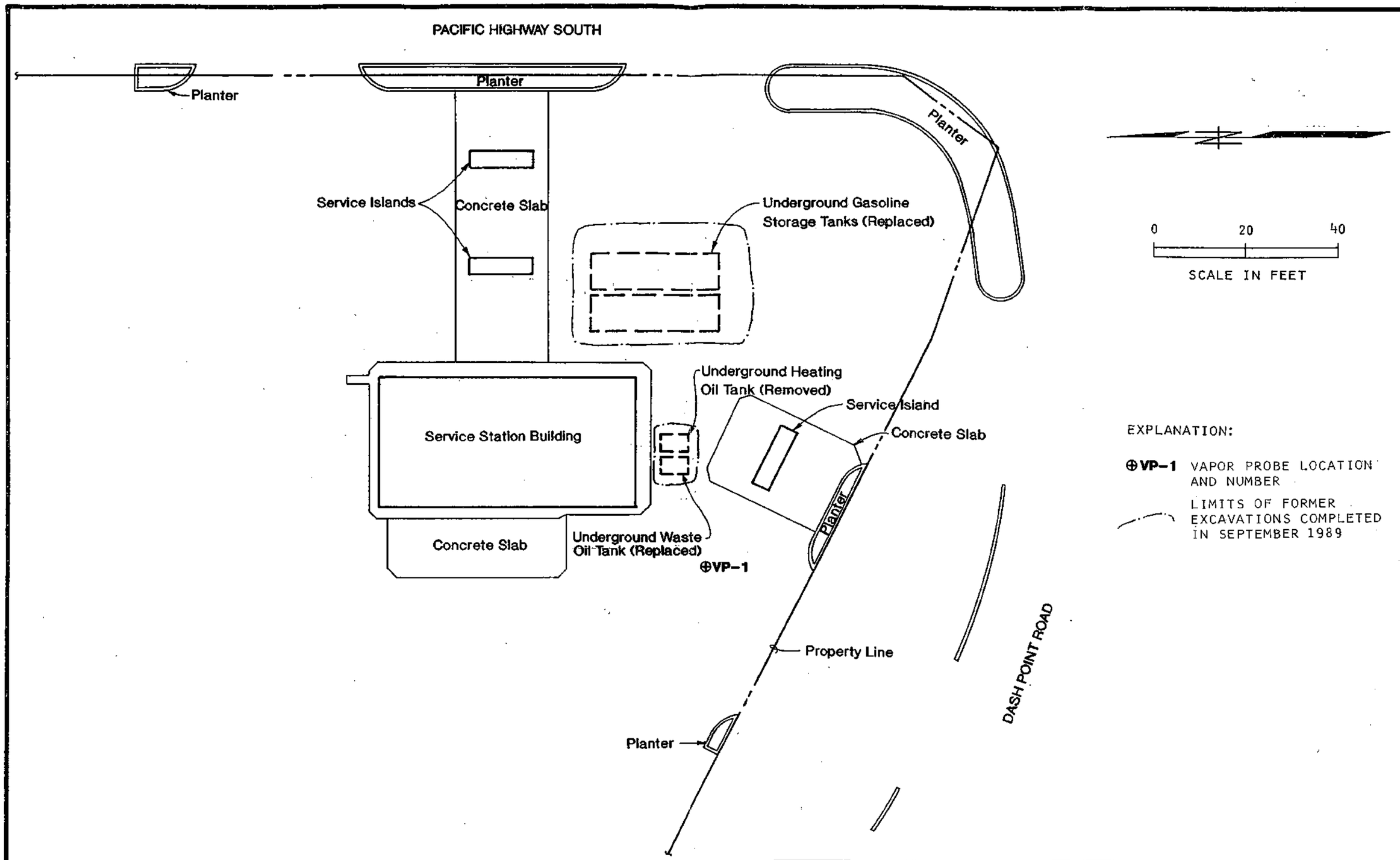
REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP "POVERTY BAY, WASH."

0161-041-B04 DJK:KKT 10-6-89

Geo Engineers

VICINITY MAP

FIGURE 1



REFERENCE: DRAWING ENTITLED "GENERAL ARRANGEMENT, SERVICE STATION 6227, PACIFIC HWY. S. & DASH PT. ROAD, KING CO., WASHINGTON", DATED 3/24/69, BY UNOCAL.

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SITE PLAN

FIGURE 2

0161-041-804 JF:KKT 9-25-89

APPENDIX A

GeoEngineers

APPENDIX A

FIELD EXPLORATIONS

DRILLING AND SOIL SAMPLING PROGRAM

Subsurface conditions at Service Station 6227 were explored by drilling one boring (VP-1) using truck-mounted, hollow-stem auger drilling equipment at the location indicated in Figure 2. The boring was drilled on July 25, 1990 to a depth of 33 feet using drilling equipment owned and operated by McDonald Holt, Inc. The drilling equipment was cleaned with a hot-water pressure washer prior to drilling the boring. The soil sampling equipment was cleaned with a trisodiumphosphate (TSP) solution and rinsed with distilled water prior to drilling.

A geologist from our staff determined the boring location, examined and classified the soils encountered, and prepared a detailed log of the boring. Soils encountered were classified visually in general accordance with ASTM D-2488-83, which is described in Figure A-1. An explanation of the boring log symbols is presented in Figure A-2. The boring log is given in Figure A-3.

Soil samples were obtained from the boring using a Dames & Moore split-barrel sampler (2.4-inch ID). The sampler was driven 18 inches by a 300-pound weight falling a vertical distance of approximately 30 inches. The number of blows needed to advance the sampler the final 12 inches or other specified intervals is indicated to the left of the corresponding sample notations on the boring logs.

One soil sample was selected from the boring for chemical analysis of benzene, ethylbenzene, toluene, and xylenes (BETX), and total petroleum hydrocarbons (TPH). The sample that was tested is denoted in the boring log with a "CA." Chain-of-custody procedures were followed in transporting the soil sample to the laboratory.

FIELD SCREENING OF SOIL SAMPLES

A GeoEngineers representative conducted field screening on soil samples obtained from the boring. Field screening results are used as a general guideline to delineate areas of potential petroleum-related contamination. In addition, screening results are used to aid in the selection of soil samples for chemical analysis. The screening methods employed included:

(1) visual examination, (2) sheen testing, and (3) headspace vapor testing using a Bacharach TLV Sniffer calibrated to hexane. The results of headspace and sheen screening are included on the boring log.

Visual screening consists of inspecting the soil for the presence of stains indicative of petroleum-related contamination. Visual screening is generally more effective when contamination is related to heavier petroleum hydrocarbons such as motor oil, or when hydrocarbon concentrations are high. Sheen screening and headspace vapor screening are more sensitive methods which have been effective in detecting contamination at concentrations less than regulatory cleanup guidelines.

Sheen testing involves placing soil in water and observing the water surface for signs of sheen. Sheens observed are classified as follows:

No Sheen (NS)	No visible sheen on the water surface.
Slight Sheen (SS)	Light colorless sheen, spread is irregular, not rapid; film dissipates rapidly.
Moderate Sheen (MS)	Light to heavy film, may have some color or iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface.
Heavy Sheen (HS)	Heavy colorful film with iridescence; spread is rapid, and sheen flows off the sample; entire water surface may be covered with sheen.

Headspace vapor screening involves placing a soil sample in a plastic sample bag. Air is captured in the bag and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a Bacharach TLV Sniffer is inserted in the bag and the TLV Sniffer records the concentrations of combustible vapor in the air removed from the sample headspace. The TLV Sniffer records concentrations in parts per million (ppm) and is calibrated to hexane. The TLV Sniffer is designed to quantify combustible gas concentrations in the range between 100 and 10,000 ppm.

Field screening results are site and boring specific. The results vary with temperature, soil type, soil moisture content and type of contaminant.

VAPOR PROBE CONSTRUCTION

Two-inch-diameter, Schedule 40 PVC pipe was installed in Boring VP-1 at the completion of drilling. The lower portion of the PVC pipe is machine slotted (0.02-inch slot width) to allow entry of hydrocarbon vapors and water (if present) into the well casing. Medium sand was placed in the borehole annulus surrounding the slotted portion of the PVC pipe. Vapor probe construction is indicated in Figure A-3.

CHEMICAL ANALYTICAL PROGRAM

One soil sample was analyzed by Analytical Technologies, Inc. The soil sample was analyzed for total petroleum hydrocarbons using freon extraction/infrared spectroscopy detection in accordance with EPA Method 418.1. Gas chromatography detection was used to quantify benzene, ethylbenzene, toluene and xylenes in accordance with EPA Method 8020.

The analytical data are presented in Appendix B.

SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE GRAINED SOILS MORE THAN 50% RETAINED ON NO. 200 SIEVE	GRAVEL MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVEL	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL
			GP	POORLY-GRADED GRAVEL
		GRAVEL WITH FINES	GM	SILTY GRAVEL
			GC	CLAYEY GRAVEL
	SAND MORE THAN 50% OF COARSE FRACTION PASSES NO. 4 SIEVE	CLEAN SAND	SW	WELL-GRADED SAND, FINE TO COARSE SAND
			SP	POORLY-GRADED SAND
		SAND WITH FINES	SM	SILTY SAND
			SC	CLAYEY SAND
FINE GRAINED SOILS MORE THAN 50% PASSES NO. 200 SIEVE	SILT AND CLAY LIQUID LIMIT LESS THAN 50	INORGANIC	ML	SILT
			CL	CLAY
		ORGANIC	OL	ORGANIC SILT, ORGANIC CLAY
	SILT AND CLAY LIQUID LIMIT 50 OR MORE	INORGANIC	MH	SILT OF HIGH PLASTICITY, ELASTIC SILT
			CH	CLAY OF HIGH PLASTICITY, FAT CLAY
		ORGANIC	OH	ORGANIC CLAY, ORGANIC SILT
HIGHLY ORGANIC SOILS			PT	PEAT

NOTES:

1. Field classification is based on visual examination of soil in general accordance with ASTM D2488-83.
2. Soil classification using laboratory tests is based on ASTM D2487-83.
3. Descriptions of soil density or consistency are based on interpretation of blowcount data, visual appearance of soils, and/or test data.

SOIL MOISTURE MODIFIERS:

Dry – Absence of moisture, dusty, dry to the touch

Moist – Damp, but no visible water

Wet – Visible free water or saturated, usually soil is obtained from below water table

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SOIL CLASSIFICATION SYSTEM

FIGURE A-1

0161-041-804

GEI 85-88

LABORATORY TESTS:

CA Chemical Analysis

FIELD SCREENING TESTS:

Headspace vapor concentration data given in parts per million

Sheen classification system:

NS No Visible Sheen
SS Slight Sheen
MS Moderate Sheen
HS Heavy Sheen
NT Not Tested

SOIL GRAPH:

SM Soil Group Symbol (See Note 2)

Distinct Contact Between Soil Strata

Gradual or Approximate Location of Change Between Soil Strata

Water Level

Bottom of Boring

BLOW-COUNT/SAMPLE DATA:

Blows required to drive a 2.4-inch I.D. split-barrel sampler 12 inches or other indicated distances using a 300-pound hammer falling 30 inches.

22 ■ Location of relatively undisturbed sample

12 ⊠ Location of disturbed sample

17 □ Location of sampling attempt with no recovery

Blows required to drive a 1.5-inch I.D. (SPT) split-barrel sampler 12 inches or other indicated distances using 140-pound hammer falling 30 inches.

10 ▮ Location of sample obtained in general accordance with Standard Penetration Test (ASTM D-1586) procedures

26 ▯ Location of SPT sampling attempt with no recovery

▤ Location of grab sample

"P" indicates sampler pushed with weight of hammer or against weight of drill rig.

NOTES:

1. The reader must refer to the discussion in the report text, the Key to Boring Log Symbols and the exploration logs for a proper understanding of subsurface conditions.

2. Soil classification system is summarized in Figure A-1.

0161-041-804

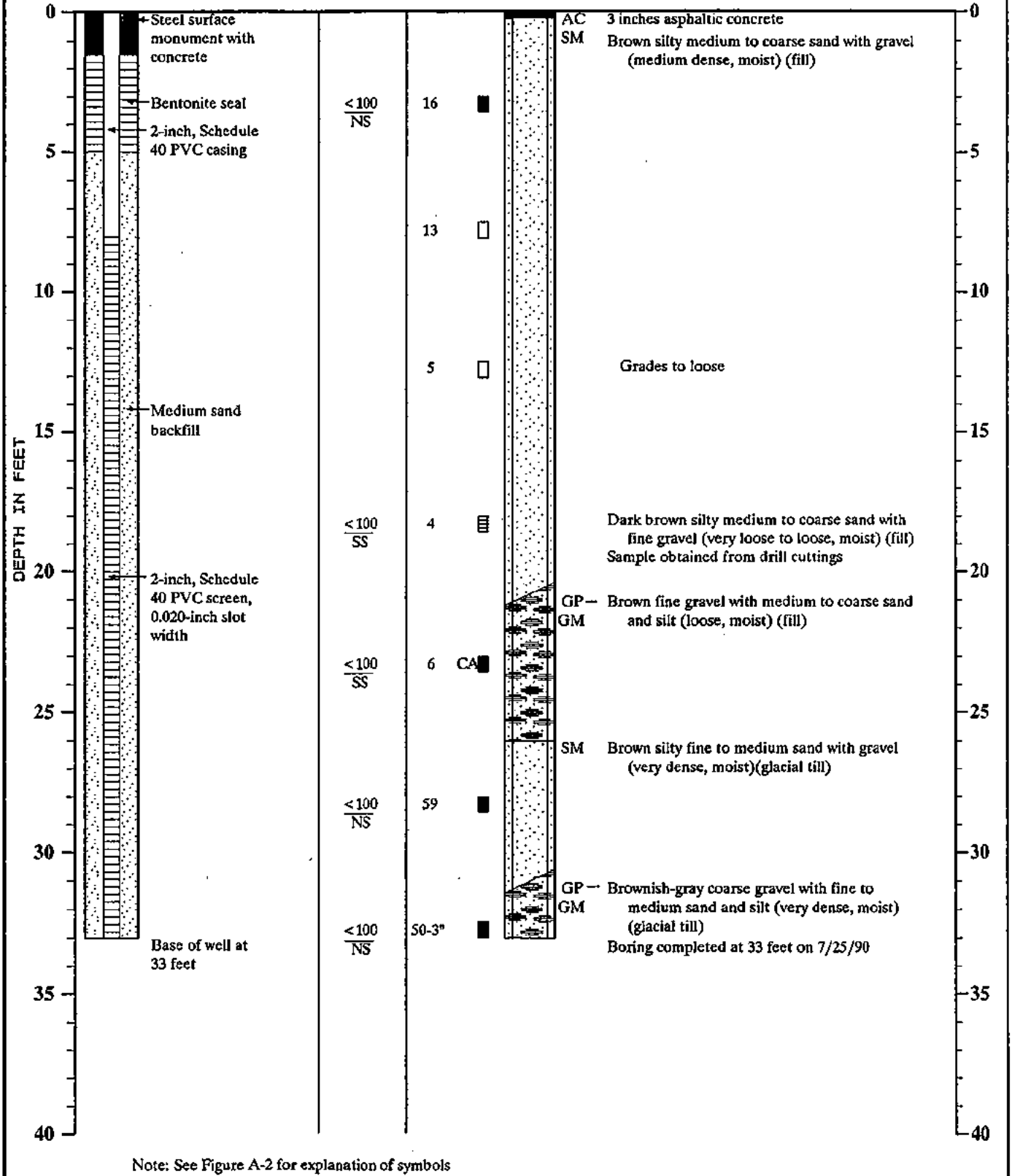
GEI 86-88 Rev. 6/90

Geo Engineers

KEY TO BORING LOG SYMBOLS

FIGURE A-2

VAPOR PROBE NO. VP-1



Note: See Figure A-2 for explanation of symbols

:SAK:TTF:KKT 9/20/90

0161-041-B04

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Log of Vapor Probe

Figure A-3

APPENDIX B

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9008-002

GeoEngineers

AUG 17 1990

Routing

File

August 16, 1990

GeoEngineers, Inc.
2405 140th Ave. NE
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 0161-041-B04

Project Name : Unocal

On August 1, 1990 Analytical Technologies, Inc. received one soil sample for analysis. The sample was analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and the quality control data are enclosed.

Mary C. Silva
Senior Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/hbb

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9008-002-1	MW-1, #5	07/25/90	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R
MOISTURE	GRAVIMETRIC	METHOD 7-2.2	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL	DATE EXTRACTED	: 08/02/90
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 08/06/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	99

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 07/25/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 08/01/90
PROJECT NAME	: UNOCAL	DATE EXTRACTED	: 08/02/90
CLIENT I.D.	: MW-1, #5	DATE ANALYZED	: 08/06/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	85

PURGEABLE AROMATICS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9007-279-5
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 08/01/90
PROJECT NAME	: UNOCAL	DATE ANALYZED	: 08/02/90
EPA METHOD	: 8020 (BETX)	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % REC	RPD
BENZENE	<0.025	0.60	0.491	82	0.539	90	9
TOLUENE	0.114	0.60	0.549	73	0.600	81	9
TOTAL XYLENES	0.343	0.83	1.02	81	0.950	73	7

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC. SAMPLE MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	PETROLEUM HYDROCARBONS
9008-002-1	MW-1, #5	420

GENERAL CHEMISTRY QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL

SAMPLE MATRIX : SOIL
UNITS : mg/Kg

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
PETROLEUM HYDROCARBONS	9002-217-9	1,200	1,300	8	**	**	**
PETROLEUM HYDROCARBONS	9007-233-6	6	11	59	274	255	105

** Due to the necessary dilution of the sample, result was not attainable.

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL

SAMPLE MATRIX : SOIL
UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9008-002-1	MW-1, #5	12

GENERAL CHEMISTRY QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL

SAMPLE MATRIX : SOIL
UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9007-274-3	6.9	7.0	1	N/A	N/A	N/A
MOISTURE	9007-231-2	28	28	0	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.

560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

DATE 8/1/90 PAGE 1 OF 1

LABORATORY NUMBER:

PROJECT MANAGER: Terry Fisk
COMPANY: G E I
ADDRESS: 2405 4th Ave NE
Bellevue WA 98005
PHONE: 747-5200 SAMPLED BY: SAK

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
MW-1 #5	7/31/90	10:00	Soil	-1

	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (8)			NUMBER OF CONTAINERS
MW-1 #5			X									X															1

PROJECT INFORMATION

PROJECT NUMBER: 7111-391-1124
PROJECT NAME: Unocal
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☐ NO ☒:

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	1
COC SEALS/INTACT? Y/N/NA	Y
RECEIVED GOOD COND./COLD	Y/Y
RECEIVED VIA:	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☐ 24HR ☐ 48 HRS ☐ 72 HRS ☒ 1 WK

GREATER THAN 24 HR. NOTICE? YES ☐ NO ☒ (LAB USE ONLY)

SPECIAL INSTRUCTIONS:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 0930	Signature: Time:	Signature: Time:
Printed Name: Terry Fisk Date: 8/1/90	Printed Name: Date:	Printed Name: Date:
Company: GEI	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time:	Signature: Time:	Signature: Time: 940
Printed Name: Date:	Printed Name: Date:	Printed Name: Date: 8-1-90
Company:	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

[redacted]

No. 1241

B - 11

Consulting Geotechnical
Engineers and Geologists

GeoEngineers

4/23/91 Final Cleanup Report
Soils Contamination

REPORT OF REMEDIAL ACTION
UNDERGROUND STORAGE TANK REMOVAL
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

RECEIVED
APR 12 1991
DEPT. OF ECOLOGY

JR UA 4/23/91 Final Cleanup Report Soils Contamination

REPORT OF REMEDIAL ACTION
UNDERGROUND STORAGE TANK REMOVAL
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

GeoEngineers

April 10, 1991

Consulting Geotechnical
Engineers and Geologists

Unocal
P.O. Box 76
Seattle, Washington 98111

Attention: Mr. Leigh Carlson

We are submitting five copies of our report of remedial action for Unocal Service Station 6227 located in King County, Washington. Our services for this project were authorized verbally by Mr. Leigh Carlson of Unocal on December 12, 1990. Contractual terms for our services are listed in blanket contract number B1982C.

We appreciate the opportunity to be of continued service to Unocal. Please call if you have any questions regarding this report or our services.

Yours very truly,

GeoEngineers, Inc.

James A. Miller, P.E.
Principal

TTF:JAM:db

cc: Attn: Mr. Joseph Hickey
Washington Dept. of Ecology
Northwest Regional Office
4350 - 150th Ave. N.E.
Redmond, WA 98052-5301

File No. 0161-041-B04

GeoEngineers, Inc.
2405 140th Ave. NE, Suite 105
Bellevue, WA 98005
Telephone (206) 746-5200
Fax. (206) 746-5068

GeoEngineers

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GeoEngineers

REPORT OF REMEDIAL ACTION
UNDERGROUND STORAGE TANK REMOVAL
UNOCAL SERVICE STATION 6227
KING COUNTY, WASHINGTON
FOR
UNOCAL

INTRODUCTION AND SCOPE

This report summarizes the results of GeoEngineers' observations during the removal of the underground storage tanks at the site of Unocal Service Station 6227 near Federal Way in King County, Washington. The site is located northwest of the intersection between Pacific Highway South and Dash Point Road, as shown in Figure 1. The general layout of the site is shown in Figure 2. The storage tanks were removed from the site during December 1990 and January 1991. The tanks removed during this study were installed at the site in September 1989.

GeoEngineers previously completed three studies at the site. We provided geotechnical services regarding fill embankment and storm drain replacement in 1987. The results of our geotechnical consultation are presented in our report dated June 4, 1987. We observed the removal of the former underground gasoline, waste oil and heating oil tanks in September 1989. The results of our observations during removal of the former tanks are presented in our report dated November 27, 1989. We drilled one exploration boring and installed a vapor well casing (VP-1) in the boring during July 1990. The results of our vapor well exploration are presented in our report dated January 17, 1991.

Information provided by Unocal indicates that the service station facilities were constructed in 1969. A survey completed in February 1969 indicates that the site was covered primarily with vegetation prior to construction of the service station facilities. Two frame buildings were located in the southwest corner of the site in February 1969. We understand that the underground storage tanks removed from the site during 1989 were the tanks installed originally in 1969.

Two 12,000-gallon double-wall, fiberglass-coated steel gasoline storage tanks; associated product lines; one 520-gallon double-wall, fiberglass-coated steel waste oil tank; and the vapor well were removed from the site between December 13, 1990 and January 10, 1991. The underground storage tanks, product lines and vapor well were not replaced.

The purpose of our services was to observe and evaluate subsurface soil conditions in the excavations and to evaluate the need for remedial actions at the site. GeoEngineers' scope of services completed for this project is listed below.

1. Observe and document the excavation and removal of the underground storage tanks, product lines and vapor well at the site.
2. Obtain soil samples from the limits of the excavations and from soil stockpiles for chemical analysis of petroleum-related contaminants. Conduct field screening on each soil sample for evidence of contamination using visual, water sheen and headspace vapor screening methods. Field screening methods are described in Appendix A.
3. Submit selected soil samples from the excavations and soil stockpiles for one or more of the following chemical analyses: TPH (total petroleum hydrocarbons) by EPA Method 418.1; fuel hydrocarbons by modified EPA Method 8015; BETX (benzene, ethylbenzene, toluene, xylenes) by EPA Method 8020; lead by EPA Method 7420; and TCLP (toxicity characteristic leaching procedure) metals by EPA 7000 series methodology.
4. Evaluate the field and laboratory data with regard to existing regulatory concerns.
5. Arrange for disposal of soil with petroleum-related contamination at the Kitsap County Landfill.

SOIL EXCAVATION AND SAMPLING

GENERAL

Sleister (A.L. Sleister and Sons Construction, Inc.) excavated and removed the underground storage tanks, product lines and vapor well at the site. Sleister was also responsible for the excavation of petroleum-contaminated soil encountered at the site. A representative of GeoEngineers was present to observe the tank removal and soil excavation activities, and to obtain soil samples from the excavations. Soil removed from the excavations was placed in temporary on-site stockpiles. The stockpiles were segregated according to the source of the soil and the relative degree of contamination based on field screening. Composite soil samples were collected from each individual stockpile.

The former locations of the underground storage tanks and the vapor well, the limits of the excavations and the soil sample locations are shown in Figure 2. The soil sample analytical data are summarized in Tables 1, 2 and 3. Laboratory data sheets and chain-of-custody records are included in Appendix B.

Ecology (Washington State Department of Ecology) has established soil cleanup levels under MTCA (Model Toxics Control Act). The MTCA Method A soil cleanup levels for petroleum-related contamination are listed below.

Compound	MTCA Cleanup Level
Benzene	0.5 mg/kg
Ethylbenzene	20 mg/kg
Toluene	40 mg/kg
Xylenes	20 mg/kg
TPH (quantified as gasoline)	100 mg/kg
TPH (quantified as diesel)	200 mg/kg
TPH (other)	200 mg/kg
Total Lead	250 mg/kg

Note: mg/kg = milligrams per kilogram.

WASTE OIL TANK EXCAVATION

The waste oil tank was removed on December 13, 1990. Corrosion or pitting were not observed on the tank. Backfill surrounding the tank consisted of fine to medium sand. Soil encountered in the walls and base of the excavation consisted of gravelly sand with thin layers of gravel and cobbles. Ground water was not encountered in the excavation.

Seven discrete soil samples (WO-1 through WO-7) were obtained from the limits of the waste oil tank excavation on December 13, 1990. One sample (WO-8 composite) was obtained from the stockpiled soil on December 13, 1990. The soil samples obtained from the waste oil tank excavation limits and soil stockpile were submitted for chemical analysis of TPH and fuel hydrocarbons.

The sample obtained from the soil stockpile was also analyzed for TCLP metals. Soil sample analytical results are summarized in Table 1. Soil sample locations are shown in Figure 2.

The concentration of TPH (210 mg/kg) exceeded the MTCA cleanup level in sample WO-1 obtained from the base of the excavation. Fuel hydrocarbons were not detected in sample WO-1. TPH and fuel hydrocarbons were either not detected or were detected at concentrations less than MTCA cleanup levels in the remaining samples. Additional soil was removed from the waste oil tank excavation on December 31, 1990. Sample WO-8 (a discrete sample) was obtained from the base of the excavation after the additional soil was removed and submitted for chemical analysis of TPH and fuel hydrocarbons. TPH and fuel hydrocarbons either were not detected or were detected at concentrations less than MTCA cleanup levels in sample WO-8.

GASOLINE TANK EXCAVATION

The gasoline storage tanks were removed on December 18, 1990. Corrosion or pitting were not observed on the two gasoline tanks. Remedial activities at the site were suspended between December 19 and 30, 1990, because of weather conditions.

Backfill surrounding the tanks consisted of fine to medium sand. Fine to medium gravelly sand with thin layers of gravel and cobbles was encountered in the walls and base of the gasoline tank excavation. Evidence of petroleum-related contamination was not observed in the tank backfill or in the walls and base of the excavation. Ground water was not encountered in the excavation.

Five discrete soil samples (G-1 through G-5) were obtained from the limits of the excavation on December 31, 1990. Four composite samples (SP-1, SP-2, G-SP-A and G-SP-B) were obtained from the stockpiled soil. The soil samples were analyzed for BETX and fuel hydrocarbons. All of the samples, excluding composite samples SP-2 and G-SP-A, were also submitted for analysis of total lead. Soil sample analytical results are summarized in Table 2. Soil sample locations are shown in Figure 2.

Test results indicated that BETX and fuel hydrocarbons were not detected in the soil samples. Lead was detected at concentrations greater than MTCA cleanup levels in samples G-3 and G-4, obtained from the base of

the excavation (770 mg/kg and 460 mg/kg, respectively). Lead was not detected at concentrations greater than the MTCA guideline of 250 mg/kg in the remaining samples.

Additional soil was removed from the excavation on January 30 and 31, 1991, based on the concentrations of lead detected in G-3 and G-4. Three discrete soil samples (G-6 through G-8) and four composite samples (GSP-5 through GSP-8) were obtained and submitted for analysis of lead after the additional soil excavation. Sample G-8 was also analyzed for BETX and fuel hydrocarbons. The concentrations of lead in samples G-6 through G-8, and GSP-5 through GSP-8 either were not detected or were less than MTCA cleanup levels (Table 2). BETX was not detected in sample G-8.

PRODUCT LINE EXCAVATIONS

Five discrete soil samples (PL-1 through PL-5) were obtained from the product line excavations on December 31, 1990 and submitted for analysis of BETX and fuel hydrocarbons. Soil sample analytical results are summarized in Table 3. Soil sample locations are shown in Figure 2. Fuel hydrocarbons (quantified as gasoline) were detected at concentrations greater than MTCA cleanup levels in sample PL-3. Ethylbenzene and xylenes were detected at concentrations less than MTCA cleanup levels in sample PL-3. Benzene and toluene were not detected in this sample. Sample PL-3 was obtained from the western portion of the service islands adjacent to Pacific Highway South, as shown in Figure 2. BETX and fuel hydrocarbons were not detected in the remaining samples.

Additional soil was removed from the product line excavation in the vicinity of PL-3 on January 9, 1991. Three discrete soil samples (PL-6 through PL-8) and one composite sample (PL-SP) were obtained and submitted for analysis of BETX and fuel hydrocarbons after the additional soil was removed. Test results indicated that BETX and fuel hydrocarbons were not detected in these samples. Sample PL-6 also was analyzed for total lead. Lead was not detected in sample PL-6.

VAPOR WELL TEST PIT EXCAVATION

TPH was detected at a concentration of 420 mg/kg in the soil sample tested from a depth of 23 feet in vapor well VP-1 at the time the well was constructed in July 1990. BETX was not detected in this sample. A test pit excavation was completed on January 9 and 10, 1991 at the location of VP-1 to determine the source and extent of the petroleum hydrocarbons detected

in the sample from 23 feet. The vapor well casing was removed during the excavation activities. Ground water was not present in the well casing in July 1990 or on January 9, 1991. As indicated in our report dated January 17, 1991, we expect that the depth to ground water beneath the site is greater than 100 feet.

The vapor well excavation was completed at a depth of about 18 feet. Excavation deeper than 18 feet was not possible because of severe sloughing of the test pit sidewalls. Excavation was suspended after two active utilities crossing the site were undermined by sloughing from the excavation sidewalls. Approximately 180 cubic yards of soil were removed from the vapor well test pit excavation. The excavation was backfilled on January 10, 1990, with the soil that was removed from the excavation.

Three discrete soil samples (VW-1, VW-2 and VW-3) were obtained from the depths of 13, 16 and 18 feet in the excavation. Three composite samples (VWSP-1, VWSP-2 and VWSP-3) were obtained from the soil stockpile. The samples were collected on January 9 and 10, 1991. The soil samples were analyzed for fuel hydrocarbons and TPH. The results of analytical testing are summarized in Table 1.

Fuel hydrocarbons were not detected in any of the six samples. TPH was detected at concentrations less than MTCA cleanup levels in all of the samples, except VW-2. TPH was detected at a concentration of 280 mg/kg in VW-2. Examination of the chromatograms included with the fuel hydrocarbons analysis for the six samples obtained from the vapor well excavation and soil stockpile indicates that petroleum hydrocarbons are either not present or are present at very low concentrations in the soil removed from the vicinity of VP-1.

SOIL DISPOSAL AND BACKFILLING OF EXCAVATIONS

Approximately 110 cubic yards of soil were stockpiled at the site pending disposal at the Kitsap County Sanitary Landfill. The stockpile consisted of about 50 cubic yards of petroleum-contaminated soil from the waste oil tank excavation; about 50 cubic yards of lead-contaminated soil from the gasoline tank excavation; and about 10 cubic yards of gasoline-contaminated soil from the product line excavation.

One composite sample (WO-8 composite) was obtained from the stockpile of soil removed from the waste oil tank excavation. The sample was analyzed for fuel hydrocarbons, TPH and TCLP metals. The concentrations of fuel

hydrocarbons, TPH and TCLP metals either were nondetected or were less than MTCA cleanup guidelines in this sample (Table 1). The soil stockpile was not used as backfill, however, because the stockpile includes soil removed from the base of the excavation after TPH was detected at a concentration of 210 mg/kg in sample WO-1. A separate soil sample (sample 7a) obtained from the waste oil tank excavation during our 1989 study was tested for PCBs, purgeable halocarbons and flash point. PCBs and purgeable halocarbons were not detected in this sample. The flash point was greater than 200 degrees Fahrenheit.

One composite soil sample (GSP-8) was obtained from the stockpile of soil removed from the gasoline tank excavation after lead was detected at concentrations greater than MTCA cleanup levels in samples G-3 and G-4. Lead was detected at a concentration of 44.2 mg/kg in sample GSP-8. This soil stockpile will be transported to the landfill based on the lead concentrations detected in G-3 and G-4.

Approximately 10 cubic yards of soil were excavated from the service island excavation after fuel hydrocarbons (quantified as gasoline) were detected at a concentration of 110 mg/kg in sample PL-3. This soil also will be transported to the landfill.

We received permission for disposal of the soil at Kitsap County Landfill on March 5, 1991. The soil was transported to the landfill by CW Trucking & Excavating of Poulsbo, Washington, on March 19, 1991.

Composite samples obtained from the remaining gasoline tank and product line soil stockpiles (SP-1, SP-2, G-SP-A, G-SP-B, GSP-5, GSP-6, GSP-7 and PL-SP) were analyzed for one or more of the following: fuel hydrocarbons, BETX and lead. The concentrations of fuel hydrocarbons, BETX and lead either were nondetected or were less than MTCA cleanup guidelines in these samples (Tables 2 and 3). The soil stockpiles that these samples were collected from were used to backfill the excavations at the site based on the chemical analytical data. The waste oil tank and product line excavations were backfilled by Sleister on March 25, 1991. The gasoline storage tank excavation was not backfilled, as requested by Unocal on March 22, 1991.

CONCLUSIONS

The results of our observations and chemical testing indicate that petroleum-related contamination of regulatory significance is not present

in the vicinity of the underground storage tank and product line excavations at the site of Unocal Service Station 6227. Soil samples collected from the final limits of the excavations and from the stockpiles used to backfill the excavations did not contain petroleum-related contaminants at concentrations exceeding MTCA Method A cleanup levels.

As indicated in previous reports, the service station facilities are constructed on imported fill placed at the head of a ravine. It is possible that the concentrations of TPH detected in soil samples from the vapor well excavation and the sample obtained from a depth of 23 feet in the vapor well boring are the result of interferences caused by organic matter present in the imported fill. In our opinion, petroleum-related contamination of regulatory significance is not present in the location of the former vapor well at this site.

LIMITATIONS

We have prepared this report for use by Unocal. This report may be made available to regulatory agencies. This report is not intended for use by others and the information contained herein is not applicable to other sites.

Our interpretation of soil conditions during remediation is based on field observations and chemical analytical data. It is possible that areas with contamination may exist in portions of the site that were not excavated or analyzed. In addition, regulatory requirements may change and could be applied retroactively.

- o O o -

GeoEngineers

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted practices in this area at the time this report was prepared. No other conditions, express or implied, should be understood.

Respectfully submitted,

GeoEngineers, Inc.

Terry T. Fisk
Project Geologist

James A. Miller, P.E.
Principal

TTF:JAM:db

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA
WASTE OIL TANK AND VAPOR WELL EXCAVATIONS

Sample Number	Sampling Date	General Sample Location	Depth of Sample (feet)	Field Screening Results(1)		TPH(2) (mg/kg)	Fuel Hydrocarbons(3) (mg/kg)	
				Headspace Vapors (ppm)	Sheen Test		Gasoline	Diesel
WO-1(4)	12/13/90	North base, waste oil tank excavation	12.0	<100	NS	210	<5	<5
WO-2	12/13/90	North wall, waste oil tank excavation	7.0	<100	NS	21	<5	<5
WO-3	12/13/90	North wall, waste oil tank excavation	2.0	<100	SS	28	<5	<5
WO-4	12/13/90	West base, waste oil tank excavation	12.0	<100	NS	<5	<5	<5
WO-5	12/13/90	South base, waste oil tank excavation	12.0	<100	SS	8	<5	<5
WO-6	12/13/90	Central base, waste oil tank excavation	13.0	<100	NS	21	<5	<5
WO-7	12/13/90	East base, waste oil tank excavation	12.0	<100	NS	26	<5	<5
WO-8(5)	12/13/90	Composite from waste oil tank excavation	Composite	<100	SS	55	<5	<5
WO-8(5)	12/31/90	North base, waste oil tank excavation	12.5	<100	SS	47	<5	<5
VW-1(4)	01/09/91	Vapor well test pit	13.0	<100	SS	170	<5	<5
VW-2(4)	01/09/91	Vapor well test pit	16.0	<100	SS	280	<5	<5
VW-3	01/10/91	Vapor well test pit	18.0	<100	SS	33	<5	<5
VWSP-1	01/10/91	Composite from vapor well excavation	Composite	<100	SS	34	<5	<5
VWSP-2	01/10/91	Composite from vapor well excavation	Composite	<100	SS	12	<5	<5
VWSP-3	01/10/91	Composite from vapor well excavation	Composite	<100	SS	50	<5	<5

Notes:

(1) Refer to Appendix A for a description of field screening methods.

(2) TPH = total petroleum hydrocarbons. TPH analyzed by EPA Method 418.1.

(3) Analyzed by modified EPA Method 8015.

(4) Additional soil was removed during supplemental excavation.

(5) Also analyzed for TCLP metals. Barium was detected at a concentration less than 1 mg/l in each sample. Other metals were not detected.

NS = no sheen, SS = slight sheen

mg/kg = milligrams per kilogram

ppm = parts per million

TABLE 2
SUMMARY OF SOIL ANALYTICAL DATA
GASOLINE TANK EXCAVATION

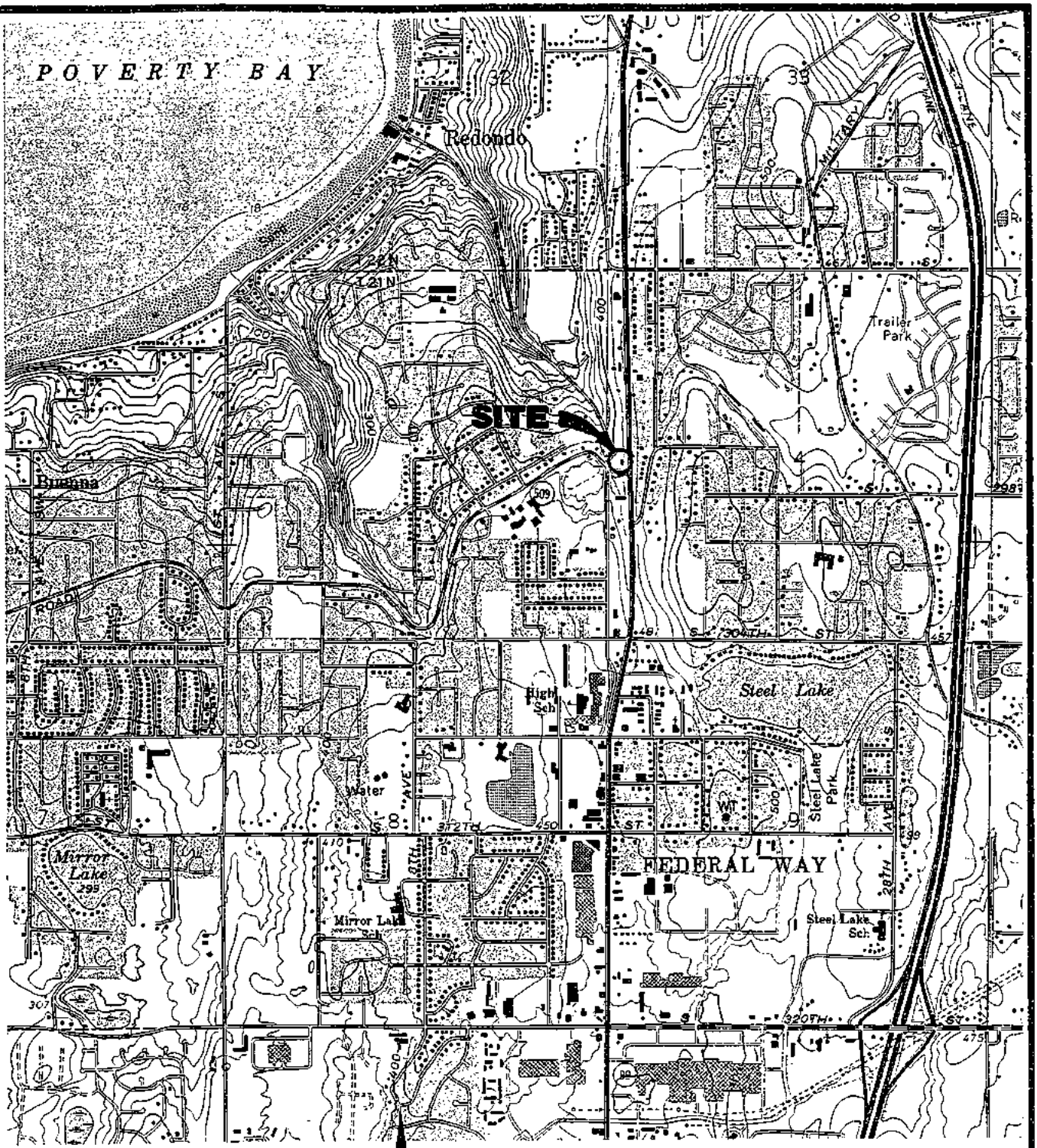
Sample Number	Sampling Date	General Sample Location	Depth of Sample (feet)	Field Screening Results(1)		BETX(2) (mg/kg)				Fuel Hydrocarbons(3) (mg/kg)		Lead(4) (mg/kg)
				Headspace Vapors (ppm)	Sheen Test	B	E	T	X	Gasoline	Diesel	
G-1	12/31/90	South base, gas tank excavation	13.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
G-2	12/31/90	Southwest base, gas tank excavation	14.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
G-3(5)	12/31/90	North base, gas tank excavation	14.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	770
G-4(5)	12/31/90	Northwest base, gas tank excavation	13.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	460
G-5	12/31/90	East base, gas tank excavation	13.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
G-6	01/31/91	North base, gas tank excavation	17.0	<100	NS	—	—	—	—	—	—	14.8
G-7	01/31/91	Northwest base, gas tank excavation	17.0	<100	SS	—	—	—	—	—	—	23.4
G-8	01/31/91	Central base, gas tank excavation	17.0	<100	NS	<0.050	<0.050	<0.050	<0.050	<10	<10	11.0
SP-1	12/31/90	Composite from gas tank excavation	Composite	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
SP-2	12/31/90	Composite from gas tank excavation	Composite	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	—
G-SP-A	01/09/91	Composite from gas tank excavation	Composite	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	—
G-SP-B	01/09/91	Composite from gas tank excavation	Composite	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
GSP-5	01/30/91	Composite from gas tank excavation	Composite	<100	SS	—	—	—	—	—	—	<1.2
GSP-6	01/30/91	Composite from gas tank excavation	Composite	<100	SS	—	—	—	—	—	—	<1.2
GSP-7	01/30/91	Composite from gas tank excavation	Composite	<100	SS	—	—	—	—	—	—	2.8
GSP-8	01/31/91	Composite from gas tank excavation	Composite	<100	SS	—	—	—	—	—	—	44.2

Notes:
(1) Refer to Appendix A for a description of field screening methods.
(2) B = benzene, E = ethylbenzene, T = toluene, X = xylenes. BETX analyzed by EPA Method 8020.
(3) Analyzed by modified EPA Method 8015.
(4) Analyzed by EPA Method 7420.
(5) Additional soil was removed during supplemental excavation.
NS = no sheen; SS = slight sheen.
mg/kg = milligrams per kilogram
ppm = parts per million
"—" = not tested

TABLE 3
SUMMARY OF SOIL ANALYTICAL DATA
PRODUCT LINE EXCAVATIONS

Sample Number	Sampling Date	General Sample Location	Depth of Sample (feet)	Field Screening Results(1)		BETX(2) (mg/kg)				Fuel Hydrocarbons(3) (mg/kg)		Lead(4) (mg/kg)
				Headspace Vapors (ppm)	Sheen Test	B	E	T	X	Gasoline	Diesel	
PL-1	12/31/90	South Island, product line excavation	3.0	<100	MS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-2	12/31/90	South Island, product line excavation	2.5	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-3(5)	12/31/90	Northwest Island, product line excavation	3.0	<100	HS	<0.025	0.096	<0.025	1.6	110	<5	--
PL-4	12/31/90	Northeast Island, product line excavation	3.0	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-5	12/31/90	Northwest Island, product line excavation	2.5	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-6	01/09/91	Northwest Island, product line excavation	2.0	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	<10
PL-7	01/09/91	Northwest Island, product line excavation	2.0	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-8	01/09/91	Northwest Island, product line excavation	1.5	<100	NS	<0.025	<0.025	<0.025	<0.025	<5	<5	--
PL-SP	01/09/91	Composite from product line excavation	Composite	<100	SS	<0.025	<0.025	<0.025	<0.025	<5	<5	--

Notes:
(1) Refer to Appendix A for a description of field screening methods.
(2) B = benzene, E = ethylbenzene, T = toluene, X = xylenes. BETX analyzed by EPA Method 8020.
(3) Analyzed by modified EPA Method 8015.
(4) Analyzed by EPA Method 7420.
(5) Additional soil was removed during supplemental excavation.
NS = no sheen; SS = slight sheen; MS = moderate sheen; HS = heavy sheen
mg/kg = milligrams per kilogram
ppm = parts per million
"--" = not tested



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP "POVERTY BAY, WASH."

0181-041-804 TTF:KKT 3.6.91

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VICINITY MAP

FIGURE 1

PACIFIC HIGHWAY SOUTH

Planter

Planter

Planter

Service Islands

PL-4

PL-8

PL-5

G-3

G-6

PL-3

PL-6

PL-7

G-5

Underground Gasoline Storage Tanks (Removed)

G-1

G-8

G-4

G-7

G-2

Underground Waste Oil Tank (Removed)

Service Station Building

See Inset

Concrete Slab

Service Island

Concrete Slab

PL-2

PL-1

Planter

VW-1

VW-2

VW-3

Vapor Well (Removed)

Property Line

DASH POINT ROAD

Planter

Inset: Waste Oil Tank Excavation

WO-7

WO-2

WO-5

WO-8

WO-6

WO-1

WO-3

WO-4

0 20 40

SCALE IN FEET

EXPLANATION:

G-1 SOIL SAMPLE LOCATION AND NUMBER

LIMITS OF EXCAVATIONS COMPLETED IN DECEMBER 1990 AND JANUARY 1991

REFERENCE: DRAWING ENTITLED "GENERAL ARRANGEMENT, SERVICE STATION 6227, PACIFIC HWY. S. & DASH PT. ROAD, KING CO., WASHINGTON", DATED 3/24/69, BY UNOCAL.

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SITE PLAN

FIGURE 2

0161-041-804 JF:KKT 9-25-89

APPENDIX A

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APPENDIX A

FIELD SCREENING OF SOIL SAMPLES

A GeoEngineers representative conducted field screening on soil samples obtained from the storage tank, product line and test pit excavations. Field screening results are used as a general guideline to delineate areas of potential petroleum-related contamination in soils. In addition, screening results are used to aid in the selection of soil samples for chemical analysis. The field screening methods employed included: (1) visual examination, (2) sheen testing and (3) headspace vapor testing using a Bacharach TLV Sniffer calibrated to hexane. The results of headspace and sheen screening are included in Tables 1, 2 and 3 in the text of this report.

Visual screening consists of inspecting the soil for the presence of stains indicative of petroleum-related contamination. Visual screening is generally more effective when contamination is related to heavier petroleum hydrocarbons such as motor oil, or when hydrocarbon concentrations are high. Sheen testing and headspace vapor screening are more sensitive methods which have been effective in detecting contamination at concentrations less than MTCA cleanup levels.

Sheen testing involves immersion of a soil sample in water and observing the water surface for signs of sheen. Sheens are classified as follows:

NS - No Sheen	No visible sheen on water surface.
SS - Slight Sheen	Light colorless sheen, spotty to globular; spread is irregular, not rapid; areas of no sheen remain; film dissipates rapidly.
MS - Moderate Sheen	Light to heavy film, may have some color or iridescence, globular to stringy; spread is irregular to flowing, may be rapid; few remaining areas of no sheen.
HS - Heavy Sheen	Heavy colorful film with iridescence; spread is rapid, and sheen flows off the sample; entire water surface may be covered with sheen.

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Headspace vapor screening involves placing a soil sample in a plastic sample bag. Air is captured in the bag and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a Bacharach TLV Sniffer is used to puncture the bag, the instrument withdraws the air in the bag and the TLV Sniffer records the concentration of combustible vapors present within the sample bag headspace. The TLV Sniffer records vapor concentration in ppm (parts per million) and is calibrated to hexane. The TLV Sniffer is designed to quantify combustible vapor concentrations ranging between 100 and 10,000 ppm.

Field screening results are site specific. The results vary with soil type, ambient air temperature, soil moisture content, soil organic content and type of contaminant.

CHEMICAL ANALYTICAL PROGRAM

Soil samples were submitted to Analytical Technologies, Inc. and Sound Analytical Services, Inc. for laboratory analyses. Soil samples were analyzed for one or more of the following analyses: TPH (total petroleum hydrocarbons) using infrared spectroscopy detection in accordance with EPA Method 418.1; fuel hydrocarbons using gas chromatography with flame ionization detection in accordance with modified EPA Method 8015; BETX (benzene, ethylbenzene, toluene and xylenes) using gas chromatography with photoionization detection in accordance with EPA Method 8020; lead using atomic absorption detection in accordance with EPA Method 7420; and TCLP (toxic characteristics leaching procedure) metals using atomic absorption detection in accordance with EPA 7000 series methodology.

Chain-of-custody procedures were observed in transporting the soil samples to the analytical laboratories. Laboratory data sheets and chain-of-custody records are presented in Appendix B.

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APPENDIX B

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9012-122

GeoEngineers

DEC 27 1990

Routing JF

File

December 26, 1990

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Julia Fowler

Project Number : 0161-041-B04

Project Name : Unocal - Federal Way

On December 13, 1990, Analytical Technologies, Inc., received eight soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Mary C. Silva
Senior Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/elf

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9012-122-1	WO-1 (N BASE)	12/13/90	SOIL
9012-122-2	WO-2 (N WALL)	12/13/90	SOIL
9012-122-3	WO-3 (N WALL)	12/13/90	SOIL
9012-122-4	WO-4 (W BASE)	12/13/90	SOIL
9012-122-5	WO-5 (S BASE)	12/13/90	SOIL
9012-122-6	WO-6 (CENTER BASE)	12/13/90	SOIL
9012-122-7	WO-7 (E BASE)	12/13/90	SOIL
9012-122-8	WO-8 (COMPOSITE)	12/13/90	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	8

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 12/13/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-1 (N BASE)	DATE ANALYZED	: 12/13/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-2 (N WALL)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-3 (N WALL)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-4 (W BASE)	DATE ANALYZED	: 12/13/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-5 (S BASE)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-6 (CENTER BASE)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-7 (E BASE)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/13/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE EXTRACTED	: 12/13/90
CLIENT I.D.	: WO-8 (COMPOSITE)	DATE ANALYZED	: 12/14/90
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9012-122-4
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 12/13/90
PROJECT NAME	: UNOCAL - FEDERAL WAY	DATE ANALYZED	: 12/13/90
EPA METHOD	: 8015 MODIFIED	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	CONC SPIKED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % RECOVERY	RPD
FUEL HYDROCARBONS	<5	500	502	100	474	95	6

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY UNITS : mg/Kg

ATI I.D.#	CLIENT I.D.	PETROLEUM HYDROCARBONS
9012-122-1	WO-1 (N BASE)	210
9012-122-2	WO-2 (N WALL)	21
9012-122-3	WO-3 (N WALL)	28
9012-122-4	WO-4 (W BASE)	<5
9012-122-5	WO-5 (S BASE)	8
9012-122-6	WO-6 (CENTER BASE)	21
9012-122-7	WO-7 (E BASE)	26
9012-122-8	WO-8 (COMPOSITE)	55

GENERAL CHEMISTRY QUALITY CONTROL

CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY UNITS : mg/Kg

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
PETROLEUM HYDROCARBONS	9012-122-8	55	61	9	301	250	98

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

DATE 12-13-90 PAGE 1 OF 1

LABORATORY NUMBER: 9012-122

PROJECT MANAGER: Julia Fowler
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, #105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert Miyahira

SAMPLE DISPOSAL INSTRUCTIONS
☒ ATI Disposal @ $5.00 each ☐ Return

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	TCLP ONLY: 8240 ZH-EXT	TCLP ONLY: 8270	TCLP ONLY: 8150 Herbicides (2)	TCLP ONLY: Metals (8)			NUMBER OF CONTAINERS
12' WO-1 (N base)	12-13-90	1305	Soil	1												X		X													1
7' WO-2 (N wall)		1310		2												X		X													1
2' WO-3 (N wall)		1310		3												X		X													1
12' WO-4 (W base)		1315		4												X		X													1
12' WO-5 (S base)		1315		5												X		X													1
13' WO-6 (center base)		1320		6												X		X													1
12' WO-7 (E base)		1320		7												X		X													1
WO-8 (composite)	↓	1330	↓	8												X		X													1

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PROJECT INFORMATION	SAMPLE RECEIPT
PROJECT NUMBER: 0161-041-B04	TOTAL NUMBER OF CONTAINERS: 8
PROJECT NAME: Unocal - Federal Way	COC SEALS/INTACT? Y/N/NA: N/A
PURCHASE ORDER NUMBER:	RECEIVED GOOD COND./COLD: ✓
ONGOING PROJECT? YES ☐ NO ☐	RECEIVED VIA: Hand del

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK

GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: contact Julia Fowler w/results

For Unocal Service Station #6277

RELINQUISHED BY: 1	RELINQUISHED BY: 2	RELINQUISHED BY: 3
Signature: Robert Miyahira Time: 1430	Signature: Time:	Signature: Time:
Printed Name: Robert Miyahira Date: 12-13-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc.	Company:	Company:
RECEIVED BY: 1	**RECEIVED BY: 2**	**RECEIVED BY: (LAB) 3**
Signature: T. Landreth Time: 14:30	Signature: Time:	Signature: Time:
Printed Name: T. Landreth Date: 12/13/90	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

№ 2502

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9101-003

GeoEngineers

JAN 11 1991

Routing

File

January 10, 1991

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 0161-041-B04

Project Name : Unocal-Federal Way

On January 2, 1991, Analytical Technologies, Inc., received 13 soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Bob A. Olsiewski
Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/tc

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-003-1	SP-1 (GAS STOCKPILE-WEST)	12/31/90	SOIL
9101-003-2	SP-2 (GAS STOCKPILE-EAST)	12/31/90	SOIL
9101-003-3	PL-1 (SOUTH ISLAND-WEST)	12/31/90	SOIL
9101-003-4	PL-2 (SOUTH ISLAND-EAST)	12/31/90	SOIL
9101-003-5	PL-3 (NW ISLAND-NORTH)	12/31/90	SOIL
9101-003-6	PL-4 (NE ISLAND-SOUTH)	12/31/90	SOIL
9101-003-7	PL-5 (NW ISLAND-SOUTH)	12/31/90	SOIL
9101-003-8	G-1 (SOUTH BASE)	12/31/90	SOIL
9101-003-9	G-2 (SW BASE)	12/31/90	SOIL
9101-003-10	G-3 (NORTH BASE)	12/31/90	SOIL
9101-003-11	G-4 (NW BASE)	12/31/90	SOIL
9101-003-12	G-5 (EAST BASE)	12/31/90	SOIL
9101-003-13	WO-8 (NORTH BASE)	12/31/90	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	13

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R
MOISTURE	GRAVIMETRIC	METHOD 7-2.2	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	95

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: SP-1 (GAS STOCKPILE-WEST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	90

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: SP-2 (GAS STOCKPILE-EAST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	86

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-1 (SOUTH ISLAND-WEST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	86

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-2 (SOUTH ISLAND-EAST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	85

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-3 (NW ISLAND-NORTH)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	0.096
TOLUENE	<0.025
TOTAL XYLENES	1.6

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	94

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-4 (NE ISLAND-SOUTH)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	85

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-5 (NW ISLAND-SOUTH)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	78

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-1 (SOUTH BASE)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	80

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-2 (SW BASE)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	85

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-3 (NORTH BASE)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	75

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-4 (NW BASE)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	78

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-5 (EAST BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	79

PURGEABLE AROMATICS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9101-003-1
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE ANALYZED	: 01/02/91
EPA METHOD	: 8020 (BETX)	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % REC	RPD
BENZENE	<0.025	1.0	0.803	80	0.798	80	1
TOLUENE	<0.025	1.0	0.823	82	0.744	74	10
TOTAL XYLENES	<0.025	2.0	1.67	84	1.53	77	9

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: SP-1 (GAS STOCKPILE-WEST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: SP-2 (GAS STOCKPILE-EAST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-1 (SOUTH ISLAND-WEST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-2 (SOUTH ISLAND-EAST)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-3 (NW ISLAND-NORTH)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	110
HYDROCARBON RANGE	C8 - C12
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-4 (NE ISLAND-SOUTH)	DATE ANALYZED	: 01/02/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: PL-5 (NW ISLAND-SOUTH)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-1 (SOUTH BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-2 (SW BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-3 (NORTH BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-4 (NW BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: G-5 (EAST BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/31/90
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE EXTRACTED	: 01/02/91
CLIENT I.D.	: WO-8 (NORTH BASE)	DATE ANALYZED	: 01/03/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9101-003-4
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 01/02/91
PROJECT NAME	: UNOCAL-FEDERAL WAY	DATE ANALYZED	: 01/02/91
EPA METHOD	: 8015 MODIFIED	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	CONC SPIKED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % RECOVERY	RPD
FUEL HYDROCARBONS	<5	500	421	84	420	84	0

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

SAMPLE MATRIX : SOIL
UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	PETROLEUM HYDROCARBONS
9101-003-13	WO-8 (NORTH BASE)	47
REAGENT BLANK	-	<5

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC. SAMPLE MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9101-003-1	SP-1 (GAS STOCKPILE-WEST)	11
9101-003-2	SP-2 (GAS STOCKPILE-EAST)	9.2
9101-003-3	PL-1 (SOUTH ISLAND-WEST)	11
9101-003-4	PL-2 (SOUTH ISLAND-EAST)	10
9101-003-5	PL-3 (NW ISLAND-NORTH)	12
9101-003-6	PL-4 (NE ISLAND-SOUTH)	12
9101-003-7	PL-5 (NW ISLAND-SOUTH)	15
9101-003-8	G-1 (SOUTH BASE)	21
9101-003-9	G-2 (SW BASE)	16
9101-003-10	G-3 (NORTH BASE)	21
9101-003-11	G-4 (NW BASE)	14
9101-003-12	G-5 (EAST BASE)	11

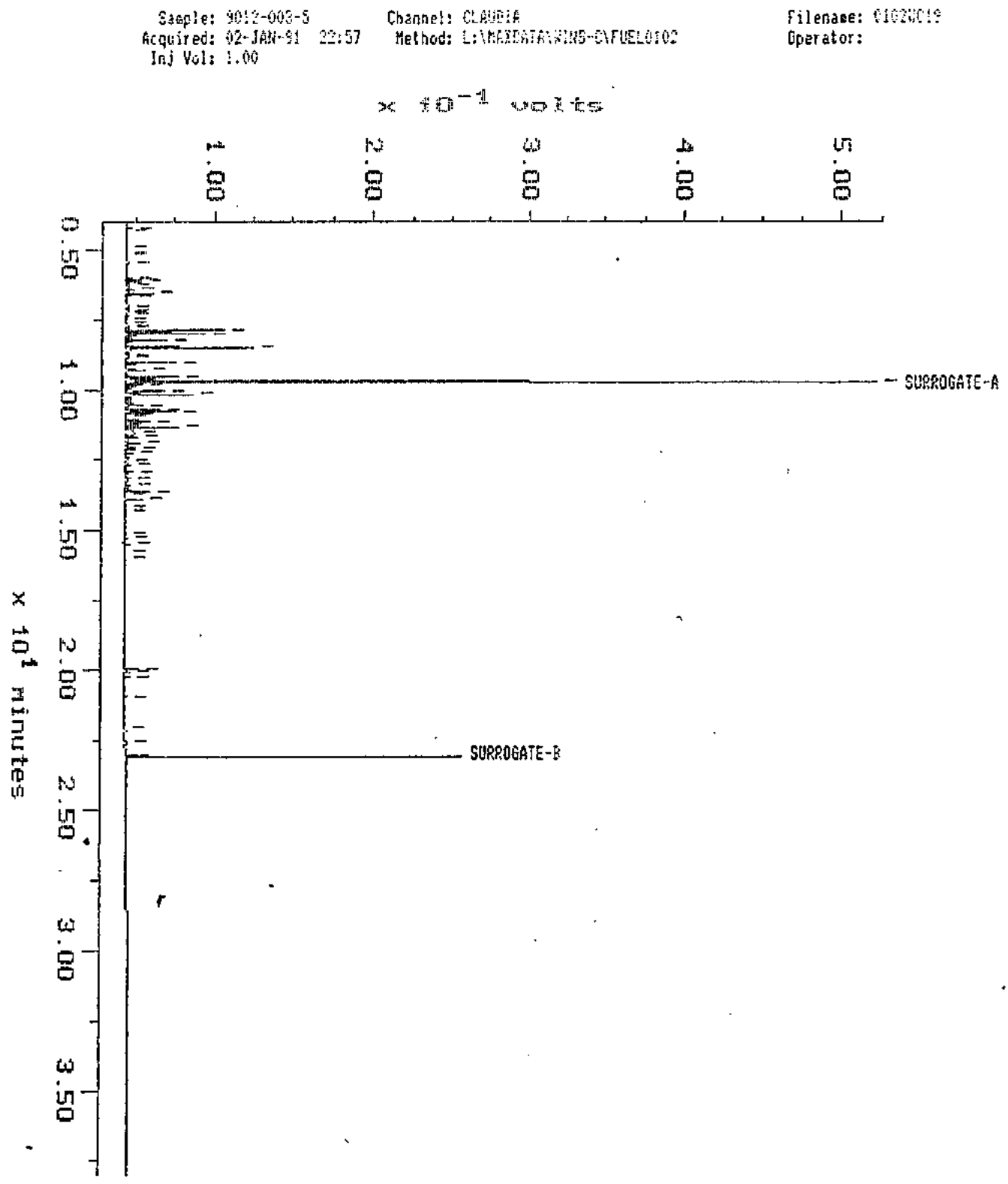
GENERAL CHEMISTRY QUALITY CONTROL

CLIENT : GEOENGINEERS, INC. SAMPLE MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
PETROLEUM HYDROCARBONS	mg/Kg	9101-003-13	47	43	9	306	252	103
MOISTURE	%	9101-003-6	12	11	9	N/A	N/A	N/A
MOISTURE	%	9101-003-12	11	11	0	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$


Sample: 9012-003-5
Acquired: 02-JAN-91 22:57
Inj Vol: 1.00
Channel: CLAUDIA
Method: L:\MASSDATA\WIN5-0\FUEL0102
Filename: 0102W019
Operator:
x 10⁻¹ volts
1.00
2.00
3.00
4.00
5.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
x 10¹ minutes
SURROGATE-A
SURROGATE-B

Analytical Technologies, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

DATE 12-18-90 (12-31-90) PAGE 1 OF 2

LABORATORY NUMBER: 9101-003

PROJECT MANAGER: Terry Fisk
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, # 105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert N. Miyahira

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	TCLP ONLY: 8240 ZH-EXT	TCLP ONLY: 8270	TCLP ONLY: 8150 Herbicides (2)	TCLP ONLY: Metals (8)			NUMBER OF CONTAINERS
SP-1 (gas stockpile - west) composite	12-31-90	1105	soil	-1			X											X													1
SP-2 (gas stockpile - east) composite		1110		-2			X											X													1
PL-1 (south island - west) 3'		1355		-3			X											X													1
PL-2 (south island - east) 2½'		1400		-4			X											X													1
PL-3 (NW island - north) 3'		1435		-5			X											X													1
PL-4 (NE island - south) 3'		1445		-6			X											X													1
PL-5 (NW island - south) 2½'		1505		-7			X											X													1
G-1 (south base) 13'		1420		-8			X											X													1
G-2 (SW base) 14'		1430		-9			X											X													1
G-3 (north base) 14'		1450		-10			X											X													1
G-4 (NW base) 13'		1500		-11			X											X													1
G-5 (east base) 13'	↓	1520	↓	-12			X											X													1

PROJECT INFORMATION

PROJECT NUMBER: 0161-041-B04
PROJECT NAME: Unocal - Federal Way
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS: 13
COC SEALS/INTACT? Y/N/NA *: Y/N/NA
RECEIVED GOOD COND./COLD: 4
RECEIVED VIA: Courier

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: Contact Terry Fisk with results

For Unocal Service Station #6227

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: Robert Miyahira 1730	Signature: Time:	Signature: Time:
Printed Name: Date: Robert Miyahira 12-31-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc.	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time: D.L. Thomas 10:45	Signature: Time:	Signature: Time:
Printed Name: Date: D.L. Thomas 1-2-91	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

Nº 3148

Analytical**Technologies,**Inc.
560 Naches Avenue SW, Suite 101 Renton,WA 98055 (206)228-8335

Chain of Custody

DATE 12-31-90 PAGE 2 OF 2

LABORATORY NUMBER: 9101-003

PROJECT MANAGER: Terry Fisk
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, #105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert N. Miyahira

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
12½' WD-8 (north base)	12-31-90	1530	soil	-13

ANALYSIS REQUEST

8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (8)			NUMBER OF CONTAINERS
											X		X													1

PROJECT INFORMATION

PROJECT NUMBER: 0161-041-B04
PROJECT NAME: Unocal - Federal Way
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	13
COC SEALS/INTACT? Y/N/NA	Y/NO
RECEIVED GOOD COND./COLD	Y
RECEIVED VIA:	Courier

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK

GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: contact Terry Fisk with results

For Unocal Service Station #6227

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 1730	Signature: Time:	Signature: Time:
Printed Name: Robert Miyahira Date: 12-31-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc.	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time: 10:45	Signature: Time:	Signature: Time:
Printed Name: DL Thomas Date: 1-2-91	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 **DISTRIBUTION:** White, Canary - ATI • Pink - ORIGINATOR

№ 2334

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9101-053

GeoEngineers

January 15, 1991

JAN 17 1991

Routing

File

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 0161-041-B04

Project Name : Unocal Federal Way

On January 10, 1991, Analytical Technologies, Inc., received eight soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Bob A. Olsiewski
Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/elf

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-053-1	910109-PL-6	01/09/91	SOIL
9101-053-2	910109-PL-7	01/09/91	SOIL
9101-053-3	910109-PL-8	01/09/91	SOIL
9101-053-4	910109-PL-SP	01/09/91	SOIL
9101-053-5	910109-VW-1	01/09/91	SOIL
9101-053-6	910109-VW-2	01/09/91	SOIL
9101-053-7	910109-G-SP-A	01/09/91	SOIL
9101-053-8	910109-G-SP-B	01/09/91	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	8

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R
MOISTURE	GRAVIMETRIC	METHOD 7-2.2	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	99

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-6	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	91

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-7	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	96

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-8	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	92

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-SP	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	92

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-G-SP-A	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	89

PURGEABLE AROMATICS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-G-SP-B	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS BASED ON DRY WEIGHT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY

BROMOFLUOROBENZENE	92

PURGEABLE AROMATICS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9101-053-3
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE ANALYZED	: 01/10/91
EPA METHOD	: 8020 (BETX)	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % REC	RPD
BENZENE	<0.025	1.0	0.774	77	0.838	84	8
TOLUENE	<0.025	1.0	0.821	82	0.886	89	8
TOTAL XYLENES	<0.025	2.0	1.74	87	1.87	94	7

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 0161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-6	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-7	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-8	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-PL-SP	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-VW-1	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-VW-2	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-G-SP-A	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/09/91
PROJECT #	: 0161-041-B04	DATE RECEIVED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/10/91
CLIENT I.D.	: 910109-G-SP-B	DATE ANALYZED	: 01/10/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9101-053-3
PROJECT #	: 0161-041-B04	DATE EXTRACTED	: 01/10/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE ANALYZED	: 01/10/91
EPA METHOD	: 8015 MODIFIED	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	CONC SPIKED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % RECOVERY	RPD
FUEL HYDROCARBONS	<5	500	381	76	394	79	3

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	PETROLEUM HYDROCARBONS
9101-053-5	910109-VW-1	170
9101-053-6	910109-VW-2	280
REAGENT BLANK	-	<5

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9101-053-1	910109-PL-6	13
9101-053-2	910109-PL-7	16
9101-053-3	910109-PL-8	10
9101-053-4	910109-PL-SP	13
9101-053-7	910109-G-SP-A	12
9101-053-8	910109-G-SP-B	11

GENERAL CHEMISTRY QUALITY CONTROL

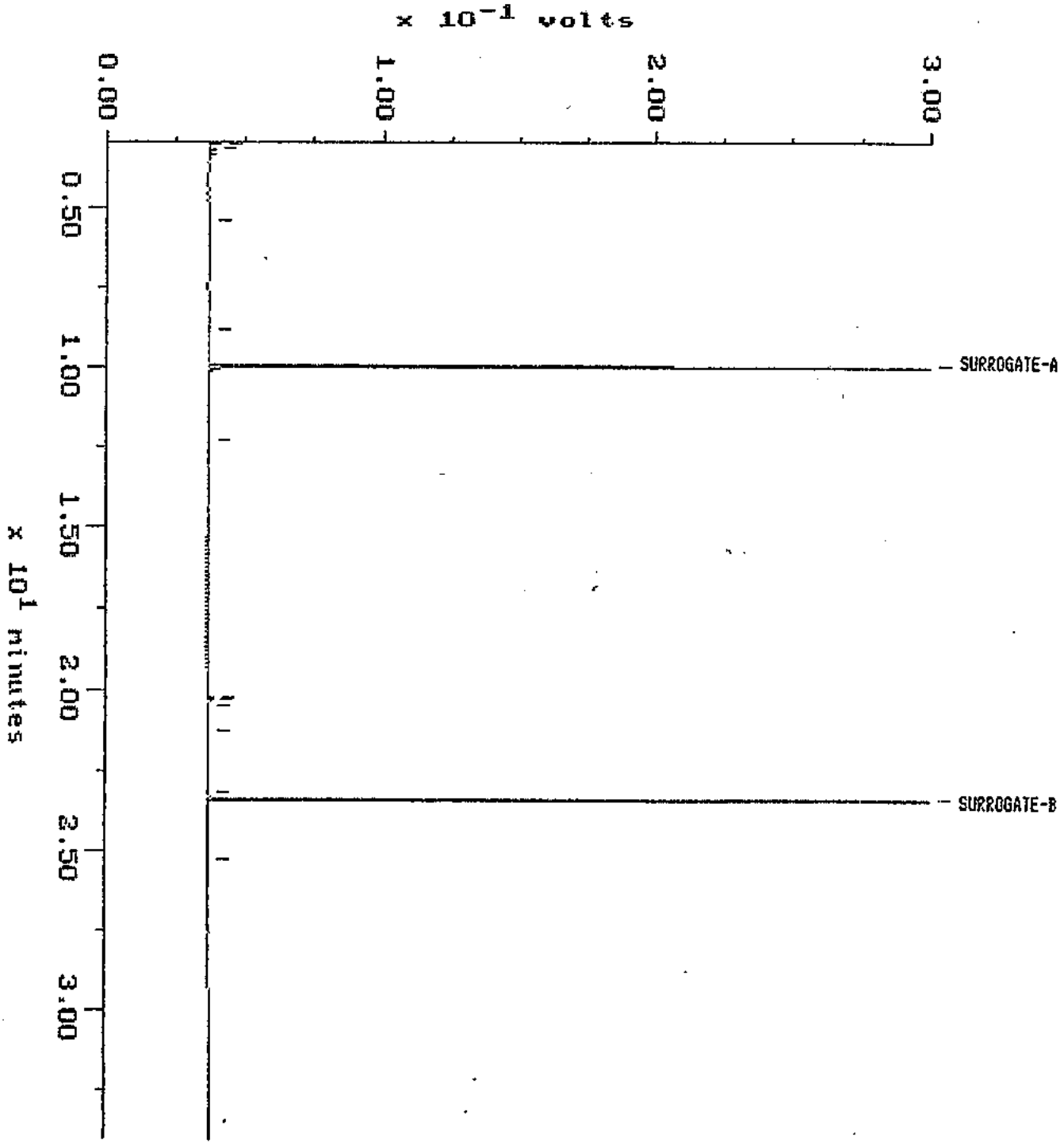
CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
PETROLEUM HYDROCARBONS	mg/Kg	9101-053-6	280	270	4	576	263	112
MOISTURE	%	9101-059-2	16	17	6	N/A	N/A	N/A

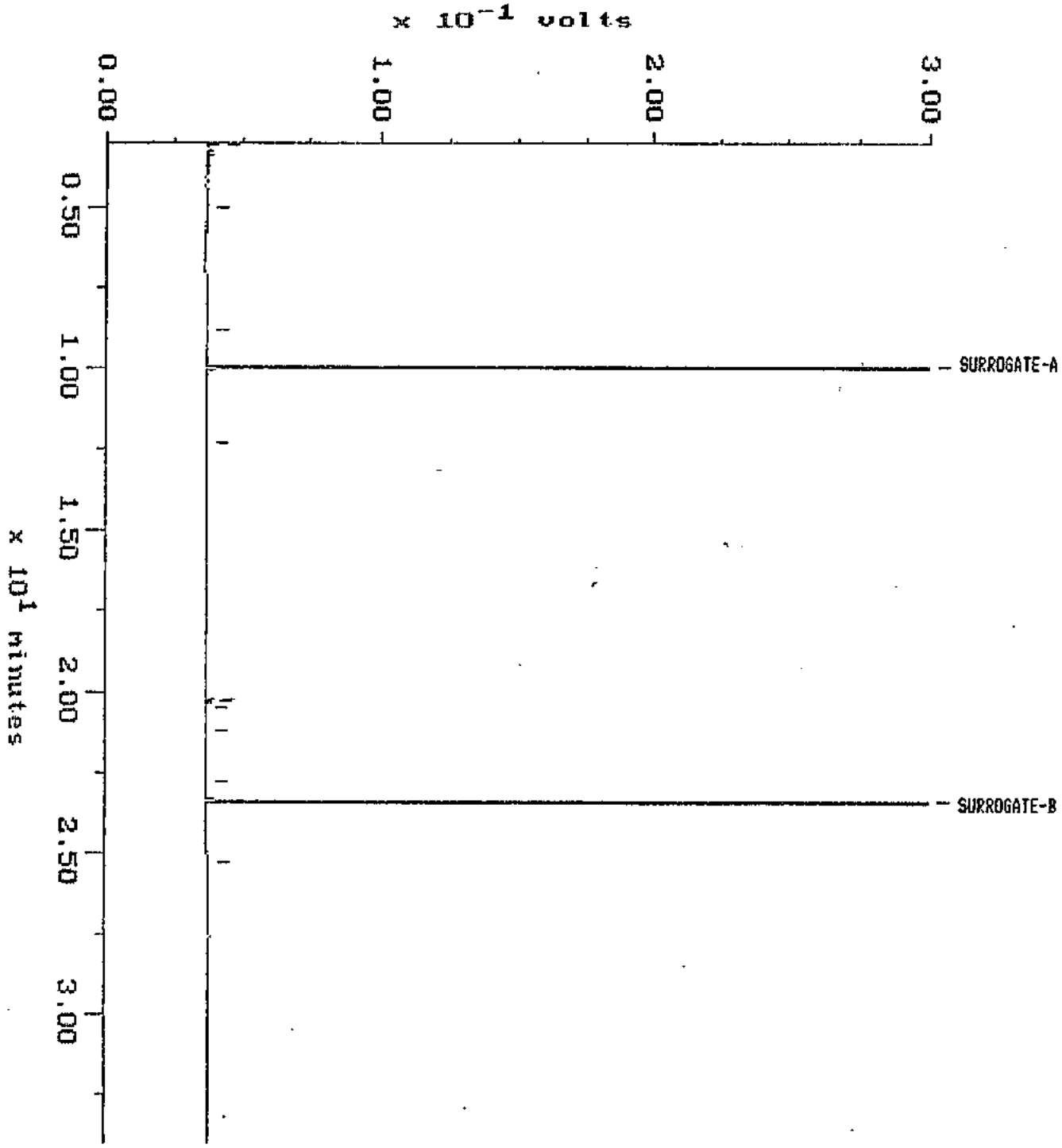
$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

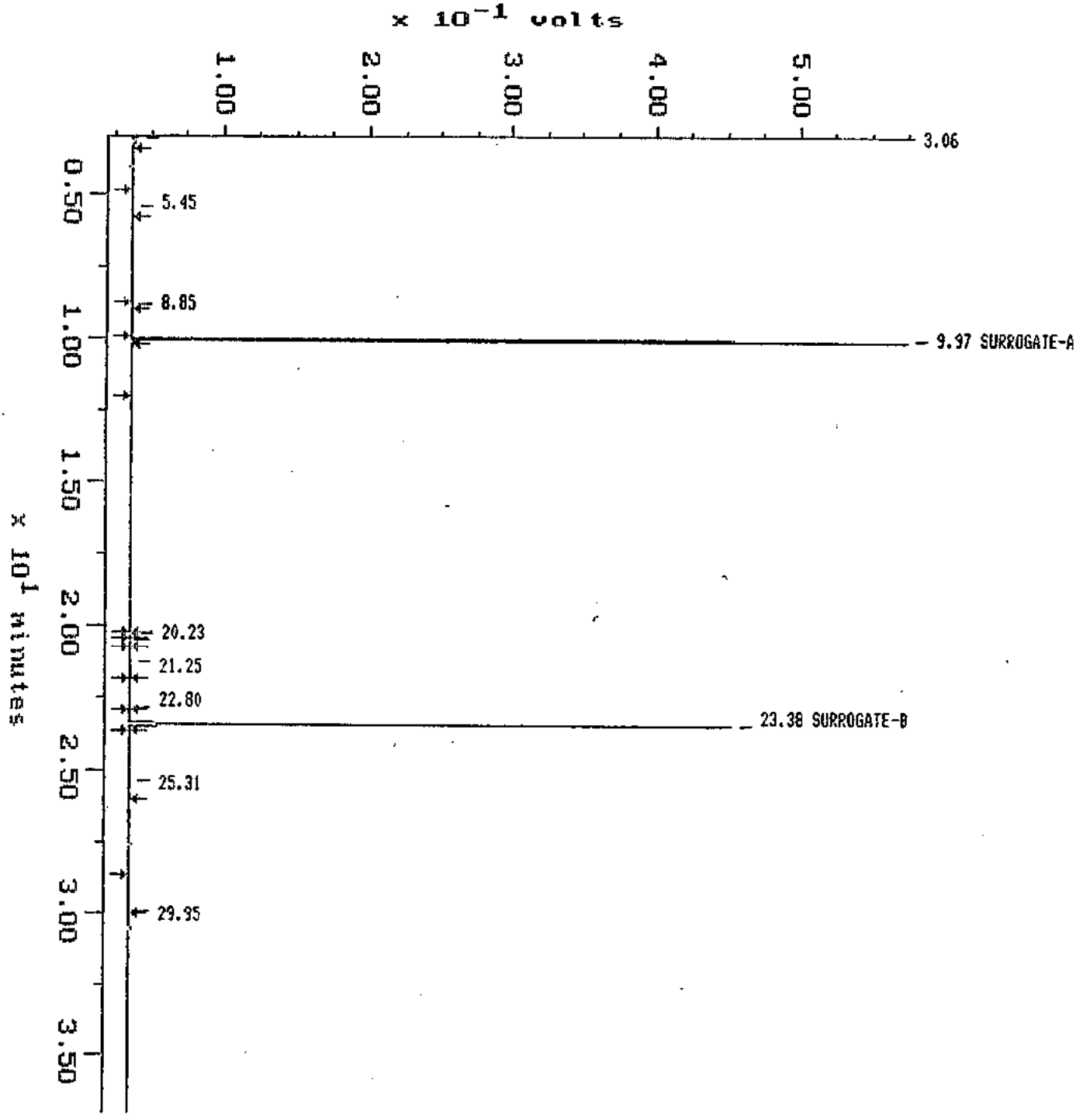
Sample: 9101-053-1 Channel: CLARENCE Filename: 0110SC09
Acquired: 10-JAN-91 18:36 Method: M:\MAXDATA\SERGE-C\FUEL0110 Operator: BRE
Inj Vol: 1.00



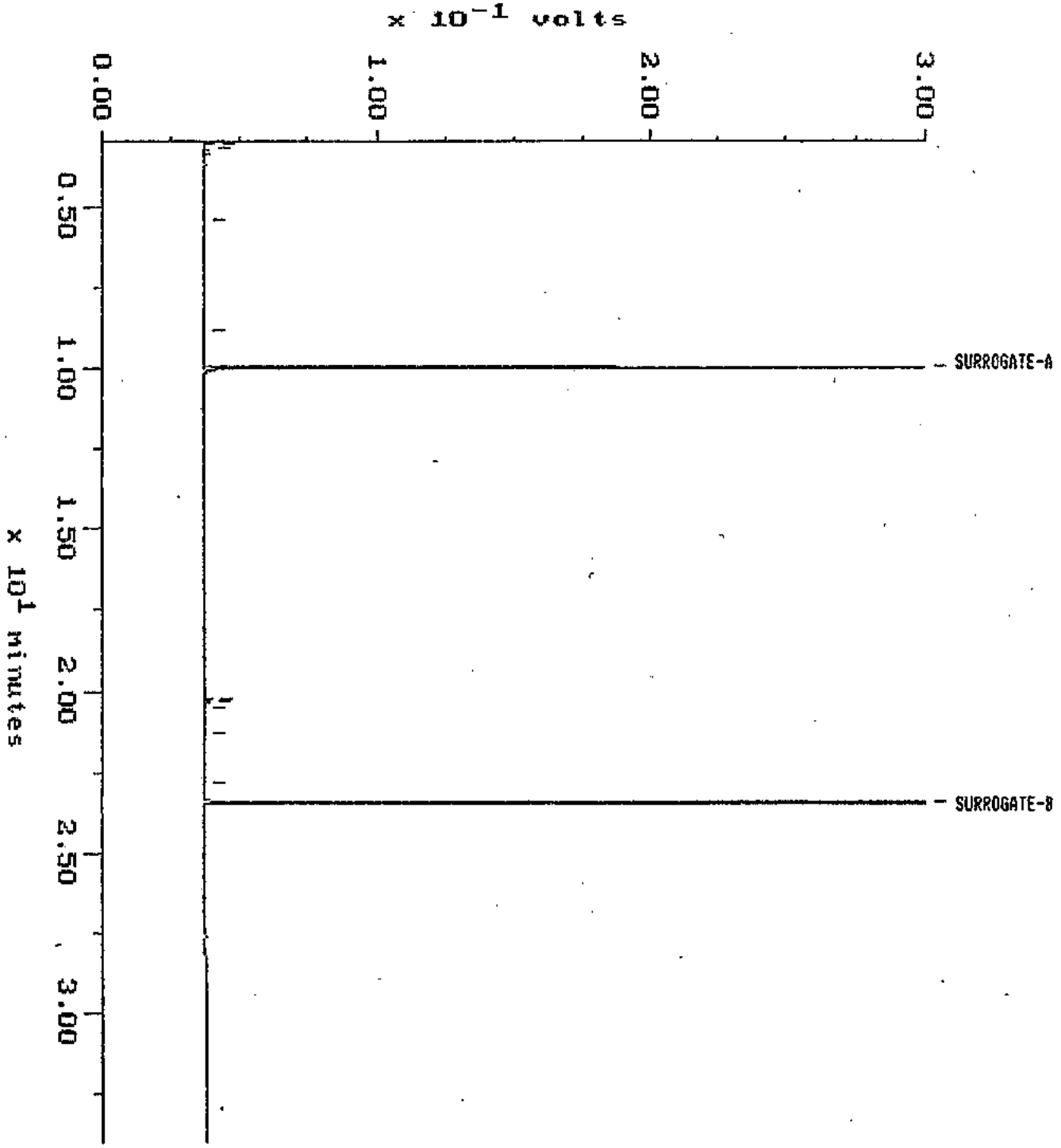
Sample: 9101-053-2 Channel: CLARENCE Filename: 0110SC10
Acquired: 10-JAN-91 19:23 Method: M:\MAXDATA\SERGE-C\FUEL0110 Operator: BRE
Inj Vol: 1.00



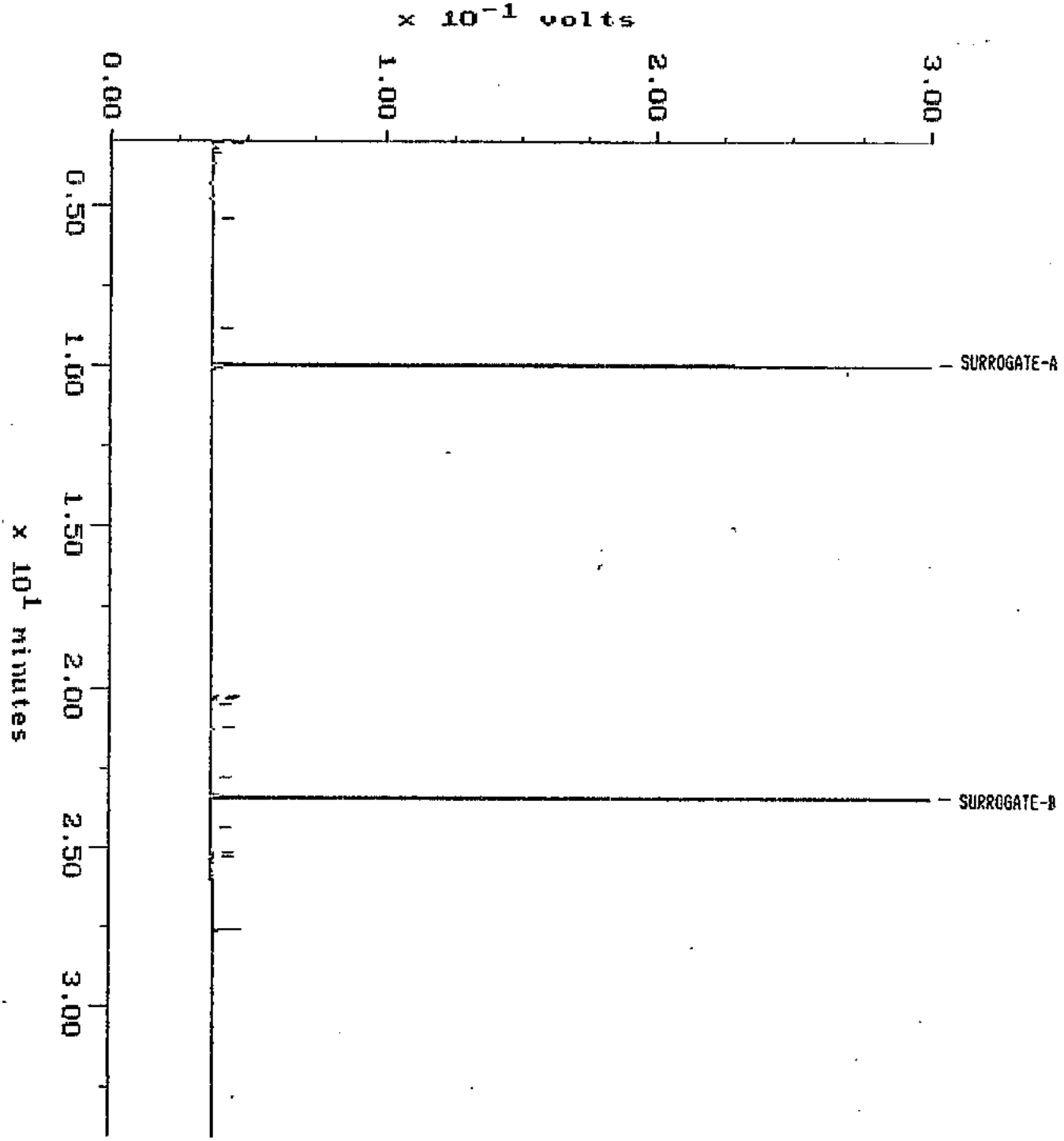
Sample: 9101-053-3 Channel: CLARENCE Filename: 0110SC04
Acquired: 10-JAN-91 14:42 Method: M:\MAXDATA\SERGE-C\FUEL0110 Operator: BRE
Inj Vol: 1.00



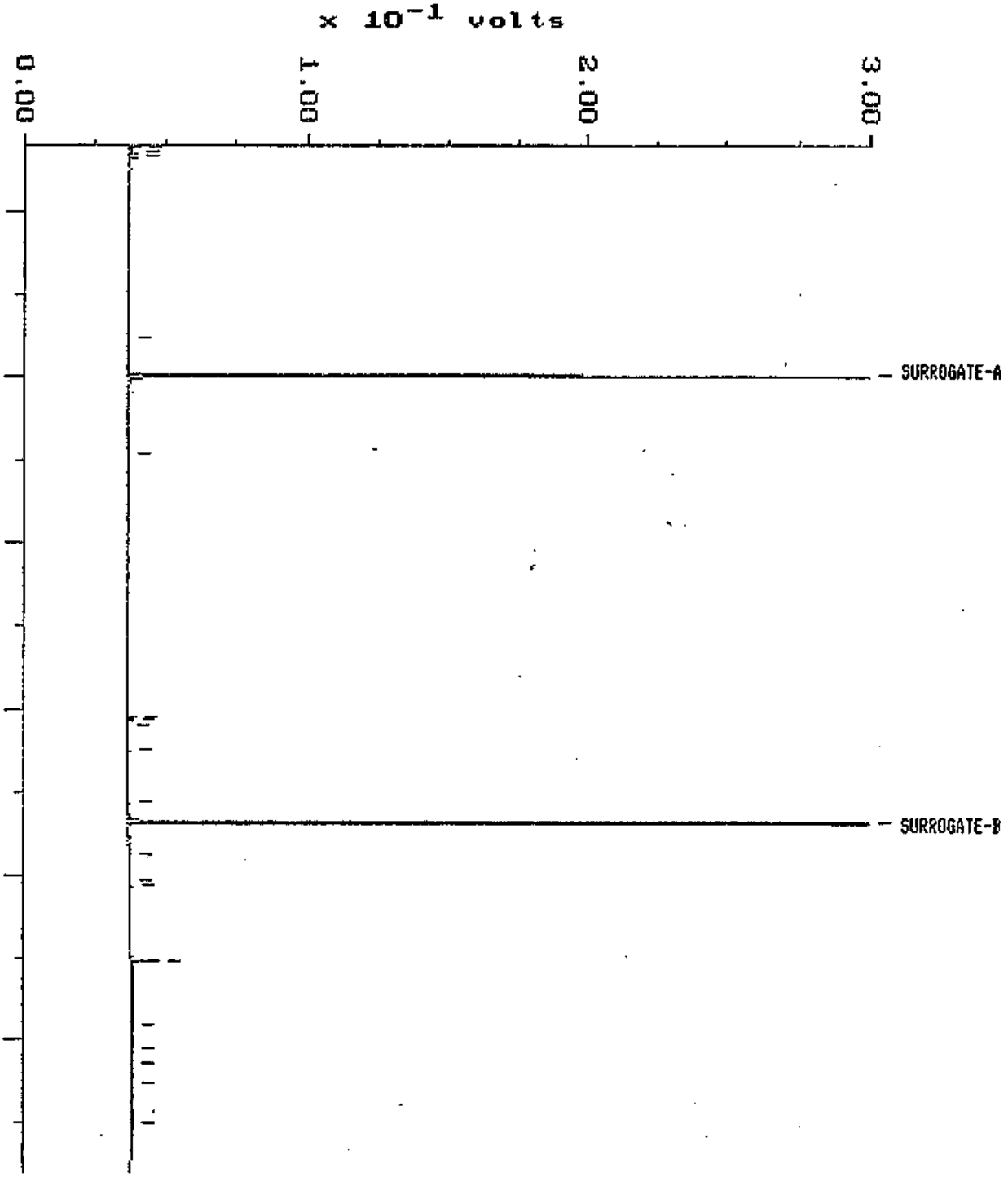
Sample: 9101-053-4 Channel: CLARENCE Filename: 0110SC11
Acquired: 10-JAN-91 20:10 Method: M:\MAXDATA\SERGE-C\FUEL0110 Operator: BRE
Inj Vol: 1.00

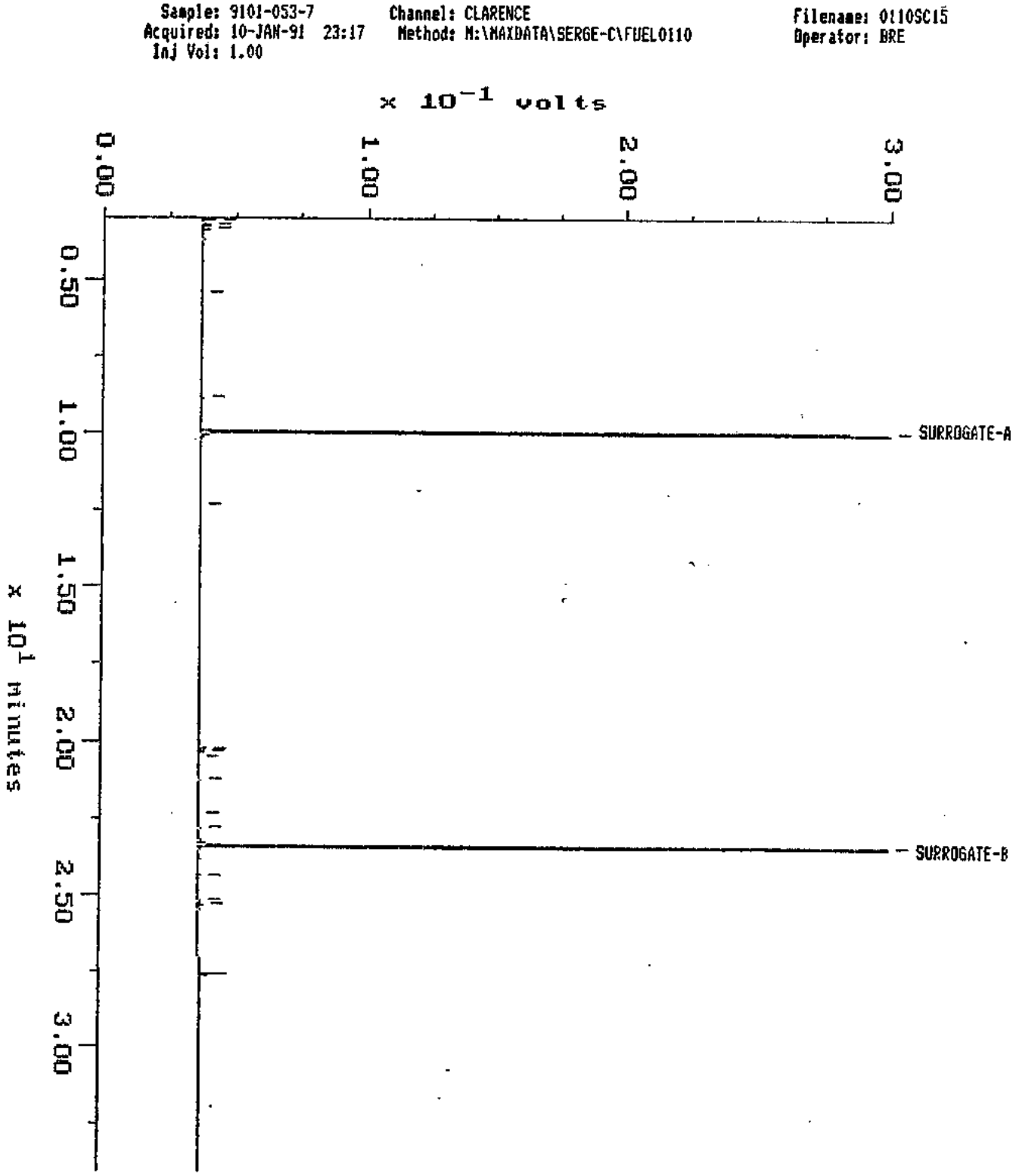


Sample: 9101-053-5 Channel: CLARENCE Filename: 0110SC12
Acquired: 10-JAN-91 20:56 Method: M:\MAIDATA\SERGE-C\FUEL0110 Operator: BRE
Inj Vol: 1.00



Sample: 9010-053-6 Channel: CLARENCE Filename: 0110SC14
Acquired: 10-JAN-91 22:29 Method: M:\MAXDATA\SERGE-C\FUEL0110 Operator: BRE
Inj Vol: 1.00

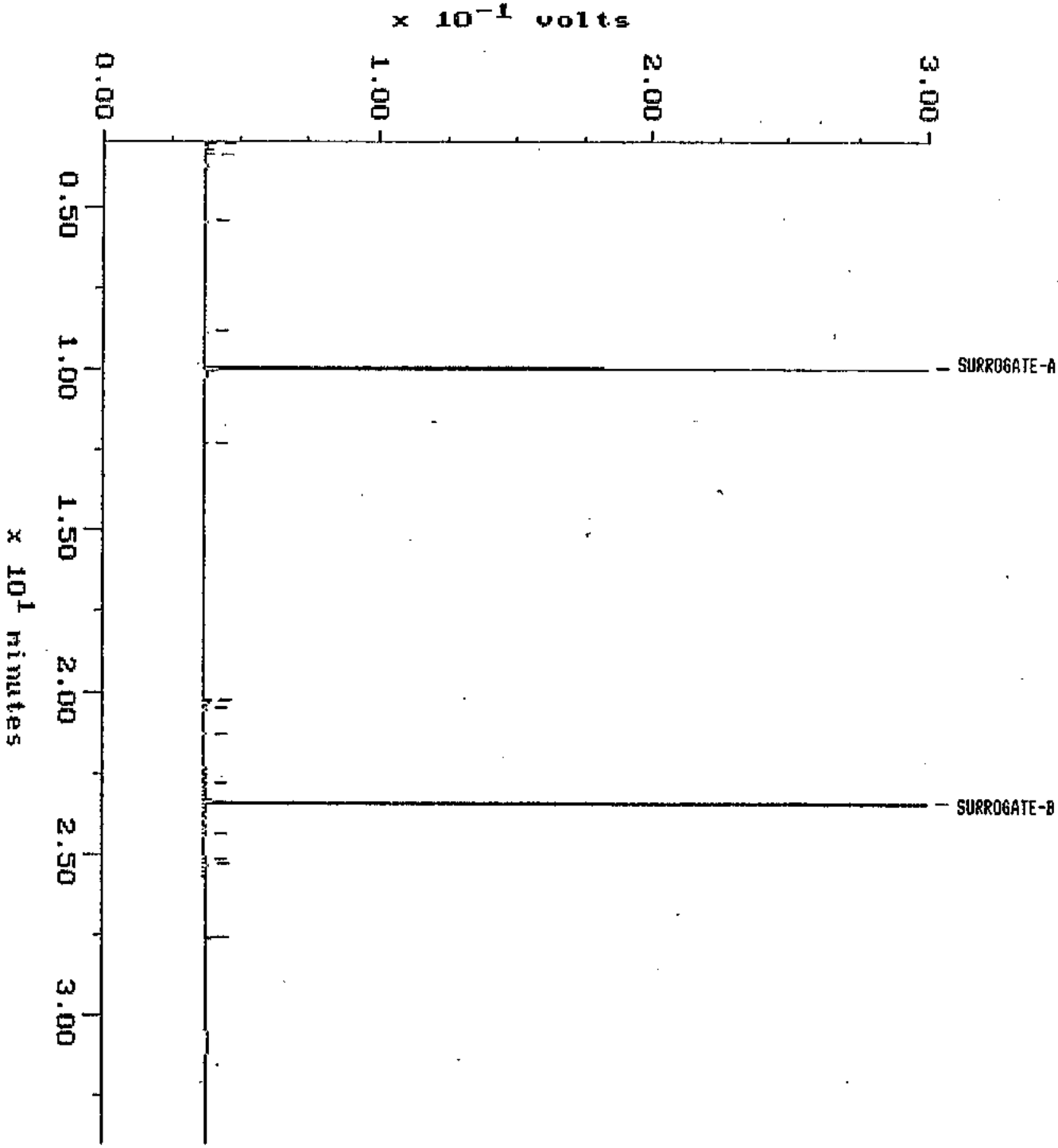



Sample: 9101-053-7
Acquired: 10-JAN-91 23:17
Inj Vol: 1.00
Channel: CLARENCE
Method: M:\NAIDATA\SERGE-C\FUEL0110
Filename: 0110SC15
Operator: BRE
x 10⁻¹ volts
0.00
1.00
2.00
3.00
0.50
1.00
1.50
2.00
2.50
3.00
x 10¹ Minutes
SURROGATE-A
SURROGATE-B

Sample: 9101-053-B
Acquired: 11-JAN-91 0:03
Inj Vol: 1.00

Channel: CLARENCE
Method: M:\MAXDATA\SERGE-C\FUEL0110

Filename: 0110SC16
Operator: BRE



Analytical Technologies, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

DATE 1/9/91 PAGE ___ OF ___

LABORATORY NUMBER: 9101-053

PROJECT MANAGER: TERRY FISK
COMPANY: GEO ENGINEERS
ADDRESS: 2405 140th AVE NE STE 105
BELLEVUE, WA 98005
PHONE: 746-5200 SAMPLED BY: DEH

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
910109-PL-6	1/9/91	1230	SOIL	1
910109-PL-7		1235	SOIL	2
910109-PL-8		1240	SOIL	3
910109-PL-SP		1300	SOIL	4
910109-VW-1		1330	SOIL	5
910109-VW-2		1600	SOIL	6
910109-G-SP-A		1400	SOIL	7
910109-G-SP-B	↓	1435	SOIL	8

ANALYSIS REQUEST

SAMPLE ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	TCLP ONLY: 8240 ZH-EXT	TCLP ONLY: 8270	TCLP ONLY: 8150 Herbicides (2)	TCLP ONLY: Metals (8)			NUMBER OF CONTAINERS
910109-PL-6			X											X													1
910109-PL-7			X											X													1
910109-PL-8			X											X													1
910109-PL-SP			X											X													1
910109-VW-1												X		X													1
910109-VW-2												X		X													1
910109-G-SP-A			X											X													1
910109-G-SP-B			X											X													1

PROJECT INFORMATION

PROJECT NUMBER: 0161-041-B04
PROJECT NAME: UNOCAL FEDERATED
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS: 8
COC SEALS/INTACT? Y/N/NA: N/A
RECEIVED GOOD COND./COLD: Y/Y
RECEIVED VIA: Hand Del

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☒ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: SS#6227
Send results to Terry Fisk @ GEI

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 1005	Signature: Time:	Signature: Time:
Printed Name: DONALD HANSON Date: 1/10/91	Printed Name: Date:	Printed Name: Date:
Company: GEI	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time:	Signature: Time:	Signature: Time: 1005
Printed Name: Date:	Printed Name: Date:	Printed Name: V. PENNICK Date: 1/10/91
Company:	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

№ 1042

B - 87

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9101-069

GeoEngineers

JAN 21 1991

Routing

File

January 16, 1991

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 161-041-B04

Project Name : Unocal Federal Way

On January 11, 1991, Analytical Technologies, Inc., received four soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Kenneth C. Wahl
for Bob A. Olsiewski
Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/tc

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-069-1	910110-VW-3	01/10/91	SOIL
9101-069-2	910110-VWSP-1	01/10/91	SOIL
9101-069-3	910110-VWSP-2	01/10/91	SOIL
9101-069-4	910110-VWSP-3	01/10/91	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	4

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 161-041-B04	DATE RECEIVED	: N/A
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/11/91
CLIENT I.D.	: REAGENT BLANK	DATE ANALYZED	: 01/11/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/10/91
PROJECT #	: 161-041-B04	DATE RECEIVED	: 01/11/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/11/91
CLIENT I.D.	: 910110-VW-3	DATE ANALYZED	: 01/11/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/10/91
PROJECT #	: 161-041-B04	DATE RECEIVED	: 01/11/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/11/91
CLIENT I.D.	: 910110-VWSP-1	DATE ANALYZED	: 01/11/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/10/91
PROJECT #	: 161-041-B04	DATE RECEIVED	: 01/11/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/11/91
CLIENT I.D.	: 910110-VWSP-2	DATE ANALYZED	: 01/11/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 01/10/91
PROJECT #	: 161-041-B04	DATE RECEIVED	: 01/11/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE EXTRACTED	: 01/11/91
CLIENT I.D.	: 910110-VWSP-3	DATE ANALYZED	: 01/11/91
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8015 MODIFIED	DILUTION FACTOR	: 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	GASOLINE
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	-
HYDROCARBONS QUANTITATED USING	DIESEL

FUEL HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D.	: 9101-070-1
PROJECT #	: 161-041-B04	DATE EXTRACTED	: 01/11/91
PROJECT NAME	: UNOCAL FEDERAL WAY	DATE ANALYZED	: 01/11/91
EPA METHOD	: 8015 MODIFIED	MATRIX	: SOIL
		UNITS	: mg/Kg

COMPOUND	SAMPLE RESULT	CONC SPIKED	SPIKED SAMPLE	% REC	DUP SPIKED SAMPLE	DUP % RECOVERY	RPD
FUEL HYDROCARBONS	<5	500	606	121	608	122	0

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY
SOIL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ANALYSIS	DATE PREPPED	DATE ANALYZED
PETROLEUM HYDROCARBONS	01/11/91	01/11/91

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

SAMPLE MATRIX : SOIL
UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	PETROLEUM HYDROCARBONS
9101-069-1	910110-VW-3	33
9101-069-2	910110-VWSP-1	34
9101-069-3	910110-VWSP-2	12
9101-069-4	910110-VWSP-3	50
REAGENT BLANK	-	<5

GENERAL CHEMISTRY QUALITY CONTROL

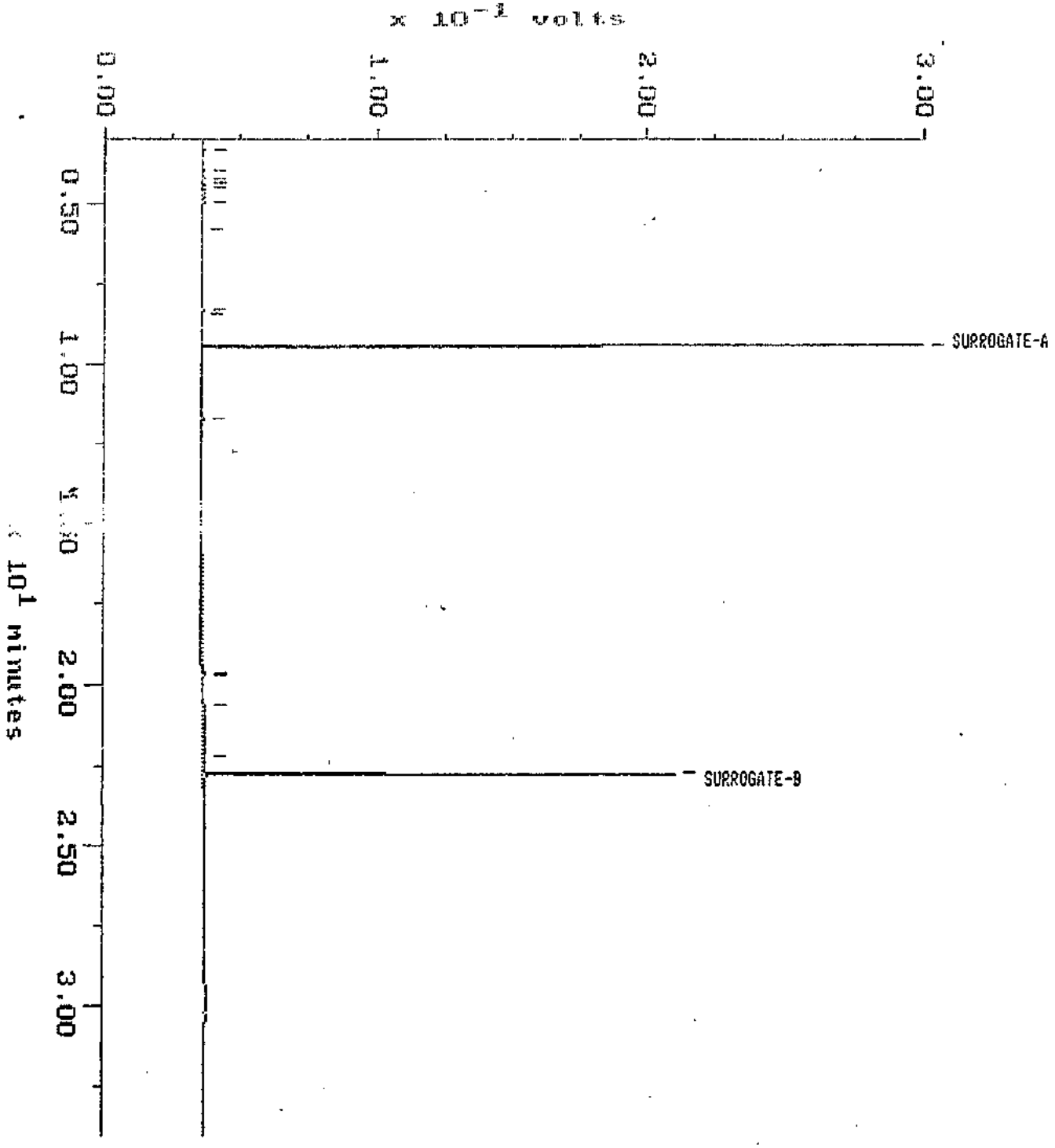
CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY UNITS : mg/Kg

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
PETROLEUM HYDROCARBONS	9101-070-2	48	51	6	282	244	96

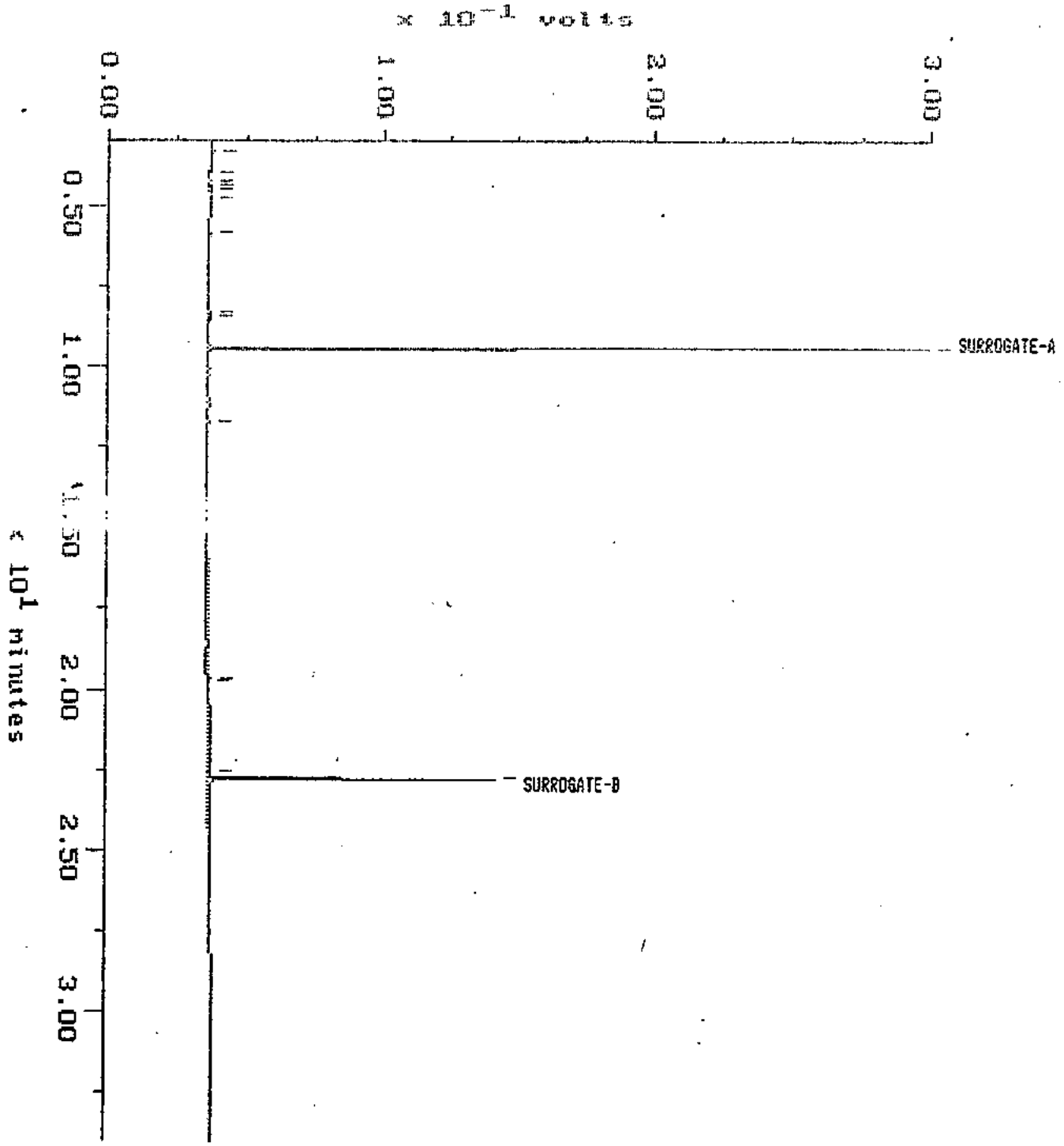
$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

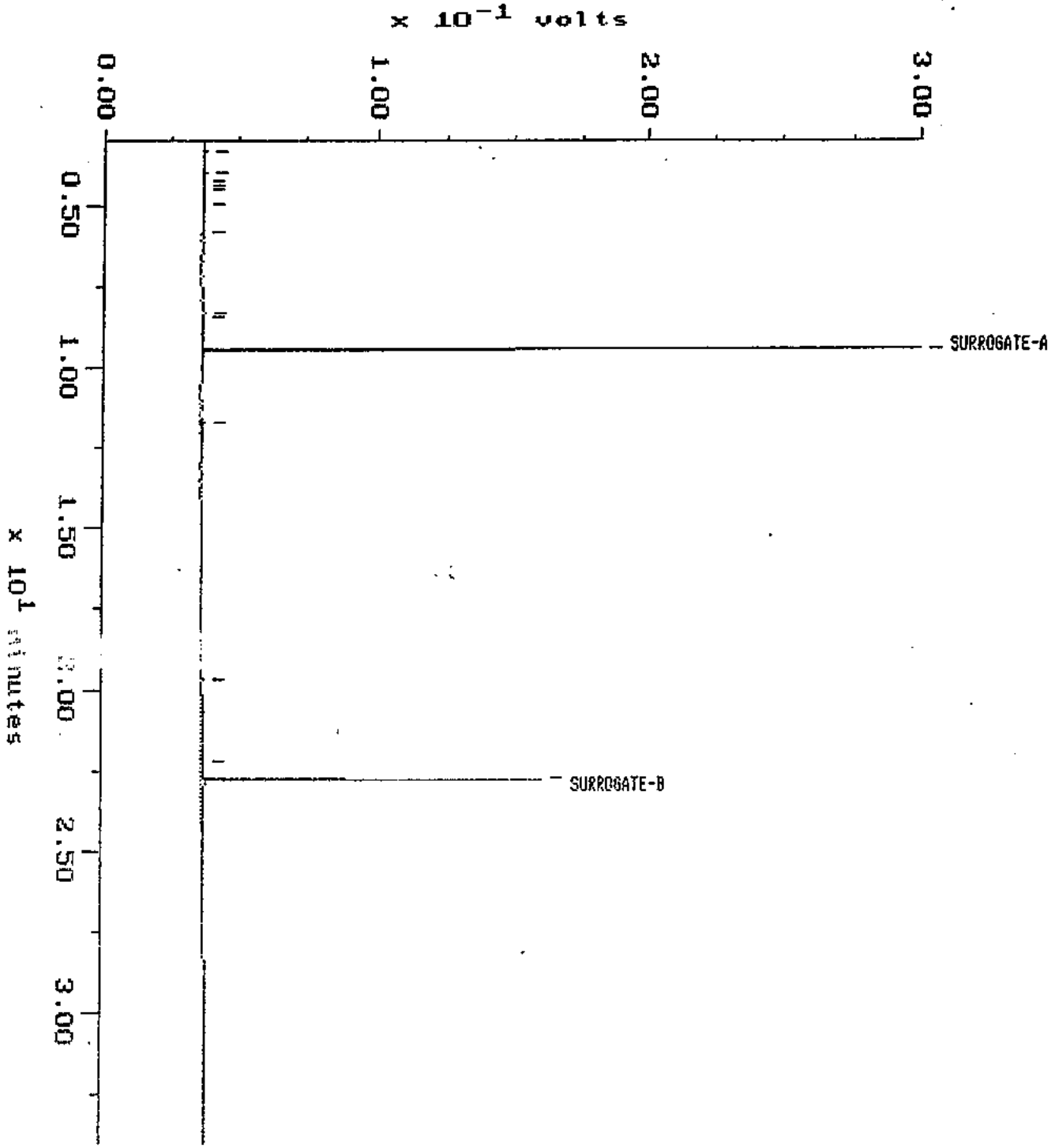
Sample: 9101-069-1 Channel: DEMITRI Filename: 01115D09
Acquired: 11-JAN-91 17:29 Method: M:\MAXDATA\SERGE-D\FUEL0111 Operator: SRE
Inj Vol: 1.00



Sample: 9101-069-2 Channel: DEMITRI Filename: 0111SD10
Acquired: 11-JAN-91 10:15 Method: M:\HAYDATA\SERGE-D\FUEL0111 Operator: BRE
Inj Vol: 1.00

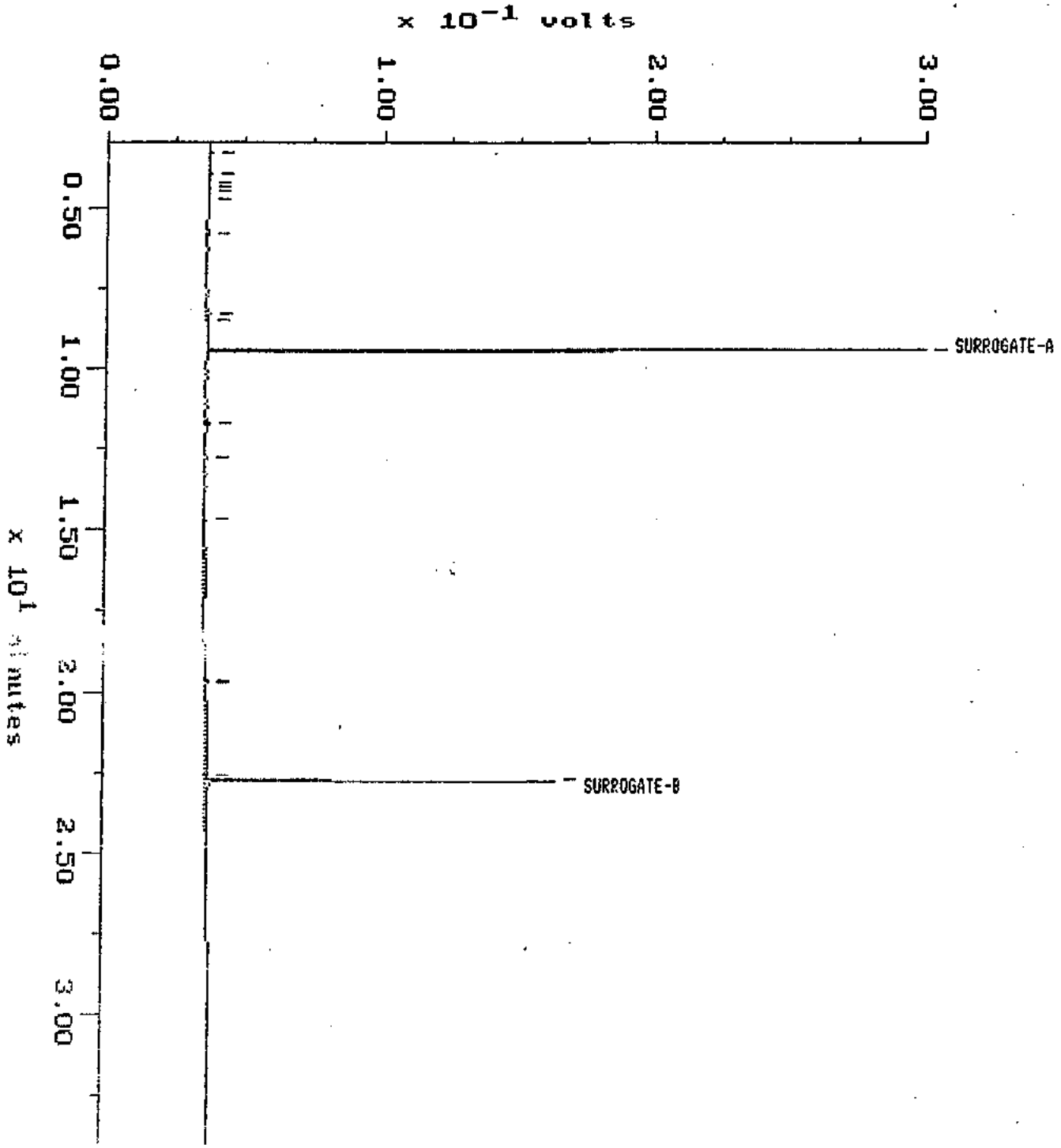


Sample: 9101069-3 Channel: DENITRI Filename: 0111SD12
Acquired: 11-JAN-91 19:49 Method: M:\MAXDATA\SERGE-D\FUEL0111 Operator: BRE
Inj Vol: 1.00



9101-169-4

Sample: 9101-169-4 Channel: DEMITRI Filename: 0111SD13
Acquired: 11-JAN-91 20:35 Method: M:\MAXDATA\SERGE-D\FUEL0111 Operator: BRE
Inj Vol: 1.00



Analytical**Technologies**, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

DATE 1/10/91 PAGE 1 OF 1

LABORATORY NUMBER: 9101-069

PROJECT MANAGER: TERRY FISK
COMPANY: GEOENGINEERS
ADDRESS: 2405 140TH AVE NE STE 105
BELLEVUE, WA 98005
PHONE: 746-5200 SAMPLED BY: DEH

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
910110-VW-3	1/10/91	1225	SOIL	1
910110-VWSP-1	1/10/91	1340	SOIL	2
910110-VWSP-2	1/10/91	1245	SOIL	3
910110-VWSP-3	1/10/91	1300	SOIL	4

ANALYSIS REQUEST

	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	TCLP ONLY: 8240 ZH-EXT	TCLP ONLY: 8270	TCLP ONLY: 8150 Herbicides (2)	TCLP ONLY: Metals (8)			NUMBER OF CONTAINERS
910110-VW-3												X		X													1
910110-VWSP-1												X		X													1
910110-VWSP-2												X		X													1
910110-VWSP-3												X		X													1

PROJECT INFORMATION

PROJECT NUMBER: 161-041-B04
PROJECT NAME: UNOCAL FEDERAL WAY
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS: 4/4
COC SEALS/INTACT? Y/N/NA: Y/Y
RECEIVED GOOD COND./COLD:
RECEIVED VIA: Courier

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: SS#6227
Results to Terry Fisk @ GeoEngineers

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 0815	Signature: Time:	Signature: Time:
Printed Name: Donald Hagen Date: 1/11/91	Printed Name: Date:	Printed Name: Date:
Company: GEI	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time:	Signature: Time:	Signature: Time: 1015
Printed Name: Date:	Printed Name: Date:	Printed Name: V. PENNICK Date: 1/11/91
Company:	Company:	Analytical Technologies, Inc.

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No 2051

B - 104

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9101-113

GeoEngineers

JAN 31 1991

Routing TTF

File

January 29, 1991

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Julia Fowler

Project Number : 0161-041-B04

Project Name : Unocal - Federal Way

On December 13, 1990, Analytical Technologies, Inc., received eight soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data were issued on December 26, 1990, under ATI accession number 9012-122.

One sample was reaccessioned for additional tests on January 17, 1991. Enclosed is the report for the additional analyses.

Mary C. Silva
Senior Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/elf

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-113-1	WO-8 (COMPOSITE)	12/13/90	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
ARSENIC	AA/GF	EPA 7060	R
BARIUM	AA/F	EPA 7080	R
CADMIUM	AA/F	EPA 7130	R
CHROMIUM	AA/F	EPA 7190	R
LEAD	AA/F	EPA 7420	R
MERCURY	AA/COLD VAPOR	EPA 7470	R
SELENIUM	AA/GF	EPA 7740	R
SILVER	AA/F	EPA 7760	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

TCLP
METALS ANALYSIS
TCLP EXTRACT

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

ELEMENT	DATE PREPARED	DATE ANALYZED
ARSENIC	01/17/91	01/21/91
BARIUM	01/17/91	01/22/91
CADMIUM	01/17/91	01/21/91
CHROMIUM	01/17/91	01/21/91
LEAD	01/17/91	01/21/91
MERCURY	01/17/91	01/22/91
SELENIUM	01/17/91	01/21/91
SILVER	01/17/91	01/21/91

TCLP
METALS RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY

MATRIX : TCLP EXTRACT
UNITS : mg/L

PARAMETER	WO-8 (COMPOSITE) -1	REAGENT BLANK
ARSENIC	<0.005	<0.005
BARIUM	0.27	<0.02
CADMIUM	<0.01	<0.01
CHROMIUM	<0.02	<0.02
LEAD	<0.1	<0.1
MERCURY	<0.0005	<0.0005
SELENIUM	<0.005	<0.005
SILVER	<0.02	<0.02

TCLP
METALS QUALITY CONTROL

CLIENT : GEOENGINEERS, INC. MATRIX : TCLP EXTRACT
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL - FEDERAL WAY UNITS : mg/L

COMPOUND	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
ARSENIC	9101-113-1	<0.005	<0.005	0	0.048	0.050	96
BARIUM	9101-113-1	0.27	0.27	0	2.49	2.50	89
CADMIUM	9101-113-1	<0.01	<0.01	0	0.51	0.50	102
CHROMIUM	9101-113-1	<0.02	<0.02	0	0.83	1.00	83
LEAD	9101-113-1	<0.1	<0.1	0	10.0	10.0	100
MERCURY	9101-113-1	<0.0005	<0.0005	0	0.0030	0.0020	150
SELENIUM	9101-113-1	<0.005	<0.005	0	0.051	0.050	102
SILVER	9101-113-1	<0.02	<0.02	0	0.91	1.00	91

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

9101-113

DATE 12-13-90 PAGE 1 OF 1

LABORATORY NUMBER: 9012-122

PROJECT MANAGER: Julia Fowler
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, #105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert Miyahira

SAMPLE DISPOSAL INSTRUCTIONS
☒ ATI Disposal @ $5.00 each ☐ Return

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	TCLP ONLY: 8240 ZH-EXT	TCLP ONLY: 8270	TCLP ONLY: 8150 Herbicides (2)	TCLP ONLY: Metals (8)			NUMBER OF CONTAINERS
12' WO-1 (N base)	12-13-90	1305	Soil	1												X		X													1
7' WO-2 (N wall)		1310		2												X		X													1
2' WO-3 (N wall)		1310		3												X		X													1
12' WO-4 (W base)		1315		4												X		X													1
12' WO-5 (S base)		1315		5												X		X													1
13' WO-6 (center base)		1320		6												X		X													1
12' WO-7 (E base)		1320		7												X		X											Metals		1
WO-8 (composite)	↓	1330	↓	8												X		X										X			1

B - 111

PROJECT INFORMATION
PROJECT NUMBER: 0161-041-B04
PROJECT NAME: Unocal - Federal Way
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☐ NO ☐

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS: 8
COC SEALS/INTACT? Y/N/NA: NA
RECEIVED GOOD COND./COLD: ✓
RECEIVED VIA: Hand del

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: contact Julia Fowler w/results

For Unocal Service Station #6227

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: Robert Miyahira 1430	Signature: Time:	Signature: Time:
Printed Name: Date: Robert Miyahira 12-13-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc.	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time: T. Landreth 1430	Signature: Time:	Signature: Time:
Printed Name: Date: T. Landreth 12/13/90	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

Analytical Technologies, Inc. 560 Naches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9101-003

GeoEngineers

FEB - 1 1991

Routing

File

January 31, 1991

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 0161-041-B04

Project Name : Unocal-Federal Way

On January 2, 1991, Analytical Technologies, Inc., received 13 soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data were issued on January 10, 1991.

Several of the samples were reaccessioned for additional tests on January 17, 1991. Additional analyses were also requested on January 24, 1991. Enclosed is the report for the additional analyses.

Mary C. Silva
Senior Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/elf

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-003-1	SP-1 (GAS STOCKPILE-WEST)	12/31/90	SOIL
9101-003-2	SP-2 (GAS STOCKPILE-EAST)	12/31/90	SOIL
9101-003-3	PL-1 (SOUTH ISLAND-WEST)	12/31/90	SOIL
9101-003-4	PL-2 (SOUTH ISLAND-EAST)	12/31/90	SOIL
9101-003-5	PL-3 (NW ISLAND-NORTH)	12/31/90	SOIL
9101-003-6	PL-4 (NE ISLAND-SOUTH)	12/31/90	SOIL
9101-003-7	PL-5 (NW ISLAND-SOUTH)	12/31/90	SOIL
9101-003-8	G-1 (SOUTH BASE)	12/31/90	SOIL
9101-003-9	G-2 (SW BASE)	12/31/90	SOIL
9101-003-10	G-3 (NORTH BASE)	12/31/90	SOIL
9101-003-11	G-4 (NW BASE)	12/31/90	SOIL
9101-003-12	G-5 (EAST BASE)	12/31/90	SOIL
9101-003-13	WO-8 (NORTH BASE)	12/31/90	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	13

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED	R
PETROLEUM HYDROCARBONS	IR	EPA 418.1	R
ARSENIC	AA/GF	EPA 7060	R
BARIUM	AA/F	EPA 7080	R
CADMIUM	AA/F	EPA 7130	R
CHROMIUM	AA/F	EPA 7190	R
LEAD	AA/F	EPA 7420	R
MERCURY	AA/COLD VAPOR	EPA 7470	R
SELENIUM	AA/GF	EPA 7740	R
SILVER	AA/F	EPA 7760	R
MOISTURE	GRAVIMETRIC	METHOD 7-2.2	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

TCLP
METALS ANALYSIS
TCLP EXTRACT

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ELEMENT	DATE PREPARED	DATE ANALYZED
ARSENIC	01/17/91	01/21/91
BARIUM	01/17/91	01/22/91
CADMIUM	01/17/91	01/21/91
CHROMIUM	01/17/91	01/21/91
LEAD	01/17/91	01/21/91
MERCURY	01/17/91	01/22/91
SELENIUM	01/17/91	01/21/91
SILVER	01/17/91	01/21/91

TCLP
METALS RESULTS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

MATRIX : TCLP EXTRACT
UNITS : mg/L

PARAMETER	WO-8 (NORTH BASE) -13	REAGENT BLANK
ARSENIC	<0.005	<0.005
BARIUM	0.50	<0.02
CADMIUM	<0.01	<0.01
CHROMIUM	<0.02	<0.02
LEAD	<0.1	<0.1
MERCURY	<0.0005	<0.0005
SELENIUM	<0.005	<0.005
SILVER	<0.02	<0.02

TCLP
METALS QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

MATRIX : TCLP EXTRACT
UNITS : mg/L

COMPOUND	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
ARSENIC	9101-113-1	<0.005	<0.005	0	0.048	0.050	96
BARIUM	9101-113-1	0.27	0.27	0	2.49	2.50	89
CADMIUM	9101-113-1	<0.01	<0.01	0	0.51	0.50	102
CHROMIUM	9101-113-1	<0.02	<0.02	0	0.83	1.00	83
LEAD	9101-113-1	<0.1	<0.1	0	10.0	10.0	100
MERCURY	9101-113-1	<0.0005	<0.0005	0	0.0030	0.0020	150
SELENIUM	9101-113-1	<0.005	<0.005	0	0.051	0.050	102
SILVER	9101-113-1	<0.02	<0.02	0	0.91	1.00	91

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

METALS ANALYSIS
SOIL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY

ELEMENT	DATE PREPARED	DATE ANALYZED
LEAD	01/18/91	01/18/91
LEAD	01/25/91	01/25/91

METALS RESULTS

CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	LEAD
9101-003-1	SP-1 (GAS STOCKPILE-WEST)	<10
9101-003-8	G-1 (SOUTH BASE)	<10
9101-003-9	G-2 (SW BASE)	<10
9101-003-10	G-3 (NORTH BASE)	770
9101-003-11	G-4 (NW BASE)	460
9101-003-12	G-5 (EAST BASE)	<10
REAGENT BLANK (01/18/91)		<10
REAGENT BLANK (01/25/91)		<10

METALS QUALITY CONTROL

CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL-FEDERAL WAY UNITS : mg/Kg

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
LEAD	9101-092-9	<10	<10	0	250	260	96
LEAD	9101-172-2	<10	<10	0	280	280	100

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

DATE ~~12-18-90~~ 12-31-90 KM. PAGE 1 OF 2

LABORATORY NUMBER: 9101-003

PROJECT MANAGER: Terry Fisk
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, #105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert N. Miyahira

SAMPLE DISPOSAL INSTRUCTIONS
☒ ATI Disposal @ $5.00 each ☐ Return

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/H (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	TCLP ONLY: 8240 ZH-EXT	TCLP ONLY: 8270	TCLP ONLY: 8150 Herbicides (2)	TCLP ONLY: Metals (8)	Total Pb EPA 7421		NUMBER OF CONTAINERS
composite SP-1 (gas stockpile - west)	12-31-90	1105	soil	-1			X											X											X		1
composite SP-2 (gas stockpile - east)		1110		-2			X											X													1
3' PL-1 (south island - west)		1355		-3			X											X													1
2½' PL-2 (south island - east)		1400		-4			X											X													1
3' PL-3 (NW island - north)		1435		-5			X											X													1
3' PL-4 (NE island - south)		1445		-6			X											X													1
2½' PL-5 (NW island - south)		1505		-7			X											X													1
13' G-1 (south base)		1420		-8			X											X											✓	✓ Pet	1
14' G-2 (SW base)		1430		-9			X											X											X		1
14' G-3 (north base)		1450		-10			X											X											X		1
13' G-4 (NW base)		1500		-11			X											X											✓	✓ Pet	1
13' G-5 (east base)	↓	1520	↓	-12			X											X											✓	✓ Pet	1

PROJECT INFORMATION
PROJECT NUMBER: 0161-041-B04
PROJECT NAME: Unocal - Federal Way
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS: 13
COC SEALS/INTACT? Y/N/NA: Y/N/NA
RECEIVED GOOD COND./COLD: 4
RECEIVED VIA: Courier

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: Contact Terry Fisk with results

For Unocal Service Station #6227

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: Robert Miyahira 1730	Signature: Time:	Signature: Time:
Printed Name: Date: Robert Miyahira 12-31-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time: DL Thomas 10:45	Signature: Time:	Signature: Time:
Printed Name: Date: DL Thomas 1-2-91	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

B - 121

Analytical**Technologies,**Inc.

560 Naches Avenue SW, Suite 101 Renton,WA 98055 (206)228-8335

DATE 12-31-90 PAGE 2 OF 2

Chain of Custody LABORATORY NUMBER: 9101-003

PROJECT MANAGER: Terry Fisk
COMPANY: GeoEngineers, Inc.
ADDRESS: 2405 140th Ave. NE, #105
Bellevue, WA 98005
PHONE: 746-5200 SAMPLED BY: Robert N. Miyahira

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ $5.00 each ☐ Return

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
12½' WD-8 (north base)	12-31-90	1530	soil	-13

ANALYSIS REQUEST

8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	TCLP ONLY: 8240 ZH-EXT	TCLP ONLY: 8270	TCLP ONLY: 8150 Herbicides (2)	TCLP ONLY: Metals (8)			NUMBER OF CONTAINERS
											X		X										X			1
																							Zn			
																							Ni/Al			

PROJECT INFORMATION

PROJECT NUMBER: 0161-041-B04
PROJECT NAME: Unocal - Federal Way
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	13
COC SEALS/INTACT? Y/N/NA	Y/ NA
RECEIVED GOOD COND./COLD	4
RECEIVED VIA: Courier	4

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☐ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: contact Terry Fisk with results

For Unocal Service Station #6227

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 1730	Signature: Time:	Signature: Time:
Printed Name: Robert Miyahira Date: 12-31-90	Printed Name: Date:	Printed Name: Date:
Company: GeoEngineers, Inc.	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time: 1014S	Signature: Time:	Signature: Time:
Printed Name: DL Thomas Date: 1-2-91	Printed Name: Date:	Printed Name: Date:
Company: ATI	Company:	Analytical Technologies, Inc.

ATI Labs: San Diego (619)458-9141 • Phoenix (602)438-1530 • Seattle (206)228-8335 • Pensacola (904)474-1001 DISTRIBUTION: White, Canary - ATI • Pink - ORIGINATOR

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SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: GeoEngineers, Inc. Date: February 1, 1991

Report On: Analysis of Soil Lab No.: 15745

GeoEngineers
FEB - 6 1991
Routing 0161-41

IDENTIFICATION:
Samples Received on 01-31-91
Project: Unocal #6227 Federal Way

ANALYSIS:

Lab Sample No.	Client ID	Total Lead, ppm
1	GSP-5	< 1.2
2	GSP-6	< 1.2
3	GSP-7	2.8
4	G-6	14.8
5	G-7	23.4
6	G-8	11.0
7	GSP-8	44.2

Lab Sample No. 6 Client ID: G-8

	Concentration, ppm
Benzene	< 0.05
Toluene	< 0.05
Ethyl Benzene	< 0.05
Xylenes	< 0.05

BTEX by EPA SW-846
Method 8020

Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015: < 10

Note - BTEX and TPH 8015 results reported on as as received, wet basis.

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

This report is issued solely for the use of the person or company to whom it is addressed. This laboratory accepts responsibility only for the due performance of analysis in accordance with industry acceptable practice. In no event shall Sound Analytical Services, Inc. or its employees be responsible for consequential or special damages in any kind or in any amount.

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

DUPLICATES

Lab No: 15745 (1)
Date: February 1, 1991
Client: GeoEngineers, Inc.

Client ID: GSP-5
Matrix: Soil
Units: ppm

Compound	Sample(S)	Duplicate(D)	RPD*
Total Lead	< 1.2	< 1.2	---

Lab No: 15745 (6)
Date: February 1, 1991
Client: GeoEngineers, Inc.

Client ID: G-8
Matrix: Soil
Units: ppm

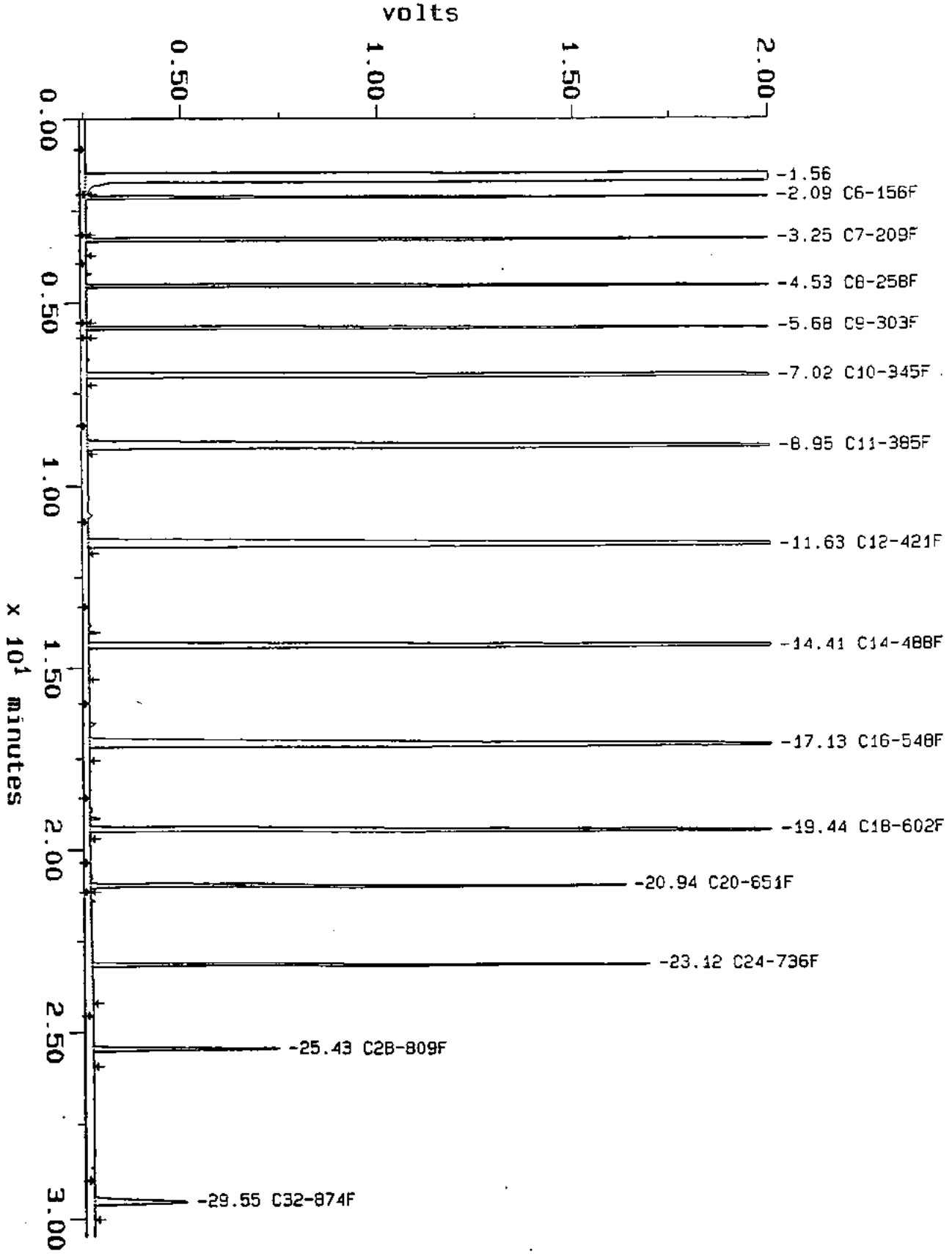
Compound	Sample(S)	Duplicate(D)	RPD*
Benzene	< 0.05	< 0.05	---
Toluene	< 0.05	< 0.05	---
Ethyl Benzene	< 0.05	< 0.05	---
Xylenes	< 0.05	< 0.05	---
Total Petroleum Hydrocarbons	< 10	< 10	---

*RPD = relative percent difference
= [(S - D) / ((S + D) / 2)] x 100

Sample: CALB STD
Acquired: 07-SEP-90 14:50

Channel: detector 1
Method: C:\MAX\DATA4\80150

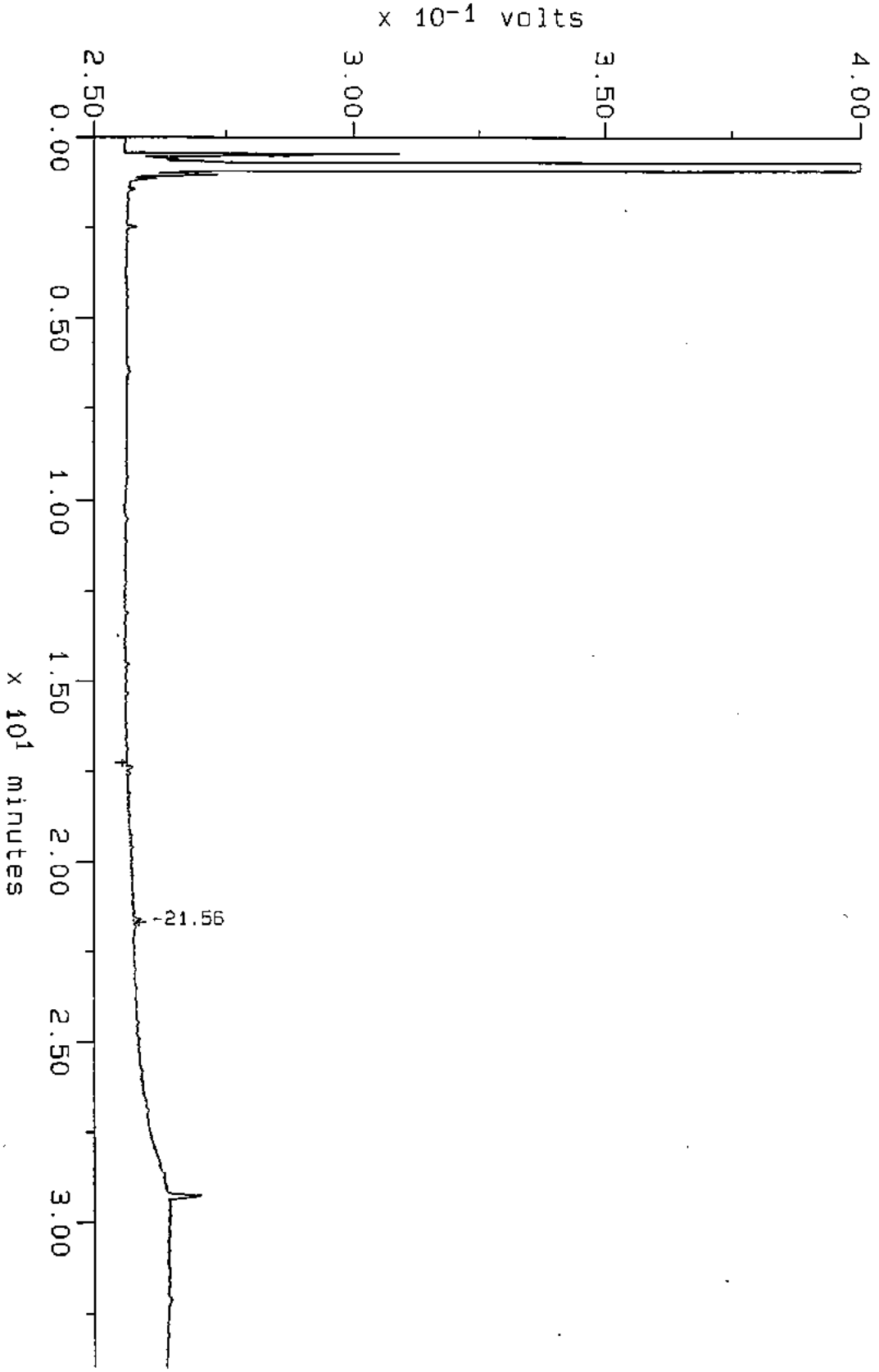
Filename: CS5
Operator:



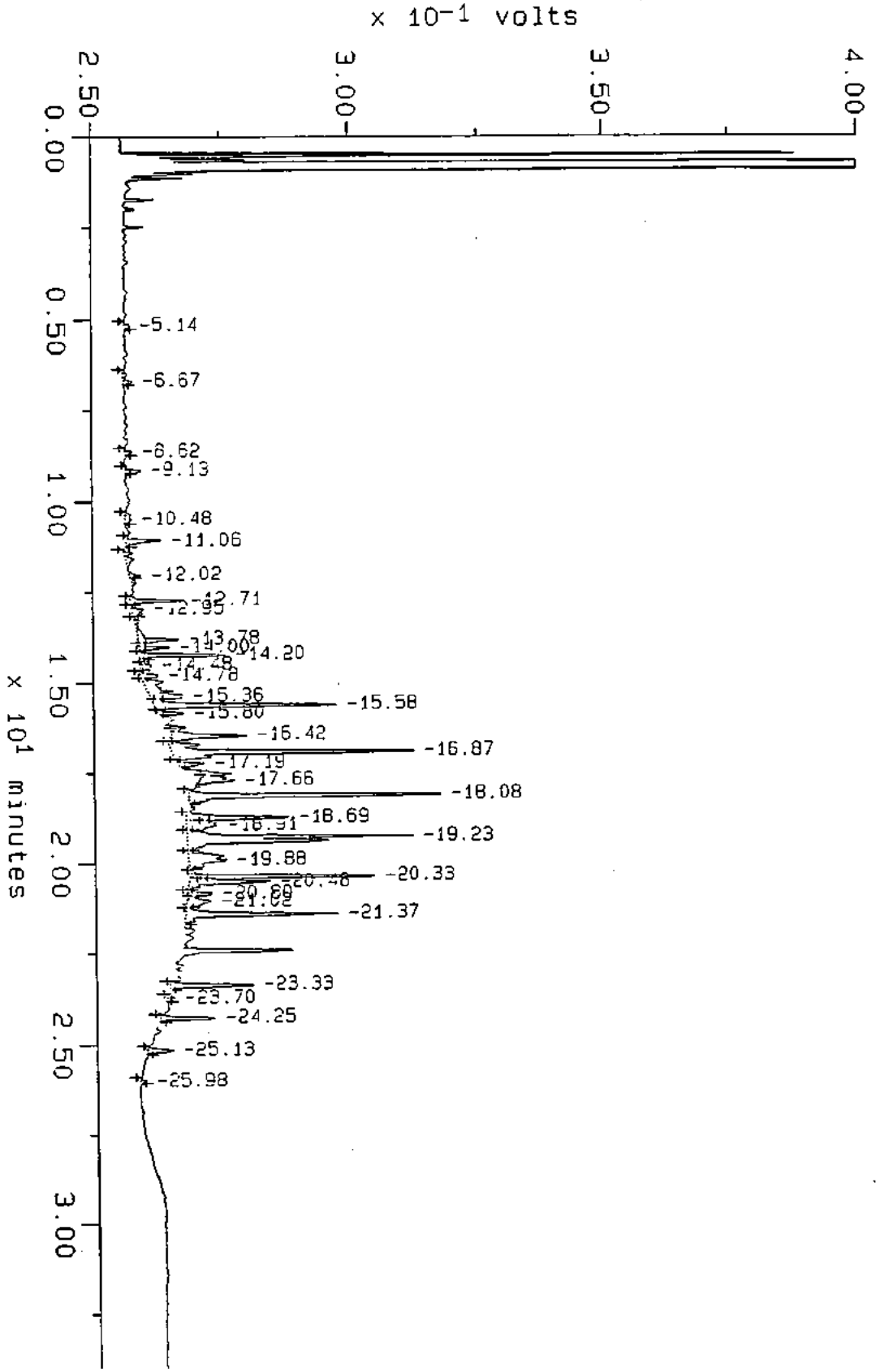
Sample: BLANK
Acquired: 18-JAN-91 19:27

Channel: detector 1
Method: C:\MAX\DATA4\80150

Filename: BL1
Operator:



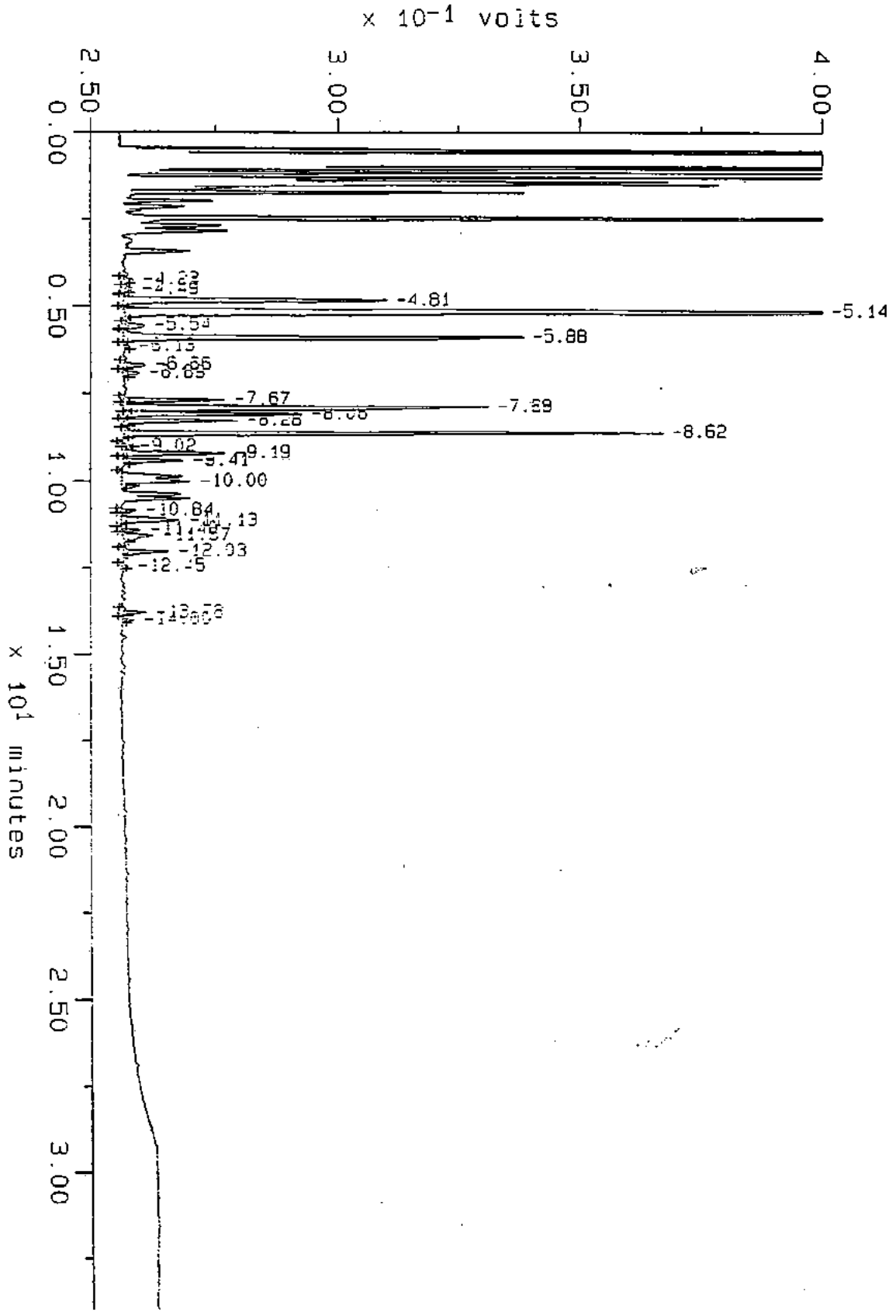
Sample: 100DIESEL
Acquired: 19-JAN-91 1:47
Channel: detector 1
Method: C:\MAX\DATA4\8015D
Filename: 100DIE7
Operator:



Sample: 100GAS
Acquired: 18-JAN-91 20:10

Channel: detector 1
Method: C:\MAX\DATA4\8015D

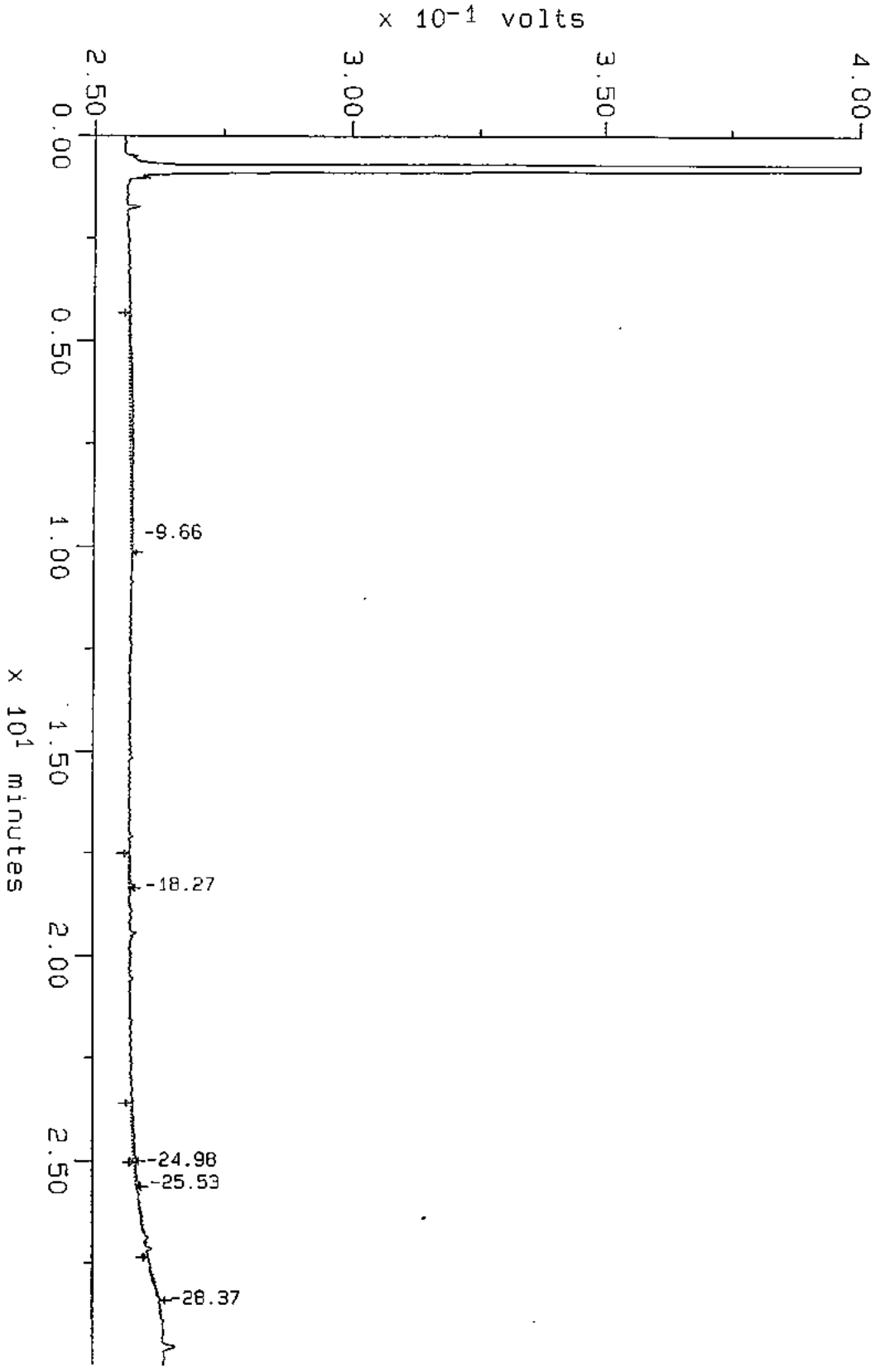
Filename: 100GAS7
Operator:



Sample: 15745-6
Acquired: 31-JAN-91 22:54
Dilution: 1 : 10.000

Channel: detector 1
Method: C:\MAX\DATA4\8015
Amount: 1.988

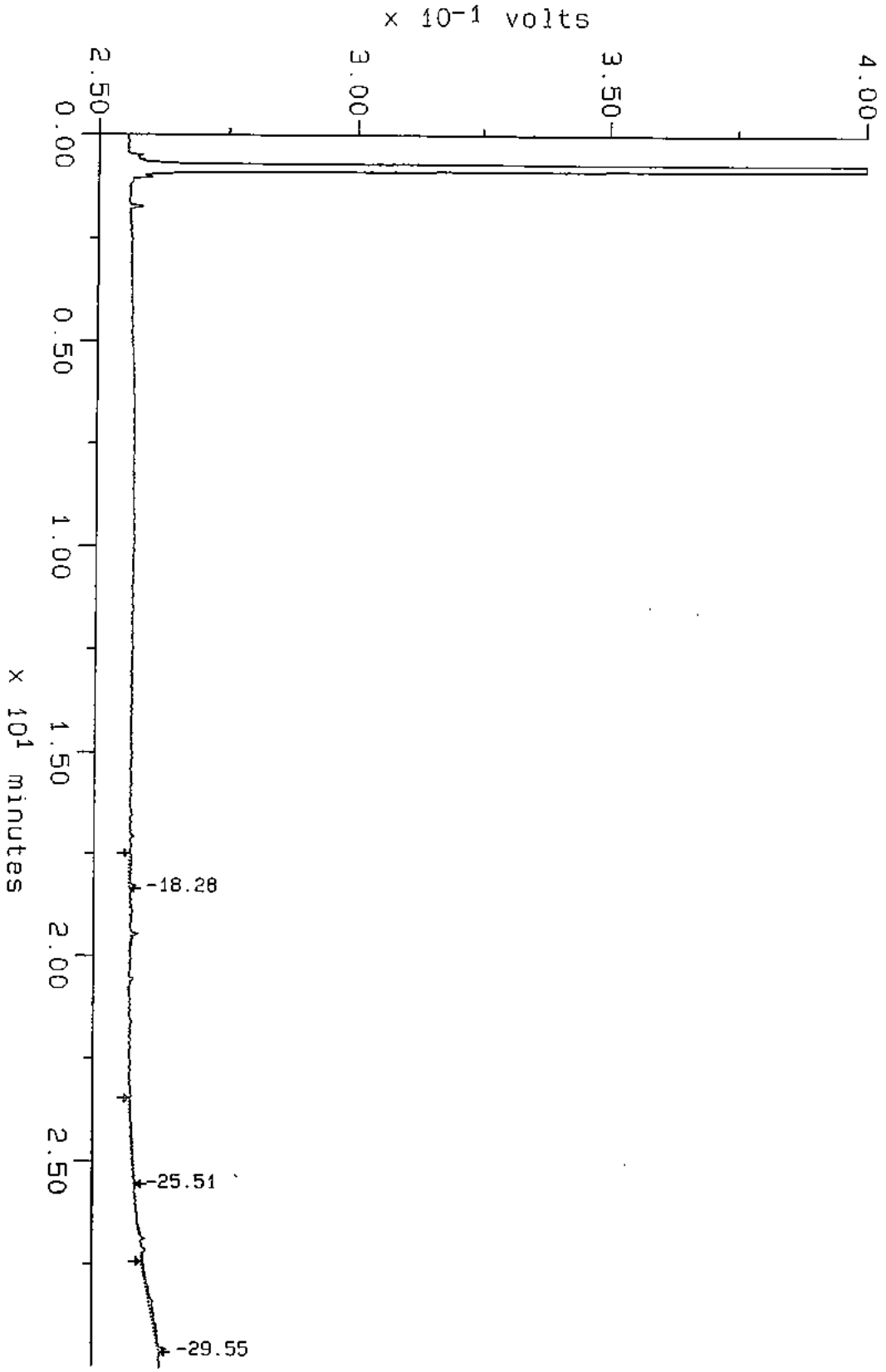
Filename: 15745-6
Operator:



Sample: 15745-6D
Acquired: 31-JAN-91 23:31
Dilution: 1 : 10.000

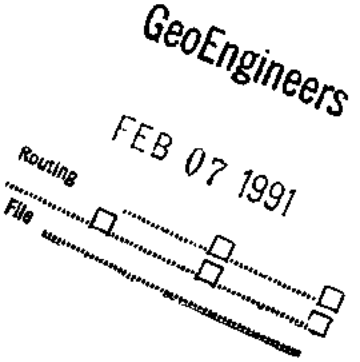
Channel: detector 1
Method: C:\MAX\DATA4\B015
Amount: 2.501

Filename: 15745-6D
Operator:



Analytical Technologies, Inc. 560 Noches Avenue, S.W., Suite 101, Renton, WA 98055, (206) 228-8335

ATI I.D. # 9101-172



February 5, 1991

GeoEngineers, Inc.
2405 140th Avenue N.E.
Suite 105
Bellevue, WA 98005

Attention : Terry Fisk

Project Number : 0161-041-B04

Project Name : Unocal Federal Way

On January 10, 1991, Analytical Technologies, Inc., received eight soil samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data were issued under ATI accession number 9101-053 on January 16, 1991.

Two samples were reaccessioned for additional tests on January 24, 1991. Enclosed is the report for the additional analyses.

Mary C. Silva
Senior Project Manager

Frederick W. Grothkopp
Technical Manager

FWG/elf

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9101-172-1	910109-PL-6	01/09/91	SOIL
9101-172-2	910109-G-SP-B	01/09/91	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	2

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ANALYSIS	TECHNIQUE	REFERENCE	LAB
LEAD	AA/F	EPA 7420	R
MOISTURE	GRAVIMETRIC	METHOD 7-2.2	R

R = ATI - Renton
SD = ATI - San Diego
T = ATI - Tempe
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

METALS ANALYSIS
SOIL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ELEMENT	DATE PREPARED	DATE ANALYZED
LEAD	01/25/91	01/25/91

METALS RESULTS

CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	LEAD
9101-172-1	910109-PL-6	<10
9101-172-2	910109-G-SP-B	<10
REAGENT BLANK	-	<10

METALS QUALITY CONTROL

CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY UNITS : mg/Kg

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
LEAD	9101-172-2	<10	<10	0	280	280	100

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GENERAL CHEMISTRY
SOIL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

ANALYSIS	DATE ANALYZED
MOISTURE	01/10/91

GENERAL CHEMISTRY RESULTS

CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY UNITS : %

ATI I.D.#	CLIENT I.D.	MOISTURE
9101-172-1	910109-PL-6	13
9101-172-2	910109-G-SP-B	11

GENERAL CHEMISTRY QUALITY CONTROL

CLIENT : GEOENGINEERS, INC.
PROJECT # : 0161-041-B04
PROJECT NAME : UNOCAL FEDERAL WAY

MATRIX : SOIL
UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9101-059-2	16	17	6	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.
560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

9101-172

DATE 1/9/91 PAGE ___ OF ___

LABORATORY NUMBER: 9101-053

PROJECT MANAGER: JERRY FISK
COMPANY: GEO ENGINEERS
ADDRESS: 2405 140TH AVE NE STE 105
BELLEVUE, WA 98005
PHONE: 746-5200 SAMPLED BY: DEH

already charged 9101-172

SAMPLE DISPOSAL INSTRUCTIONS
☒ ATI Disposal @ $5.00 each ☐ Return

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
910109-PL-6	1/9/91	1250	SOIL	1
910109-PL-7		1235	SOIL	2
910109-PL-8		1240	SOIL	3
910109-PL-SP		1300	SOIL	4
910109-VW-1		1330	SOIL	5
910109-VW-2		1600	SOIL	6
910109-G-SP-A		1400	SOIL	7
910109-G-SP-B	✓	1435	SOIL	8

ANALYSIS REQUEST

8010 Halogenated Volatiles	8020 Aromatic Volatiles	BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (13)	TCLP ONLY: 8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (8) 9101-172	TOTAL LEAD		NUMBER OF CONTAINERS
		X											X											X		1
		X											X													1
		X											X													1
		X											X													1
											X		X													1
											X		X													1
		X											X													1
		X											X											X		1

PROJECT INFORMATION
PROJECT NUMBER: 0161-041-B04
PROJECT NAME: UNOCAL FEDERAL Utility
PURCHASE ORDER NUMBER:
ONGOING PROJECT? YES ☒ NO ☐

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS: 8
COC SEALS/INTACT? Y/N/NA: N/NA
RECEIVED GOOD COND./COLD: 4/4
RECEIVED VIA: Hand Del

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS
TAT: (NORMAL) ☐ 2WKS (RUSH) ☒ 24HR ☐ 48 HRS ☐ 72 HRS ☐ 1 WK
GREATER THAN 24 HR. NOTICE? YES ☒ NO ☐ (LAB USE ONLY)

SPECIAL INSTRUCTIONS: SS#6227
Send results to Jerry Fisk @ GEI

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date: 1/10/91 DONALD HANSON	Printed Name: Date:	Printed Name: Date:
Company: GEI	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time:	Signature: Time:	Signature: Time: 1005
Printed Name: Date:	Printed Name: Date:	Printed Name: Date: U. PENNICK 1/10/91
Company:	Company:	Analytical Technologies, Inc.

ATI Sat (619 141 nix (8-15 eattl 228- Pen (904 001 TRIB : W anan • Pir IGIN

B - 140

UNOCAL #6227	1622/8504
FEDERAL WAY	1989-2006
LUST 1622	29625 PACIFIS HWY S
B/C 0000006638	VCP NW1534
FS 79813564	NFA 1/27/06

Unocal #6227
Federal Way

Washington State Department of Ecology
Toxics Cleanup Program

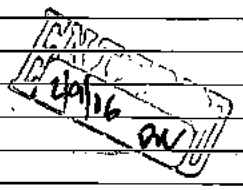
Voluntary Cleanup Program Site Log

Site Name: Federal Way Deli Mart **FS ID#: 79813564**

SIC: J1C54 **Month(s):** 1 **Year:** 2006

Site Mgr. Name: Jing Liu **VCP#: NW1534**

Date	Hours	Activity Description
1/18/2006	2.5	Site visit and prepare opinion letter



DATA ON THIS FORM IS IN AGREEMENT WITH EMPLOYEE TIMESHEETS

EMPLOYEE'S SIGNATURE: DATE: 1/20/06

SUPERVISOR'S SIGNATURE: DATE: 1/26/06

Washington State Department of Ecology
Toxics Cleanup Program

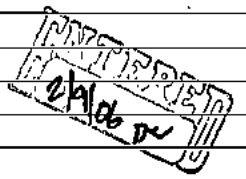
Voluntary Cleanup Program Site Log

Site Name: Federal Way Deli Mart **FS ID#: 79813564**

SIC: J1C54 **Month(s):** 12 **Year: 2005**

Site Mgr. Name: Jing Liu **VCP#: NW1534**

Date	Hours	Activity Description
12/21/05	2.5	1) Review application and associated reports 2) Sent courtesy email to consultant, schedule site visit.
12/29/2005	2	Prepare site summary



DATA ON THIS FORM IS IN AGREEMENT WITH EMPLOYEE TIMESHEETS

EMPLOYEE'S SIGNATURE: DATE: 1/20/06

SUPERVISOR'S SIGNATURE: DATE: 1/26/06

Voluntary Cleanup Program – NWRO

From: Dale R. Myers
VCP Administrator, NWRO

Subject: VCP Cleanup or Time Accounting Review

The attached files were submitted for review of an independent remedial action under the Voluntary Cleanup Program. The initial deposit of $500 was received.

SIC: ___ Non-LUST **J1C54** SITE ID NW1534
V LUST **J1C59** **"90-day" screening** date is 03-06-06
___ Sediments **J1J40** **Site visit is an Initial Investigation:** Yes No

___ Site is listed on Next edition Confirmed & Suspected Contaminated Sites List (CSCS)
___ Site would be listed NO Hazardous Sites List (HSL)
YES X LUST database

Please remember to:

1. **Keep track of you time** on a copy of the attached VCP Site Log. An Excel version of this is in t:\tcp\vcp\GEN-VCP\VCP-LOG.xls or can be obtained from Pat Melone. Please remember to **total the "Hours" column and to sign and date all logs. KEEP THE SITE LOG WITH THE FILE.** Do **NOT** TURN THEM IN WITH YOUR TIME SHEETS.

2. **Hold on to final determination letters** ("NFA" or "Further Action Required") until: a) accumulated fees have been collected or b) any Restrictive Covenants have been filed.

3. **Check the "Release Information" on pages 3 & 4 of the Site *Summary* form.** Please check to see that the information entered is a fair approximation of the cleanup. If you make changes or update the data, please use red (green, purple, orange, etc.) ink so data entry folks can spot any changes quickly.

4. **Complete the Environmental Indicators form** (attached). The PREFERRED ALTERNATIVE is to use the Excel version in t:\tcp\vcp\review\forms\ENVID.XLS and e-mail it to me. The guidelines for completing the form are in ENV_IND.DOC.

5. **Return the entire file to me when done.** Remove all post-it notes and markers from files. Include site logs, a signed copy of the **determination letter** (NFA or Further Action required), a copy of the recorded **restrictive covenant,** and all the files. Please **note the date you went on site** by highlighting the date on your site log.

Given the increasing frequency with which independent remedial action sites are the subject of litigation, with Ecology's decisions serving as the basis for some of it, I strongly suggest that you have your determination and correspondence peer-reviewed prior to sending it and that you document the basis of your decision with a brief memorandum to file.

If you have any questions, please call me at 425-649-4446. If you have any suggestions regarding the process or paperwork that you think would make things easier, please let me hear them. Thanks for your help.

Volu tary Cleanup P ›gram

Washington State Department of Ecology – Toxics Cleanup Program

WASHINGTON STATE DEPARTMENT OF ECOLOGY

APPLICATION TO REQUEST ASSISTANCE

This application is for individuals requesting assistance from the Voluntary Cleanup Program to plan, conduct, or evaluate an independent cleanup. The applicant may be a site owner, former site owner, site operator, or consultant on behalf of the owner or operator.

PLEASE ANSWER THE FOLLOWING QUESTIONS TO THE BEST OF YOUR KNOWLEDGE.

Have you discussed this site with an Ecology representative? _____Yes_____

If yes, what is that person's name? _____Joseph Hickey_____

What is the approximate date? _____April 1991_____

Has Ecology already received reports or records pertaining to this site?_____Yes_____

If yes, what do they pertain to?___UST Removal, Subsurface Investigation and Remedial action_____

Is this a leaking underground storage tank site?_____Yes_____

Is this site a Brownsfield? _____No_____

(Brownfields are properties that are abandoned or underused because of environmental contamination from past industrial or commercial practices.)

PLEASE DETERMINE IF PERMITS ARE REQUIRED.

Local, state, and/or federal permits may be required for cleanup activities at your site. To determine if a permit(s) is required for your cleanup action, please check with Ecology's **Permit Assistance Center at 1-800-917-0043.**

APPLICANT COMPLETES THIS SECTION (NOTE: THE APPLICANT IS RESPONSIBLE FOR ALL BILLINGS.)

Applicant Name ____Mr. Han C/O Business Loan Express LLC DFS # 9736 Phone __ Cynthia Zais __800 225 1776_____

Applicant Address ____700 Pearl Street Suite 1850 _____

City _____Dallas_ _____ State __ _TX_____ Zip Code _____75201_____

Site Name _____Federal Way Deli Mart_____ Alternate Name____UNOCAL Station # 6227_____

Site Address __29625 Pacific Highway South_____

City ___Federal Way_____State ___WA_____ Zip Code _98003 County __King_____

Site Owner Name_____Rai and Tiwana LLC_____

Site Owner Address _____29625 Pacific Highway South _____ Phone _____

City ___Federal Way_____ State ___WA_____ Zip Code ____98003_____

I, Kevin M. Januszz *, request the assistance of the Department of Ecology. With this application, I have enclosed an initial deposit of $500. I understand this payment is the equivalent of approximately (5) hours of staff review on the cleanup of my contaminated site. If total charges exceed $500, I will be billed and will pay the remaining balance. Any excess payments will be refunded to me.*

Kevin M. Janusz 11/9/05

Signature of Applicant Business Loan Express, LLC. Date

Ecy 020-74 (revised 06/04)

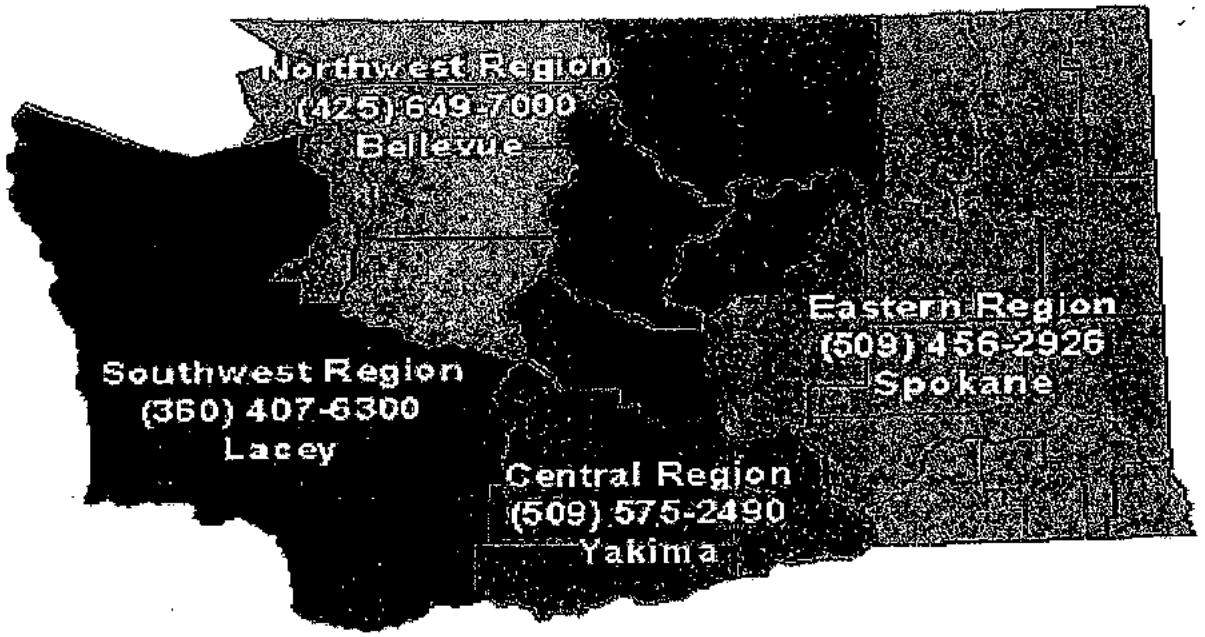
TCP ID # NW1534

Please submit the following information, along with your signed application form, to the appropriate Ecology office:

1. Site Summary form (Ecology Publication #020-73)
2. A check or money order for $500 made out to the "Department of Ecology"
3. If applicable, a "Terrestrial Ecological Evaluation Exclusion" form
4. Any other existing reports pertaining to this site

WHERE TO SUBMIT YOUR FORMS, REPORTS & FEE

- Please submit your forms and reports to the regional office in which the site resides.



REGION

- Central Regional Office, Attn: Frosti Smith, 15 W. Yakima Ave., Suite 200, Yakima WA 98902
- Eastern Regional Office, Attn: Patti Carter, N. 4601 Monroe, Spokane WA 99205-1295
- Northwest Regional Office, Attn: Dale Myers, 3190 160th Ave. SE, Bellevue WA 98008-5452
- Southwest Regional Office, , Attn: Chuck Cline, PO Box 47775, Olympia WA 98504-7775

Please note: If your site is part of a major pulp mill, paper mill, aluminum smelter, or oil refinery, please submit your information to: Paul Skyllingstad, Department of Ecology – Industrial Section, PO Box 47706, Olympia WA 98504-7706, (360) 407-6949.

For office use only

Date:	Hours:	Rate:	Staff Name:
Date:	Hours:	Rate:	Staff Name:
Date:	Hours:	Rate:	Staff Name:

Receipts

Amount: 500 ee Date Paid: 12-5-05 Receipt #:

For Fiscal use only

173-02-94-005000-5000 30-40

LUST/NON-LUST: LUST – 30 NON-LUST – 20

OFFICE: NWRO – 40 SWRO – 50 ERO – 60 CRO – 70 IND – 80 HQ – 90

To receive this document in alternative format, please contact the Toxics Cleanup Program at (360) 407-7170 or 711 or 1-800 833-6388 (TTY)

Washington State Department of Ecology
Toxics Cleanup Program

Voluntary Cleanup Program Site Log

Site Name: _____ **FS ID#:** _____

SIC: Non-LUST J1C54
LUST J1C59
Sediments J1J40

Month(s): _____ **Year: 200**

Name: _____ **Category:** **VCP#: NW**

Date	Hours	Monthly Hours Subtotals	Site Manager Intls.	Unit Supervisor Intls.	Activity Description

Cleanup/Decision Summary

Site Name: Federal Way Deli Mart

FS ID #: 79813564 **VCP #: NW1534**
Site Decision (attach letters): No Further Action Determination

1. **Site Description (include site address with street, city, and county; physical description; current and historical uses of site; etc.):**

   The site is located at 29625 Pacific Highway South in Federal Way, King County in an area of mixed residential and commercial properties. It is approximately 0.96 acre in size. A UNOCAL gasoline station was constructed in 1969 and operated till 1990. The site was then occupied by an automobile sales facility and U-Haul company during the early 1990s. The UNOCAL gasoline service station building was demolished in 1994/95. The current underground storage tanks and fueling system were installed in 1995 as part of the construction for the existing gasoline service station and convenience store. The site slopes steeply downward toward the north-northwest, an undeveloped area covered by vegetation.

2. **Describe affected media (soil, groundwater, surface water, sediment, air):**

   Soil was contaminated by petroleum products during the period when UNOCAL gasoline station operated the site. Two 10, 000-gallon gasoline USTs, one 520-gallon waste oil tank and one 550-gallon heating oil tank were removed from the subject site in 1989. The steel gasoline tanks were replaced by two 12,000-gallon double-wall fiberglass-coated steel USTs. The steel waster oil tank was replaced with a 520-gallon double-wall fiberglass-coated steel tank. The steel heating oil tank was removed but not replaced. Petroleum contaminated soil was discovered during the tank removal. Approximately 600 cubic yards of contaminated soil was removed from beneath the gasoline USTs and 100 cubic yards from beneath and in the vicinity of the former waste oil UST. However, soil confirmation samples showed residual contamination in the vicinity of the former waste oil UST excavation area, and it was concluded that removal of the remaining contamination would require removal of the service station building and the new tank. A vapor well was installed in 1990 to monitor the conditions in the vicinity of the former waste oil tank excavation area.

   Groundwater was not encountered during any borings which reached 30 feet below ground surface (bgs). It is anticipated that the depth to groundwater at this site is greater than 100 feet.

3. **Cleanup method used:**

   ☒ **Method A**
   ☐ **Method B (Attempted to utilize Method B Worksheet)**
   ☐ **Method C**

4. **Describe cleanup activities (for each media) and if contamination remains on-site (including conformational sampling/analysis, points of compliance, etc...):**

The two fiberglass-coated steel gasoline tanks and the fiberglass-coated steel waste oil tank which were installed in 1989 were removed between December 1990 and January 1991. The product lines and the vapor well were also removed. Approximately 50 cubic yards of soil were excavated from the waste oil tank excavation area, 50 cubic yards from the gasoline tank excavation area, 10 cubic yards from the product line excavation and 180 cubic yards of soil were removed from the vapor well test pit excavation area. All the contaminated soil was disposed off site. One soil confirmation sample taken at the vapor well excavation pit around the depth of 16 feet showed TPH (heavy oil range) of 280 mg/kg, which was above the MTCA A cleanup Levels at that time, but is below the current cleanup level of 2000 mg/kg. All the other soil confirmation samples showed compliance with MTCA Method A cleanup requirements.

A Limited Phase II investigation was conducted in the subject site in 2001. All the soil samples showed compliance with MTCA Method A Cleanup Levels for Unrestricted Land Use.

**Note:

a. Table 1 of appendix A from the Report of Request for Determination of No further Action dated on November 23, 2005 has both performance and confirmation sampling results.
b. Remediation was conducted in 1989 and 1991. However, the site owners didn't officially request a No Further Action determination at that time and the site remains on Ecology's Confirmed and Suspected Contaminated Site list. Joe Hickey issued a letter dated on April 22, 1991 for the subject site. Joe stated in his letter that proper procedures were followed regarding the tank removal and site remediation pursuant to federal and state regulations. Joe also stated that the residual contamination was insufficient to warrant further action. Noted here MTCA method A Cleanup Levels for TPH has been changed after Joe issued the letter.

5. **Describe restrictive covenant (e.g., contamination remains under structure, groundwater restrictions, 5-year review):**

N/A

6. **Indicate if site to be delisted and EEOS contact (only for HSL sites):**

N/A

ES-3 1/26/06

Signature, Title, and Date

Southern Unit Supervisor 2/2/06

Signature, Title, and Date

Signature, Title, and Date

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

ENTERED 99 2-27 2006

January 28th, 2006

Mr. Yung Ho Han, c/o Business Loan Express LLC
700 North Pearl Street Suite 1850
Dallas, TX 75201

Re: No Further Action Determination under WAC 173-340-515(5) for the following Hazardous Waste Site:

- Name: Federal Way Deli Mart
- Address: 29625 Pacific Highway South, Federal Way, WA 98003
- Facility/Site No.: 79813564
- VCP No.: NW1534

Dear Mr. Han:

Thank you for submitting your independent remedial action report for the Federal Way Deli Mart Site for review by the State of Washington Department of Ecology (Ecology) under the Voluntary Cleanup Program (VCP). Ecology appreciates your initiative in pursuing this administrative option for cleaning up hazardous waste sites under the Model Toxics Control Act (MTCA), Chapter 70.105D RCW.

This letter constitutes an advisory opinion regarding whether further remedial action is necessary at the Site to meet the substantive requirements of MTCA and its implementing regulations, Chapter 70.105D RCW and Chapter 173-340 WAC. Ecology is providing this advisory opinion under the specific authority of RCW 70.105D.030(1)(i) and WAC 173-340-515(5).

This opinion does not resolve a person's liability to the state under MTCA or protect a person from contribution claims by third parties for matters addressed by the opinion. The state does not have the authority to settle with any person potentially liable under MTCA except in accordance with RCW 70.105D.040(4). The opinion is advisory only and not binding on Ecology.

Ecology's Toxics Cleanup Program has reviewed the following information regarding the Site:

1. Report of Remedial Action Underground Storage Tank Removal Unocal Service Station 6227 King County, Washington, prepared by GeoEngineers on November 27, 1989.

2. Results of Supplemental Field Services Unocal Service Station 6227 King County, prepared by GeoEngineers on January 17, 1991.

3. Report of Remedial Action Underground Storage Tank Removal Unocal Service Station 6227 King County, Washington, prepared by GeoEngineers on April 10, 1991.

4. Letter Report Limited Phase II Investigation Shell Service Station and Mini Mart 29625 Pacific Highway South, Federal Way, Washington, prepared by Assessment and Remediation Consulting Services on April 9, 2001.

The documents listed above will be kept in the Central Files of the Northwest Regional Office of Ecology (NWRO) for review by appointment only. Appointments can be made by calling the NWRO resource contact at (425) 649-7190.

The Site is defined by the extent of contamination caused by the release of petroleum products to soil. The Site is more particularly described in Enclosure A to this letter, which includes a detailed Site diagram. The description of the Site is based solely on the information contained in the documents listed above.

Based on a review of the independent remedial action report and supporting documentation listed above, **Ecology has determined that the independent remedial action(s) conducted at the Site are sufficient to meet the substantive requirements contained in MTCA and its implementing regulations, Chapter 70.105D RCW and Chapter 173-340 WAC, for characterizing and addressing the contamination at the Site.** Therefore, pursuant to WAC 173-340-515(5), Ecology is issuing this opinion that **no further remedial action is necessary** at the Site under MTCA.

Based on this no further action determination, Ecology will update the status of the Site on its site database and remove the Site from the Confirmed and Suspected Contaminated Sites List and the Leaking Underground Storage Tank (LUST) List.

This no further action determination does not apply to any other release(s) or potential release(s) of contaminant(s) that may impact any other portion of any property impacted by this Site, or any other property owned or operated by Mr. Yung Ho Han.

Please note that this opinion is based solely on the information contained in the documents listed above. Therefore, if any of the information contained in those documents is materially false or misleading, then this opinion will automatically be rendered null and void and further remedial action may be required at the Site.

The state, Ecology, and its officers and employees make no guarantees or assurances by providing this opinion, and no cause of action against the state, Ecology, its officers or employees may arise from any act or omission in providing this opinion.

Again, Ecology appreciates your initiative in successfully completing cleanup under the Voluntary Cleanup Program (VCP). If you have any questions regarding this opinion, please contact me at (425) 649-4310.

Sincerely,

Jing Liu
NWRO, Toxics Cleanup Program

Enclosures: 1

Enclosure A

The site is located at 29625 Pacific Highway South in Federal Way, King County in an area of mixed residential and commercial properties. It is approximately 0.96 acre in size. A UNOCAL gasoline station was constructed in 1969 and operated till 1990. The site was then occupied by an automobile sales facility and U-Haul company during the early 1990s. The UNOCAL gasoline service station building was demolished in 1994/95. The current underground storage tanks and fueling system were installed in 1995 as part of the construction for the existing gasoline service station and convenience store. The site slopes steeply downward toward the north-northwest, an undeveloped area covered by vegetation.

Soil was contaminated by petroleum products during the period when UNOCAL gasoline station operated the site. Two 10, 000-gallon gasoline USTs, one 520-gallon waste oil tank and one 550-gallon heating oil tank were removed from the subject site in 1989. The steel gasoline tanks were replaced by two 12,000-gallon double-wall fiberglass-coated steel USTs. The steel waster oil tank was replaced with a 520-gallon double-wall fiberglass-coated steel tank. The steel heating oil tank was removed but not replaced. Petroleum contaminated soil was discovered during the tank removal. Approximately 600 cubic yards of contaminated soil was removed from beneath the gasoline USTs and 100 cubic yards from beneath and in the vicinity of the former waste oil UST. However, soil confirmation samples showed residual contamination in the vicinity of the former waste oil UST excavation area, and it was concluded that removal of the remaining contamination would require removal of the service station building and the new tank. A vapor well was installed in 1990 to monitor the conditions in the vicinity of the former waste oil tank excavation area.

Groundwater was not encountered during any borings which reached 30 feet below ground surface (bgs). It is anticipated that the depth to groundwater at this site is greater than 100 feet.

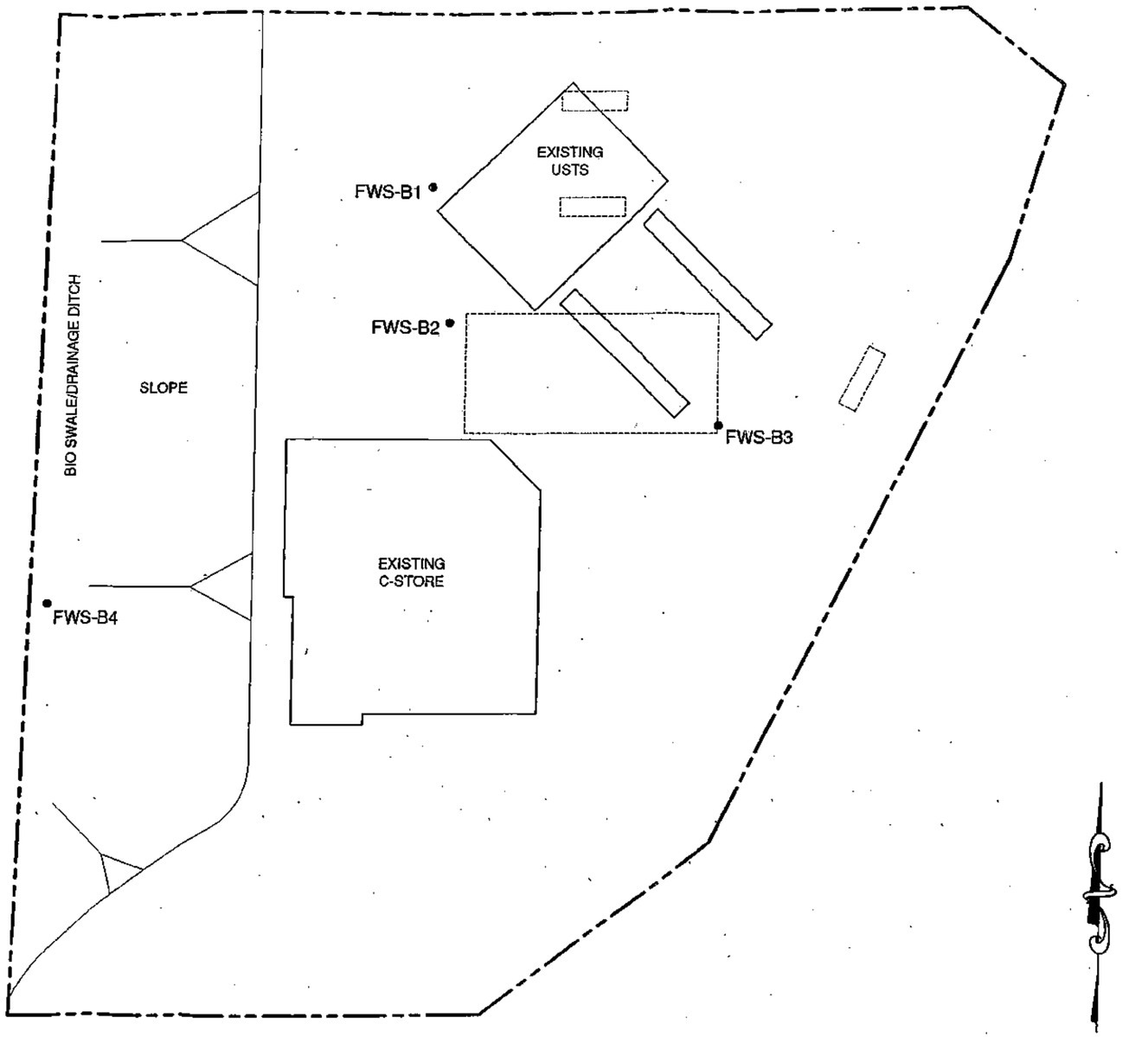
The two fiberglass-coated steel gasoline tanks and the fiberglass-coated steel waste oil tank which were installed in 1989 were removed between December 1990 and January 1991. The product lines and the vapor well were also removed. Approximately 50 cubic yards of soil were excavated from the waste oil tank excavation area, 50 cubic yards from the gasoline tank excavation area, 10 cubic yards from the product line excavation and 180 cubic yards of soil were removed from the vapor well test pit excavation area. All the contaminated soil was disposed off site. One soil confirmation sample taken at the vapor well excavation pit around the depth of 16 feet showed TPH (heavy oil range) of 280 mg/kg, which was above the MTCA A cleanup Levels at that time, but is below the current cleanup level of 2000 mg/kg. All the other soil confirmation samples showed compliance with MTCA Method A cleanup requirements.

A Limited Phase II investigation was conducted in the subject site in 2001. All the soil samples showed compliance with MTCA Method A Cleanup Levels for Unrestricted Land Use.

LEGEND:

- EXISTING BUILDING, DISPENSERS AND USTS
- FORMER BUILDING, DISPENSERS AND USTS

WS-B1 • - NUMBER AND APPROXIMATE LOCATION OF ARCS PHASE II BORING



NOT TO SCALE

LSI Adapt™
LSI Adapt, Inc.
615 - 8th Avenue South
Seattle, Washington 98104
Tel (206) 654-7045
Fax (206) 654-7048

FIGURE 4 - Boring Location (ARCS 2001 Phase II)

Project : Federal Way Shell
Location : 29625 Pacific Highway
Federal Way, WA 98003
Client : Business Loan Express (Seattle)
Project No : WA05-13165-ESA Date : 11/04/05

Cleanup/Decision Summary

Site Name: FEDERAL WAY DELI MART

FS ID #: 7981 3564 **VCP #:** NW1534

Site Decision (attach letters): _____

1. **Site Description (include site address with street, city, and county; physical description; current and historical uses of site; etc.):**

2. **Describe affected media (soil, groundwater, surface water, sediment, air):**

3. **Cleanup method used:**

   ☐ **Method A**
   ☐ **Method B (Attempted to utilize Method B Worksheet)**
   ☐ **Method C**

4. **Describe cleanup activities (for each media) and if contamination remains on-site (including conformational sampling/analysis, points of compliance, etc…):**

5. **Describe restrictive covenant (e.g., contamination remains under structure, groundwater restrictions, 5-year review):**

6. **Indicate if site to be delisted and EEOS contact (only for HSL sites):**

_____
Signature, Title, and Date

_____
Signature, Title, and Date

_____
Signature, Title, and Date

_____
Signature, Title, and Date

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

December 5, 2005

Mr. Kevin M. Janusz
Business Loan Express LLC DFS #9736
700 Pearl Street, Suite 1850
Dallas TX 75201

Dear Mr. Kevin M. Janusz:

Re: Request for Review: Independent Remedial Action
Federal Way Deli Mart, 29625 Pacific Highway S., Federal Way WA 98003

Thank you for submitting the independent remedial action reports(s) for this site for Ecology's review. Ecology appreciates your initiative in pursuing a voluntary cleanup under the Model Toxics Control Act.

This is to acknowledge receipt of your *Request* and your $500 deposit. A copy of the *Request* form is enclosed. All correspondence relating to this project should include the site name and a reference to the TCP identification number NW1534.

The Department of Ecology (Ecology) will publish a notice in the *Site Register* that we have received the report(s) and of your request for Ecology review of the independent remedial action. The Site Register is a bi-weekly publication regarding sites undergoing cleanup or remedial action throughout the state.

If you have any questions about this letter or the Voluntary Cleanup Program, please do not hesitate to call me at (425) 649-4446.

Sincerely,

Dale R. Myers
Voluntary Cleanup Program Administrator

DM: lg

Enclosure

Voluntary Cleanup Program

Washington State Department of Ecology – Toxics Cleanup Program

WASHINGTON STATE DEPARTMENT OF ECOLOGY

SITE SUMMARY

This form is a required component of your request for assistance under the Voluntary Cleanup Program. Please include it with your application, consultation fee, and terrestrial ecological evaluation form (if applicable).

WHICH OF THE FOLLOWING APPLY TO YOUR SITE?

☐ You are requesting assistance on a planned cleanup.

☐ You are requesting assistance on an ongoing cleanup.

X You are requesting review of a completed cleanup.

☐ You are requesting review of monitoring reports.

PERSON/ORGANIZATION MAKING REQUEST FOR ASSISTANCE

Name: Mr. Han C/o Business Loan Express LLC

Firm:

Mailing address: 700 North Pearl Street Suite 1850

City: Dallas State: TX Zip code: 75201

Telephone number: 800 225-1776 Cynthia Zais Fax number: 214-389-6192 E-mail address:

WHICH BEST DESCRIBES YOUR INVOLVEMENT AT THIS SITE (CHECK AS MANY THAT APPLY)

Current Owner	Former Owner	Potential Purchaser	Current Operator	Former Operator	Environmental Consultant	Attorney	Insurance Carrier	Other
	X							

If other, please specify:

SITE IDENTIFICATION

Name of site: Federal Way Deli Mart

Alternative name(s) for site: UNOCAL Station # 6227

Site address: 29625 Pacific Highway South

City: Federal Way State: WA Zip code: 98003 County: King UBI Number:

Township: 21N Range: 4E Section: 4 Quarter-Quarter: NW-SW

Latitude:	122	Degrees:	18	Minutes:	51	Seconds:	
Longitude:	47	Degrees:	20	Minutes:	17	Seconds:	

What method did you use to calculate latitude and longitude? Ecology's Water well map.

How many acres is the site? 0.96

Property type? Commercial X Industrial ☐ Residential ☐ Other ☐ Please specify:

Is the property currently being used? Yes

Are there plans for change in use? No If yes, please specify:

Standard Industrial Classification (SIC) Codes

Please list all that apply. If you do not know the SIC code(s), list the activities conducted at the site (i.e. automotive repair and maintenance, construction equipment storage, etc.)

Gasoline station and convenience store

Tank Information

Please complete the table below for all above ground tanks (AST) and underground storage tanks (UST) existing or formerly existing on the property, including unregulated tanks.

Tank ID	AST/UST	Size	Was free product encountered?		In Excavation	**Tank Status & Date
			*Product	On GW		
?	UST	10,000-gasoline		NA		Installed- 1969 Removed-1989
?	UST	10,000-gasoline		NA		Installed-1969 Removed-1989
?	UST	550-heating oil		NA		Installed 1969 Removed-1989
4	UST	550-waste oil		NA		Installed-1969 Removed-1989
1	UST	12,000-unleaded		NA		Installed 1989 Removed-1990/91
2	UST	12,000, unleaded		NA		Installed- 1989 Removed-1990/91
	UST	520- waste oil		NA		Installed-1989 Removed-1990/91
5	UST	10,000 Unleaded Reg		NA		Installed-1995 Operational
6	UST	10,000 Unleaded Reg		NA		Installed-1995 Operational

7	UST	8, 4,000 Unleaded Plus and premium		NA		Installed-1995 Operational

** Unleaded, leaded diesel, bunker-C, waste oil, heating oil, aviation fuel, other (please identify)*
***Left in-place, removed, closed-in-place*

Site Maps

Please include an area map that shows the general location of the site (mark the site location) and a site diagram that shows sampling and well locations.

Dangerous Waste Facilities

Does the facility have a dangerous waste identification (WAD) number? ____No_____
If yes, please specify.

Site Assessment or Site Remediation Work Completed to-date

Has site assessment work been completed at the site? Yes
If yes, when? 1989, 1991 and 2001 Were the results reported to Ecology? Yes (1989 and 1991)
Has site cleanup work been conducted at the site? Yes
If yes, when? 1989 and 1991 Were the results reported to Ecology? Yes
Does contamination remain on-site after cleanup? No
If yes, please describe the contamination?

Institutional Controls (i.e. restrictive covenant, engineered controls, fencing)

Were institutional controls used at the site? If yes, please specify. ____Site is covered with asphalt and concrete pavement

Documentation

Please list all known assessment and/or cleanup reports completed for the site. Include the title of the report, the name of the consulting firm that did the work, and the year it was completed.

Title	Consulting Firm	Date
Report of Remedial Action Underground Storage Tank Removal Unocal Service Station 6227 King County, Washington	GeoEngineers	November 27, 1989
Results of Supplemental Field Services Unocal Service Station 6227 King County,	GeoEngineers	January 17, 1991

WASHINGTON		
REPORT OF REMEDIAL ACTION UNDERGROUND STORAGE TANK REMOVAL UNOCAL SERVICE STATION 6227 KING COUNTY, WASHINGTON	GEOENGINEERS	APRIL 10, 1991
LETTER REPORT LIMITED PHASE II INVESTIGATION SHELL SERVICE STATION AND MINI MART 29625 PACIFIC HIGHWAY SOUTH, FEDERAL WAY, WASHINGTON	ASSESSMENT AND REMEDIATION CONSULTING SERVICES	APRIL 9, 2001

AFFECTED MEDIA & CONTAMINANTS

Please list the known or suspected contaminants at the site prior to cleanup. Mark the appropriate medium (such as soil) with "C" (confirmed and above Model Toxics Control Act (MTCA) cleanup standards), "B" (confirmed but below MTCA standards), "S" (suspected), "N/A" (not applicable), "O" (tested and not present), "U" (unknown).

CONTAMINANT	SOIL	GROUND WATER	SURFACE WATER	AIR	SEDIMENT	DRINKING WATER	DATE OF RELEASE (IF KNOWN)
Example: Lead	C	S	S	U	S	S	1967-82
Gasoline	C	N/A	N/A	N/A	N/A	N/A	Prior to 1989
Lead	C	N/A	N/A	N/A	N/A	N/A	Prior to 1989
Benzene	B	N/A	N/A	N/A	N/A	N/A	Prior to 1989
Toluene	B	N/A	N/A	N/A	N/A	N/A	Prior to 1989
Ethylbenzene	B	N/A	N/A	N/A	N/A	N/A	Prior to 1989
Xylenes	B	N/A	N/A	N/A	N/A	N/A	Prior to 1989
TPH (418.1)	C	N/A	N/A	N/A	N/A	N/A	Prior to 1989
HVOC	O	N/A	N/A	N/A	N/A	N/A	

METHODS & TREATMENT CHNOLOGIES USED AT SITE

Please check all applicable boxes that apply to your site.

CLEANUP METHOD USED	SOIL	GROUND WATER	SURFACE WATER	DRINKING WATER	AIR	SEDIMENTS
Method A	X	N/A	N/A	N/A	N/A	N/A
Method B						
Method C						
TREATMENT TECHNOLOGY USED	**SOIL**	**GROUND WATER**	**SURFACE WATER**	**DRINKING WATER**	**AIR**	**SEDIMENTS**
Air Sparging/Air Stripping						
Bioventing						
Capping (asphalt, concrete, topsoil, RCRA cover, soil-clay, synthetic membrane)						
Carbon Adsorption						
Containment On-Site						
Containment Off-Site						
Free-product Recovery						
In Situ Chemical Oxidation						
Natural Attenuation (dilution, volatilization, biodegradation, adsorption)						
Permeable Reactive Barriers						
Phytoremediation						
Soil Flushing						
Soil Vapor Extraction						
Thermal Desorption						
Other (please specify) Soil Excavation	X	N/A	N/A	N/A	N/A	N/A

AFFECTED MEDIA & CONTAMINANTS AFTER CLEANUP

Please list the contaminants from the box on page 4 and list their status after cleanup. Mark the appropriate medium (such as soil) with "C" (confirmed and above Model Toxics Control Act (MTCA) cleanup standards but contained), "B" (confirmed but below MTCA standards), "R" (remediated and below MTCA standards), "N/A" (not applicable), "O" (tested and not present), "U" (unknown).

CONTAMINANT	SOIL	GROUND WATER	SURFACE WATER	AIR	SEDIMENT	DRINKING WATER
Example: Lead	R	O	B	U	B	O
Gasoline	R	N/A	N/A	N/A	N/A	N/A
Benzene	O	N/A	N/A	N/A	N/A	N/A
Toluene	O	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	O	N/A	N/A	N/A	N/A	N/A
Xylenes	O	N/A	N/A	N/A	N/A	N/A
TPH (418.1)	R	N/A	N/A	N/A	N/A	N/A
Lead	R	N/A	N/A	N/A	N/A	N/A

DRINKING WATER & AQUATICS INFORMATION

Are there any drinking wells within ½ mile of the site? Yes If yes, how many? 1 approx ½ mile southwest
Was a drinking water system affected? No If yes, was an alternate drinking water source provided?
Was the affected drinking water system public, private, or both?
Are there any creeks, streams, ponds, wetlands, or shorelands on or adjacent to the site? No Within ¼ mile of the site? Yes
If yes, where are they located? Northwest approximately ¼ mile.
Were they impacted by the contamination from the site? No

OWNER/OPERATOR HISTORY

Please complete as many of the below boxes as possible. For type of owner/operator, please use the following codes: (1) Private, (2) Municipal, (3) County, (4) Federal, (5) State, (6) Tribal, (7) Mixed, (8) Other, (9) Unknown, (10) Public Entitle Acquisition via Bankruptcy.

Current site owner: Rai and Tiwana LLC		Type: 1
Street address: 29625 Pacific Highway South		
City: Federal Way	State: WA	Zip code: 98003
Contact person (if different than owner listed above): Keith Ross LSI Adapt		
Street address:		
City:	State:	Zip code:
Phone: 206-654-7045	Fax:	E-mail address:
Date of ownership: September 2005	to Present	

Current operator: Same		Type:
Street address:		
City:	State:	Zip code:
Contact person (if different than owner listed above):		
Street address:		
City:	State:	Zip code:
Phone:	Fax:	E-mail address:
Date of operation:	to	

Former site owner: Mr. Yung Ho Han c/o Business Loan Express LLC Type: 1

Street address: 700 North Pearl Street Suite 1850

City: Dallas State: TX Zip code:75201

Contact person (if different than owner listed above): Keith A. Ross LSI Adapt

Street address:

City: State: Zip code:

Phone: 206 654-7045 Fax: E-mail address:

Date of ownership: May 2001 to September 2005

Former operator: Same Type:

Street Address:

City: State: Zip code:

Phone: Fax: E-mail address:

Date of operation: to

Environmental consultant: Keith A. Ross Type:

Representing: Lender-Business Loan Express

Firm: LSI Adapt

Street address: 615 8th Avenue S

City: Seattle State: WA Zip code: 98104

Phone: 206-654-7045 Fax: 206-654-7048 E-mail address: kross@lsiadapt.com

SITE CONTACT PERSON (IF OTHER THAN OWNER/OPERATOR)

This is someone who is available during normal working hours and has knowledge about the site and the activities conducted at the site.

Name:

Relation to site owner/operator:

Firm:

Street address:

City: State: Zip code:

Phone: Fax: E-mail address:

Date of involvement with site: to

Name:		
Relation to site owner/operator:		
Firm:		
Street address:		
City:	State:	Zip code:
Phone:	Fax:	E-mail address:
Date of involvement with site:	to	

Name:		
Relation to site owner/operator:		
Firm:		
Street address:		
City:	State:	Zip code:
Phone:	Fax:	E-mail address:
Date of involvement with site:	to	

Ecology is an Equal Opportunity and Affirmative Act . . . mployer.

Voluntary Cleanup Program

Washington State Department of Ecology – Toxics Cleanup Program

WASHINGTON STATE DEPARTMENT OF ECOLOGY

TERRESTRIAL ECOLOGICAL EVALUATION EXCLUSION

Some contaminated sites are excluded from conducting a Terrestrial Ecological Evaluation (TEE). If your site meets the criteria for exclusion as described in WAC 173-340-7491, please complete this form.

Please note that exclusion from the TEE does not exclude the site for consideration of effects on aquatic or sediment ecological receptors.

SITE NAME **Federal Way Deli Mart**

SITE ADDRESS 29625 Pacific Highway South, Federal Way, WA 98003

EVALUATOR'S NAME KEITH A. ROSS, LSI ADAPT

REASONS FOR EXCLUSION:

A site is eligible for exclusion if it meets any of the following criteria:

1. POINT OF COMPLIANCE WAC 173-340-7491(1)(A)

- No contamination present at site. 1-☒
- All contamination is below 15 feet prior to remedial activities. 2-☐
- All contamination is below six feet and an institutional control has been implemented, as required by WAC 173-340-440. 3-☐
- All contamination is below a site-specific point of compliance established in compliance with WAC 173-340-7490(4)(b) with an institutional control implemented as required by WAC 173-340-440. 4-☐

  Please provide documentation that describes the rational for setting a site-specific point of compliance.

2. BARRIERS TO EXPOSURE WAC 173-340-7491(1)(B)

- All contaminated soil is or will be covered by physical barriers that prevent exposure to plants and wildlife and an institutional control has been implemented, as required by WAC 173-340-440. 5-☐

  An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

3. Undeveloped land WAC 173-340-7491 (1)(c)

- There is less than one-quarter acre of contiguous undeveloped land on or within 500 feet of any area of the site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene. 6-☐

- For sites not containing any of the chemicals mentioned above, there is less than one-and-a-half acres of contiguous undeveloped land on or within 500 feet of any area of the site. 7-☐

"Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

"Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

4. Background concentrations WAC 173-340-7491 (1) (d)

- Concentrations of hazardous substances in soil do not exceed background levels as described in WAC 173-340-709. 8-☐

Explanation of Exclusion (If required):

If your site does not meet the TEE exclusions, you may have to conduct a simplified TEE in accordance with WAC 173-340-7492 or a site-specific TEE in accordance with WAC 173-340-7493. Please contact regional VCP staff with questions about conducting a simplified or site-specific TEE.

Ecology is an equal opportunity employer. For alternative format, please contact the Toxic Cleanup Program at (360) 407-7170 or 711 or 1-800-833-6388 (TTY).

Blc 000000 6638

PHOTO No. 12

DATE: 6/16/92

TIME: _____

TAKEN BY: B. Forson

WITNESS: _____

FILM: _____

CAMERA: _____

DESCRIPTION:

Unocal St # 6227
29625 Pacific Hwy
Federal Way

COMMENTS:

LUST 1622 unocal Station #6227
Federal way
UST 8504

PHOTO No. _____

DATE: _____

TIME: _____

TAKEN BY: _____

WITNESS: _____

FILM: _____

CAMERA: _____

DESCRIPTION:

COMMENTS:

UST NOTICE OF RELEASE

Complaint received by J Hedy ENVIRONMENTAL COMPLAINT FORM

008504
Inc# 1622

1. SPILL OR COMPLAINT (circle one)

2. DATE: 11-22-89
TIME: _____

3. COUNTIES (✓one)

Northwest	Southwest		Central	Eastern	
__ K2 King S.E.	__ CL Clallam	__ MA Mason	__ BE Benton	__ AD Adams	__ LI Lincoln
__ K1 King	__ CK Clark	__ PA Pacific	__ CH Chelan	__ AS Asotin	__ PO Pend Oreille
__ KI Kitsap	__ CO Cowlitz	__ PC Pierce	__ DO Douglas	__ CM Columbia	__ SP Spokane
__ SJ San Juan	__ GH Grays Harbor	__ SK Skamania	__ KL Klickitat	__ FE Ferry	__ ST Stevens
__ SK Skagit	__ JF Jefferson	__ TH Thurston	__ KI Kittitas	__ FR Franklin	__ WW Walla Walla
__ SN Snohomish	__ LE Lewis	__ WK Wahkiakum	__ OK Okanogan	__ GA Garfield	__ WH Whitman
__ WH Whatcom			__ YA Yakima	__ GR Grant	

4. COMPLAINTANT reporter
Name: Julia Fowler
Address: Geo Engineers
City: _____
Phone: 746-5200

5. ANONYMOUS
__ YES
__ NO

6. ALLEGED VIOLATOR
Name: UNOCAL
Address: _____
City: _____
Phone: _____

7. MEDIA CODE (✓one)
__ A Air
__ GW Ground Water
✓ S Soil
__ SW Surface Water
__ WR Water Right
__ O Other _____

8. MATERIAL CODE (✓one)
__ AC Aquaculture
__ AG Agriculture
__ HW Hazardous Waste
✓ OP Oil/Petroleum
__ SW Solid Waste
__ WW Wastewater
__ O Other _____

9. ECOLOGY 1st RESPONSE (✓one)
__ CU Cleanup
__ EA Enforcement
__ I Inspection
__ LW Letter Written
__ NA No Action
__ RE Referred
__ TC Telephone Call
__ O Other _____

COMMENTS: (Who, What, Where, When, Why and How) UNOCAL STA. # 6227

10. Where did the violation occur?: Street Pac. Hwy S. & Dash Pt. Rd.
City Seattle Fed. Way County King 29625 Pac. Hwy. S. 98003

Directions to place of incident: _____
Use reverse side for notes

Watercourse, if any _____

11. Description of damage (dead fish, etc.) tanks removed. Some cont. remains (500-14,000 ppm TPH) associated w/ waste and heating oil tanks under sldg. & pump island. Sending report for our opinion.

11. (cont.)

COMMENTS: (Who, What, Where, When, Why and How)

12. OUTSIDE REFERRAL (✓one)

__ CH County Health Department
__ CD Conservation District
__ EP E.P.A. (Federal)
__ CG U.S. Coast Guard
__ DS Washington State D.S.H.S.
__ O Other _____

Recorder: _____

13. REFERRED TO

Name _____ Phone _____ RESP. REQ. YES or NO

Name _____ Phone _____ YES or NO

Name _____ Phone _____ YES or NO

14. INVESTIGATOR: _____

15. HOURS SPENT: _____

16. DATE OF INVESTIGATION: _____

17. WATERWAY: _____ WDIS No: _____ EPA ID No: _____ WRIA No: _____

ATTACHMENTS: _____ PHOTOS: __ Yes __ No SIGNATURE: _____

DATE: _____ CC: _____

LUST INITIAL INVESTIGATION

Lust Incident No: 1622

Unocal Station # 6227
29625 Pacific Hwy South.
Federal Way, Washington

Initial investigation was conducted at the above referenced site by Ben Amoah-Forson on June 16, 1992.

Excavation cavity at the site has been backfilled and paved. Site is now being used as used car lot. (See pic. # 12)

BAF/bf.

Unocal Refining & Ma[redacted] Division
Unocal Corporation
100 W. Harrison, Suite 225
Seattle, Washington 98119
Telephone (206) 281-7666
Fax (206) 443-7561

RECEIVED
APR 23 1991
DEPT. OF ECOLOGY

UNOCAL 76

April 19, 1991

Department of Ecology
4350 150th Ave N.E.
Redmond, Washington 98504-5301
Attn: Joseph Hickey, LUST Inspector

Dear Mr. Hickey:

SERVICE STATION NO. 6227
SITE CLOSURE LETTER

Please review the cleanup and assessment report from GeoEngineers dated April 10, 1991 for station 6227, 29625 Pacific Highway S., Federal Way, and forward a site closure letter at your earliest convenience.

The transfer and sale of this property is pending receipt of your letter. Please call me at 443-7523 if you have any questions.

Yours truly,

V. L. Carlson
Maintenance Engineer

cc: J. E. Mason
R. D. Tackett
R. L. Folda
G. E. Gunderson
R. Gonzales

sent - jk

UNOCAL STA. #6227 / Dock M. Rdt.

Department of Ecology
Northwest Regional Office
Potential Site Contamination Questionaire
for SS6227

1.) What is your name? UNOCAL (V.L. CARLSON)
Address? P.O. BOX 76
SEATTLE, WA 98111

2.) Is there a telephone number you can be reached at?
Tel. # 206-443-7523 Best time(s)? 8:00AM to 4:00PM

3.) What is the location of the property?
Address 29625 - PACIFIC HWY SO. FEDERAL WAY, WA 98003
Legal Description SEE ATTACHED SHEET

4.) Who (what person, company) operates or has operated at the location? If past operator(s), indicate dates.

DELBERT J. JUMP

5.) Who is the owner of the property? UNOCAL
name
P.O. BOX 76, SEATTLE, WA. 98111
address city state zip

6.) What activities currently occur at the property?

GASOLINE SERVICE STATION

7.) Do you know anything about past business(es) and/or activities at the property ? NO

8.) Do you know of, or have any reason to suspect that there is, or has been any contamination of any kind at this location? explain

YES

Any petroleum or Hazardous contamination? YES

When did you first know or suspect this? WHEN REPLACING U.S. TANKS

Did you tell or notify anyone, then or later? YES

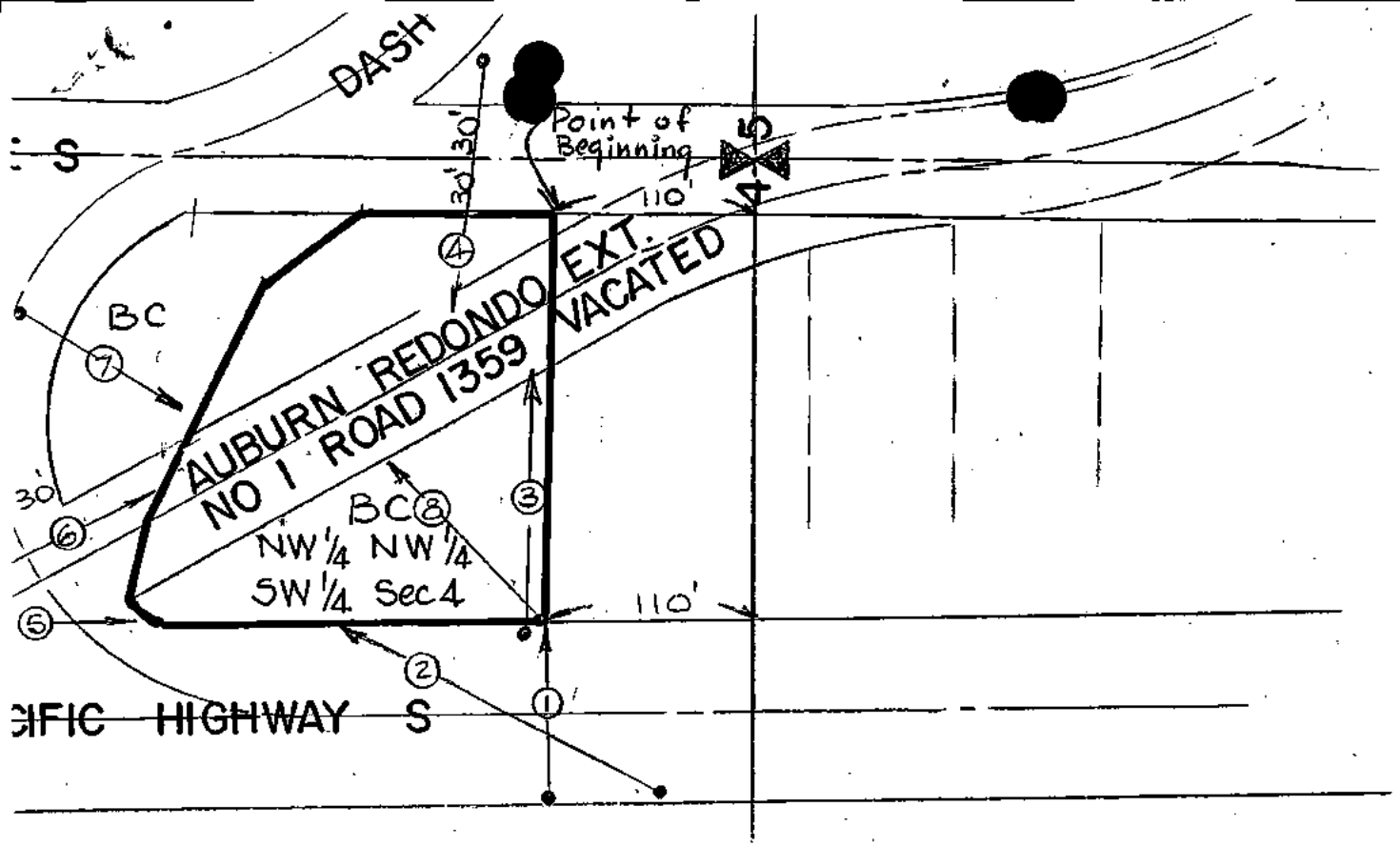
If so, who? D.O.E.
What agency? OLYMPIA, WA.

9.) Do you know of any investigation(s) or report(s) about, or conducted at the property? When and by whom? Nov. 1989 GEO ENGINEERS, 2405-140TH N.E, SUITE 105 BELLEVUE, WA 98005.

Please return questionaires and/or direct inquiries to:

Department of Ecology
Northwest Regional Office
4350-150th Ave N.E.
Redmond, WA 98052-5301
Attn: Norm Peck

Call: (206) 867-7047
SCAN 731-7047



Legal Description:

THAT PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER SECTION 4, TOWNSHIP 21 NORTH, RANGE 4 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF THE NORTH 110 FEET OF SAID SUBDIVISION WITH THE EAST LINE OF THE WEST 30 FEET THEREOF; THENCE SOUTHERLY ALONG SAID EAST LINE 105 FEET MORE OR LESS, TO THE NORTHERLY LINE OF THE SOUTHERLY PORTION OF A TRACT CONVEYED TO KING COUNTY FOR ROAD BY DEED RECORDED UNDER AUDITOR'S FILE NO. 6207860; THENCE ALONG SAID NORTHERLY LINE SOUTH 36°56'16" EAST 65 FEET; THENCE SOUTH 63°36'30" EAST TO THE CENTER LINE OF AUBURN-REDONDO EXT NO. 1 ROAD AS CONVEYED TO KING COUNTY BY DEED RECORDED UNDER AUDITOR'S FILE NO. 2501551; THENCE SOUTHEASTERLY TO THE INTERSECTION OF THE EASTERLY LINE OF SAID AUBURN-REDONDO EXT NO. 1 ROAD WITH THE NORTHERLY LINE DES MOINES-PIERCE COUNTY ROAD; THENCE EASTERLY ALONG SAID NORTHERLY LINE TO THE WESTERLY LINE OF PACIFIC HIGHWAY SOUTH; THENCE NORTHERLY ALONG SAID WESTERLY LINE TO THE SOUTH LINE OF THE NORTH 110 FEET OF SAID SOUTHWEST QUARTER; THENCE WESTERLY TO THE POINT OF BEGINNING.