



Property Solutions INC.
Environmental & Engineering Consulting

PHASE I ENVIRONMENTAL ASSESSMENT

of

Convenience Retailers, LLC Station No. 2702840
Site No: 2702840
12807 Des Moines Memorial Drive
Seattle, King County, WA 98168
BOA Project Number: 14-005522-ENV02-001

Prepared for:

Bank of America, NA
3985 Sugarloaf Parkway
Lawrenceville, Georgia 30044

Prepared by:

Property Solutions Inc.
31A Northfield Avenue
Edison, NJ 08837

Date: September 23, 2014

Property Solutions Project No. 20143047



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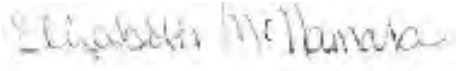
Dated: September 23, 2014

Property Solutions Project No. 20143047

Betsy McNamara
Environmental Scientist

Donald P. Hessemer, CHMM
Regional Director

We declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in 312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

A handwritten signature in blue ink that reads "Betsy McNamara".

Betsy McNamara
Environmental Scientist

A handwritten signature in blue ink that reads "Donald P. Hessemer".

Donald P. Hessemer, CHMM
Regional Director

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Project Summary

Client Name/User:	Bank of America, NA	Property Visit Date:	08/20/2014
Client Contact:	Lillias Short	Construction Date(s):	1966
Project Number:	2702840	No. Bldgs./Units:	One
Project Manager:	Donald P. Hessemer, CHMM	No. of Stories:	One
Phone No.:	732.417.0999	Bldg. Sq. Footage:	1,512 s.f
Email:	dhessemer@propertyolutionsinc.com	Property Acreage:	0.30 acre (Pierce County Assessor)
Property Name:	Convenience Retailers, LLC		acres
	Station No. 2702840	Basement/Slab-on-grade:	Slab-on-grade
Property Address:	12807 Des Moines Memorial Drive	Property Use:	Convenience store and filling station
Property Town, County, State:	Seattle, King, WA	Property History:	Unimproved land
Property Identification:	162304-9066 (King County Assessor)	Other Improvements:	Canopy over the gas pumps

Our review of general property information, observation of adjacent properties, research of historical property information, including a review of environmental records, and a property visit revealed the following:

	No Issue Identified	REC	CREC	HREC	De Minimis Condition	ASTM Non-scope Considerations	Refer to Section
Property Operations		(1)					2.4
Neighboring Properties							2.2
Historical Review		(2)					4.4.2
Previous Reports		(3)					4.5
Regulatory Review							4.3.2
Underground Storage Tanks		(4)					4.1.1.1
Aboveground Storage Tanks							4.1.1.3
PCBs							4.1.1.4
Chemicals / Hazardous Materials / Raw Materials							4.1.1.6
Waste Generation / Disposal							4.1.1.7
Stressed Vegetation, Staining, and Odors							4.1.1.11
Surficial Disturbances							4.1.1.12
Radon							4.1.2.1
Lead-Based Paint							4.1.2.2
Lead in Drinking Water							4.1.2.3
Potential Mold/Moisture							4.7
Asbestos-Containing Materials						(5)	4.6
Other							

Project Summary

We have performed a Phase I Environmental Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of Convenience Retailers, LLC Station No. 2702840 located at 12807 Des Moines Memorial Drive in Seattle, King County, WA 98168. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

REC

(1) Due to ongoing release investigations on the subject property as discussed below, there is a potential vapor intrusion risk to the subject property.

(2) According to previous reports for the subject property, the subject property was developed as a gasoline station in 1966. A release of gasoline and oil was discovered during removal of three gasoline USTs, one heating oil UST, and one used oil UST in 1990, when the three current USTs were installed. Subsequent remediation efforts were conducted, including removal of impacted soil, installation of perforated piping in the impacted areas, and reported installation of two soil vapor extraction wells. No groundwater was encountered on the subject property, with the exception of a perched layer identified during one of the soil excavation events. A sump was installed in the area where groundwater was identified. Approximately 150 gallons of water was removed and was attributed to stormwater seepage. The sump was subsequently removed. Based on soil samples obtained from the excavation, constituents of concern remain on the subject property in excess of Model Toxic Control Act (MCTA) Method A cleanup criteria. No further investigations have been conducted on the subject property since 1997. The presence of constituents of concern in excess of cleanup criteria is a Recognized Environmental Concern.

(3) The subject property has been developed with gasoline station operations since 1966 that included auto repair and maintenance activities. On maintenance bay was reported in previous reports for the subject property. Previous operations would have included the use of petroleum products and degreasers. Virgin and waste automotive fluids would have been stored and generated at the property. As no documentation was available investigating these former potential features associated with automotive repair operations indicating removal and/or environmental impact the former use of the subject property is a Recognized Environmental Condition.

(4) The subject property is currently improved with three gasoline underground storage tanks (USTs). During the property visit, Property Solutions was provided with a print out from the leak detection system installed at the subject property. Review of the print out indicates that the system is operational. Based upon a review of compliance information, UST system information, and other compliance testing information, no issues of concern were identified, and the UST systems are tight and appear to be operating properly. The UST systems are reported to be over 15 years old; however, as indicated above, in adequate operating condition. Based upon the above information, USTs are not expected to be an environmental concern at this time; however, due to age of the systems, are considered more of a material threat of a potential release due to age, even though the systems are operating properly. Therefore, due to age of the systems they are considered a recognized environmental condition, but should continue to operate with constant surveillance and system testing.

ASTM Non-scope Considerations

(5) Based on the limited visual review conducted by Property Solutions, suspect and presumed asbestos-containing ceiling tile, floor tile and mastic, and drywall and joint compound were identified at the subject property. These materials were observed to be in an overall undamaged condition at the time of the property visit.

Currently, there are no regulations requiring the removal of ACM unless it will be disturbed during renovation, repairs, or demolition. The USEPA recommends that as long as the ACM does not pose an imminent health threat, the materials can be managed in place with an Operation & Maintenance Plan.

EXECUTIVE SUMMARY

Property Solutions Incorporated (Property Solutions) conducted a Phase I Environmental Assessment of the Convenience Retailers Site No. 2702840 located at 12807 Des Moines Memorial Drive in Seattle, King County, WA 98168 (subject property) at the request of Bank of America, NA.

The subject property consists of a rectangular-shaped, 0.30-acre parcel of land located on the southwest corner of the intersection of Des Moines Memorial Drive and 128th Street SW. The subject property is improved with one, one-story convenience store building with associated pump island canopy constructed in 1966 (subject building). The subject property is also improved with three underground storage tanks (USTs) and two dispensers. There are no other improvements on the subject property. The remaining portions of the subject property are covered with the associated paved parking areas. No water bodies are located on the subject property or adjoining properties. Vehicular access to the subject property is from the east via Des Moines Memorial Drive and from the north via 128th Street SW.

The subject building consists of masonry construction with slab-on-grade foundation. The gross area of the subject building is approximately 1,512 square feet with vinyl floor tile, wallpaper over drywall and suspended ceiling tiles. The convenience store building also contains storage areas, cold storage, and restroom facilities. The subject building is heated and cooled by an electric rooftop heat pump and compressor.

The subject property was historically residential from prior to 1956, until the current improvements were constructed in 1966. Five of the original USTs were removed in 1990, and the three current USTs were installed. Releases of oil and gasoline to soil were identified during the UST closures. Subsequent investigations and remediation activities included excavation of impacted soil, installation of perforated pipe in the excavation, and reported installation of two soil vapor extraction wells. No activities have been conducted on the subject property since 1997, and the release remains open and designated as "cleanup started" on WDOE databases.

We have performed a Phase I Environmental Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the Convenience Retailers, LLC Station No. 27022840 located at 12807 Des Moines Memorial Drive in Seattle, King County, WA 98168. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property, except for the following:

1. Due to ongoing release investigations on the subject property as discussed below, there is a potential vapor intrusion risk to the subject property.
2. According to previous reports for the subject property, the subject property was developed as a gasoline station in 1966. A release of gasoline and oil was discovered during removal of three gasoline USTs, one heating oil UST, and one used oil UST in 1990, when the three current USTs were installed. Subsequent remediation efforts were conducted, including removal of impacted soil, installation of perforated piping in the impacted areas, and reported installation of two soil vapor extraction wells. No groundwater was encountered on the subject property, with the exception of a perched layer identified during one of the soil excavation events. A sump was installed in the area where groundwater was identified. Approximately 150 gallons of water was removed and was attributed to stormwater seepage. The sump was subsequently removed. Based on soil samples obtained from the excavation, constituents of concern remain on the subject property in excess of Model Toxic Control Act (MCTA) Method A cleanup criteria. No further investigations have been conducted on the subject property since 1997. The presence of constituents of concern in excess of cleanup criteria is a Recognized Environmental Concern.
3. The subject property has been developed with gasoline station operations since 1966 that included auto repair and maintenance activities. On maintenance bay was reported in previous reports for the subject property. Previous operations would have included the use of petroleum products and degreasers. Virgin and waste automotive fluids would have been stored and generated at the property. As no documentation was available investigating these former potential features associated with automotive repair operations indicating removal and/or environmental impact the former use of the subject property is a Recognized Environmental Condition.

4. The subject property is currently improved with three gasoline underground storage tanks (USTs). During the property visit, Property Solutions was provided with a print out from the leak detection system installed at the subject property. Review of the print out indicates that the system is operational. Based upon a review of compliance information, UST system information, and other compliance testing information, no issues of concern were identified, and the UST systems are tight and appear to be operating properly. The UST systems are reported to be over 15 years old; however, as indicated above, in adequate operating condition. Based upon the above information, USTs are not expected to be an environmental concern at this time; however, due to age of the systems, are considered more of a material threat of a potential release due to age, even though the systems are operating properly. Therefore, due to age of the systems they are considered a recognized environmental condition, but should continue to operate with constant surveillance and system testing.

The following ASTM non-scope consideration was identified at the subject property based on the findings provided in this report:

5. Based on the limited visual review conducted by Property Solutions, suspect and presumed asbestos-containing ceiling tile, floor tile and mastic, and drywall and joint compound were identified at the subject property. These materials were observed to be in an overall undamaged condition at the time of the property visit.

Currently, there are no regulations requiring the removal of ACM unless it will be disturbed during renovation, repairs, or demolition. The USEPA recommends that as long as the ACM does not pose an imminent health threat, the materials can be managed in place with an Operation & Maintenance Plan.

1.0 INTRODUCTION

Property Solutions Incorporated (Property Solutions) conducted a Phase I Environmental Assessment of the Convenience Retailers LLC Site No. 2702840 located at 12807 Des Moines Memorial Drive in Seattle, King County, WA 98168 (subject property) at the request of Bank of America. Bank of America is considered the User, as defined in ASTM E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The subject property is identified as 162304906603, according to the King County Assessor.

A property location map is included in Appendix A.

This Phase I Environmental Assessment was conducted in general accordance with Bank of America, NA's General Services Agreement Number CW481009 dated November 12, 2013. The work was authorized by the Standard Engagement Letter (SEL) dated July 18, 2014.

Per the ASTM practice and throughout this report, the Client will be considered the same as the User in the ASTM E 1527-13 practice.

1.1 Purpose

The purpose of a Phase I Environmental Assessment is to evaluate issues that may have an impact on the subject property and to meet the purpose of Bank of America, NA's General Services Agreement Number CW481009 dated November 12, 2013 and the ASTM E 1527-13 practice. The purpose is further described in Section 8.4. This report is for the purpose of determining whether to make a loan evidenced by a note secured by the property.

1.2 Scope of Work

This Phase I Environmental Assessment was conducted in accordance with Bank of America, NA's General Services Agreement Number CW481009 dated November 13, 2013.

1.3 Significant Assumptions

The significant assumptions made by Property Solutions in this report are per Bank of America, NA's General Services Agreement Number CW481009 dated November 12, 2013, ASTM E 1527-13 practice, and as described further in Section 8.5.

1.4 Special Terms and Conditions

This Phase I Environmental Assessment was prepared in accordance with the stated and agreed upon Scope of Work. This Phase I Environmental Assessment was prepared in accordance with Bank of America, NA's General Services Agreement Number CW481009 dated November 12, 2013. Special terms and conditions are described in Section 8.6.

1.5 Reliance

Bank of America, N.A. as Agent, its employees, agents, successors and assigns may rely upon this report in evaluating a request for an extension of credit to be secured by the subject property. This report may also be used and relied upon by (a) any additional lender extending credit to be secured by the subject property (the credit to be extended by Bank of America, N.A. and such additional lender is referred to as the (Mortgage Loan") and (b) any actual or prospective purchaser, transferee, assignee, or servicer of the Mortgage Loan (or any portion thereof), any actual or prospective investor (including agent or advisor) in any securities evidencing a beneficial interest in or backed by the Mortgage Loan (or any portion thereof), any rating agency actually or prospectively rating any such securities, any indenture trustee, and any institutional provider(s)

from time to time of any liquidity facility or credit support for such financing. In addition, this report or a reference to this report may be included or quoted in any offering circular, private placement memorandum, registration statement or prospectus and Property Solutions agrees to cooperate in answering questions by any of the above parties in connection with a securitization or transaction involving the Mortgage Loan (or any portion thereof) and/or such securities. This report has no other purpose and should not be relied upon by any other person or entity.

1.6 Data Gaps

Data gaps-

- Incomplete User Questionnaire
- Historical (data failure)
- Title information not provided by User

The above identified data gaps are not significant.

2.0 GENERAL PROPERTY CHARACTERISTICS

2.1 Property Location

Property Location	
Property Name	Convenience Retailers, LLC Station No. 2702840
Street Address	12807 Des Moines Memorial Drive
City	Seattle
State	WA
County	King
Zipcode	98168
Property Identification	162304-9066 (King County Assessor)

The subject property is identified as 162304-9066 by the King County Assessor. An excerpt from the USGS 7.5-minute series topographic quadrangle map of Des Moines, Washington, locating the subject property, is included in Appendix A. The nearest intersection to the subject property is the intersection of Des Moines Memorial Drive and 128th Street SW. The subject property is located in a suburban, commercial area of Seattle.

2.2 Adjacent Properties

Review of adjoining properties from the subject property and from public thoroughfares, and research of available information regarding the adjoining properties, were performed to identify evidence of environmental concerns that could adversely impact the subject property.

Direction	Property	Address	Operations
North	128th Street SW Highline Fire Department	N/A 1606 128th Street SW	Public roadway Fire department
Northeast	Despresso	12653 Des Moines Memorial Drive	Coffee shop
South and West	Vacant building and unimproved lot	12825 Des Moines Memorial Drive	Vacant commercial building
East	Des Moines Memorial Drive North Seatac Park	N/A Not identified	Public roadway Public park

A property diagram including neighboring properties is included in Appendix B. Photographs including the neighboring properties are included in Appendix C.

Based on a review of neighboring properties from the subject property and from public thoroughfares, the neighboring properties do not appear to be of the type likely to pose a significant threat to the environmental condition of the subject property. The neighboring properties were not listed in the environmental database reviewed or Envirofacts.

A property diagram including adjoining properties is included in Appendix B. Photographs including the adjoining properties are included in Appendix C.

2.3 Property Description

Property Information	
Property Ownership Name	PCF Acquisition Co., LLC (King County Assessor)
Date of Acquisition	2009 (King County Assessor)
Property Acreage	0.30 acre (Pierce County Assessor)
Property Shape	Rectangular
Property Use	Convenience store and filling station
Property History	Unimproved land

Vehicular Access	From the east off Des Moines Memorial drive and from the north off 128th Street SW.
Other Improvements	Canopy over the gas pumps
Property Coverage	Footprint of the subject buildings, associated parking areas, and limited landscaping

Building Information	
Number of Buildings	One
Number of Stories	One
Construction Date(s)	1966
Building Square Footage	1,512
Basement / Slab-on-grade	Slab-on-grade
Ceiling Finishes	Acoustic ceiling tile
Floor Finishes	Vinyl floor tile, ceramic tile, concrete
Wall Finishes	Drywall
HVAC (Energy Source & Type of System)	Rooftop electric heat pump and compressor
Emergency Power	None
Renovation Date(s)	None identified
Renovation Description	Not applicable

A property diagram of the subject property is included in Appendix B.

2.4 Property Operations

The subject property is utilized as a gasoline station with convenience store. The gasoline sales include three grades of gasoline. Diesel fuel is not included in petroleum sales. The convenience store sells coffee, drinks, chips, candy, food, dairy products and pre made sandwiches amongst other products. Other than the storage and sales of bulk quantities of gasoline, no concerns were identified with the convenience store sales. Specifics about the gasoline station are included in section 4.1.1.

No industrial or manufacturing operations were observed at the subject property at the time of the property visit.

No recognized environmental conditions were identified at the subject property based on the operations observed during the property visit with the exception of the storage and sale of bulk quantities of petroleum products.

2.5 Utilities

Property Solutions was informed by Mr A. Karim, of My Goods Market, that the following companies and municipality or authorities currently provide utility services to the subject property:

Utility	Provider
Electricity	Seattle City Light
Natural Gas	Not provided
Sanitary Sewerage	Seattle Public Utilities
Potable Water	Seattle Public Utilities
Solid Waste Removal	Recology
Fuel Oil	Not provided
Steam	Not provided

3.0 ENVIRONMENTAL SETTING

3.1 Regional Physiographic Conditions

Regional Physiographic Conditions	
Topographic Quadrangle Name	Des Moines, Washington
Property Elevation	375 feet above mean sea level
Surface Gradient	Level with adjacent properties
Property Drainage	To storm sewer manholes located in the paved portions of the property and along the adjacent roadways
Regional Drainage	Easterly toward the Dumamish River located approximately 1.5 miles east of the subject property
Closest Perennial Water body	Dumamish River

A copy of the USGS 7.5-minute series topographic quadrangle map of Des Moines, Washington, is included in Appendix A.

3.2 Soil Conditions

USDA County Soil Survey	
Source/Soil	Description
Information Source	USDA Web Soil Survey Website (http://websoilsurvey.nrcs.usda.gov/app/) and EDR
Date of Information Source	2013
Soil Name	Alderwood
Description	Moderately deep to a densic contact, moderately well drained soils formed in glacial drift, on glacially modified foothills and valleys.
Expected depth to bedrock	Greater than 80 inches

Based upon a review of available reports provided and further discussed in section 4.5 of this report, soils identified at the subject property consisted of two separate units. The upper soil unit was characterized as tan to brown silty fine to medium sand with gravel and occasional cobbles and silt lenses ranging in depth from 1-27 feet bgs, underlain by tan fine to medium sand with silt to at least 45 feet bgs. Groundwater was not encountered in any of the borings. Bedrock was not encountered to a depth of 55 feet below ground surface which was the depth of the deepest well or soil boring advanced at the subject property.

3.3 Geologic Conditions

Geologic Conditions	
Information Source	U.S. Geological Survey
Title of Publication	Physiographic Regions of the United States
Date of Publication	April 2003
Name of Unit	Puget Trough
Description of Unit	Sorted combinations of silt, sand, and gravel deposited in streambeds and alluvial fans; locally includes alpine drift, peat, lacustrine, landslide, lahar, and rare loess deposits.

3.4 Groundwater Conditions

Groundwater Conditions	
Information Source	U.S. Geological Survey
Title of Publication	U.S. Geological Survey
Date of Publication	1994

Underlying Aquifer	Puget-Willamette Trough Regional Aquifer System
Description	unconsolidated-deposit aquifers consist chiefly of glacial deposits.

Groundwater Conditions	
Expected Depth to Shallow Groundwater	200-250 feet below ground surface
Information Source	Des Moines, Washington topographic map
Expected Direction of Shallow Groundwater Flow	Easterly
Information Source	Des Moines, Washington topographic map

4.0 RESULTS OF INVESTIGATION

4.1 Property Visit Observations

Property Visit Observations	
Property Visit Date	August 20, 2014
Property Solutions Personnel and Title	Betsy McNamara, CHMM
Property Escort Name	Mr. A. Karim
Property Escort Title	Station Manager
Property Escort Company	My Goods Market
Property Escort Affiliation	Key site manager
Property Escort Years of Association with Subject Property	10 years
Key Site Manager Questionnaire Completed	No
Person Completing KSM questionnaire Name	Not applicable
Person Completing KSM questionnaire Company	Not applicable
Person Completing KSM questionnaire Affiliation	Not applicable
Inaccessible Areas and Reason	None
Weather Conditions	Overcast
Approximate Temperature	85 degrees F
Weather Conditions Limited Observations	None
Describe Limiting Conditions Present	None

Property Solutions observed the following areas during the property visit:

- Convenience Store customer areas
- Convenience Store stockroom areas
- Bathrooms
- Pumps
- General property area
- Dumpster area
- Exterior grounds including the periphery of the subject property and subject building
- Adjoining properties from public rights-of-way

Photographs taken during the property visit are included in Appendix C.

4.1.1 ASTM Scope Considerations

4.1.1.1 Underground Storage Tanks

The table below is a list of current and previous underground storage tanks (USTs) identified at the subject property:

Property Solutions' visual review of accessible areas of the UST systems indicated that the piping material of construction indicated above was consistent with those areas observed.

UST No.	Capacity (gallons)	Contents	Material of Construction	Date	Leak Detection	Corrosion Protection	Spill/Overfill	Registered	Status
01	10,000	Gasoline	Steel	1990	Yes	Yes	Yes	Yes	Active
02	10,000	Gasoline	Steel	1990	Yes	Yes	Yes	Yes	Active
03	10,000	Gasoline	Steel	1990	Yes	Yes	Yes	Yes	Active
04	550	Heating oil	Steel	1964	Unknown (UNK)	Unknown (UNK)	Unknown (UNK)	Yes	Removed

UST No.	Capacity (gallons)	Contents	Material of Construction	Date	Leak Detection	Corrosion Protection	Spill/Overfill	Registered	Status
05	300	Used oil	Steel	1964	Unknown (UNK)	Unknown (UNK)	Unknown (UNK)	Yes	Removed
06	8,000	Gasoline	Steel	1964	Unknown (UNK)	Unknown (UNK)	Unknown (UNK)	Yes	Removed
07	8,000	Gasoline	Steel	1964	Unknown (UNK)	Unknown (UNK)	Unknown (UNK)	Yes	Removed
08	10,000	Gasoline	Steel	1964	Unknown (UNK)	Unknown (UNK)	Unknown (UNK)	Yes	Removed

Date - Date of installation
CIP - Closed in place

UNK - Unknown

ACT - Active

NIU - Not in use

REM - Removed

UST No.	Location/Formal Location	Use/Formal Use of Tank
01	Northeastern portion of the subject property	Fuel storage
02	Northeastern portion of the subject property	Fuel storage
03	Northeastern portion of the subject property	Fuel storage
04	Western portion of the subject property	Heating oil storage
05	Western portion of the subject property	Used oil storage
06	Unknown	Fuel storage
07	Unknown	Fuel storage
08	Unknown	Fuel storage

Information on the UST piping is as follows:

UST No.	Material of Construction	Date	Leak Detection	Corrosion Protection
01	Fiberglass clad steel	1990	Yes	Fiberglass
02	Fiberglass clad steel	1990	Yes	Fiberglass
03	Fiberglass clad steel	1990	Yes	Fiberglass
04	Steel	1964	UNK	UNK
05	Steel	1964	UNK	UNK
06	Steel	1964	UNK	UNK
07	Steel	1964	UNK	UNK
08	Steel	1964	UNK	UNK

Additional Information	
Area Observed	Description
Car Wash	No
Grit trap/clarifier for Car Wash	No
Recycled water system	No
Former Car Wash	None
Grease Trap for Kitchen Convenience store	No
Auto Service/Repair - Current	No
Number of Service Bays	None
Oil/Water Separator	Yes-Stormwater
Oil/Water Separator discharge receptor	Storm sewer
Trench Drains	No
Hydraulic in-ground lifts	No
Former Hydraulic in-ground lifts	Unknown
Former on property Auto service/repair	Yes-based on former presence of used oil UST

Area Observed	Description
Number of former service bays	One reported in previous report
Number current pump islands	Two
Number current dispensers	Two
Fuel Grades	Gasoline: Unleaded regular, midgrade, and premium
Significant Staining/Leakage at pump dispensers	No
Significant staining/Leakage in pits	No
Significant staining/Leakage - other	No
Previous USTs at the property	Yes
Monitoring Wells present	Yes-two (Probably the two soil vapor extraction wells documented in previous reports)
Observation Wells present	MNo
UST systems checked during property visit (print out or system check)	Yes
Remediation System on property	SVE wells and piping reportedly installed. Tested in 1997. Not used
Ongoing Investigation	Yes
EDR Well Database- property listings	No

General Compliance Information	
Item	Date and Details
Last Annual System Inspection	December 5, 2013
Inspection Company Name	SME Solutions LLC
Leak Detection System Check	December 5, 2013-passed
Cathodic Protection System Check- USTs	Not Applicable-Fiberglass clad
Cathodic Protection System Check- Lines	Not Applicable-Fiberglass clad
Tank Integrity Test	December 5, 2013-passed
Line Integrity Test	December 5, 2013-passed
Corrosion ? Cathodic Protection system check	Not required
Spill/Overfill Bucket Test	December 5, 2013-passed
Sumps Test	December 5, 2013-passed
Last Regulatory Agency Compliance Inspection	Not Reported
Open Violations/Compliance issues Reported	None Reported

USTs are regulated in the State of Washington by the State of Washington Department of Ecology (DOE) under Chapter 90.76 RCW and Chapter 173-360 WAC, Underground Storage Tank Statute and Regulations.

Underground Storage Tank Federal Regulations are included in 40 CFR Part 280.

The subject property currently performs no maintenance and repair on automobiles. The property does not collect or generate waste automotive fluids. Periodic minor spill waste may be generated (from accidental gasoline spills) but is appropriately handled.

The subject property previously operated as a service station with known or suspected auto maintenance. Previous reports and historical information indicate the property reportedly had at least maintenance bays.

Previous operations may have included the use of hydraulic lifts, an oil-water separator or clarifier, trench drain, drains and auto maintenance. Virgin and waste automotive fluids would have been stored and generated at the property.

As no documentation investigating these former potential features associated with automotive repair operations indicating removal and/or environmental impact the former use of the subject property is a Recognized Environmental Condition.

Potential Vapor Encroachment

The subject property operates as a gas station with convenience store. As such, property employees work in and around gasoline and petroleum products as part of their daily duties.

Based upon the information provided during this Phase I Environmental Assessment the subject property is undergoing investigation for contamination in soil; therefore, a potential vapor encroachment condition exists.

Based upon a review of compliance information, UST system information and UST system tightness and other compliance testing information, no issues of concern were identified and the UST systems are tight and appear to be operating properly.

The UST systems are reported to be over 15 years old however but as indicated above in adequate operating condition.

Based upon the above information, USTs are not expected to be an environmental concern at this time however due to age of the systems, are considered more of a material threat of a potential release due to age even though the systems are operating properly. Therefore, due to age of the systems they are considered a recognized environmental condition, but should continue to operate with constant surveillance and system testing.

4.1.1.2 Oil and Gas Wells and Pipelines

No evidence of existing or historic high pressure natural gas or liquid petroleum transmission pipelines or wells was observed on the Subject Property. Review of available property maps and other research materials did not reveal the presence of existing or historic easements for high pressure natural gas or liquid petroleum transmission pipelines or wells on the Subject Property.

No further action is recommended.

4.1.1.3 Aboveground Storage Tanks

No aboveground storage tanks (ASTs) were observed on the subject property during the property visit. Mr. Karim was not aware of ASTs on the subject property.

Based upon the above information, ASTs are not expected to be an environmental concern at this time.

4.1.1.4 Polychlorinated Biphenyl-Containing Electrical Equipment

A visual review was conducted for the presence of electrical equipment that could contain polychlorinated biphenyls (PCBs), an environmentally regulated material used in dielectric fluid in some electrical equipment. Seattle City Light provides electrical service to the subject property.

The following table identifies the transformer observed on the subject property during the property visit:

According to a response from Seattle City Light, the transformer contains less than 1 part per million PCBs. No spills or leaks were observed in the area of the transformer. This transformer is not expected to be an environmental concern at the subject property.

Location	Type of Equipment	Owner	PCB Labels	Utility Company Markings	Staining/ Leaking
Northeastern portion of the subject property	Transformer(s)	Seattle City Light	No-transformer reported by owner to contain <1 ppm PCBs	Yes	No

4.1.1.5 Hydraulic Equipment

No evidence of hydraulic equipment was observed on the subject property during the property visit. Mr. Karim not aware of hydraulic equipment on the subject property.

Based upon the above information, hydraulic equipment is not expected to be an environmental concern at this time.

4.1.1.6 Chemical, Hazardous Materials, and Raw Materials Storage and Usage

Chemicals stored on the subject property are minimal quantities of domestic cleaning chemicals and paints. Based on observations made during the property visit, they are not expected to be an environmental concern at this time.

Based upon the above information, chemicals, hazardous materials, and raw materials are not expected to be environmental concerns at this time.

4.1.1.7 Waste Generation, Storage, and Disposal

Solid waste generated at the subject property consisted of domestic municipal waste and recyclable materials. Solid waste at the subject property is stored in a dumpster located on the subject property. Municipal solid waste generated at the subject property is removed by Waste Management. Sanitary waste generated at the subject property is discharged to the Seattle sanitary sewerage system.

Based upon the above information, no further action is recommended.

4.1.1.8 Wells, Sumps, Pits, and Floor Drains

No sumps or pits were observed on the subject property during the property visit. Mr. Karim was not aware of sumps, or pits on the subject property.

Two monitoring wells were observed during the property visit. These wells are associated with the remediation activities that have been conducted on the subject property, and are likely the two SVE wells installed to remediate soil. No information regarding well construction was readily available for review.

Floor drains were located in the convenience store restrooms and back room. No staining was observed around or near the drains. Chemical storage was/was not observed in the proximity of the floor drains. According to Mr. Karim, the floor drains discharge to the municipal sewer system. No concerns were identified with regard to the floor drains located in the subject buildings.

Based upon the above information, no further action is recommended.

4.1.1.9 Stormwater Runoff and Surface Water

The subject property is improved with the footprint of the subject buildings and associated paved parking areas. The remainder of the subject property consists of limited landscaped areas. Stormwater runoff is expected to exit the subject property via overland flow and enter the stormwater collection system via storm drains located within the subject property's parking areas. The stormwater discharges to a separator prior to entering the municipal stormwater system. Stormwater is also expected to percolate through the landscaped areas.

No surface water bodies (i.e., springs or swamps) were observed on the subject property.

Based upon the above information, stormwater runoff and surface water are not expected to be environmental concerns at this time. No further action is recommended at this time.

4.1.1.10 Lagoons, Ponds, Septic Systems, and Separators

A separator was observed on the northeast side of the subject property. The purpose of the separator is to provide separation of solids from stormwater prior to entry to the municipal system. According to Mr. Karim, sludge that collects in the car wash floor drains and separator is pumped on an as-needed basis by Marine Vacuum.

Based upon the above information, the separator is not expected to be an environmental concern at this time.

4.1.1.11 Stressed Vegetation, Staining, and Odors

No evidence of stressed vegetation, staining, or odors was noted on the subject property during the property visit.

Based upon the above information, no further action is recommended.

4.1.1.12 Surficial Disturbance

No evidence of surficial disturbances was observed on the subject property during the property visit.

Based upon the above information, no further action is recommended.

4.1.1.13 On-Property Dry Cleaners

No dry cleaning operations were observed at the subject property at the time of the property visit. Mr. Karim was not aware of dry cleaning operations at the subject property.

No dry cleaners were identified during the historical review of the subject property. Mr. Karim was unaware of historical dry cleaning operations at the subject property.

4.1.2 ASTM Non-Scope Considerations

During the property visit and investigation the below ASTM Non-Scope considerations were reviewed. Visual evidence of the below ASTM Non-Scope considerations were evaluated during the property visit. In addition, the Key Site Manager was questioned about the presence of the below ASTM Non-Scope items.

No issues of concern were noted during the property visit.

4.1.2.1 Radon

The subject property is located in Zone 3 (Low Potential) per the USEPA's Map of Radon Zones. According to the EDR database report, the mean value was 0.100 picoCuries per Liter (pCi/L). The USEPA action level is 4.0 pCi/L.

Based on the non-residential use and slab on grade construction of the subject building, no further action regarding radon is recommended at this time.

4.1.2.2 Lead-Based Paint

Based on the date of construction of the subject building (1966), there is a potential that lead-based paints (LBPs) were used during building construction. This section is for overview purposes only and was not a lead evaluation or comprehensive survey for regulatory submission or predemolition/renovation.

Painted surfaces within the subject building were generally observed to be in an undamaged condition. Apparent renovations have been performed at the property, based upon visual review of interior areas of the convenience store.

Based upon subject property use, and overall condition of painted surfaces in accessible areas to customers, lead based paint is not a concern to the property at this time.

4.1.2.3 Lead in Drinking Water

Drinking water for the subject property is provided by Seattle Public Utilities. Seattle Public Utilities was required to perform system-wide lead screening of their water system starting in 1992, under the USEPA "Lead and Copper Regulations" (Federal Register Volume 56, No. 26460). These regulations, promulgated in June 1991, require public water systems to perform screening and provide for public notification and corrective action to reduce the lead hazards present in the water system.

According to the Seattle Public Utilities 2013 Water Quality Report, the Seattle public water supply has met the 90th percentile for the lead action level of 15 parts per billion (ppb), and is currently in compliance with the USEPA's Lead and Copper Regulations.

4.1.2.4 Potential Wetlands

No evidence of wetland areas was observed on the subject property during the property visit. Review of the United States Department of the Interior, National Wetland Inventory map of Des Moines, Washington, revealed that no delineated wetlands are located on the subject property.

Based upon the above information, wetland areas are not expected to be an environmental concern at this time. No further action is recommended.

A copy of the wetland map is included in Appendix A.

4.1.2.5 Air Emissions

No major air emissions sources were identified at the subject property during the property visit.

Based upon the above information, air emissions are not considered a significant environmental concern at this time. No further action is warranted at this time.

No indoor air quality complaints were reported during the investigation by the Key Site Manager.

4.2 Adjacent Property and Vicinity Observation

Review of neighboring properties from the subject property and from public thoroughfares, and research of available information regarding the neighboring properties, were performed to identify evidence of environmental concerns that could adversely impact the subject property. The subject property is located in a commercial area of Seattle, Washington.

Based on a review of neighboring properties from the subject property and from public thoroughfares, the neighboring properties do not appear to be of the type likely to pose a significant threat to the environmental condition of the subject property. The neighboring properties were not listed in the environmental database reviewed or Envirofacts. The adjacent properties are further discussed in Section 2.2.

4.3 Results of Regulatory Agency List Review and File Research

4.3.1 USEPA Envirofacts

Property Solutions contacted the United States Environmental Protection Agency (USEPA) through an on-line search via the Internet to obtain information concerning the subject property. Property Solutions performed a search of Envirofacts, a USEPA-generated website that integrates data extracted from five major USEPA program systems: Aerometric Information Retrieval System (AIRS)/AIRS Facility Subsystem (AFS), Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS), Permit Compliance System (PCS), Resource Conservation and Recovery Information System (RCRIS) and Toxic Chemical Release Inventory System (TRIS), using two integrating databases: Facility Index System (FINDS) and Envirofacts Master Chemical Integrator (EMCI).

Property Solutions generated a printout of all facilities under the programs identified above that are located within the subject property's zip code 98168. The subject property and the adjoining property were not identified during the query search. The query was executed on September 9, 2014.

A copy of the search results is included in Appendix I.

4.3.2 Environmental Database Information

As part of the Phase I Environmental Assessment, Property Solutions utilized Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut, as an information source for regulatory agency environmental database records.

Data supplied by EDR is included in Appendix J. This database also includes the required documentation of sources checked as per Section 8.1.8 of the ASTM standard.

The following summary of the database information is divided into two columns. The first column lists sites as identified and located by EDR within the specified distance of the subject property. The second column lists orphan sites, which could not be located by EDR due to incomplete and/or inaccurate address information included in the United States Environmental Protection Agency (USEPA)/state databases, which Property Solutions identified as potentially lying within the search distance.

Although the exact locations of the orphan sites are frequently unknown, Property Solutions attempts to evaluate the potential adverse environmental impact that these sites may have on the subject property. This evaluation consists of reviewing street names in an effort to learn whether the street on which the site is located lies within the search distance of the subject property, a drive-by view of surrounding properties during the site visit, and evaluating the site type and information provided by government agencies. The orphan sites included in the following table are those Property Solutions identified as potentially located within the identified search distance. A complete list of sites is included in Appendix J.

Map Findings Summary

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1	0	0	0	0	NR	0
DELISTED NPL		1	0	0	0	0	NR	0
CERCLIS		0.5	0	0	0	NR	NR	0

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CERCLIS-NFRAP		0.5	0	0	1	NR	NR	1
CORRACTS		1	0	0	0	0	NR	0
RCRA-TSDF		0.5	0	0	0	NR	NR	0
RCRA-LQG		0.25	0	0	NR	NR	NR	0
RCRA-SQG		0.25	0	0	NR	NR	NR	0
RCRA-CESQG		0.25	0	0	NR	NR	NR	0
US ENG CONTROLS		0.5	0	0	0	NR	NR	0
US INST CONTROL		0.5	0	0	0	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
US BROWNFIELDS		0.5	0	0	0	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	2
SWF/LF		0.5	0	0	0	NR	NR	0
ALLSITES	X	0.5	2	7	2	NR	NR	12
CSCSL	X	1	0	2	0	9	NR	12
LUST	X	0.5	0	2	0	NR	NR	3
UST	X	0.25	2	3	NR	NR	NR	6
AST		0.25	0	0	NR	NR	NR	0
WA MANIFEST		0.25	0	0	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
INST CONTROL		0.5	0	0	0	NR	NR	0
ICR	X	0.5	1	0	0	NR	NR	2
VCP		0.5	0	2	0	NR	NR	2
BROWNFIELDS		0.5	0	0	0	NR	NR	0
Financial Assurance 1	X	TP	NR	NR	NR	NR	NR	1
INDIAN LUST		0.5	0	0	0	NR	NR	0
INDIAN UST		0.25	0	0	NR	NR	NR	0
INDIAN VCP		0.5	0	0	0	NR	NR	0
INDIAN ODI		0.5	0	0	0	NR	NR	0
INDIAN RESERV		1	0	0	0	0	NR	0

4.3.2.1 Database Summary

A complete copy of the database report is attached as an appendix to this report. Those sites noted within the search radius with a closed status from regulators, or not listed with known, documented, or suspected release sites will not be discussed below but can be referred to in the database report. The above sites are not expected to significantly impact the subject property based on the regulatory status listed. In addition, those remaining sites which are expected to be hydraulically downgradient, at a sufficient distance from the subject property, or due to the urban setting and density of the area, will not be discussed below but can be referred to in the database report. These above sites are not expected to significantly impact the subject property based on the above factors and as per ASTM E 1527-13.

The following is a discussion of the database findings:

The potential for obvious vapor encroachment from volatile organic compounds and petroleum products on the subject property or from nearby properties listed in the above databases with known or suspected releases was evaluated.

No activity and use limitations at the subject property indicating vapor encroachment was identified during this assessment.

Based on standard sources reviewed in Section 4.0 and observations made during the property visit, a significant release of chemicals of concern has occurred on the subject property. No significant release of chemicals of concern has occurred on the adjacent properties.

Property Solutions recommends obtaining site-specific data to further assess the potential for vapor encroachment at the subject property.

4.3.2.2 Subject and Adjoining Properties

The subject property was listed as an UST, LUST, RGA LUST, CSCSL, ICR, ALLSITES, Financial Assurance, and FINDS facility. The adjacent properties were not listed. ALLSITES and RGA LUST listings are considered duplicative of the other listings and are not summarized below. Further information regarding this listing is provided below.

Detail Summary

Facility ID: 110030462470
Facility Name: FOOD MART # 284
Databases: FINDS
Address: 12807 DES MOINES WAY SOUTH
Distance: 0
Direction: WNW
Elevation: 375
Gradient: Higher
Potential for Impact: Low-based on type of listing
Status: Not applicable
Comments:

Facility ID: 4050
Facility Name: PETROSUN #1284
Databases: Financial Assurance 1
Address: 12807 DES MOINES WY
Distance: 0
Direction: WNW
Elevation: 375
Gradient: Higher
Potential for Impact: Low-based on type of listing
Status: Not applicable
Comments:

Facility ID: 45191292
Facility Name: JACKPOT STATION 284
Databases: LUST, ALLSITES, CSCSL, UST, FINDS
Address: 12807 DES MOINES MEMORIAL DR S
Distance: 0
Direction: WNW
Elevation: 375
Gradient: Higher
Potential for Impact: High-ongoing release investigation
Status: Cleanup started
Comments: Cleanup of release to soil is ongoing. Five USTs have been removed and three USTs are currently in service.

Facility ID: None identified
Facility Name: TIME OIL #01 284
Databases: ICR
Address: 12807 DES MOINES WAY S.
Distance: 0
Direction: WNW
Elevation: 375
Gradient: Higher
Potential for Impact: Low-based on type of listing
Status: Not applicable
Comments: The listing identified two reports submitted in 1991 and 1993 to WDOE for contamination to soil.

4.3.3 Local Lists

The below local types of records were researched or requested from third parties, the Key Site Manager or local regulatory agencies:

- Local Brownfield Lists
- Local Lists of Landfill/Solid Waste Disposal Sites
- Local Lists of Hazardous Waste/Contaminated Sites
- Local Lists of Registered Storage Tanks
- Local Land Records (For AULs)
- Records of Emergency Release Reports
- Records of Contaminated Public Wells

The above information is discussed in 4.3.1 and within 4.4.4 and was duplicative of those sections.

4.3.4 Database Proprietary Lists

The subject property was listed as a US Historical Auto Station. The subject property was listed as Hudson Self Service in 1977 and as Hudson Oil in 1980 and 1985.

4.3.5 Transfer Act

The Transfer Act does not apply to this state's jurisdiction.

4.4 Results of Property History and Land Use Review

4.4.1 User Provided Information and Responsibilities

This section is to describe tasks to be performed by the User. The "All Appropriate Inquiries" (AAI) Final Rule (40 CFR Part 312) requires that these tasks be performed by or on behalf of a party seeking to qualify for an LLP to CERCLA liability. While such information is not required to be provided to the environmental professional, the environmental professional shall request that the user provide the results of these tasks as such information can assist the environmental professional in identifying recognized environmental conditions.

This section is to describe tasks to be performed by the User. The "All Appropriate Inquiries" (AAI) Final Rule (40 CFR Part 312) requires that these tasks be performed by or on behalf of a party seeking to qualify for an LLP to CERCLA liability. While such information is not required to be provided to the environmental professional, the environmental professional shall request that the user provide the results of these tasks as such information can assist the environmental professional in identifying recognized environmental conditions.

	User Provided	Other Provided	Not Provided
User Questionnaire			X
Title and Judicial Records			X
Environmental Liens/Activity Use Limitations			X
Specialized or Actual Knowledge of the User			X
Valuation Reduction for Environmental Issues			X
Reason for Performing the Phase I	X		
Helpful Documents/Prior Reports		X	
Proceedings Involving the Subject Property			X
User Identified Personnel	X		

4.4.1.1 User Questionnaire

The User has chosen not to complete the questionnaire citing a lack of pertinent knowledge of the environmental condition of the property in their role solely as a secured creditor. As the User has no specific knowledge of the property unless otherwise noted and operations, they requested the consultant pursue this information.

As the User did not complete the User Questionnaire, per the ASTM standard, this is considered a data gap; however, the data gap is not considered significant.

4.4.1.2 Title and Judicial Records

Per ASTM E 1527-13 Section 6.2, the User is required to provide and/or report to the environmental professional any environmental liens or activity and use limitations (AULs) so identified for the subject property. The environmental professional per the ASTM practice is not responsible to undertake a review of recorded land title records and judicial records for environmental liens or activity and use limitations.

No title records or information was provided to Property Solutions by the User.

Information provided by the property owner or consultant is discussed in section 4.4.3 or 4.5 of this report.

The User did not request Property Solutions to coordinate with a title company or title professional to undertake a review of Recorded Land Title records and judicial records for environmental liens or AULs.

Therefore, no title records were searched and no information was provided for environmental liens and AULs which is the responsibility of the User. Per the ASTM standard this is considered a data gap.

4.4.1.3 Environmental Liens or Activity and Use Limitations

Per ASTM E 1527-13 the User is required to provide and/or report to the environmental professional any environmental liens or AULs so identified for the subject property. The environmental professional per the ASTM practice is not responsible to undertake a review of information to identify environmental liens or AULs.

The User did not provide information on environmental liens and AULs. The User is not aware of environmental liens or AULs and directed Property Solutions to the property owner for this information.

4.4.1.4 Knowledge of the User

Per the ASTM standard, the Users must take into account their specialized knowledge to identify conditions indicative of releases or threatened releases. If the user has any specialized knowledge or experience that is material to recognized environmental conditions in connection with the property, the user should communicate any information based on such specialized knowledge or experience to the environmental professional. The user should do so before the environmental professional conducts the property visit.

Since Bank of America has only recently become involved with the subject property, their knowledge of the subject property and environmental conditions is limited to information provided by the mortgage broker, previous investigations provided by the borrower or broker, and by the borrower. As Bank of America has no specific knowledge of the property and operations, they requested the consultant pursue this information.

The property owner had specialized knowledge, actual knowledge, experience, or commonly known and reasonably ascertainable information within the local community concerning recognized environmental conditions at the subject property; however, limited information in regard to the ongoing release investigation was provided.

4.4.1.5 Valuation Reduction for Environmental Issues

Per the ASTM standard, in a transaction involving the purchase of a parcel of commercial real estate, the user shall consider the relationship of the purchase price of the property to the fair market value of the property if the property was not affected by hazardous substances or petroleum products. The User should try to identify an explanation for a significantly lower price which does not reasonably reflect fair market value if the property was not contaminated, and make a written record of such explanation. The ASTM standard does not require that a real estate appraisal be obtained in order to ascertain fair market value of the property.

This report was prepared for potential pre-lending purposes and not for a purchase.

4.4.1.6 Reason for Performing the Phase I Environmental Assessment

Bank of America (User) is performing the Phase I Environmental Assessment for determining whether to make a loan evidenced by a note secured by the property and not for pre-purchase due diligence.

4.4.1.7 Helpful Documents Provided Prior to Property Visit

Per the ASTM standard, prior to the property visit, the property owner, key site manager (if any is identified), and User (if different from the property owner) shall be asked if they know whether any of the documents below exist and if so, whether copies can and will be provided within reasonable time and cost constraints including partial information. This information is to be provided prior to or at the beginning of the property visit. A response to our request for the above helpful documents was received by the Property Owner; however, limited information for the subject property was received.

4.4.1.8 Proceedings Involving the Property

Per the ASTM standard, prior to the site visit, the User (if different from the property owner), Key site manager (if any is identified), and property owner shall be asked whether they know of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

The User indicated they are the lender and not familiar with the properties other than previous reports and that they have no knowledge of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

The key site manager indicated that the property operates as a gas station and convenience store and provided current tank system testing documents.

4.4.1.9 User Identified Personnel

As per ASTM E1527-13, Property Solutions requested information for current and past property personnel. The information and contacts below were identified and/or provided by the User/Client.

Title	Name	Company
District Manager	Martha Abatecola	Convenience Retailers, LLC
Key Site Manager	A. Karim	My Goods Market

4.4.2 Historical Property Information

The history of the subject property was researched to evaluate potential historical uses of the subject property of environmental concern.

Historical Source	Source Checked?	Standard Source	Earliest Date Obtained
Aerial Photos	Yes	EDR/Terraserver	1956
Fire Insurance Maps	Yes	EDR	None available
Property Tax File	Yes	Pierce County Assessor	Current
Recorded Land Title Records	No	Not applicable	Not applicable
USGS 7.5 Minute Topo Maps	Yes	USGS	1949
Local Street Directories (city directories)	Yes	Seattle Public Library/EDRreports	1975
Building Department Records	Yes	FOIA records not received from the City of Puyallup	Not applicable
Zoning/Land Use Records	Yes	FOIA records not received from the City of Puyallup	Not applicable
Other Historical Sources	No	Not applicable	Not applicable
Miscellaneous Maps/Plans	Yes	Site survey	2007
Newspapers	No	Not applicable	Not applicable
Records	No	Not applicable	Not applicable
Other Directories/ Phone books	No	Not applicable	Not applicable
Prior Use Interviews	Yes	Property owner representative	2009
Previous Reports	Yes	Alisto and Geo Engineers	1991
Chain of Title	No	Not applicable	Not applicable
AULs and Environmental Liens	No	Not applicable	Not applicable

Decade	Property Use	Standard Source/Source
1900	No information reasonably ascertainable	Not applicable
1910	No information reasonably ascertainable	Not applicable
1920	No information reasonably ascertainable	Not applicable
1930	No information reasonably ascertainable	Not applicable
1940	No information reasonably ascertainable	Not applicable
1950	Developed with two residences	Aerial photograph
1960	Residence (1965); Convenience store and filling station (1966)	Aerial photographs; EDR database; Property owner; Assessor information
1970	No major changes (1977).	Aerial photographs, City directory
1980	No major changes (1985)	Aerial photograph, City directory
1990	No major changes (1990). Original UST systems replaced in 1990. Release reported in 1991. Investigations and remediation begin.	Aerial photograph, WDOE information, Property owner; Previous reports
2000	No major changes (2005,2006, 2009).	Aerial photographs; City directories, Property owner
2010	No major changes (2011, 2014)	Aerial photograph; City directories; Previous reports; Property visit

Based on the above information and sources searched above, per ASTM E 1527-13 historical use information is deemed sufficient to comply with ASTM E 1327-13 concerning Data Failure.

4.4.2.1 City Directories

City Directory Type: Polk's, Price and Lee, Cole's, Etc.		
Year	Address	Listing
1977	12807 Des Moines Way	Hudson Self Service (SP)
1980, 1985	12807 Des Moines Way	Hudson Oil (SP)
2001, 2006	12807 Des Moines Way	Jackpot Station(SP)
2011	12807 Des Moines Way	76 gas station (SP)

NP - Neighboring Property / SP - Subject Property

4.4.2.2 Aerial Photographs

Year	1956
Information Source	EDR, Inc.
Description of Subject Property:	The image quality is too poor to discern specific features other than the subject property is developed with a building.
Description of Northerly Adjoining Property:	128th Street SW and a commercial building
Description of Southerly Adjoining Property:	Commercial or residential building
Description of Easterly Adjoining Property:	Des Moines Memorial Drive and buildings.
Description of Westerly Adjoining Property:	A commercial or residential building

Year	1965
Information Source	EDR, Inc.
Description of Subject Property:	Developed with two residences.
Description of Northerly Adjoining Property:	128th Street SW and a commercial building. To the northeast is a development that appears to be a gasoline station.
Description of Southerly Adjoining Property:	Residence
Description of Easterly Adjoining Property:	Des Moines Memorial Drive and residences
Description of Westerly Adjoining Property:	Residence

Year	1977, 1985
Information Source	EDR, Inc.
Description of Subject Property:	Redeveloped with one large building on the western portion of the subject property and two smaller buildings or canopies on the northeastern portion of the property. Numerous cars are parked on the east and southeast sides of the large building.
Description of Northerly Adjoining Property:	No major changes
Description of Southerly Adjoining Property:	No major changes
Description of Easterly Adjoining Property:	No major changes
Description of Westerly Adjoining Property:	No major changes

Year	1990
Information Source	EDR, Inc.
Description of Subject Property:	No major changes, except that there are no vehicles parked on the subject property.
Description of Northerly Adjoining Property:	No major changes
Description of Southerly Adjoining Property:	No major changes
Description of Easterly Adjoining Property:	No major changes, except that some of the residences are no longer present

Description of Westerly Adjoining Property:	No major changes.
Year	2006, 2010
Information Source	EDR, Inc.
Description of Subject Property:	No major changes
Description of Northerly Adjoining Property:	No major changes. The gasoline station to the northeast is no longer present.
Description of Southerly Adjoining Property:	No major changes
Description of Easterly Adjoining Property:	Des Moines Memorial Drive and unimproved land
Description of Westerly Adjoining Property:	Des Moines Memorial Drive and a park

Review of the aerial photographs revealed that the subject buildings were constructed after 1980 and prior to 1990. The aerial photographs revealed that the subject property was improved with a residence prior to the construction of the subject buildings.

Copies of the aerial photographs are included in Appendix E.

4.4.2.3 Fire Insurance Maps

Fire insurance maps that include the subject property were requested from Environmental Data Resources, Inc. (EDR) of Milford, Connecticut. EDR has informed Property Solutions that no historical map coverage is available for the subject property in the EDR historical map collection.

A copy of EDR's statement of no coverage is included in Appendix F.

4.4.2.4 Topographic Quadrangle Maps

Topographic Quadrangle Map Name	Des Moines, Washington
Year published	1949
Aerial photograph year map based on	1943
Year photorevised	1995
Aerial photograph year photorevision based on	1990
Color of photorevisions	Purple
Description of Subject Property:	Shaded in gray where only landmark buildings are identified.
Description of Northerly Adjoining Property:	Shaded in gray where only landmark buildings are identified. A fire station is noted on the property to the north.
Description of Southerly Adjoining Property:	Shaded in gray where only landmark buildings are identified.
Description of Easterly Adjoining Property:	Des Moines Memorial Drive and unimproved land and a residence
Description of Westerly Adjoining Property:	Shaded in gray where only landmark buildings are identified.

A portion of the USGS 7.5-minute series topographic quadrangle map of Des Moines, Washington, which includes the subject property, is included in Appendix A.

No environmental concerns were identified based upon a review of the Des Moines, Washington topographic quadrangle map.

4.4.2.5 Prior Use Interviews

Contact Company	Convenience Retailers, LLC
Contact Name	Martha Abatecola
Contact Title	District Manager
Phone/Fax/Email	Not applicable
Contact Date	August 13, 2014
Request Medium	Phone
Questionnaire Completed?	No
Completed by?	Not applicable

Response Date	Not applicable
Form of Response	Not applicable
Was the questionnaire completed and returned prior to the property visit?	No

4.4.2.6 Historical Use Summary

Based on a review of the historical sources, the subject property was initially developed with two residences prior to 1956. The subject property was redeveloped with a gasoline station in 1966 and has remained utilized as a gasoline station to the present day.

Per ASTM E 1527-13, "8.3.2 Uses of the Property-All obvious uses of the property shall be identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources in 8.3.4.1 through 8.3.4.8 as are necessary and both reasonably ascertainable and likely to be useful (as described under Data Failure in 8.3.2.3). . . . Such confirmation may come from one or more of the standard historical sources specified in 8.3.4.1 through 8.3.4.8, or it may come from other historical sources (such as someone with personal knowledge of the property; see 8.3.4.9). However, checking other historical sources (see 8.3.4.9) is not required. For purposes of 8.3.2, the term "developed use" includes agricultural uses and placement of fill dirt. The report shall describe all identified uses, justify the earliest date identified (for example, records showed no development of the property prior to the specific date), and explain the reason for any gaps in the history of use (for example, data failure)."

Per ASTM E 1527-13, "8.3.2.3 Data Failure-the historical research is complete when either: (1) the objectives in 8.3.1 through 8.3.2.2 are achieved; or (2) data failure is encountered. Data Failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Data failure is not uncommon in trying to identify the use of the property at five year intervals back to first use or 1940 (whichever is earlier). Notwithstanding a data failure, standard historical sources may be excluded if: (1) the source is not reasonably ascertainable, or (2) if past experience indicates that the source is not likely to be sufficiently useful, accurate, or complete in terms of satisfying the objectives. Other historical sources specified in 8.3.4.9 may be used to satisfy the objectives, but are not required to comply with this practice. If data failure is encountered, the report shall document the failure and, if any of the standard historical sources were excluded, give the reasons for their exclusion. If the data failure represents a significant data gap, the report shall comment on the impact of the data gap on the ability of the environmental professional to identify recognized environmental conditions."

Based on the above information and standard historical sources searched, data failure has occurred. However, historical use information is deemed sufficient to comply with the ASTM Standard.

Standard historical information is included in the appendices of this report.

4.4.3 Interviews

The objective of interviews is to obtain information indicating Recognized Environmental Conditions in connection with the subject property as well as AULs. Property Solutions interviewed or made good faith efforts to interview the following:

Represents	Interviewed (Y/N)	Name and Title	Comments
Owner	Yes	Martha Abatecola	The subject building was constructed in 1966. Does not know the status of the release on the subject property. No liens or AULs.
Key Site Manager	Yes	A. Karim	Mr. Karim did not have information regarding the historical use of the subject property.

Interviews	
Name	Martha Abatecola
Title	District Manager
Company name	Convenience Retailers, LLC
Phone number	206.850.5488
Years associated with subject property	Six years
Information provided	Phone
Information request date	August 13, 2014
Medium information requested	Phone
Property visit date	August 20, 2014
Response date	August 13, 2014
Follow up date	Not applicable
Follow up medium	
Knows of REC's	Yes
Knows of AULs	No
Knows of environmental concerns	Yes
Knows of potential environmental concerns	No
Knows of off-property concerns	No

4.4.4 Property Specific Records

During the course of the assessment of the subject property, Property Solutions contacted the following local, county, and state agencies and companies via phone, letter, or in person.

4.4.4.1 Department of Health

Agency Name	King County Government Administration
Contact Name	None identified
Contact Title	FOIA Officer
Address	401 5th Ave., Ste. 1100
City	Seattle
State	WA
Contact Date	July 25, 2014
Request Medium	Letter
Response Date	Response pending
Form of Response	Response pending

A response has not been received at the time of this report.

4.4.4.2 Fire Department

Agency Name	Seattle Fire Department
Contact Name	Iris Murphy
Contact Title	Administraion
Address	301 2nd Avenue S
City	Seattle
State	WA
Contact Date	July 25, 2014

Request Medium	Letter
Response Date	Response pending
Form of Response	Response pending

A response has not been received at the time of this report.

4.4.4.3 Planning/Zoning Department

Agency Name	Seattle Department of Planning and Development
Contact Name	None identified
Contact Title	FOIA Officer
Address	700 Fifth Ave., Suite 2000-P.O. Box 34019
City	Seattle
State	WA
Contact Date	August 8, 2014
Request Medium	Letter
Response Date	Response pending
Form of Response	Response pending

A response has not been received at the time of this report.

4.4.4.4 Building Department/Inspection Department

Agency Name	Seattle Department of Planning and Development
Contact Name	Not identified
Contact Title	FOIA Officer
Address	700 Fifth Ave., Suite 2000-P.O. Box 34019
City	Seattle
State	WA
Contact Date	August 8, 2014
Request Medium	Letter
Response Date	Response pending
Form of Response	Response pending

A response has not been received at the time of this report.

4.4.4.5 Tax Assessor/Tax Department

Agency Name	King County Assessor website
Contact Name	Not applicable
Contact Title	Not applicable
Address	http://matterhorn3.co.pierce.wa.us/publicgis/
City	Not applicable
State	Not applicable
Contact Date	August 10, 2014
Request Medium	Online
Response Date	August 10, 2014
Form of Response	Online

Property Solutions visited the King County Assessor webpage, <http://matterhorn3.co.King.wa.us/publicgis/>, on August 10, 2014. The King County Assessor webpage provided Property Solutions with a copy of a tax map for the subject property and the surrounding area and a copy of the tax information card for the subject property.

Based on Property Solutions review of the tax map and tax information cards, the subject property is identified as 162304-9066; the subject property consists of a rectangular-shaped, 0.30-acre parcel of land improved with

one building constructed in 1966; the gross area of the convenience store building is approximately 1,512 square feet; and the subject property is owned by PCF Acquisition Co., LLC. Previous owners include Petrosun West Properties, LLC and Bedrock Oil Inc. from 2007 to 2009, and Time Oil Co. from 1985 to 2007, and Hudson Oil Co. Inc. prior to 1985.

A copy of the tax map is included in Appendix A.

4.4.4.6 Electrical Utility

Agency Name	Seattle City Light
Contact Name	None identified
Contact Title	FOIA Officer
Address	700 5th Avenue
City	Seattle
State	WA
Contact Date	July 25, 2014
Request Medium	Letter
Response Date	August 29, 2014
Form of Response	Email

Department personnel provided information that the transformer on the subject property contains less than 1 part per million PCBs.

4.4.4.7 Sewer Department/Provider

Agency Name	Seattle Public Utilities Department
Contact Name	None identified
Contact Title	FOIA Officer
Address	P.O. Box 34016
City	Seattle
State	WA
Contact Date	July 25, 2014
Request Medium	Letter
Response Date	Response pending
Form of Response	Response pending

A response has not been received at the time of this report.

4.4.4.8 Water Department/Supplier

Agency Name	Seattle Public Utilities Department
Contact Name	None identified
Contact Title	FOIA Officer
Address	P.O. Box 34016
City	Seattle
State	WA
Contact Date	July 25, 2014
Request Medium	Letter
Response Date	Response pending
Form of Response	Response pending

A response has not been received at the time of this report.

4.4.4.9 Others

No other agencies or individuals were contacted.

4.4.4.10 State Environmental Agency

Agency Name	Washington Department of Ecology (WDOE)
Contact Name	Susan Baxter
Contact Title	Administration
Address	P.O. Box 477775
City	Olympia
State	WA
Contact Date	July 25, 2014
Request Medium	Online
Response Date	Response pending
Form of Response	Response pending

A response has not been received at the time of this report.

4.4.4.11 State Online Database Information/GIS

Agency Name	WDOE
Contact Name	Not applicable
Contact Title	Not applicable
Address	https://fortress.wa.gov/ecy/tcpwebreporting/report.aspx
City	Not applicable
State	WA
Contact Date	September 8, 2014, 2014
Request Medium	Online
Response Date	September 8, 2014
Form of Response	Online

The online database identified the subject property as having three registered USTs installed in 1990. Five previous USTs (three gasoline, one heating oil, and one used oil) were installed in 1964 and have been removed. The subject property is listed as operational. Database information also identified that a release of Benzene, Non-halogenated solvents, petroleum-oil, and petroleum-gasoline have been released to soil and groundwater at the subject property. The status of the release listing is identified as "cleanup started". The database identified that numerous investigation reports have been received between 1990 and 2003. None of the documents was received from the agency or the property owner for review during this investigation; however, Property Solutions conducted a review of agency files in 2011. The results of the file review are discussed in Section 4.5.

At the time this report was prepared, some of the above local, county, and state agencies and companies had not responded to our information request as indicated.

According to ASTM E 1527-13, Section 8.1.4.2, information that has been requested must be reasonably ascertainable as part of performing the Phase I Environmental Assessment. Information that is reasonably ascertainable per ASTM means that information will be provided by the source within 20 calendar days of receiving a written, telephone, or in-person request.

Copies of the letters and records of communication are included in Appendix I.

4.5 Synopsis of Previous Environmental Investigations and Plans

Full Report	
Complete Report Name	Report of Geotechnical Services Subsurface Soil Explorations and Remediation (GSSSER)
Report Date	1957-009-R04/042893
Report Project Number	20112160
Report Property Name	Jackpot Food Mart Property No. 01-284
Report Property Address	12807 Des Moines Way South, Seattle, Washington
Prepared by	GeoEngineers
Consultant City & State Location	Redmond, Washington
Prepared for	Time Oil Company
Party City & Site Location	Seattle, Washington
Report Provided by	Washington Department of Ecology (DOE/Ecology)
Appendices	The entire report including appendices was provided.
Boundaries	The boundaries discussed in this report are identical to those of the subject property identified by Property Solutions.
Report and Subject Property Variations	None apparent
Information/Portions of Report not Included with Report	None apparent
Scope of Services Performed Per Report	<p>The purpose of the services described in this report was to 1) conduct a VES (vapor extraction system) test and monitor combustible vapor concentrations vented from the former gasoline UST excavation; 2) monitor the excavation of additional contaminated soil from the vicinity of the former heating oil and waste oil USTs; 3) observe and document subsurface soil conditions in soil borings completed in the vicinity of the former gasoline USTs, and 4) observe and document subsurface soil conditions in on-site and off-site soil borings completed to assess the extent of contamination associated with the heating oil and waste oil tanks.</p> <p>The scope of work (SOW) included specification of 20 steps to achieve the four issues outlined above.</p>
Findings/Conclusions as Reported by Report Preparer	<p>GeoEngineers drew the following conclusions, based on the information gathered during the investigation:</p> <p>• Regional ground water in the area of the site occurs at depths between 60 and 100 feet below ground surface (bgs), based on a review of ground water well logs. Perched water encountered in the remedial excavation appears to be from surface water runoff entering the former excavation backfill.</p> <p>• Concentrations of combustible vapors measured in the exhaust stack during the vapor extraction test of the former gasoline UST area decreased to half the initial concentrations over a period of approximately one month.</p> <p>• Gasoline and benzene, ethylbenzene, toluene and xylenes (BTEX) contamination detected in the soil samples collected by Time Oil in the area of boring B-3 appears to have been mitigated during the vent test.</p> <p>• Approximately 920 cubic yards of petroleum-contaminated soil were removed from the area of the former waste oil and heating oil tanks. The soil was transported to the Woodworth & Company Facility in Tacoma, Washington for incorporation into asphaltic concrete.</p> <p>• Residual petroleum-contaminated soil remains beneath the western portion of the Food Mart building and to the south and east of the adjacent remedial excavation. The petroleum in the soil was</p>

Findings/Conclusions as Reported by Report Preparer	<p>quantified as oil-range and gasoline-range hydrocarbons. Evaluation of the chromatogram for the gasoline-range hydrocarbons indicates that the petroleum is probably either degraded gasoline or Stoddard-type solvent. This type of solvent is often used to clean automobile parts during servicing.</p> <p>• Gasoline range hydrocarbons detected in soil samples from B-1 and B-7 appear to be either degraded gasoline or a Stoddard-type solvent. The hydrocarbons appear to occur in a unit of dense, fine to medium sand at depths between 26 feet and 46 feet bgs.</p> <p>• Diesel range hydrocarbons reported in soil samples from B-1 are attributed to overlap from the gasoline-range portion of the chromatogram. Hydrocarbons related to a release of diesel were not detected at this site.</p> <p>• The results of the grain-size analysis, performed on sample of fine to medium sand that contains the major portion of the residual hydrocarbons, indicates that the sand is moderately permeable to air. Vapor extraction may be a feasible option for in-situ removal of the gasoline-range contaminants.</p> <p>• In-situ remediation of oil-range hydrocarbons is not a practical option for this site using current technologies.</p>
Recommendations as Reported by Report Preparer	<p>GeoEngineers made the following recommendations, based on the information gathered during the investigation:</p> <p>• Evaluate the use of vapor extraction for remediation of gasoline-range hydrocarbons. Conduct an in-situ air permeability test using VP-1 and VP-7 to evaluate the effective radius of influence for these extraction wells. GeoEngineers recommended that this be completed prior to conducting additional subsurface explorations.</p> <p>Evaluate the possible use of Ecology's (DOE) Petroleum-Contaminated Soils Rating Matrix at this site, particularly as this may relate to oil-range hydrocarbons that are not amenable to in-situ treatment.</p> <p>• Investigate actual depth to ground water beneath the site and obtain a sample or samples of the ground water to verify that it has not been affected by petroleum-related contamination from this site.</p>
Report Historical Information and Findings	<p>GeoEngineers did not conduct a historical usage review for the subject property; however, they did prepare a background and historical review of UST removal and subsurface/environmental investigations conducted at the subject property. GeoEngineers reported that the Time Oil Company (Time Oil) monitored the removal of two, 8,000-gallon and a 10,000-gallon gasoline USTs from the site during a facility upgrade on December 12, 1990. Time Oil reported that corrosion was observed on the tank exteriors and that the backfill within the excavation was contaminated with gasoline. Elevated concentrations of combustible vapors were detected in the soil samples collected from the sidewalls of the excavation. Time Oil reported that no groundwater was present in the gasoline UST excavation. Analysis of seven soil samples collected from the base of the gasoline UST excavation revealed benzene at a concentration of 0.91 milligrams per kilogram (mg/kg) in one soil sample from beneath the fill port of the eastern UST. Concentrations of fuel hydrocarbons and BTEX either were not detected or were detected at concentrations less than the respective Model Toxics Control Act (MTCA) Method A cleanup levels in the</p>

Report Historical Information and Findings	<p>other samples.</p> <p>Approximately 100 feet of perforated plastic piping was placed in the UST excavation and the excavation was backfilled with the former tank backfill material and imported soil. Replacement gasoline USTs were installed on the northeast portion of the site.</p> <p>On January 2, 1991, Time Oil monitored the removal of a 550-gallon heating oil UST and a 300-gallon waste oil UST from the western portion of the site. Petroleum staining was observed in soil adjacent to the waste oil tank fill port and contamination appeared to have migrated laterally from the waste oil UST at a depth of approximately 10 feet bgs, based on information provided by Time Oil. The excavation completed for the UST removal was approximately 12 feet deep and ground water was not encountered.</p> <p>Five soil samples obtained by Time Oil from the heating/waste oil tank excavation were submitted for laboratory analysis for petroleum-related hydrocarbons and metals. Total petroleum hydrocarbons (TPH) was detected in the soil samples at concentrations ranging from 590 mg/kg to 4,700 mg/kg. Aroclor 1254 was detected at a concentration of 1 mg/kg in a sample from a depth of 10 feet bgs. This concentration is equal to the MTCA Method A cleanup level for Polychlorinated Biphenyls (PCBs) in soil.</p> <p>Approximately 5 cubic yards of soil from the heating oil and waste oil UST excavation was disposed of off site (per Time Oil personnel). The remaining backfill was reportedly returned to the excavation during backfilling activities. Asphalt paving was not replaced following the January 1991 excavation activities.</p> <p>The Jackpot Food Mart previously operated as a Hudson Service Station with at least one service bay, based on information provided by Time Oil. The site is listed as site number 2079 in Ecology's (Washington State Department of Ecology) February 10, 1993 leaking underground storage tank (LUST) list.</p>
Property Solutions Review	<p>At the time of GeoEngineers investigation, the USTs at the subject property included three 10,000-gallon gasoline USTs, associated product and ventilation pipelines, two service islands and the food mart building.</p> <p>Native soil encountered reportedly consisted of two separate units. The upper soil unit is characterized as tan to brown silty fine to medium sand with gravel and occasional cobbles and silt lenses ranging in depth from 1-27 feet bgs. This is underlain by tan fine to medium sand with silt to at least 45 feet bgs. Groundwater was not encountered in any of the borings (maximum depth 55 feet bgs).</p> <p>The GSSSER detailed the soil venting test, remedial excavation activities, chemical analysis of samples, the installation of an oil water collection sump in the excavation area, backfilling activities, soil hydraulic conductivity and air conductivity and soil disposal.</p> <p>The oil/water collection sump was installed by Glacier Environmental on December 29, 1992. The sump was designed to capture contaminated perched groundwater or product which might</p>

Property Solutions Review	continue to migrate off site from the east wall of the remedial excavation to the adjacent Albertson's property. The sump extends from the ground surface to a depth of approximately 15.5 feet bgs. The sump was checked on January 12, 1993 for the presence of water and/or free product using an interface probe. Free product was not detected. Approximately 110-gallons of water were removed from the sump on January 15, 1993.
Property Solutions Findings and Conclusions	Based on the information provided, Property Solutions concurs with the recommendations that additional investigations were warranted at that time.

Complete Report Name	Remedial Investigation Report (RIR)
Report Date	November 1997
Report Project Number	20-023
Report Property Name	Time Oil Facility No. 01-284
Report Property Address	12807 Des Moines Way South, Seattle, Washington
Prepared by	Alisto Engineering Group (Alisto)
Consultant City & State Location	Portland, Oregon
Prepared for	Time Oil Company
Party City & Site Location	Seattle, Washington
Report Provided by	Washington Department of Ecology (DOE/Ecology)
Appendices	The entire report including appendices was provided.
Boundaries	The boundaries discussed in this report are identical to those of the subject property identified by Property Solutions.
Report and Subject Property Variations	None apparent
Information/Portions of Report not Included with Report	None apparent
Scope of Services Performed Per Report	<p>The work was conducted to assess the nature and extent of petroleum hydrocarbons in the subsurface in order to develop alternative remedial options, if warranted. The activities were performed in accordance with the technical specifications of Time Oil Company (TOC) and the guidelines and requirements of the Washington Department of Ecology (Ecology). The scope of work included the following tasks:</p> <ul style="list-style-type: none"> • Review of previous Site Investigation Report. • Collect a water sample from the water collection sump for analysis and abandonment of the sump after receipt of laboratory analysis. • Drill and log three exploratory soil borings and collect soil samples for analysis of specific hydrocarbon constituents. • Install two vapor extraction points and conduct vapor extraction pilot testing. • Analyzed data from the vapor extraction test. • Prepare technical report presenting the results of the above activities, including recommendations for remedial action and design.
Findings/Conclusions as Reported by Report Preparer	<p>In Section 6.0-Discussion of Results Alisto outlined the following results:</p> <ul style="list-style-type: none"> • Subsurface conditions encountered during drilling in February 1997 were consistent with those observed during previous investigations. Fill material was encountered from ground surface to a depth of approximately 8 feet bgs. Silty sand (till) is present to depths between 22 to 41 feet bgs, underlain by fine to medium sand. • Groundwater was not encountered during this or previous

Findings/Conclusions as Reported by Report Preparer	<p>environmental investigations to the maximum depths of 56 feet bgs. Based on a review of available well logs in the vicinity of the site, the first-occurring groundwater is interpreted to be at depths greater than 78 feet bgs.</p> <p>• The highest concentrations of TPH-gasoline (THP-G) and lead detected were 20 and 1.8 mg/kg in the soil sample collected from boring VP-101, at a depth of 10 feet (sample VP-101-10). Petroleum hydrocarbons were not detected in the other soil samples collected during this investigation.</p> <p>• Vacuum pressure drawdown was measured in each of the observation wells during each of the three vapor extraction tests. At a vacuum drawdown of 0.5 inch of water, an effective radius on influence of at least 50 feet was estimated for each of the vapor extraction wells.</p>
Recommendations as Reported by Report Preparer	<p>Alisto considered and discussed the two most viable methods of remediation to address residual adsorbed phase petroleum hydrocarbons in the soil for the site; 1) no action (intrinsic remediation) and, 2) soil vapor extraction (SVE) with off-gas treatment.</p> <p>Based on the review of work completed at the site, in-situ remediation using soil vapor extraction was recommended by Alisto for implementation by the Time Oil Company.</p>
Report Historical Information and Findings	Alisto did not conduct a historical usage review for the subject property; however, they did prepare a background and historical review of UST removal and subsurface/environmental investigations conducted at the subject property. These basically duplicated those discussed in the 1993 GSSSER above.
Property Solutions Review	The SIR included detailed field methods and procedures for water sample collection, drilling and soil sampling, vapor well installation and water collection sump abandonment. The report appeared to be comprehensive and well organized.
Property Solutions Findings and Conclusions	Based on the information provided, Property Solutions concurs with the recommendation that additional investigation was warranted at that time.

Complete Report Name	Phase I Environmental Assessment
Report Date	June 24, 2011
Report Project Number	20112160
Report Property Name	Pacific Convenience & Fuel Station 1-284
Report Property Address	12807 Des Moines Way SW
Prepared by	Property Solutions Incorporated
Consultant City & State Location	Edison, New Jersey
Prepared for	Bank of America, NA
Party City & Site Location	Waltham, Massachusetts
Report Provided by	Convenience Retailers, LLC
Appendices	The entire report including appendices was provided.
Boundaries	The boundaries discussed in this report are identical to those of the subject property identified by Property Solutions.
Report and Subject Property Variations	None
Information/Portions of Report not Included with Report	None
Scope of Services Performed Per Report	ASTME 1527-05
Findings/Conclusions as Reported by Report Preparer	<p>Property Solutions identified the following REC and Non-Scope Consideration:</p> <p>1. The subject property has operated as a gasoline filling station</p>

Findings/Conclusions as Reported by Report Preparer	<p>since development of the current improvements in 1966. Based on review of the environmental database report, the subject property is listed in the underground storage tank (UST), leaking UST (LUST), and ICR databases. A release was reportedly identified during removal of five former USTs in 1990 and 1991 and soil has been impacted with gasoline, diesel, waste oil, and PCB constituents. The current status is listed as "cleanup started". The on-going operations and open LUST case pose an environmental concern to the subject property and are considered a recognized environmental condition.</p> <p>2. Based on the date of construction of the subject property (1966), asbestos-containing materials (ACMs) may be present at the subject property. Based on the limited visual review conducted by Property Solutions, suspect asbestos-containing ceiling tile and drywall and joint compound and presumed asbestos-containing floor tile and mastic were identified at the subject property. These materials were observed to be in an overall undamaged condition at the time of the property visit. Currently, there are no regulations requiring the removal of ACM unless it will be disturbed during renovation, repairs, or demolition. The USEPA recommends that as long as the ACM does not pose an imminent health threat, the materials can be managed in place.</p>
Recommendations as Reported by Report Preparer	<p>Property Solutions recommends the following:</p> <p>(1) Property Solutions recommends that the responsible party continues to work with Ecology towards case closure. A regulatory file review is recommended to evaluate the current case status. Routine file reviews are also recommended until such time as case closure is achieved.</p> <p>(2) Property Solutions recommends preparation and implementation of an ACM Operations and Maintenance (O&M) Plan.</p>
Report Historical Information and Findings	The subject property was historically residential from prior to 1956, until the current improvements were constructed in 1966.
Property Solutions Review	Property Solutions subsequently conducted a file review of WDOE information for the subject property. The results of the file review were submitted on September 2, 2011. Each report that was summarized in the letter report has been discussed separately in this section.
Property Solutions Findings and Conclusions	Based on the results of the previous Phase I report and the information obtained during the file review (discussed separately above), the ongoing release investigations on the subject property represent a Recognized Environmental Condition to the subject property.

Letter	
Letter Subject	Initial Investigation/Status Report
Letter Date	May 7, 1991
Letter Author & Title	John Stormon, Inspector
Letter Author Company	Washington Department of Ecology
Letter Author City & State Location	Bellevue, Washington
Letter Recipient	Not listed (appears to be inter-department memo)
Letter Recipient Company	Not listed
Letter Recipient City & State Location	Not listed
Letter and Subject Property Variations	None apparent

Property Solutions Review	<p>This appears to be a report of the initial investigation of the subject property by Washington Ecology personnel. Mr. Stormon conducted an initial inspection of the site on May 7, 1991. At that time, the station manager reported that the contaminated soil was excavated and that a venting system was installed. There were originally four soil stockpiles behind the station, all but one have been removed. As a follow-up, Mr. Stormon indicated that he spoke with Ann Duarte of Time Oil on May 13, 1991, who reported that a second site assessment will be done because some contamination remains in place. A report of the site is being prepared and a copy will be forwarded to Ecology.</p> <p>The status of the subject property was listed at that time as "cleanup ongoing."</p>
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Letter Subject	UST Removal-Jackpot Food Mart 12807 Des Moines Way, Seattle, WA (Property No. 01-284)
Letter Date	May 20, 1991
Letter Author & Title	Anastasia E. Duarte, Environmental Toxicologist
Letter Author Company	Time Oil Company
Letter Author City & State Location	Seattle, Washington
Letter Recipient	Mr. Joe Hickey
Letter Recipient Company	Washington Department of Ecology (Ecology)
Letter Recipient City & State Location	Bellevue, Washington
Letter and Subject Property Variations	None apparent
Property Solutions Review	<p>This is a letter providing information to Ecology on the UST removal and subsurface investigation activities conducted at the site to date. These included the removal of two 8,000-gallon and one 10,000-gallon gasoline underground storage tanks from the subject property on December 12, 1990 as part of a facility upgrade and the removal of a 550-gallon heating oil UST and a 300-gallon waste oil UST on January 2, 1991. This information duplicated that discussed above under the previous environmental investigations in the GSSSER dated April 28, 1991.</p> <p>In summary, Time Oil reported that corrosion was observed on the tank exteriors and that the backfill within the excavation appeared to be "highly" contaminated, particularly near the fill ends of the tanks. Elevated concentrations of organic vapors were detected in the soil samples collected from the sidewalls and floor of the excavation. Time Oil reported that no groundwater was present in the UST excavation. Analysis of seven soil samples collected from the base of the gasoline UST excavation (10 to 18 feet bgs) revealed benzene at a concentration of 0.91 milligrams per kilogram (mg/kg) in one soil sample from beneath the fill port of the eastern UST. Concentrations of fuel hydrocarbons and BTEX either were not detected or were detected at concentrations less than the respective Model Toxics Control Act (MTCA) Method A cleanup levels in the other samples.</p> <p>Due to space limitations, the fill material could not be stockpiled on the site and was used to backfill the excavation. Approximately 100 feet of perforated plastic piping was placed in the UST excavation at a depth of 8-10 feet bgs, for future in-situ remediation, if needed.</p> <p>On January 2, 1991, Time Oil monitored the removal of a</p>

Property Solutions Review	<p>550-gallon heating oil UST and a 300-gallon waste oil UST from the western portion of the site. Petroleum staining was observed in soil adjacent to the waste oil tank fill port and was attributed to overfilling. Approximately 17 cubic yards of contaminated material was excavated from the area around the tanks, stockpiled and covered with plastic sheeting. Glacial till encountered at 10 feet bgs appeared to have caused lateral migration of the contamination.</p> <p>Five soil samples obtained by Time Oil from the heating/waste oil tank excavation were submitted for laboratory analysis for petroleum-related hydrocarbons and metals. Total petroleum hydrocarbons (TPH) was detected in the soil samples at concentrations ranging from 590 mg/kg to 4,700 mg/kg. Lead was present at 17 parts-per-million (ppm) at 7 feet bgs. Low levels of chlorinated solvents, including methylene chloride, were present in "nearly all" of the samples; however, none was present at levels above recommended cleanup guidelines. Aroclor 1254 (Polychlorinated Biphenyls [PCBs]) was detected at a concentration of 1 mg/kg in a sample from a depth of 10 feet below the waste oil tank. This concentration is equal to the MTCA Method A cleanup level for PCBs in soil.</p> <p>Time Oil reported that additional site assessment will be performed to determine the vertical and lateral extent of contamination in the area of both excavations. Once the extent of contamination is defined, a work plan will be developed for site remediation. The contaminated soil excavated from near the waste oil tank will be characterized for disposal.</p> <p>This letter appeared to be a general correspondence/update to the local regulatory agency (Ecology) regarding the progress of assessment and clean-up of the site.</p>
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Letter Subject	Remediation of Former Used Motor Oil Tank Bed and Site Assessment at Jackpot Food Mart at 12807 Des Moines Way, Seattle, Washington (Time Oil Company property No. 01-284)
Letter Date	October 25, 1993
Letter Author & Title	Anastasia E. Duarte, Environmental Toxicologist
Letter Author Company	Time Oil Company
Letter Author City & State Location	Seattle, Washington
Letter Recipient	Not specified
Letter Recipient Company	Washington Department of Ecology (Ecology)
Letter Recipient City & State Location	Bellevue, Washington
Letter and Subject Property Variations	None apparent
Property Solutions Review	<p>The letter included a Site Background, the information duplicated that provided in the May 20, 1991 letter and the previous environmental investigations section in the GSSSER dated April 28, 1991 discussed above.</p> <p>The additional site work was reportedly conducted in two phases. The first phase involved the over excavation of impacted soils in the vicinity of the former heating oil and used motor oil tanks. The second phase involved performing a site assessment near the former gasoline tanks.</p> <p>Initially, it was estimated that the removal of approximately 75 cubic yards of soil from the floor and sidewalls of the former</p>

Property Solutions Review	<p>heating and used oil tank bed would be sufficient to remediate this area. However, as overburden was removed, it became apparent that contamination was more widespread. Lateral migration appeared to occur to the south and west of the former tank bed, impacting soils beneath the adjacent parking lot owned by Albertson's. Altogether, approximately 900 cubic yards of impacted soils were removed and stockpiled.</p> <p>At the conclusion of over excavation, soil samples were collected from the floor and sidewalls of the excavation at depths of 12 to 28 feet. In general, samples were analyzed for diesel and oil-range hydrocarbons; however, several samples were also analyzed for gasoline and its constituents. Analysis revealed the presence of oil at concentrations of 1,400 to 6,600 ppm and diesel at concentration of 280 to 1,200 ppm. Gasoline was also detected in one of the samples at 1,300 ppm.</p> <p>During the removal of oil-impacted soils, perched groundwater with a heavy sheen was encountered at a depth of 9 feet bgs. Approximately 3,700 gallons of water was removed from the tank excavation on December 29, 1992. A 10 inch diameter collection sump was installed in the center of the excavation on December 29, 1992. On January 15, 1993, approximately 100 gallons of additional water was removed from the sump.</p> <p>Because impacted soils were used to backfill the excavation during the removal of the gasoline USTs, a site assessment was initiated in February 1993. This investigation included the advancement of seven soil borings and installation of two vapor extraction wells. Soil samples collected were analyzed for gasoline and its constituents, several samples were also analyzed for diesel and oil. Gasoline was present at levels of 7,700 and 13,000 ppm, diesel at 1,100 ppm and oil at 580 and 720 ppm.</p> <p>Time Oil concluded that based on the results of the investigation, further action was warranted. Time Oil added that it did not appear that groundwater had been impacted at the site. They anticipated that vapor extraction and subsequent bioventing will be utilized to address contamination on the subject property and remove residual contamination on the adjacent property.</p>
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Letter Subject	Submittal of "Remedial Investigation Report" for Jackpot Food Mart at 12807 Des Moines Way, Seattle, Washington (Time Oil Company property No. 01-284)
Letter Date	December 4, 1997
Letter Author & Title	Anastasia E. Duarte-Wilkinson, Environmental Toxicologist
Letter Author Company	Time Oil Company
Letter Author City & State Location	Seattle, Washington
Letter Recipient	John Balls
Letter Recipient Company	Washington Department of Ecology (Ecology)
Letter Recipient City & State Location	Bellevue, Washington
Letter and Subject Property Variations	None apparent
Property Solutions Review	his is a letter to Ecology that was submitted along with a Remedial Investigation Report (RIR) prepared for the subject property by Alisto Engineering Group and dated November 1997. This RIR is discussed separately above in Section 1: Previous Environmental Investigation Reports.

Property Solutions Review	This letter included a summary of previous environmental investigations and duplicated that previously discussed. However, it also outlined the abandonment of the water collection sump and installation of two additional vapor extraction wells for use as a pilot test and a potential future remediation system. According to Time Oil, results of the pilot test indicated that the extent of soil impacts at the subject property are well defined and very limited and that vapor extraction is feasible for remediating the hydrocarbon-impacted soils.
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Letter Subject	Jackpot Station 284 A– Time Oil 01-284
Letter Date	September 26, 2002
Letter Author & Title	Desiree Wells
Letter Author Company	Washington Department of Ecology
Letter Author City & State Location	Bellevue, WA
Letter Recipient	None identified
Letter Recipient Company	Time Oil Company
Letter Recipient City & State Location	Seattle, WA
Letter and Subject Property Variations	None
Property Solutions Review	<p>The letter was sent to Time Oil Company after a review of reports associated with a release on the property. The letter states that USTs were removed from the property in 1991-1992, and that soil contaminated with waste oil, diesel, gasoline, and PCBs was identified. Subsequent investigation and remediation were conducted between 1993 and 1997. A Vapor Extraction System was reportedly installed and tested in 1997.</p> <p>Ecology indicated that based on a review of the information provided, the agency has determined that not all waste oil, diesel, gasoline or PCB contamination above the cleanup levels has been removed from the soils associated with the December 12, 1990 and January 2, 1991 removal of five underground storage tanks.</p> <p>The letter requested an update of activities conducted since that time and notified Time Oil that the property was eligible for the Voluntary Cleanup Program. Ecology also noted that a "Reported Cleaned Up" status is not the same as a "No Further Action" status. It does not involve a detailed review by Ecology and may be based on the opinion of the site owner, consultant or contractor.</p> <p>The LUST case remains open and is considered a recognized environmental condition.</p>

Letter Subject	Status of Cleanup Activities at Jackpot Food Mart at 12807 Des Moines Way, Seattle, Washington (Time Oil Company property No. 01-284)
Letter Date	November 21, 2001
Letter Author & Title	Anastasia E. Duarte-Wilkinson, Environmental Toxicologist
Letter Author Company	Time Oil Company
Letter Author City & State Location	Seattle, Washington
Letter Recipient	John Balls
Letter Recipient Company	Washington Department of Ecology (Ecology)
Letter Recipient City & State Location	Bellevue, Washington
Letter and Subject Property Variations	None
Property Solutions Review	This letter was submitted in response to the September 26, 2002 letter from Ecology to the Time Oil Company discussed above.

Property Solutions Review	<p>The letter reviewed the previous environmental activities. However, Time Oil reported that "although Time Oil intends to address hydrocarbon impacts associated with the subject property, remediation efforts have not been implemented to date and no additional data has been collected since the submittal of the Alisto Engineering Group's Remedial Investigation Report dated November 1997."</p> <p>It does not appear that any remediation efforts have been undertaken at the subject property since 1997. As such, the LUST case associated with the subject property remains open and is considered a recognized environmental condition.</p>
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4.6 Asbestos-Containing Materials

During the course of the property visit, Property Solutions performed a preliminary review of interior, accessible areas of the subject buildings for the presence of suspect asbestos-containing materials (ACMs). This limited review was conducted for overview purposes only; additional suspect materials may exist in concealed locations (behind walls and above ceilings, within machinery, etc.). Also, not all suspect materials may have been sampled due to the condition or the location of the suspect materials. Destructive sampling of suspect ACMs was not performed. Suspect ACMs in an overall undamaged condition were not sampled, as that will damage the materials. Property Solutions will not be responsible for damaging materials or causing the materials to become friable. The USEPA defines asbestos-containing material as material containing greater than one percent asbestos. This review was not a pre-demolition/renovation survey or for regulatory submittal purposes.

Suspect and presumed ACMs were observed within the convenience store building during the property visit. The suspect ACMs are listed in the following tables.

Per the Bank of America, NA scope of work, samples of suspect ACMs were not collected. Property Solutions recommends that prior to the performance of any renovations, remodeling, demolition, or repairs by the in-house maintenance or engineering staff or outside contractors, verification sampling of SACM in the proposed work areas should be performed to ensure that no ACM will be impacted by work activities. Any abatement or removal of asbestos-containing materials must be performed in accordance with applicable federal, state, and local regulations.

Currently, there are no regulations requiring the removal of ACM unless it will be disturbed during renovation, repairs, or demolition. The USEPA recommends that as long as the ACM does not pose an imminent health threat, the materials can be managed under an Operations and Maintenance (O&M) Plan.

Friable Materials						
Sample No.	Description of Material	Material Classification	Sample Location	Condition	Approx. Amount	% Asbestos/ Type
NS	Acoustic ceiling tile	MISC	NS	Undamaged	1,000 s.f.	NS-SACM

Non-Friable Materials						
Sample No.	Description of Material	Material Classification	Sample Location	Condition	Approx. Amount	% Asbestos/ Type
NS	Drywall/joint compound	MISC	NS	Undamaged	Throughout the building	NS-SACM
NS	Vinyl floor tile/mastic	MISC	NS	Undamaged	1,000 s.f.	NS-PACM

4.7 Potential Mold/Water Intrusion

During the course of the Phase I Environmental Assessment property visit, Property Solutions performed limited observations for obvious signs of moisture, water intrusion, and potential mold at the subject property. This was performed for overview purposes only and is not a mold assessment or inspection for regulatory submittal purposes. Observed for obvious signs of moisture, water intrusion, and potential mold. These limited observations were conducted for overview purposes only; additional areas may exist in areas not observed or in concealed locations (behind walls and above ceiling tiles, etc.). These limited observations are not a mold assessment or inspection for regulatory submittal purposes. This was a limited visual review during a Phase I Environmental Assessment property visit of easily accessible areas for obvious signs of water intrusion and potential mold. An engineering assessment and property maintenance personnel should be consulted to verify water intrusion due to engineering concerns and deficiencies and addressed as appropriate.

Molds produce tiny spores to reproduce, which waft through the indoor and outdoor air continually. When mold spores land on a damp spot indoors, they may begin growing and digesting whatever they are growing on in order to survive. There are molds that can grow on wood, paper, carpet, and foods. When excessive moisture or water accumulates indoors, mold growth will often occur, particularly if the moisture problem remains undiscovered or un-addressed. There is no practical way to eliminate all molds and mold spores in the indoor environment; the way to control indoor mold growth is to control moisture. In addition, mold growth may be a problem after flooding.

Standards or Threshold Limit Values (TLVs) for airborne concentrations of mold, or mold spores, have not been set. Currently, there are no USEPA regulations or standards for airborne mold contaminants.

Mr. Karim was unaware of past water damage and/or historic leaks.

No obvious visual evidence of mold, water intrusion, water damage, or standing water was observed in the interior portions of the subject building accessed by Property Solutions during the property visit. No musty odors indicative of a moisture problem or porous materials such as carpets and insulation in damp niches were observed during the property visit.

No botanical materials such as bark chips or potted plants in moist locations such as an atrium were observed during the property visit. No indoor water features such as fountains, indoor waterfalls, or indoor swimming pools were observed in the subject building. Mr. Karim was unaware of reported odor complaints, allergic reactions, or other symptoms possibly associated with mold growth. No problems evident in the building envelope or problematic conditions surrounding the air intake were observed. No operatives conducive to bioaerosol generation such as animal confinement operations, agricultural activities, or wetlands were observed on the subject property or adjacent properties. This limited visual review was conducted for overview purposes only; mold may exist in concealed locations (behind walls, wallpaper, and ceilings, etc.). Mr. Karim was unaware of mold, water intrusion, water damage, standing water, or historic floods at the subject property.

Based on the above information, no further investigation is recommended at this time regarding moisture and mold.

5.0 CONCLUSIONS

We have performed a Phase I Environmental Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the Convenience Retailers, LLC Station No. 2840 located at 12807 Des Moines Memorial Drive in Seattle, King County, WA 98168. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report.

Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

1. Due to ongoing release investigations on the subject property as discussed below, there is a potential vapor intrusion risk to the subject property.

2. According to previous reports for the subject property, the subject property was developed as a gasoline station in 1966. A release of gasoline and oil was discovered during removal of three gasoline USTs, one heating oil UST, and one used oil UST in 1990, when the three current USTs were installed. Subsequent remediation efforts were conducted, including removal of impacted soil, installation of perforated piping in the impacted areas, and reported installation of two soil vapor extraction wells. No groundwater was encountered on the subject property, with the exception of a perched layer identified during one of the soil excavation events. A sump was installed in the area where groundwater was identified. Approximately 150 gallons of water was removed and was attributed to stormwater seepage. The sump was subsequently removed. Based on soil samples obtained from the excavation, constituents of concern remain on the subject property in excess of Model Toxic Control Act (MCTA) Method A cleanup criteria. No further investigations have been conducted on the subject property since 1997. The presence of constituents of concern in excess of cleanup criteria is a Recognized Environmental Concern.

3. The subject property has been developed with gasoline station operations since 1966 that included auto repair and maintenance activities. On maintenance bay was reported in previous reports for the subject property. Previous operations would have included the use of petroleum products and degreasers. Virgin and waste automotive fluids would have been stored and generated at the property. As no documentation was available investigating these former potential features associated with automotive repair operations indicating removal and/or environmental impact the former use of the subject property is a Recognized Environmental Condition.

4. The subject property is currently improved with three gasoline underground storage tanks (USTs). During the property visit, Property Solutions was provided with a print out from the leak detection system installed at the subject property. Review of the print out indicates that the system is operational. Based upon a review of compliance information, UST system information, and other compliance testing information, no issues of concern were identified, and the UST systems are tight and appear to be operating properly. The UST systems are reported to be over 15 years old; however, as indicated above, in adequate operating condition. Based upon the above information, USTs are not expected to be an environmental concern at this time; however, due to age of the systems, are considered more of a material threat of a potential release due to age, even though the systems are operating properly. Therefore, due to age of the systems they are considered a recognized environmental condition, but should continue to operate with constant surveillance and system testing.

The following ASTM non-scope consideration was identified at the subject property based on the findings provided in this report:

5. Based on the limited visual review conducted by Property Solutions, suspect and presumed asbestos-containing ceiling tile, floor tile and mastic, and drywall and joint compound were identified at the subject property. These materials were observed to be in an overall undamaged condition at the time of the property visit.

Currently, there are no regulations requiring the removal of ACM unless it will be disturbed during renovation, repairs, or demolition. The USEPA recommends that as long as the ACM does not pose an imminent health threat, the materials can be managed in place with an Operation & Maintenance Plan.

6.0 RECOMMENDATIONS

Property Solutions recommends the following:

1. Conduct further investigation and remediation activities with the goal of obtaining no further action status for the subject property from WDOE.
2. Assess the potential for vapor encroachment at the subject property, due to the historical release on the subject property.
3. Continue monitoring and required testing of the USTs and system components.
4. Prior to the performance of any renovations, remodeling, demolition, or repairs by the in-house maintenance or engineering staff or outside contractors, verification sampling of SACM in the proposed work areas should be performed to ensure that no ACM will be impacted by work activities. Any abatement or removal of asbestos-containing materials must be performed in accordance with applicable federal, state, and local regulations.

Currently, there are no regulations requiring the removal of ACM unless it will be disturbed during renovation, repairs, or demolition. The USEPA recommends that as long as the ACM does not pose an imminent health threat, the materials can be managed in place under an O&M Plan. Property Solutions recommends an ACM O&M Plan be developed and implemented.

7.0 LIMITATIONS

The conclusions and presented above are based upon the agreed upon scope of work outlined in the above report. Consultant makes no guarantees as to the accuracy or completeness of information obtained from others. It is possible that information exists beyond the scope of this investigation. Additional information which was not available to Consultant at the time of writing the Report may result in a modification of the conclusions and presented. The Services performed by Consultant have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. This report is not a legal opinion, but may under certain circumstances be prepared at the direction of counsel, may be in anticipation of litigation, and may be classified as an attorney client communication or as an attorney work product.

8.0 REFERENCES

8.1 Information Sources

1. United States Geological Survey's 7.5-minute topographic quadrangle map of Seattle South, Washington.
2. United States Department of Agriculture, Soil Conservation Services' Web Soil Survey website
3. Physiographic Regions of the United States produced by the U.S. Geological Survey, 2003.
4. Groundwater Atlas of the United States dated 1994 produced by the U.S. Geological Survey.
5. Radon information by EDR, Inc., Milford, Connecticut.
6. United States Department of the Interior, National Wetland Inventory Map for Seattle South, Washington.
7. City of Seattle's 2009 Water Quality Report
8. USEPA's Map of Radon Zones produced by the USEPA.
9. Aerial photographs provided by Environmental Data Resources, Inc.
10. Aerial photographs provided by TerraServer.
11. Polk's and Cole's City Directories, Seattle Public Library.
12. Fire insurance maps, provided by Environmental Data Resources, Inc.
13. The EDR Radius Map with GeoCheck, produced by Environmental Data Resources, Inc.
14. Envirofacts Data Warehouse, produced by USEPA.
15. City of Seattle, Building, Zoning, Planning, Water and Sewer Departments.
16. Washington Department of Ecology.
17. Baseline Site Assessment Report, Environ Strategy Consultants, Inc., November 1, 2008.
18. Phase I Environmental Assessment, Property Solutions, June 20, 2011

8.2 Definitions

Abandoned property property that can be presumed to be deserted, or an intent to relinquish possession or control can be inferred from the general disrepair or lack of activity thereon such that a reasonable person could believe that there was an intent on the part of the current owner to surrender rights to the property.

Activity and use limitations legal or physical restrictions or limitations on the use of, or access to, a site or 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. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil, soil vapor, groundwater, and/or surface water on the property. See Note 1.

NOTE 1-The term *AUL* is taken from Guide E2091 to include both legal (that is, institutional) and physical (that is, engineering) controls within its scope. Other agencies, organizations, and jurisdictions may define or utilize these terms differently (for example, EPA and California do not include physical controls within their definitions of "*institutional controls*." Department of Defense and International County/City Management Association use "*Land Use Controls*." The term "*land use restrictions*" is used but not defined in the *Brownfields Amendments*).

Actual knowledge the knowledge actually possessed by an individual who is a real person, rather than an entity. Actual knowledge is to be distinguished from constructive knowledge that is knowledge imputed to an individual or entity.

Actual Knowledge Exception If the user or environmental professional(s) conducting an environmental site assessment has actual knowledge that the information being used from a prior environmental site assessment is not accurate or if it is obvious, based on other information obtained by means of the environmental site assessment or known to the person conducting the environmental site assessment, that the information being used is not accurate, such information from a prior environmental site assessment may not be used.

Adjoining properties any real property or properties the border of which is contiguous or partially contiguous with that of the property, or that would be contiguous or partially contiguous with that of the property but for a street, road, or other public thoroughfare separating them.

All appropriate inquiries 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. See ASTM 1527-13 Appendix X1.

Approximate minimum search distance the area for which records must be obtained and reviewed pursuant to Section 8 subject to the limitations provided in that section. This may include areas outside the property and shall be measured from the nearest property boundary. This term is used in lieu of radius to include irregularly shaped properties.

Bona fide prospective purchaser liability protection (42 U.S.C. §9607(r))-a person may qualify as a bona fide prospective purchaser if, among other requirements, such person made "all appropriate inquiries 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 all appropriate inquiries would not generally preclude this liability protection. A person must make all appropriate inquiries on or before the date of purchase. The facility must have been purchased after January 11, 2002. See ASTM E 1527-13, Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

Business environmental risk a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of business environmental risk issues may involve addressing one or more non-scope considerations, some of which are identified in ASTM E 1527-13, Section 13.

Comparison with Subsequent Inquiry It should not be concluded or assumed that an inquiry was not all appropriate inquiries merely because the inquiry did not identify recognized environmental conditions in connection with a property. Environmental site assessments must be evaluated based on the reasonableness of judgments made at the time and under the circumstances in which they were made. Subsequent environmental site assessments should not be considered valid standards to judge the appropriateness of any prior assessment based on hindsight, new information, use of developing technology or analytical techniques, or other factors.

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.

Controlled recognized environmental condition a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). (See Note 2.) A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report. (See Note 3.)

Note 2-For example, if a leaking underground storage tank has been cleaned up to a commercial use standard, but does not meet unrestricted residential cleanup criteria, this would be considered a controlled recognized environmental condition. The "control" is represented by the restriction that the property use remain commercial.

Note 3-A condition identified as a controlled recognized environmental condition does not imply that the environmental professional has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or intended to be, implemented.

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

Contiguous property owner liability protection (42 U.S.C. §9607(q))-a person may qualify for the contiguous property owner liability protection 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 all appropriate inquiries 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 property. The all appropriate inquiries must not result in knowledge of contamination. If it does, then such person did "know" or "had reason to know" of contamination and would not be eligible for the contiguous property owner liability protection. See ASTM E 1527-13, Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

Continued Viability of Environmental Site Assessment Subject to ASTM E 1527-13, Section 4.8, an environmental site assessment meeting or exceeding this practice and completed less than 180 days prior to the date of acquisition⁵ of the property or (for transactions not involving an acquisition) the date of the intended transaction is presumed to be valid.⁶ If within this period the assessment will be used by a user different than the user for whom the assessment was originally prepared, the subsequent user must also satisfy the User's Responsibilities in ASTM E 1527-13, Section 6. Subject to Section 4.8 and the User's Responsibilities set forth in ASTM E 1527-13, Section 6, an environmental site assessment meeting or exceeding this practice and for which the information was collected or updated within one year prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction may be used provided that the following components of the inquiries were conducted or updated within 180 days of the date of purchase or the date of the intended transaction: (i) interviews with owners, operators, and occupants; (ii) searches for recorded environmental cleanup liens; (iii) reviews of federal, tribal, state, and local government records; (iv) visual inspections of the property and of adjoining properties; and (v) the declaration by the environmental professional responsible for the assessment or update.

5 Under "*All Appropriate Inquiries*" 40 C.F.R. Part 312, EPA defines date of acquisition as the date on which a person acquires title to the *property*.

6 Subject to meeting the other requirements set forth in this section, for purpose of the *LLPs*, information collected in an assessment conducted prior to the effective date of the federal regulations for *All Appropriate Inquiries* or this practice can be used if the information was generated as a result of procedures that meet or exceed the requirements of the E 1527-97 or -00 standards.

Contractual Issues Regarding Prior Assessment Usage The contractual and legal obligations between prior and subsequent users of environmental site assessments or between environmental professionals who conducted prior environmental site assessments and those who would like to use such prior environmental site assessments are beyond the scope of this practice.

Data failure a failure to achieve the historical research objectives in ASTM E 1527-13, §8.3.1 through 8.3.2.2 even after reviewing the standard historical sources in §8.3.4.1 through 8.3.4.8 that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap. See ASTM E 1527-13, 8.3.2.3.

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. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.). See ASTM E 1527-13 12.7.

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. Conditions determined to be de minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions.

Demolition debris concrete, brick, asphalt, and other such building materials discarded in the demolition of a building or other improvement to property.

Engineering controls (EC) physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on the property. Engineering controls are a type of activity and use limitation (AUL).

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(1) & 9607(r) and similar state or local laws.

Environmental professional a person meeting the education, training, and experience requirements as set forth in 40 CFR §312.10(b). See ASTM E 1527-13 Appendix X2. The person may be an independent contractor or an employee of the user.

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. It does not include material that is used in limited quantities for normal landscaping activities.

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: " (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, (42 U.S.C. §6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. §§6901 et seq.) has been suspended by Act of Congress), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act (42 U.S.C. §7412), and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator (of EPA) has taken action pursuant to section 2606 of Title 15. The term 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)." (See ASTM E 1527-13, Appendix X1.)

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). RCRA is sometimes also identified as the Solid Waste Disposal Act. RCRA defines a hazardous waste, at 42 U.S.C. §6903, as: "a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may-(A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."

Hazardous waste/contaminated sites sites 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 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, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition.

IC/EC registries databases of institutional controls or engineering controls that may be maintained by a federal, state or local environmental agency for purposes of tracking sites that may contain residual contamination and AULs. The names for these may vary from program to program and state to state, and include terms such as Declaration of Environmental Use Restriction database (Arizona), list of "deed restrictions" (California), environmental real covenants list (Colorado), brownfields site list (Indiana, Missouri) and the Pennsylvania Activity and Use Limitation (PA AUL) Registry.

Innocent landowner defense (42 U.S.C. §§9601(35) & 9607(b)(3)) 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." To qualify for the innocent landowner defense, such person must have made all appropriate inquiries on or before the date of purchase. Furthermore, the all appropriate inquiries must not have resulted in knowledge of the contamination. If it does, then such person did "know" or "had reason to know" of contamination and would not be eligible for the innocent landowner defense. See ASTM E 1527-13, Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

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 site or facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater 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. An institutional control is a type of Activity and Use Limitation (AUL).

Interviews those portions of ASTM E 1527-13 practice that are contained in Section 10 and 11 thereof and 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 the person identified by the owner or operator of a property as having good knowledge of the uses and physical characteristics of the property. See ASTM E 1527-13, 10.5.1.

Landowner Liability Protections (LLPs) landowner liability protections under CERCLA; these protections include the bona fide prospective purchaser liability protection, contiguous property owner liability protection, and innocent landowner defense from CERCLA liability. See 42 U.S.C. §§9601(35)(A), 9601(40), 9607(b), 9607(q), 9607(r).

Level of Inquiry is Variable Not every property will warrant the same level of assessment. Consistent with good commercial and customary practice, the appropriate level of environmental site assessment will be guided by the type of property subject to assessment, the expertise and risk tolerance of the user, and the information developed in the course of the inquiry.

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.

Material threat a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the environmental professional, is threatening and might result in impact to public health or the environment. An example might include an aboveground storage tank system that contains a hazardous substance and which shows evidence of damage. The damage would represent a material threat if it is deemed serious enough that it may cause or contribute to tank integrity failure with a release of contents to the environment.

Migrate/migration for the purposes of this practice, "migrate" and "migration" refers to the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface. See Note 4.

Note 4-Vapor migration in the subsurface is described in Guide E2600; however, nothing in this practice should be construed to require application of the Guide E2600 standard to achieve compliance with all appropriate inquiries.

Not Exhaustive All appropriate inquiries does not mean an exhaustive assessment of a property. There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions. One of the purposes of this practice is to identify a balance between the competing goals of limiting the costs and time demands inherent in performing an environmental site assessment and the reduction of uncertainty about unknown conditions resulting from additional information.

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 a portion of the property.

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

Owner generally the fee owner of record of the property.

Petroleum exclusion the exclusion from CERCLA liability provided in 42 U.S.C. §9601(14), as interpreted by the courts and EPA: "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 those substances included within the meaning of the petroleum exclusion to CERCLA, 42 U.S.C. §9601(14), as interpreted by the courts and EPA, that is: 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 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). (The word 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.⁴)

4 *Standard Definitions of Petroleum Statistics*, American Petroleum Institute, Fifth Edition, 1995.

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. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the property or a geographic area in which the property is located are not generally practically reviewable. Most databases of public records are practically reviewable if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally practically reviewable. Listings in publicly available records which do not have adequate address

information to be located geographically are not generally considered practically reviewable. For large databases with numerous records (such as RCRA hazardous waste generators and registered underground storage tanks), the records are not practically reviewable unless they can be obtained from the source agency in the smaller geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be practically reviewable. In other words, when so much data is generated that it cannot be feasibly reviewed for its impact on the property, it is not practically reviewable.

Prior Assessment Usage The ASTM E 1527-13 practice recognizes that environmental site assessments performed in accordance with this practice will include information that subsequent users may want to use to avoid undertaking duplicative assessment procedures. Therefore, this practice describes procedures to be followed to assist users in determining the appropriateness of using information in environmental site assessments performed more than one year prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction. The system of prior assessment usage is based on the following principles that should be adhered to in addition to the specific procedures set forth elsewhere in the ASTM E 1527-13 practice.

Property the real property that is the subject of the environmental site assessment described in the ASTM E 1527-13 practice. Real property includes buildings and other fixtures and improvements located on the property and affixed to the land.

Publicly available information that is publicly available means that the source of the information allows access to the information by anyone upon request.

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

Reasonable time and cost information that is obtainable within reasonable time and cost constraints means that the information will be provided by the source within 20 calendar days of receiving a written, telephone, or in-person request at no more than a nominal cost intended to cover the source's cost of retrieving and duplicating the information. Information that can only be reviewed by a visit to the source is reasonably ascertainable if the visit is permitted by the source within 20 days of request.

Recognized environmental conditions the presence or likely presence of any hazardous substances or petroleum products in, on, or at 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. De minimis conditions are not recognized environmental conditions.

Recorded land title records records of historical fee ownership, which may include leases, land contracts, and AULs on or of the property recorded in the place where land title records are, by law or custom, recorded for the local jurisdiction in which the property is located. (Often such records are kept by a municipal or county recorder or clerk.) Such records may be obtained from title companies or directly from the local government agency. Information about the title to the property that is recorded in a U.S. district court or any place other than where land title records are, by law or custom, recorded for the local jurisdiction in which the property is located, are not considered part of recorded land title records. See ASTM E 1527-13 8.3.4.4.

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)). For additional background information, see Legal Appendix (Appendix X1) to X1.1.1 "Releases and Threatened Release."

Relevant experience (as used in the definition of environmental professional) participation in the performance of all appropriate inquiries investigations, environmental site assessments, or other site investigations that may include environmental analyses, investigations, and remediation which involve the understanding of surface and subsurface environmental conditions and the processes used to evaluate these conditions and for which professional judgment was used to develop opinions regarding conditions indicative of releases or threatened releases (see §312.1(c)) to the subject property.

Rules of Engagement The contractual and legal obligations between an environmental professional and a user (and other parties, if any) are outside the scope of this practice. No specific legal relationship between the environmental professional and the user is necessary for the user to meet the requirements of this practice.

Uncertainty Not Eliminated No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost.

Use of Prior Information Subject to the requirements set forth in ASTM E 1527-13, Section 4.6, users and environmental professionals may use information in prior environmental site assessments provided such information was generated as a result of procedures that meet or exceed the requirements of this practice. However, such information shall not be used without current investigation of conditions likely to affect recognized environmental conditions in connection with the property. Additional tasks may be necessary to document conditions that may have changed materially since the prior environmental site assessment was conducted.

User the party seeking to use Practice E 1527 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The user has specific obligations for completing a successful application of this practice as outlined in ASTM E 1527-13, Section 6.

Visually and/or physically observed during a site visit pursuant to this practice, this term means observations made by vision while walking through a property and the structures located on it and observations made by the sense of smell, particularly observations of noxious or foul odors. The term "walking through" is not meant to imply that disabled persons who cannot physically walk may not conduct a site visit; they may do so by the means at their disposal for moving through the property and the structures located on it.

8.3 Acronyms

ACM asbestos-containing material

AST aboveground storage tank

ASTM American Society for Testing and Materials

AUL Activity and Use Limitations

bgs below ground surface

CERCLA Comprehensive Environmental Response, Compensation and Liability Act of 1980 (as amended, 42 USC § 9601 et seq.)

CERCLIS Comprehensive Environmental Response, Compensation and Liability Information System (maintained by EPA)

CFR Code of Federal Regulations

CORRACTS Facilities subject to Corrective Action under RCRA

CREC Controlled Recognized Environmental Condition

EA Environmental Assessment

ECRA Environmental Cleanup Responsibility Act

EDR Environmental Data Resources, Inc.

EPA United States Environmental Protection Agency

EPCRA Emergency Planning and Community Right to Know Act ((also known as SARA Title III), 42 USC § 11001 et seq.)

ERNS Emergency Response Notification System

ESA Environmental Site Assessment (different than an *environmental compliance audit*, 3.2.27)

FOIA U.S. Freedom of Information Act (5 U.S.C. §552 as amended by Public Law No. 104-231, 110 Stat.)

FR Federal Register

HREC Historical recognized environmental condition

ICs Institutional Controls

ISRA Industrial Site Recovery Act

LBP Lead-based paint

LLP Landowner Liability Protections under the *Brownfields Amendments*
LRST Leaking registered storage tank
LUST Leaking underground storage tank
MSDS Material safety data sheet
NCP National Contingency Plan
NFRAP former CERCLIS sites where no further remedial action is planned under CERCLA
NPDES National Pollutant Discharge Elimination System
NPL National Priorities List
NVLAP National Voluntary Laboratory Accreditation Program
OSHA Occupational Safety and Health Administration
PACM Presumed asbestos-containing material
PCBs Polychlorinated biphenyls
PLM Polarized light microscopy
PRP Potentially responsible party (pursuant to CERCLA 42 USC § 9607(a))
RCRA Resource Conservation and Recovery Act (as amended, 42 USC § 6901 et seq.)
RCRIS Resource Conservation and Recovery Act Information System
REC Recognized environmental condition
ROC Record of communication
RST Registered storage tank
SACM Suspect asbestos-containing material
SARA Superfund Amendments and Reauthorization Act of 1966 (amendment to CERCLA)
SIC Standard Industrial Classification
TEM Transmission electron microscopy
TSDF Hazardous waste treatment, storage or disposal facility
USC United States Code
USEPA United States Environmental Protection Agency
USGS United States Geological Survey
UST Underground storage tank

8.4 Purpose

The purpose of a Phase I Environmental Assessment is to evaluate issues that may have an impact on the subject property. The purpose of the ASTM E 1527-13 practice is to define good commercial and customary practice in the United States of America for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) and petroleum products. As such, the practice is intended to permit a User to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (hereinafter, the "landowner liability protections," or "LLPs"): that is, the practice that constitutes "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B). The goal of this process is to identify the presence or likely presence of hazardous substances or petroleum products on the property and identify conditions that indicate an existing release, a past release, or a material threat of a release of hazardous substances or petroleum products into structures on the subject property or into the ground, groundwater, or surface of the subject property. The purpose of this report is not intended to include de minimis conditions that generally do not present a material risk of harm to public 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. This report is also not intended to serve as a compliance assessment of the subject property or to identify health and safety issues or procedures. The ASTM E 1527-13 DOES NOT address whether requirements in addition to all appropriate inquiry have been met in order to qualify for the LLPs (for example, the duties specified in 42 U.S.C. §9601(b)(3)(a) and (b) and cited in Appendix X1 of the ASTM Standard, including the continuing obligation not to impede the integrity and effectiveness of activity and use limitations (AULs), or the duty to take reasonable steps to prevent releases, or the duty to comply with legally required release reporting obligations).

The ASTM E 1527-13 practice DOES NOT address requirements of any state or local laws or of any federal laws other than the all appropriate inquiry provision of the LLPs. Per the ASTM Standard, Users are

cautioned that federal, state, and local laws may impose environmental assessment obligations that are beyond the scope of this practice. Users should also be aware that there are likely to be other legal obligations with regard to hazardous substances or petroleum products discovered on the property that are not addressed in the ASTM practice and that may pose risks of civil and/or criminal sanctions for non-compliance.

8.5 Significant Assumptions

The following assumptions are made by Property Solutions in this report. Property Solutions relied on information derived from secondary sources including governmental agencies, the Client (User), designated representatives of the Client (User), property contact, property owner, property owner representatives, computer databases, and personal interviews. Except as set forth in this report, Property Solutions has made no independent investigation as to the accuracy and completeness of the information derived from secondary sources including government agencies, the Client, designated representatives of the Client, property contact, property owner, property owner representatives, computer databases, or personal interviews and has assumed that such information is accurate and complete. Property Solutions assumes information provided by or obtained from governmental agencies including information obtained from government websites is accurate and complete. Groundwater flow and depth to groundwater, unless otherwise specified by on-property well data, are assumed based on contours depicted on the United States Geological Survey topographic maps. Property Solutions assumes the property has been correctly and accurately identified by the Client (User), designated representative of the Client (User), property contact, property owner, and property owner's representatives. Property Solutions assumes that the Client (User), Client representatives, Client Legal Counsel, designated representatives of the Client, Key Site Manager, property contact, property owner, property owner representatives, and property brokers, used good faith in answering questions and in obtaining information for the subject property as defined in 10.8 of the ASTM E 1527-13 practice. This would also include obtaining those helpful documents from previous owners, operators, tenants, brokers, financial institutions etc. Property Solutions also assumes the Client will designate appropriate and knowledgeable people for performance of the Phase I Environmental Assessment including Key Site Managers.

8.6 Special Terms and Conditions

This Phase I Environmental Assessment was prepared in accordance with the stated and agreed upon Scope of Work. In order to perform a comprehensive environmental evaluation, subsurface investigation and testing would be required to definitively evaluate whether contamination has affected the subject property. Therefore, the findings and conclusions presented herein are based solely on the scope of work previously described and information gathered. No environmental assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of the ASTM practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and the ASTM practice recognizes reasonable limits of time and cost. Limitations to the assessment also include weather conditions, vegetation cover, parked cars, trucks, dumpsters, and anything limiting visual observation of or physical access to the subject property and neighboring properties. Vapor intrusion is not included in this scope of services and is considered an ASTM Non-scope consideration. This report and scope is not an environmental compliance audit.

Subject to Section 4.8 of the ASTM E 1527-13 Standard, an environmental site assessment meeting or exceeding the practice and completed less than 180 days prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction is presumed to be valid. If within this period the assessment will be used by a different user than the user (Client) for whom the assessment was originally prepared, the subsequent user (if authorized to rely on the report as identified in Section 1.5 Reliance of this report) must also satisfy the User's Responsibilities in Section 6 of the ASTM E 1527-13 standard. If this assessment is over 180 days old it is not valid and a new assessment should be performed per the ASTM standard.

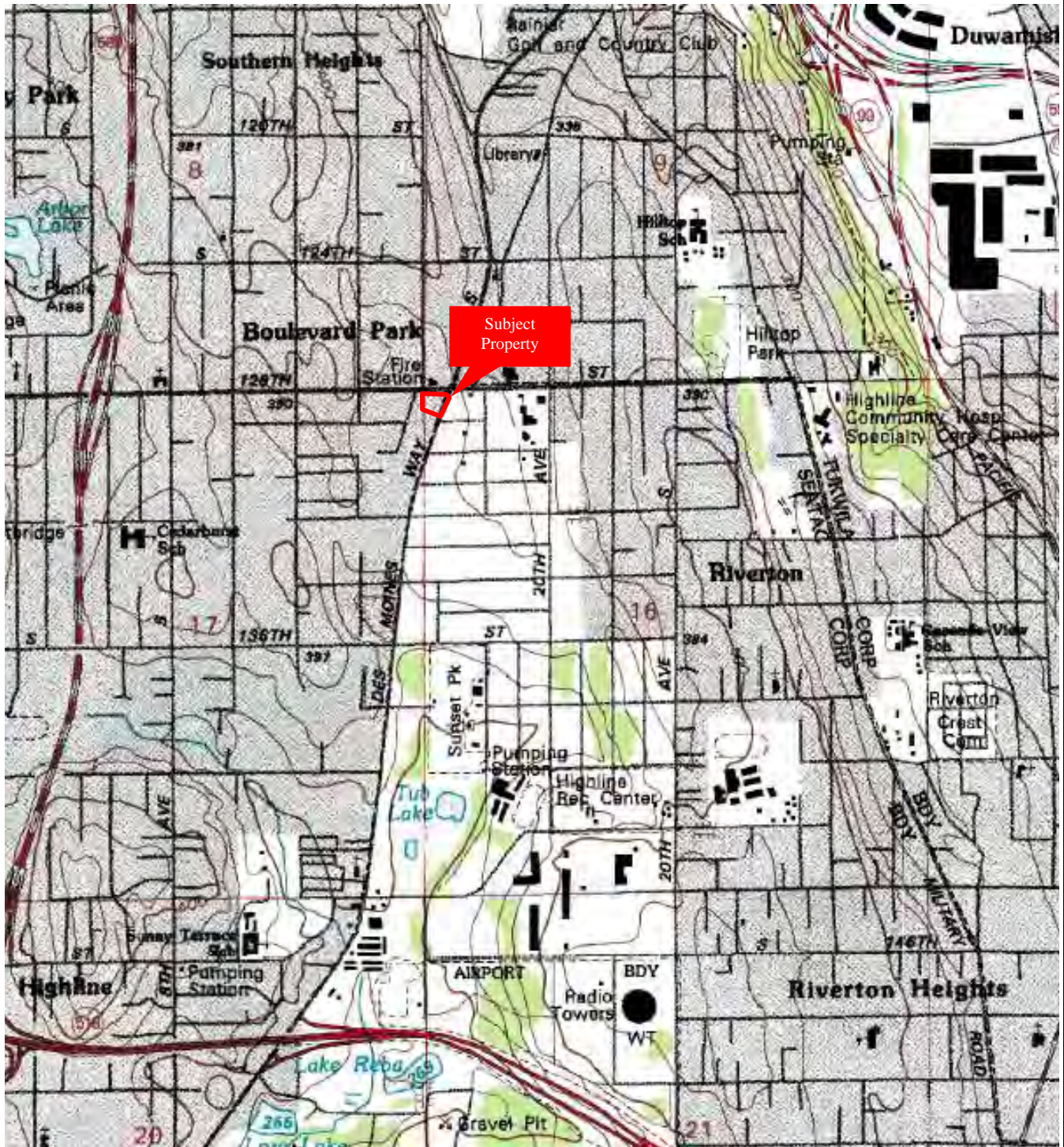
This report was specifically and only prepared for the identified specific Client (user) and for their specific purpose; no other person or entity for any other purpose may use, or rely on this report or its contents unless specifically authorized in writing by Property Solutions Inc. Subsequent consultants and subsequent Users may not rely on this report or information included in this report. Property Solutions Inc. will not be held

liable in any way for any and all unauthorized use of this report both currently and in the future. Consultants and subsequent Users must specifically and separately verify all information and not rely on the facts, findings, conclusions, and opinions of this report. Future use of this report by consultants or subsequent Users is strictly prohibited and not authorized to evaluate the appropriateness of using this information in environmental site assessments performed in the future by anyone other than Property Solutions Inc. Subsequent consultants and subsequent Users may not include this report or information included in this report (unless publicly available) without the written authorization of Property Solutions Inc.

No other special terms and conditions are applicable to this Phase I Environmental Assessment.

Appendix A:

Figures



US DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY 7.5' TOPOGRAPHIC QUADRANGLE



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20143047



Topo Quad Name:

Property Boundaries are Approximate



TAX MAP



Property Solutions Inc.

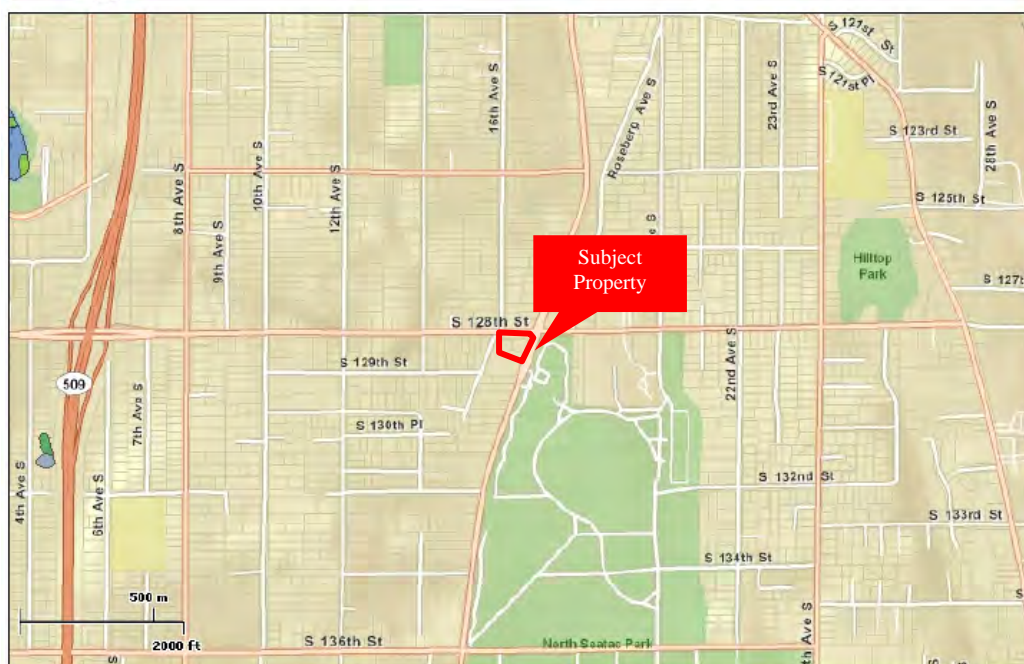
PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20143047





Apr 29, 2011



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

WETLAND MAP



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20143047



Appendix B:

Property Diagram

DESPRESSO
12653 DES MOINES
MEMORIAL DR

GOT SHED

HIGHLINE FIRE DEPT.
1606 S. 128TH ST

SOUTH 128TH STREET

UST
FIELD

PUMP
CANOPY

STORE

VACANT BLDG.
12825 DES MOINES
MEMORIAL DR

VACANT BLDG.
12825 DES MOINES MEMORIAL DR

DES MOINES MEMORIAL DRIVE

NORTH SEATAC PARK

LEGEND

-  Subject Property Boundary
-  General Refuse Dumpster
-  Fuel Dispenser

NOTE:

1. All Boundaries are Approximate.

PROPERTY DIAGRAM

12807 Des Moines Memorial Drive
Seattle, King County, WA 98168

Drawn By:

Not to Scale

Project No.: 20143047

CAD By:

RJA

CAD On:

9/11/2014

Revised On:

MM/DD/YYYY



Property Solutions Inc.

Environmental & Engineering Consulting
323 New Albany Road, Moorestown, NJ 08057
Phone: 856-813-3000 & Fax: 856-813-1069

Appendix C:

Photographs



1 : East side of the subject building



2 : North and east sides of the subject building



3 : South side of the subject building



4 : West side of the subject building



5 : Pump islands



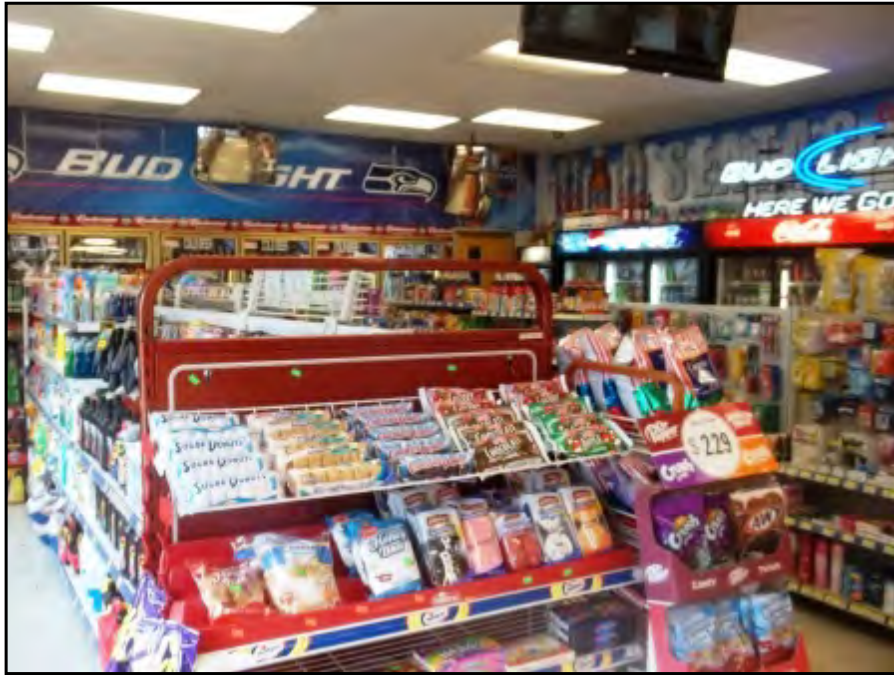
6 : Turbine interior



7 : Pump interior



8 : Monitoring well



9 : Store interior



10 : Dumpster



11 : Storage



12 : Veeder-Root UST systems monitor



13 : Adjacent property north Residences



14 : Adjacent property north North Highline Fire District



15 : Adjacent property northeast RV sales



16 : Adjacent property south Vacant building



17 : Adjacent property east City Park



18 : Adjacent property south Vacant building and parking area

Appendix D:

User Correspondence

Not provided

Appendix E:

Aerial Photographs



1956 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20143047



Aerial Company & Location: EDR, Inc., Shelton, CT

Property Boundaries are Approximate



1965 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20143047



Aerial Company & Location: EDR, Inc., Shelton, CT

Property Boundaries are Approximate



1977 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20143047





Aerial Company & Location: EDR, Inc., Shelton, CT

Property Boundaries are Approximate



1985 AERIAL PHOTOGRAPH

 <p>Property Solutions Inc.</p>	<p>PC&F Station 1-284 12807 Des Moines Way SW Seattle, Washington</p>	<p>Project No.: 20143047</p>	
<p>Aerial Company & Location: EDR, Inc., Shelton, CT</p>		<p>Property Boundaries are Approximate</p>	



1990 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20143047



Aerial Company & Location: EDR, Inc., Shelton, CT

Property Boundaries are Approximate



2006 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20143047



Aerial Company & Location: EDR, Inc., Shelton, CT

Property Boundaries are Approximate



2010 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20143047



Aerial Company & Location: EDR, Inc., Shelton, CT

Property Boundaries are Approximate

Appendix F:

Historic Maps



12807 Des Moines Way, SW

12807 Des Moines Way, SW
Seattle, WA 98168

Inquiry Number: 3055793.3

April 29, 2011

Certified Sanborn® Map Report

Certified Sanborn® Map Report

4/29/11

Site Name:

12807 Des Moines Way, SW
12807 Des Moines Way, SW
Seattle, WA 98168

Client Name:

Property Solutions, Inc.
323 New Albany Road
Moorestown, NJ 08057

EDR Inquiry # 3055793.3

Contact: Greg Hillebrand



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Property Solutions, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 12807 Des Moines Way, SW
Address: 12807 Des Moines Way, SW
City, State, Zip: Seattle, WA 98168
Cross Street:
P.O. # 20112160
Project: 20112160
Certification # 4854-4D00-82DB



Sanborn® Library search results
Certification # 4854-4D00-82DB

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

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Appendix G:

Previous Reports and Plans



Property Solutions INC.

Environmental & Engineering Consulting

31A Northfield Avenue • Edison, New Jersey 08837 • 732-417-0999 • Fax 732-417-0888

PHASE I ENVIRONMENTAL ASSESSMENT

of

Pacific Convenience & Fuel Station 1-284
12807 Des Moines Way SW
Seattle, King County, Washington 98168
BOA Project Number – 11-004210-ENV02-021
PCF Site No. I-284

Prepared for:

Bank of America, NA
1075 Main Street
Mail Code: MA6-535-03-04
Waltham, Massachusetts 02451

Prepared by:

Property Solutions Incorporated
31A Northfield Avenue
Edison, New Jersey 08837

June 24, 2011

Property Solutions Project No. 20112160



Property Solutions INC.

Environmental & Engineering Consulting

31A Northfield Avenue • Edison, New Jersey 08837 • 732-417-0999 • Fax 732-417-0888

PHASE I ENVIRONMENTAL ASSESSMENT

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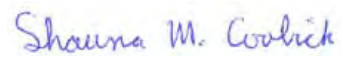
Property Solutions Incorporated
31A Northfield Avenue
Edison, New Jersey 08837

Dated: June 24, 2011

Property Solutions Project No. 20112160

 *Betsy McNamara* for

Betsy McNamara, CHMM
Environmental Consultant


 *Shauna M. Coobick*

Shauna M. Coobick, P.G.
Senior Geologist



James Carey, MEM, LSRP
Regional Manager

We declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.


for
Betsy McNamara, CHMM
Environmental Consultant


James Carey, MEM, LSRP
Regional Manager

20112160

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20112160

PROJECT SUMMARY

Client Name/User:	Bank of America	Property Visit Date:	May 16, 2011
Client Contact:	Bernadette Quillinan	Construction Date:	1966
Property Solutions Project No.:	20112160	No. Bldgs./Units:	One Bldg./One Unit
Property Solutions Project Manager:	Mr. James Carey	No. of Stories:	One story
Phone No.:	(732) 417-0999 (Ext. 210)	Bldg. Square Footage:	1,512 square feet
Email:	jcarey@propertysolutionsinc.com	Property Acreage:	0.30 acre
Property Name:	PC&F Station 1-284	Basement/Slab-on-grade:	Slab-on-grade
Property Address:	12807 Des Moines Way SW	Property Use:	Convenience store and gasoline station
Property Town, County, State:	Seattle, King County, Washington	Property History:	Unimproved land
Property Identification:	162304906603	Other Improvements:	Pavement

Our review of general property information, observation of adjacent properties, research of historical property information, including a review of environmental records, and a property visit revealed the following:

	No Issue Identified	REC	HREC	ASTM Non-scope considerations	Refer to Section
Property Operations		(1)			2.4
Neighboring Properties	X				2.2
Historical Review		(1)			4.4
Previous Reports		(1)			4.5
Regulatory Review		(1)			4.3
USTs		(1)			4.1.1
ASTs	X				4.1.1
PCBs		(1)			4.1.1
Chemicals/Hazardous Materials/Raw Materials	X				4.1.1
Waste Generation/Disposal	X				4.1.1
Stressed Vegetation, Staining, and Odors	X				4.1.1
Surficial Disturbances	X				4.1.1
ACMs				(2)	4.6
Radon	X				4.1.2
Lead-Based Paint	X				4.1.2
Lead in Drinking Water	X				4.1.2
Other	X				

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Notes: To understand the property and report, you must read the complete report.

We have performed a Phase I Environmental Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of Pacific Convenience & Fuel Station 1-284 located at 12807 Des Moines Way SW in Seattle, King County, Washington 98168. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property, except for the following:

Recognized Environmental Conditions

- (1) The subject property has operated as a gasoline filling station since development of the current improvements in 1966. Based on review of the environmental database report, the subject property is listed in the underground storage tank (UST), leaking UST (LUST), and ICR databases. A release was reportedly identified during removal of five former USTs in 1990 and 1991 and soil has been impacted with gasoline, diesel, waste oil, and PCB constituents. The current status is listed as "cleanup started". The on-going operations and open LUST case pose an environmental concern to the subject property and are considered a recognized environmental condition.

ASTM Non-Scope Consideration

The following ASTM non-scope consideration was identified at the subject property based on the findings provided in this report:

- (2) Based on the date of construction of the subject property (1966), asbestos-containing materials (ACMs) may be present at the subject property. Based on the limited visual review conducted by Property Solutions, suspect asbestos-containing ceiling tile and drywall and joint compound and presumed asbestos-containing floor tile and mastic were identified at the subject property. These materials were observed to be in an overall undamaged condition at the time of the property visit. Currently, there are no regulations requiring the removal of ACM unless it will be disturbed during renovation, repairs, or demolition. The USEPA recommends that as long as the ACM does not pose an imminent health threat, the materials can be managed in place.

20112160

EXECUTIVE SUMMARY

Property Solutions Incorporated (Property Solutions) conducted a Phase I Environmental Assessment of the Pacific Convenience & Fuel (PC&F) Station 1-284 located at 12807 Des Moines Way SW in Seattle, King County, Washington 98168 (subject property) at the request of Bank of America, NA.

The subject property consists of a rectangular-shaped, 0.30-acre parcel of land located on the southwest corner of the intersection of Des Moines Way SW and 128th Street SW. The subject property is improved with one, one-story convenience store building with associated pump island canopy constructed in 1966 (subject building). The subject property is also improved with three underground storage tanks (USTs) and two dispensers. There are no other improvements on the subject property. The remaining portions of the subject property are covered with the associated paved parking areas. No water bodies are located on the subject property or adjoining properties. Vehicular access to the subject property is from the east via Des Moines Way SW and from the north off 128th Street SW.

The subject building consists of wood construction with slab-on-grade foundation. The gross area of the subject building is approximately 1,512 square feet with vinyl floor tile, ceramic tile and concrete flooring, wallpaper over drywall and suspended ceiling tiles. The convenience store building also contains storage areas, cold storage and restroom facilities. The subject building is heated and cooled by an electric rooftop heat pump and compressor.

The subject property was historically residential from prior to 1956, until the current improvements were constructed in 1966.

We have performed a Phase I Environmental Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of PC&F Station 1-284 located at 12807 Des Moines Way SW in Seattle, King County, Washington 98168. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property, except for the following:

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20112160

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20112160

1.0 INTRODUCTION

Property Solutions Incorporated (Property Solutions) conducted a Phase I Environmental Assessment of PC&F Station 1-284 located at 12807 Des Moines Way SW in Seattle, King County, Washington 98168 (subject property) at the request of Bank of America. Bank of America is considered the User, as defined in ASTM E 1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The subject property is identified as 162304906603, according to the King County Assessor.

A property location map is included in Appendix A.

This Phase I Environmental Assessment was conducted in general accordance with Bank of America, NA's General Services Agreement Number CW108417 dated October 6, 2009. The work was authorized by the Standard Engagement Letter (SEL) dated April 25, 2011, for BOA Project Number – 11-004210-ENV02-021.

Per the ASTM practice and throughout this report, the Client will be considered the same as the User in the ASTM E 1527-05 practice.

1.1 Purpose

The purpose of a Phase I Environmental Assessment is to evaluate issues that may have an impact on the subject property and to meet the purpose of Bank of America, NA's General Services Agreement Number CW108417 dated October 6, 2009 and the ASTM E 1527-05 practice. The purpose is further described in Section 8.4. This report is for the purpose of determining whether to make a loan evidenced by a note secured by the property.

1.2 Scope of Work

This Phase I Environmental Assessment was conducted in accordance with Bank of America, NA's General Services Agreement Number CW108417 dated October 6, 2009.

1.3 Significant Assumptions

The significant assumptions made by Property Solutions in this report are per Bank of America, NA's General Services Agreement Number CW108417 dated October 6, 2009, ASTM E 1527-05 practice, and as described further in Section 8.5.

1.4 Special Terms and Conditions

This Phase I Environmental Assessment was prepared in accordance with the stated and agreed upon Scope of Work. This Phase I Environmental Assessment was prepared in accordance with Bank of America, NA's General Services Agreement Number CW108417 dated October 6, 2009. Special terms and conditions are described in Section 8.6.

1.5 Reliance

Bank of America, N.A., its employees, agents, successors and assigns may rely upon this report in evaluating a request for an extension of credit to be secured by the subject property. This report may also be used and relied upon by (a) any additional lender extending credit to be secured by the subject property (the credit to be extended by Bank of America, N.A. and such additional lender is referred to as the (Mortgage Loan”) and (b) any actual or prospective purchaser, transferee, assignee, or servicer of the Mortgage Loan (or any portion thereof), any actual or prospective investor (including agent or advisor) in any securities evidencing a beneficial interest in or backed by the Mortgage Loan (or any portion thereof), any rating agency actually or prospectively rating any such securities, any indenture trustee, and any institutional provider(s) from time to time of any liquidity facility or credit support for such financing. In addition, this report or a reference to this report may be included or quoted in any offering circular, private placement memorandum, registration statement or prospectus and Property Solutions agrees to cooperate in answering questions by any of the above parties in connection with a securitization or transaction involving the Mortgage Loan (or any portion thereof) and/or such securities. This report has no other purpose and should not be relied upon by any other person or entity.

2.0 GENERAL PROPERTY CHARACTERISTICS

2.1 Property Location

Property Location	
Property Name	PC&F Station 1-284
Property Address	12807 Des Moines Way SW
Property Town, County, State, Zip	Seattle, King County, Washington 98168
Property Tax Identification	162304906603 (King County Assessor)
Property Topographic Quadrangle	<u>Des Moines, Washington</u>
Nearest Intersection	Des Moines Way SW/128 th Street SW
Area Description	Suburban, commercial, residential

An excerpt from the USGS 7.5-minute series topographic quadrangle map of Des Moines, Washington, locating the subject property, is included in Appendix A.

2.2 Adjacent Properties

Review of neighboring properties from the subject property and from public thoroughfares, and research of available information regarding the neighboring properties, were performed to identify evidence of environmental concerns that could adversely impact the subject property. The subject property is located in a residential and commercial area of Seattle, Washington.

Direction	Property	Address	Operations
North	North Highline Fire Department	1606 128 th Street SW	Fire department
	Go to Shed	12653 Des Moines Way NW	Portable shed sales
South and West	Rips baseball park	12825 Des Moines Way NW	Equipment sales
East	North Seatac Park	Not identified	Park

Based on a review of neighboring properties from the subject property and from public thoroughfares, the neighboring properties do not appear to be of the type likely to pose a significant threat to the environmental condition of the subject property. The neighboring properties were not listed in the environmental database reviewed or Envirofacts.

A property diagram including neighboring properties is included in Appendix B. Photographs including the neighboring properties are included in Appendix C.

2.3 Property Description

Property Information	
Property Ownership Name	Pacific Convenience and Fuels (King County Assessor)
Date of Acquisition	2008 (Owner representative)
Property Acreage	0.30 acres (King County Assessor)
Property Shape	Rectangular
Property Use	Convenience store and filling station
Number of Buildings	One
Number of Stories	One
Construction Date	1966 (King County Assessor)
Building Square Footage	1,512 square feet (King County Assessor)
Basement/Slab-on-grade	Slab-on-grade
Number of Units	One
Ceiling Finishes	Acoustic ceiling tile and metal
Floor Finishes	Vinyl floor tile, ceramic tile and concrete
Wall Finishes	Drywall
HVAC (Energy Source & Type of System)	Electric heat pump and compressor
Renovation Date	None identified (King County Assessor, Owner representative)
Renovation Description	N/A
Vehicular Access	From the east off Des Moines Way SW and from the north off 128 th Street SW

Property Information	
Other Improvements	Canopy over the gas pumps
Property Coverage	Footprint of the subject building, associated parking areas, and landscaping

A property diagram of the subject property is included in Appendix B.

2.4 Property Operations

The subject property is utilized as convenience store and filling station with three underground storage tanks (USTs) and two dispenser pumps.

No industrial or manufacturing operations were observed at the subject property at the time of the property visit.

Based on the property operations observed during the property visit, the presence of fuel pumps and USTs is a potential environmental concern. This issue is further discussed in Sections 4.1.1 and 4.5.

Property Operations	
Fueling Station	Yes
Number of Pump Islands	2
Number of Dispensers	2
Fuel Types	Gasoline
Convenience Store	Yes
Car Wash	No
Auto Repair/Service	No
Former Car Wash	No
Former Auto Repair/Service	Possibly, based on former waste oil UST

2.5 Utilities

Property Solutions was informed by Mr. Steve Matthews, property owner representative, that the following companies and municipality currently provide utility services to the subject property:

Utility	Provider
Electricity	Seattle Power & Light
Natural Gas	Not provided
Sanitary Sewerage	City of Seattle
Potable Water	City of Seattle
Solid Waste Removal	Waste Management

Utility	Provider
Fuel Oil	Not provided
Steam	Not provided

3.0 ENVIRONMENTAL SETTING

3.1 Regional Physiographic Conditions

Topographic Quadrangle Name	Des Moines, Washington
Property Elevation	375 feet above mean sea level
Surface Gradient	Easterly
Property Drainage	Toward storm sewer manholes located in the paved portions of the property and along the adjacent roadways
Regional Drainage	Easterly toward the Dumamish River locate approximately 1.5 miles east of the property
Closest Perennial Water body	Dumamish River

A copy of the USGS 7.5-minute series topographic quadrangle map of Des Moines, Washington, is included in Appendix A.

3.2 Soil Conditions

USDA County Soil Survey	
Information Source	USDA Web Soil Survey Website (http://websoilsurvey.nrcs.usda.gov/app/)
Date of Information Source	No soil data available for the subject property area.

3.3 Geologic Conditions

Information Source	U.S. Geological Survey
Title of Publication	Physiographic Regions of the United States
Date of Publication	April 2003
Name of Unit	Puget Trough
Description of Unit: Sorted combinations of silt, sand, and gravel deposited in streambeds and alluvial fans; locally includes alpine drift, peat, lacustrine, landslide, lahar, and rare loess deposits.	

3.4 Groundwater Conditions

Information Source	U.S. Geological Survey
Title of Publication	Groundwater Resources of the United States
Date of Publication	1994
Underlying Aquifer	Puget-Willamette Trough Regional Aquifer System

Information Source	U.S. Geological Survey
Description: unconsolidated-deposit aquifers consist chiefly of glacial deposits.	

Expected Depth to Shallow Groundwater	Less than 30 feet below ground surface
Information Source	Department of Ecology letter
Expected Direction of Shallow Groundwater Flow	Easterly
Information Source	<u>Des Moines, Washington</u> topographic map

4.0 RESULTS OF INVESTIGATION

4.1 Property Visit Observations

Property Visit Date	May 16, 2011
Property Solutions Personnel and Title	Betsy McNamara, Project Manager
Property Escort Name	Steve Matthew
Property Escort Title	Property Manager
Property Escort Company	PC&F
Property Escort Affiliation	Owner representative
Property Escort Years of Association with Subject Property: 25 years	
The Key Site Manager questionnaire (KSM) was completed	
Person Completing KSM questionnaire Name	Martha Abatecola
Person Completing KSM questionnaire Company	PC&F
Person Completing KSM questionnaire Affiliation	District Manager
Inaccessible Areas and Reason: None	
Weather Conditions: Sunny	Approximate Temperature: 70 degrees F
No weather conditions limiting observations were noted.	
Describe Limiting Conditions Present: None	

Property Solutions observed the following areas during the property visit:

- The property surface and boundaries
- The interior and exterior the building
- The pump and turbine sumps and the fill and vapor recovery ports

Photographs taken during the property visit are included in Appendix C.

4.1.1 ASTM Scope Considerations

During the property visit the below ASTM Scope considerations were reviewed. Visual evidence of the below ASTM Scope considerations were evaluated during the property visit. In addition, the property contact or Key Site Manager was questioned about the presence of the

below ASTM Scope items.

ASTM Scope Item	Evidence Observed	Property Contact Aware of Item	Comment
USTs	Yes	Yes	Discussed below
ASTs	No	No	Not a concern
PCB electrical equipment	No	No	Electricity is provided to the property via an off-site transformer.
Hydraulic equipment	No	No	Not a concern
Chemicals, Hazardous Materials, and Raw Materials Storage and Usage	Yes	Yes	Small quantities of domestic chemicals. Not a concern.
Waste Generation, Storage and Disposal	Yes	Yes	Waste consisted of general trash accumulated in two dumpsters. Not a concern
Wells, Sumps, Pits, and Floor Drains	Yes	Yes	Discussed below
Stormwater Runoff and Surface Water	No	No	Not a concern
Lagoons, Septic Systems, Separators	No	No	Not a concern
Stressed Vegetation, Staining and Odors	No	No	Not a concern
Surficial Disturbances	No	No	Not a concern
On-property Dry Cleaners	No	No	Not a concern

No issues of concern were noted during the property visit with the exception of the following

Underground Storage Tanks

The following table is a list of current and former underground storage tanks (USTs) identified at the subject property: The following table lists the current/former underground storage tanks (USTs) identified at the subject property:

UST No.	Capacity (gallons)	Contents	Material of Construction	Date	Leak Detection	Corrosion Protection	Spill/Overfill	Registered	Status
01	10,000	Unleaded Plus	Double wall steel/Fiberglass clad	1966	Yes	Yes	Yes	Yes	ACT
02	10,000	Unleaded Plus	Double wall steel/Fiberglass clad	1966	Yes	Yes	Yes	Yes	ACT
03	10,000	Unleaded Plus	Double wall steel/Fiberglass clad	1966	Yes	Yes	Yes	Yes	ACT
04	8,000	Gasoline	Steel	1964	UNK	UNK	UNK	UNK	REM 1990

UST No.	Capacity (gallons)	Contents	Material of Construction	Date	Leak Detection	Corrosion Protection	Spill/Overfill	Registered	Status
05	8,000	Gasoline	Steel	1964	UNK	UNK	UNK	UNK	REM 1990
06	10,000	Leaded Gasoline	Steel	1964	UNK	UNK	UNK	UNK	REM 1990
07	550	Heating Oil	Steel	1964	UNK	UNK	UNK	UNK	REM 1991
08	300	Waste Oil	Steel	1964	UNK	UNK	UNK	UNK	REM 1991

Date - Date of installation

UNK - Unknown

ACT - Active

REM - Removed

UST No.	Location/Former Location	Use/Former Use of Tank
01	North side of property	Gasoline storage
02	North side of property	Gasoline storage
03	North side of property	Gasoline storage
04-06	Southeast of subject building	Gasoline storage
07-08	West of subject building	Waste oil and heating oil storage

Five USTs were removed from the property in 1990-1991. According to Department of Ecology information reviewed during this investigation, a release was identified during tank removal activities and soil has been impacted with waste oil, diesel, gasoline, and PBC constituents. The former USTs are discussed in Sections 4.3.2 and 4.5

The following table is a list of current piping information reported at the subject property for each tank:

UST No.	Material of Construction	Date	Leak Detection	Corrosion Protection
01	Fiberglass	1964	Yes	Fiberglass
02	Fiberglass	1964	Yes	Fiberglass
04	Fiberglass	1964	Yes	Fiberglass

An annual tank monitor inspection report was performed on January 25, 2011. According to the report each item tested was marked as passed. A line leak detector test was performed by on January 25, 2011, and each of the three leak detectors were marked as passed. Air to liquid ratio testing analyses performed by the Washington Oregon Gasoline Vapor Control Committee were not provided.

The gas station is equipped with a Veeder Root TLS-250 leak detector. The unit appeared to be in good working order. While visiting the property a System Status Report printout was obtained and it identified all function normal. An inventory report for each of the four tanks was also available for review on the printout which identified product volume, ullage, height, water level, temperature, and sensor status.

The UST fill ports were identified by the correct API fuel delivery color code minus the white or black crosses. Each fill port was equipped with a spill bucket, overflow flapper valve, and a dual port vapor recovery system.

There are two separate pumping units with a total of two nozzles. Each of the gasoline nozzles was equipped with a stage II vapor recovery system. The hoses attached to each nozzle appeared to be in good condition with no significant amount of cracks or damage. The containment sump was constructed of steel which has a sensor tied into the leak detector system. No significant amount of liquid or staining was observed in the containment sump. The fuel dispenser piping consisted of stainless steel.

Vent pipes for the current three USTs were observed on the northeast side of the property.

Additional Information	
Car Wash	No
Grit trap/clarifier for Car Wash	N/A
Recycled water system	N/A
Grease Trap for Kitchen Convenience store	No
Auto Service/Repair – Current	No
Number of Service Bays	N/A
Oil/Water Separator	No
Oil/Water Separator discharge receptor	N/A
Trench Drains	No
Hydraulic in-ground lifts	No
Former Hydraulic in-ground lifts	Unknown
Former on property Auto service/repair	Possible, based on former presence of waste oil UST.
Number of former service bays	Unknown
Number current pump islands	2
Number current dispensers	2
Fuel Grades	Gasoline
Significant Staining/Leakage at pump dispensers	No
Significant staining/Leakage in pits	No
Significant staining/Leakage - other	No

Additional Information	
Previous USTs at the property	Yes – Five USTs removed in 1991-1992
Monitoring Wells present	Yes
Observation Wells present	No
UST systems checked during property visit (print out or system check)	Yes
Remediation System on property	No
Ongoing Investigation	Yes
EDR Well Database- property listings	No

General Compliance Information	
Last Annual System Inspection	January 25, 2011
Inspection Company Name	Northwest Pump and Equipment
Leak Detection System Check	January 25, 2011
Cathodic Protection System Check-USTs	Not Applicable (Fiberglass)
Cathodic Protection System Check-Lines	Not Applicable (Fiberglass)
Tank Integrity Test	Not Provided
Line Integrity Test	Not Provided
Spill/Overfill Bucket Test	Not Provided
Sumps Test	Not Provided
Last Regulatory Agency Compliance Inspection	Not Provided
Open Violations/Compliance issues Reported	None Reported

The following areas associated with the tank systems were inaccessible at the time of the property visit due to certifications or training requirements per the property owner. Due to the nature of the property operations and compliance requirements outside of the scope of a Phase I Environmental Assessment the below inaccessible areas are not considered to be significant data gaps or inhibit overall evaluation of the property:

- No notable areas

Washington State UST Requirements

USTs are regulated in the State of Washington (Department of Ecology) under the provisions of Washington Administrative Code (WAC) Chapters 173-360, Underground Storage Tank Regulations.

The WAC defines “Underground Storage tank” or “UST” as “any one or combination of tanks (including underground pipes connected thereto) that is used to contain an accumulation of regulated substances, and the volume of which (including the volume of underground pipes connected thereto) is ten percent or more beneath the surface of the ground. This term does not include any of the exempt UST systems specified in WAC 173-360-110(2), or any piping connected thereto”

Registration is required for USTs in operation (not permanently closed or empty) on or after July 1, 1991 according to WAC 173-360-130. However, possession of a valid permit does not preclude enforcement against the owner or operator of the underground storage tank under this or other laws. Emergency spill or overflow containment USTs, however, are exempted as long as they are emptied as soon as reasonably possible after each use. USTs owners are required to submit an annual compliance fee of \$100 per UST to the department.

USTs in Washington were required to be upgraded to meet the below technical requirements in conjunction with Federal UST regulations by December 22, 1998. USTs (whether of single-wall or double-wall construction) are required in Washington to:

- Prevent releases due to corrosion or structural failure for the operation al life of the UST system.
- Be cathodically protected against corrosion, constructed of a noncorrodible material, steel clad with a noncorrodible material, or designed in a manner to prevent the release or threatened release of any stored substance.
- Be constructed or lined with material that is compatible with the stored substance.

The piping portion of the UST system which routinely contains regulated substances and is in contact with the ground shall be properly designed and constructed with material that is compatible with and impermeable to stored substance as well as having some form of secondary containment. Corrosion protection options are specified below:

- The piping is constructed of fiberglass-reinforced plastic.
- The piping is constructed of steel and cathodically protected.

Tanks requiring an upgrade to fall under compliance with the previously mentioned standards have different options to reach current requirements as specified in WAC173-360-310. Existing steel USTs must be upgraded with an interior lining (with inspections being conducted every five years) or cathodic protection. Existing fiberglass USTs must be upgraded with proper spill and overfill prevention equipment (listed in the next section)

Owners/operators who have UST systems that are not up to the previously stated standards have the potential of having their operating certificates revoked and being prevented from receiving their normal fuel deliveries.

Spill prevention equipment

Per WAC 173-360-300(3i), an owner and permittee must install, operate, and maintain spill prevention equipment, such as a spill catchment basin or spill bucket, that will prevent the release of a regulated substance to the environment when the transfer hose is detached from the fill pipe. Spill prevention equipment was identified for the UST systems in the form of catchment basins and spill buckets.

Overfill prevention equipment

Per WAC 173-360-300(3ii), an owner and permittee must install, operate, and maintain overfill prevention equipment and follow fill procedures that prevent any of the fittings located on top of the UST from being exposed to a regulated substance due to overfilling; and either (a) automatically shuts off flow into the UST when the UST is no more than 95 percent full; or (b) alerts the person depositing the regulated substance into the UST when the UST is no more than 90 percent full by restricting the flow into the UST or by triggering a high level alarm. Overfill prevention equipment was provided for the UST systems in the form of alarms and automatic shutoff valves.

Corrosion protection

Per WAC 173-360-320, an owner and permittee must protect all USTs (whether of single wall or multiwall construction) and underground piping that routinely contains a regulated substance from corrosion. Should USTs and underground piping be constructed of steel or other metal, permanent cathodic protection test must be installed. UST Systems with impressed current cathodic protection systems shall also be inspected every 60 days to ensure the equipment is running properly.

However, if a permanent cathodic protection test station is not installed, an owner and permittee must have a written cathodic protection test procedure that has been developed in accordance with a nationally accepted code of practice. The written test procedure must contain sufficient detail to ensure that initial test conditions can be replicated during each test (i.e., electrical connections are made at the same points and the reference electrode contacts the soil at the same location), be followed for all cathodic protection tests at the UST facility; and be provided to the DOE upon request.

Cathodic protection is not required for the fiberglass UST systems.

Release Detection

As per WAC 173-360-335, owners and operators of new and existing petroleum UST systems shall provide a method, or combination of methods, of release detection that: Can detect a release from any portion of the tank and the connected underground piping that routinely contains a regulated substance; is installed, calibrated, operated, and maintained in accordance with the

manufacturer's instructions, including routine maintenance and service checks for operability or running condition; and meets requirements for WAC's methods of detection for both tanks and associated piping.

Tank release detection methods may include: tank gauging, tightness testing, and statistical inventory reconciliation, interstitial monitoring (where applicable), and vapor monitoring (among others). Release detection equipment should be maintained in compliance with the manufactures' recommendations.

Daily inventory control shall be conducted as well as inventory volume measurements for regulated substance inputs, withdrawals, and the amount still remaining the tank are recorded each operating day. Equipment used is capable of measuring the level of regulated substance in the tank over the full range of the tank's height to the nearest one eighth inch.

Deliveries to piping are made through a drop tube that extends to within one foot of the tank bottom.

Tanks of 1,000 gallons capacity or less may use weekly tank gauging as the sole means of release detection. Tanks of 1,001-2,000 gallons capacity may use weekly tank testing in place of daily inventory control. Tanks greater than 2,000 gallons capacity may use weekly tank gauging only if said tank stores fuel solely for emergency power generators.

Piping release detection methods may include: automatic line leak detectors (an annual test of the operation should be conducted in accordance with the manufactures' requirements), line tightness testing, as well as methods used in tank release detection (such as vapor monitoring or interstitial monitoring) may be used to detect a release from any portion of the underground piping that routinely contains regulated substances.

Pressurized piping - should have an annual line tightness test conducted by a certified UST supervisor, or have monthly monitoring utilizing methods used in tank release detection (such as vapor monitoring or interstitial monitoring).

Suction piping – should have either a line tightness test conducted at least every three years beginning when release detection is required, or have monthly monitoring utilizing methods used in tank release detection (such as vapor monitoring or interstitial monitoring).

The method of release detection for the USTs at the subject property is tank gauging and statistical inventory reconciliation.

The piping at the subject property is suction. Property Solutions was provided with a copy of a line tightness test report January 25, 2011. The results of the line tightness test were "Pass". Since the testing report provided was conducted within the last three years, the subject property is in compliance.

Underground Storage Tank Federal Regulations are included in 40 CFR Part 280.

No evidence of high pressure natural gas or liquid petroleum transmission pipelines was observed within ten feet of the structures on the subject property. Review of available property maps did not reveal the presence of easements for high pressure natural gas or liquid petroleum transmission pipelines within ten feet of the structures on the subject property.

Potential Vapor Encroachment

The subject property operates as a gas station with convenience store. As such, property employees work in and around gasoline and petroleum products as part of their daily duties.

Based upon the information provided during this Phase I Environmental Assessment the subject property is:

- Undergoing investigation for contamination

And therefore a potential vapor encroachment condition exists.

Wells, Sumps, Pits, and Floor Drains

Floor drains were located in the storage room and the restrooms of the convenience store. No staining was observed around or near the drains. Chemical storage was not observed in the proximity of the floor drains. According to the Key Site Manager, the floor drains discharge to the municipal sewer system. No concerns were identified with regard to the floor drains located in the subject building. No further action is warranted at this time.

Sumps and overfill buckets were associated with the UST piping sump, pumps, and fill/vapor recovery ports. No staining was observed around or near the sumps and buckets; however, rainwater had collected in the sumps and buckets due to a recent record rainfall. Facility personnel stated that water that collects in the sumps is pumped into a drum and disposed of by Marine Vacuum. The sumps were observed to consist of fiberglass and metal construction. The buckets were constructed of plastic. No concerns were identified with regard to the sumps and buckets located on the property. No further action is warranted at this time.

Monitoring wells were located in the UST area. Release investigation documents are discussed in Section 4.5.

4.1.2 ASTM Non-Scope Considerations

During the property visit and investigation the below ASTM Non-Scope considerations were reviewed. Visual evidence of the below ASTM Non-Scope considerations were evaluated during the property visit. In addition, the property contact or Key Site Manager was questioned about the presence of the below ASTM Non-Scope items.

ASTM Non-Scope Item	Evidence Observed	Property Contact Aware of Item	Comment
Radon	No	No	Radon Zone 3 Mean Value < 2.0 PCi/L Based on use, slab-on-grade, not a concern.
Lead-Based Paint	No	No	Non-residential use; therefore, not a concern.
Lead in Drinking Water	No	No	Supplier is in compliance with lead and copper rule; not a concern.
Potential Wetlands	No	No	None observed. None indicated on US Dept of Interior NWI Map of Des Moines, Washington.
Air Emissions	Yes	Yes	Vent pipes and vapor recovery system related to the USTs. No concerns noted.

No issues of concern were noted during the property visit.

4.2 Adjacent Property and Vicinity Observation

Review of neighboring properties from the subject property and from public thoroughfares, and research of available information regarding the neighboring properties, were performed to identify evidence of environmental concerns that could adversely impact the subject property. The subject property is located in a residential and commercial area of Seattle, Washington.

4.3 Results of Regulatory Agency List Review and File Research

4.3.1 USEPA Envirofacts

Property Solutions contacted the United States Environmental Protection Agency (USEPA) through an on-line search via the Internet to obtain information concerning the subject property. Property Solutions performed a search of Envirofacts, a USEPA-generated website that integrates data extracted from five major USEPA program systems: Aerometric Information Retrieval System (AIRS)/AIRS Facility Subsystem (AFS), Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS), Permit Compliance System (PCS), Resource Conservation and Recovery Information System (RCRIS) and Toxic Chemical Release Inventory System (TRIS), using two integrating databases: Facility Index System (FINDS) and Envirofacts Master Chemical Integrator (EMCI).

Property Solutions generated a printout of all facilities under the programs identified above that are located within the subject property's zip code (98168). The subject property and adjacent properties were not listed among the sites identified during the query search, which was executed on April 29, 2011.

A copy of the search results is included in Appendix I.

4.3.2 Environmental Database Information

As part of the Phase I Environmental Assessment, Property Solutions utilized Environmental Data Resources, Inc. (EDR) of Milford, Connecticut, as an information source for regulatory agency environmental database records. The environmental database was dated April 29, 2011.

Data supplied by EDR is included in Appendix J. This database also includes the required documentation of sources checked as per Section 8.1.8 of the ASTM standard.

The following summary of the database information is divided into two columns. The first column lists sites as identified and located by EDR within the specified distance of the subject property. The second column lists orphan sites, which could not be located by EDR due to incomplete and/or inaccurate address information included in the United States Environmental Protection Agency (USEPA)/state databases, which Property Solutions identified as potentially lying within the search distance.

Although the exact locations of the orphan sites are frequently unknown, Property Solutions attempts to evaluate the potential adverse environmental impact that these sites may have on the subject property. This evaluation consists of reviewing street names in an effort to learn whether the street on which the site is located lies within the search distance of the subject property, a drive-by view of surrounding properties during the site visit, and evaluating the site type and information provided by government agencies. The orphan sites included in the following table are those Property Solutions identified as potentially located within the identified search distance. A complete list of sites is included in Appendix J.

Environmental Database Summary

Database	Radius	Plottable	Orphan
National Priorities List	1 Mile	0	0
State/Tribal NPL (HSL)	1 Mile	1	0
State/Tribal Hazardous Waste Sites	1 Mile	0	0
RCRA Corrective Action Treatment/Storage/Disposal (TSD) Facilities (CORRACTS)	1 Mile	0	0
Delisted National Priorities List	½ Mile	0	0
CERCLIS Sites	½ Mile	0	0
CERCLIS No Further Remedial Action Planned (NFRAP) Sites	½ Mile	3	0
RCRA Non-Corrective Action TSD Facilities	½ Mile	0	0
State/Tribal Voluntary Cleanup Sites	½ mile	5	2
State/Tribal Brownfield Sites/CERCLIS Equivalent	½ mile	4	1
State/Tribal Leaking Registered Storage Tank Sites	½ Mile	4	1
State/Tribal Solid Waste Landfill Sites/Facilities	½ Mile	0	13
Historic Landfills	½ Mile	0	0

Database	Radius	Plottable	Orphan
Federal/State/Tribal Engineering Controls Registries	½ Mile	0	0
Federal/State/Tribal Institutional Controls Registries	½ Mile	0	0
RCRA Large Quantity Generators	Subject Property and Adjoining Properties	0	0
RCRA Small Quantity Generators	Subject Property and Adjoining Properties	0	0
RCRA Non Generators	Subject Property and Adjoining Properties	0	0
State/Tribal Registered Storage Tank Sites	Subject Property and Adjoining Properties	1	0
Manifest	Subject Property	0	0
Spill/Release Sites	Subject Property	0	0
Facility Index System(FINDS)	Subject Property	2	0
Emergency Response Notification System	Subject Property	0	0
Washington ALLSITES	Subject Property	1	0

Database Summary

A complete copy of the database report is attached as an appendix to this report. Those sites noted within the search radius with a closed status from regulators, or not listed with known, documented, or suspected release sites will not be discussed below but can be referred to in the database report. The above sites are not expected to significantly impact the subject property based on the regulatory status listed. In addition, those remaining sites which are expected to be hydraulically downgradient, at a sufficient distance from the subject property, or due to the urban setting and density of the area, will not be discussed below but can be referred to in the database report. These above sites are not expected to significantly impact the subject property based on the above factors and as per ASTM E 1527-05.

The following is a discussion of the database findings:

Subject and Adjoining Properties

The subject property was listed as a LUST, UST, FINDS, ALLSITES, ICR, and Financial Assurance facility. The adjoining properties were not identified on the database listings. Further information regarding the subject property listings is provided below.

State/Tribal Leaking Registered Storage Tanks

- Site Name: Petrosun 1284
Address: 12807 Des Moines Memorial Dr.
Seattle, WA 98168
LRST ID No.: 2079
20112160

Distance:	Subject Property
Type of Release:	LUST
Type of Product:	Not identified
Media Impacted:	Soil
Status:	Cleanup Started

The subject property has operated as a gasoline filling station since development of the current improvements in 1966. Based on review of the environmental database report, the subject property is listed in the underground storage tank (UST), leaking UST (LUST), and ICR databases. A release was reportedly identified during removal of five former USTs in 1990 and 1991 with soil impacted by gasoline, diesel, waste oil, and PCB constituents. The current status is listed as "cleanup started". The on-going operations and open LUST case pose an environmental concern to the subject property and are considered a recognized environmental condition. Additional discussion is included in Section 4.5.

State/Tribal Registered Storage Tanks

- | | |
|------------------|--|
| Site Name: | Jackpot Station 284 |
| Address: | 12807 Des Moines Memorial Dr. S
Seattle, WA |
| Facility ID No.: | 4050 |
| Distance: | Subject property |
| No. of Tanks: | Three in operation; Five removed |
| Contents: | Not identified |

FINDS

- | | |
|-----------------------|---|
| Site Name: | Food Mart #284 |
| Address: | 12807 Des Moines Way South
Seattle, WA 98168 |
| Facility ID No.: | 110030462470 |
| FINDS System Program: | ICIS |
- | | |
|-----------------------|--|
| Site Name: | Jackpot Station 284 |
| Address: | 12807 Des Moines Memorial Dr.
Seattle, WA 98168 |
| Facility ID No.: | 110015470792 |
| FINDS System Program: | ICIS |

The subject property is also listed in the ALLSITES database, which points to the UST and LUST listings further discussed above.

ICR

1. Site Name: Time Oil #01 284
Address: 12807 Des Moines Memorial Dr.
Seattle, WA 98168
Cleanup Reports: 1991-1993

Financial Assurance

1. Site Name: Petrosun 1284
Address: 12807 Des Moines Memorial Dr.
Seattle, WA 98168
DOE Site ID: 4050
Financial Resp Type: Colony (GUS)
Inception Date: 11/14/2009
Expiration Date: 11/14/2010

4.3.3 Local Lists

The below local types of records were researched or requested from third parties, the Key Site Manager or local regulatory agencies:

- Local Brownfield Lists
- Local Lists of Landfill/Solid Waste Disposal Sites
- Local Lists of Hazardous Waste/Contaminated Sites
- Local Lists of Registered Storage Tanks
- Local Land Records (For AULs)
- Records of Emergency Release Reports
- Records of Contaminated Public Wells

The above information is discussed in Sections 4.3.1, and 4.4.4 and was duplicative of those sections.

4.3.4 Database Proprietary Lists

The adjoining properties were not listed in the EDR proprietary information searched in the EDR database. However, the subject property was listed on the historical auto stations listing as Hudson Oil in 1977, 1980 and 1985. Additional listings related to the historical and on-going usage of the subject property as a gasoline filling station are further discussed above.

4.3.5 Transfer Act

Washington does not have state-specific property transfer laws. There are requirements that deed notifications be placed on the land records for all properties that disposed of dangerous wastes, solid wastes, or are considered brownfield sites.

4.4 Results of Property History and Land Use Review

4.4.1 User Provided Information and Responsibilities

This section is to describe tasks to be performed by the User that will help identify the possibility of recognized environmental conditions, environmental liens and AULs in connection with the subject property as required by the ASTM standard. These tasks do not require the technical expertise of an environmental professional. Any and all information that may be material to identifying recognized environmental conditions must be provided by the User if available. Per the ASTM standard, the environmental professional shall note in the report whether or not the User has reported to the environmental professional information pursuant to Section 6 of the ASTM standard.

Bank of America (User) is performing the Phase I Environmental Assessment for determining whether to make a loan evidenced by a note secured by the property and not for pre-purchase due diligence.

Since Bank of America has only recently become involved with the subject property, their knowledge of the subject property and environmental conditions is limited to information provided by the mortgage broker, previous investigations provided by the borrower broker, and by the borrower. Therefore, it is not expected that data gaps created by unanswered questions of the User (Bank of America) are significant. It is expected that Bank of America has facilitated interviews and information exchange with those knowledgeable of the property as best as possible.

There is a specific exemption, the so-called “lender liability” exemption, for a person, who without participating in the management of a facility, holds indicia of ownership primarily to protect his or her security interest in the vessel or facility (42 USC 9601(20)(A)(iii)).

In September 1996, Congress passed the Asset, Conservation, Lender Liability, and Deposit Insurance Act [Title II, Subtitle E, Sections 2502-2505 of the 1996 Omnibus Appropriations bill]. Reportedly, under the act, lenders that do not exercise decision making control over the property during the term of the loan will not risk federal liability.

User Questionnaire

The User has chosen not to complete the questionnaire citing a lack of pertinent knowledge of the environmental condition of the property in their role solely as a secured creditor. As Bank of America has no specific knowledge of the property unless otherwise noted and operations, they requested the consultant pursue this information.

A Key Site Manager Questionnaire was submitted to Ms. Martha Abatecola (key site manager) to be completed prior to the property visit.

Contact Company	PC&F
Contact Name	Martha Abatecola
Contact Title	District Manager
Phone/Fax/Email	206-850-5488
Contact Date	May 11, 2010
Request Medium	Email
Questionnaire completed?	Yes
Completed by?	Martha Abatecola
Response Date	May 13, 2011
Form of Response	Email
Was the questionnaire completed and returned prior to the property visit?	Yes

Summary of information provided in questionnaire: The property has three fuel USTs in operation on the property.

The completed Key Site Manager Questionnaire and correspondence are included in Appendix D - User Correspondence.

As Bank of America did not complete the User Questionnaire, per the ASTM standard, this is considered a data gap; however, the data gap is not considered significant.

Title and Judicial Records

Per ASTM E 1527-05 Section 6.2, the User is required to provide and/or report to the environmental professional any environmental liens or activity and use limitations (AULs) so identified for the subject property. The environmental professional per the ASTM practice is not responsible to undertake a review of recorded land title records and judicial records for environmental liens or activity and use limitations.

No title records or information was provided to Property Solutions by the User.

No title records or information was provided to Property Solutions by the property owner, key site manager, or prospective purchaser.

The User did not request Property Solutions to coordinate with a title company or title professional to undertake a review of Recorded Land Title records and judicial records for environmental liens or AULs.

Therefore, no title records were searched and no information was provided for environmental liens and AULs which is the responsibility of the User. Per the ASTM standard this is considered a data gap.

Environmental Liens or Activity and Use Limitations

Per ASTM E 1527-05 the User is required to provide and/or report to the environmental professional any environmental liens or AULs so identified for the subject property. The environmental professional per the ASTM practice is not responsible to undertake a review of information to identify environmental liens or AULs.

The User did not provide information on environmental liens and AULs.

The User is not the owner, operator, prospective purchaser or tenant of the subject property.

The key site manager knew of no environmental liens or AULs for the subject property.

Knowledge of the User

Per the ASTM standard, it is the User's responsibility to communicate to the environmental professional any information that is material to recognized environmental conditions in connection with the subject property based on such specialized knowledge, actual knowledge, experience, or commonly known and reasonably ascertainable information within the local community.

Per the ASTM standard, the User must do so prior to the property visit.

Since Bank of America has only recently become involved with the subject property, their knowledge of the subject property and environmental conditions is limited to information provided by the mortgage broker, previous investigations provided by the borrower or broker, and by the borrower. As Bank of America has no specific knowledge of the property and operations, they requested the consultant pursue this information.

The key site manager and tenant had no specialized knowledge, actual knowledge, experience, or commonly known and reasonably ascertainable information within the local community concerning recognized environmental conditions at the subject property.

Valuation Reduction for Environmental Issues

Per the ASTM standard, in a transaction involving the purchase of a parcel of commercial real estate, the user shall consider the relationship of the purchase price of the property to the fair market value of the property if the property was not affected by hazardous substances or petroleum products. The User should try to identify an explanation for a significantly lower price which does not reasonably reflect fair market value if the property was not contaminated, and make a written record of such explanation. The ASTM standard does not require that a real estate appraisal be obtained in order to ascertain fair market value of the property.

This report was prepared for potential pre-lending purposes and not for a purchase.

Reason for Performing the Phase I Environmental Assessment

Bank of America (User) is performing the Phase I Environmental Assessment for determining whether to make a loan evidenced by a note secured by the property and not for pre-purchase due diligence.

Helpful Documents Provided Prior to Property Visit

Per the ASTM standard, prior to the property visit, the property owner, key site manager (if any is identified), and User (if different from the property owner) shall be asked if they know whether any of the documents below exist and if so, whether copies can and will be provided within reasonable time and cost constraints including partial information. This information is to be provided prior to or at the beginning of the property visit.

Documents	User		Key Site Manager		Property Owner	
	Exist	Provided	Exist	Provided	Exist	Provided
ESA reports	No response	N/A	No	No	No	No
Environmental compliance audit reports	No response	N/A	No	No	No	No
Environmental permits	No response	N/A	No	No	No	No
UST/AST registrations	No response	N/A	Yes	No	Yes	Yes
Underground Injection permits	No response	N/A	No	No	No	No
MSDSs	No response	N/A	Yes	No	Yes	Yes
Community Right-to-Know plan	No response	N/A	No	No	No	No
Safety plans	No response	N/A	No	No	No	No
SPCC plans	No response	N/A	No	No	No	No
Emergency preparedness and prevention plans	No response	N/A	No	No	No	No
Hydrogeologic reports	No response	N/A	No	No	Yes	Yes
Government agency correspondence and violations	No response	N/A	No	No	Yes	Yes
Hazardous waste generator notices or reports	No response	N/A	No	No	No	No
Geotechnical studies	No response	N/A	No	No	No	No
Risk assessments	No response	N/A	No	No	No	No
Recorded AULs	No response	N/A	No	No	No	No
Environmental liens	No response	N/A	No	No	No	No
Other	No response	N/A	No	No	No	No

Proceedings Involving the Property

Per the ASTM standard, prior to the site visit, the User (if different from the property owner), Key site manager (if any is identified), and property owner shall be asked whether they know of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; and (3) any notices from any governmental entity regarding any possible violation of

environmental laws or possible liability relating to hazardous substances or petroleum products.

The key site manager indicated based on a response dated May 13, 2011, via email that they have no knowledge of (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

User Identified Personnel

As per ASTM E1527-05, Property Solutions requested information for current and past property personnel. The information and contacts below were identified and/or provided by the User/Client.

	Name	Company
User	Ms. Bernadette Quillinan	Bank of America, NA
Key Site Manager	Ms. Martha Abatecola	PC&F
Current Property Owner Representative	Mr. Steve Matthew	PC&F

4.4.2 Historical Property Information

The history of the subject property was researched to evaluate potential historical uses of the subject property of environmental concern.

The below standard historical sources were researched:

Standard Historical Source Summary

Historical Source	Source Checked?	Source	Earliest Date Obtained
Aerial Photos	Yes	EDR/Terraserver	1956
Fire Insurance Maps	Yes	EDR	N/A
Property Tax File	Yes	King County Assessor	Current
Recorded Land Title Records	No	N/A	N/A
USGS 7.5 Minute Topo Maps	Yes	USGS	1949
Local Street Directories (city directories)	Yes	Seattle Public Library	1984
Building Department Records	Yes	FOIA records not received from Seattle building department	N/A
Zoning/Land Use Records	Yes	FOIA records not received from Seattle building department	N/A

Historical Source	Source Checked?	Source	Earliest Date Obtained
Other Historical Sources	No	N/A	N/A
Miscellaneous Maps/Plans	No	N/A	N/A
Newspapers	No	N/A	N/A
Records	No	N/A	N/A
Other Directories/ Phone books	No	N/A	N/A
Prior Use Interviews	Yes	Property Contact	2008
Previous Reports	Yes	Antea/Delta	2010
Chain of Title	No	N/A	N/A
AULs and Environmental Liens	Yes	Owner	N/A

Historical Use Summary

Decade	Property Use	Standard Source/Source
1900	Not determined	None available
1910	Not determined	None available
1920	Not determined	None available
1930	Not determined	None available
1940	Not determines	None available
1950	Residence	Aerial photograph
1960	Residence (1965); Convenience store and filling station (1966)	Aerial photograph; Tax Assessor
1970	Convenience store and filling station	Aerial photograph; EDR proprietary database
1980	Convenience store and filling station	Aerial photograph
1990	Convenience store and filling station	Aerial photograph; City Directory
2000	Convenience store and filling station	Aerial photograph; City Directory
2010	Convenience store and filling station	Aerial photograph; City Directory

Copies of the aerial photographs are included in Appendix E and copies of the historic maps are included in Appendix F.

Based on a review of the above standard historical sources, no information or concerns were identified on adjoining properties.

Concerns related to the on-going usage of the subject property as a gasoline filling station are further discussed in Sections 4.1.1, 4.3.2, and 4.5.

Per ASTM E 1527-05, “8.3.2 Uses of the Property—All obvious uses of the property shall be identified from the present, back to the property’s first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources in 8.3.4.1 through 8.3.4.8 as are necessary and both reasonably ascertainable and likely to be useful (as described under Data Failure in 8.3.2.3). . . . Such confirmation may come from one or more of the standard historical sources specified in 8.3.4.1 through 8.3.4.8, or it may come from other historical sources (such as someone with personal knowledge of the property; see

8.3.4.9). However, checking other historical sources (see 8.3.4.9) is not required. For purposes of 8.3.2, the term “developed use” includes agricultural uses and placement of fill dirt. The report shall describe all identified uses, justify the earliest date identified (for example, records showed no development of the property prior to the specific date), and explain the reason for any gaps in the history of use (for example, data failure).”

Per ASTM E 1527-05, “8.3.2.3 Data Failure—the historical research is complete when either: (1) the objectives in 8.3.1 through 8.3.2.2 are achieved; or (2) data failure is encountered. Data Failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Data failure is not uncommon in trying to identify the use of the property at five year intervals back to first use or 1940 (whichever is earlier). Notwithstanding a data failure, standard historical sources may be excluded if: (1) the source is not reasonably ascertainable, or (2) if past experience indicates that the source is not likely to be sufficiently useful, accurate, or complete in terms of satisfying the objectives. Other historical sources specified in 8.3.4.9 may be used to satisfy the objectives, but are not required to comply with this practice. If data failure is encountered, the report shall document the failure and, if any of the standard historical sources were excluded, give the reasons for their exclusion. If the data failure represents a significant data gap, the report shall comment on the impact of the data gap on the ability of the environmental professional to identify recognized environmental conditions.”

Based on the above information and standard historical sources searched, data failure has occurred. However, historical use information is deemed sufficient to comply with the ASTM Standard.

Standard historical information is included in the appendices of this report.

4.4.3 Interviews

The objective of interviews is to obtain information indicating Recognized Environmental Conditions in connection with the subject property as well as AULs. Property Solutions interviewed or made good faith efforts to interview the following:

Represents	Interviewed	Name and title	Comments
Current Property Owner Representative/Key Site Manager	Yes	Martha Abatecola, District Manager and Steve Matthew, Property Manager	Site is planned for additional hydrocarbon investigation to obtain NFA status.
Previous Property Owner Representative	No	N/A	Not identified by current property owner

4.4.4 Property Specific Records

During the course of the assessment of the subject property, Property Solutions contacted the following local, county, and state agencies and companies via phone, letter, or in person.

20112160

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Department of Health

Agency name	King County Environmental Health Services
Contact name	FOIA Officer
Address	401 5 th Avenue, Suite 1100
City	Seattle
State	Washington
Contact date	April 29, 2011
Request medium	Letter
Response date	N/A
Form of response	N/A

A response has not been received at the time of this report.

City of Seattle

Agency name	City of Seattle (Fire, Planning and Development, Public Utilities)
Contact name	City Clerk
Address	700 Fifth Avenue, Suite 2000
City	Seattle
State	Washington
Contact date	April 29, 2011
Request medium	Letter
Response date	N/A

A response has not been received at the time of this report. Property Solutions also visited the City of Seattle offices on May 19, 2011, to inquire about records. According to the Planning and Development office representative, the City will forward applicable information when the FOIA request is completed.

Tax Assessor/Tax Department

Property Solutions visited the King County Assessor's webpage, <http://www.kingcounty.gov/Assessor.aspx>, on May 13, 2011. The Assessor's webpage provided Property Solutions with a copy of a tax map for the subject property and the surrounding area and a copy of the tax information card for the subject property.

Based on Property Solutions review of the tax map and tax information cards, the subject property is identified as 162304906603; the subject property consists of a rectangular-shaped, 0.30-acre parcel of land improved with one building constructed in 1966; the gross area of the convenience store building is approximately 1,512 square feet; and the subject property is owned by Pacific Convenience and Fuels. Previous owners include Petrosun West LLC and Bedrock Oil Inc. from 2007 to 2009, Time Oil Co. from 1985 to 2007, and Hudson Oil Co. Inc. prior to 1985.

A copy of the tax map is included in Appendix A.

20112160

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Electrical Utility

Agency name	Seattle City Light
Address	700 5 th Avenue, Suite 3300
City	Seattle
State	Washington
Contact date	April 29, 2011
Request medium	Letter
Response date	N/A
Form of response	N/A

A response has not been received at the time of this report.

State Environmental Agency

Agency name	Washington Department of Ecology
Contact name	Public Records Request Form Submission
Contact date	April 29, 2011
Request medium	Fax
Response date	N/A
Form of response	N/A

A response has not been received at the time of this report.

At the time this report was prepared, some of the above local, county, and state agencies and companies had not responded to our information request as indicated.

According to ASTM E 1527-05, Section 8.1.4.2, information that has been requested must be reasonably ascertainable as part of performing the Phase I Environmental Assessment. Information that is reasonably ascertainable per ASTM means that information will be provided by the source within 20 calendar days of receiving a written, telephone, or in-person request.

Copies of the letters and records of communication are included in Appendix I.

4.5 Synopsis of Previous Environmental Investigations and Plans

Letter Subject	Jackpot Station 284 – Time Oil 01-284
Letter Date	September 26, 2002
Letter Author & Title	Desiree Wells
Letter Author Company	Washington Department of Ecology
Letter Author City & State Location	Bellevue, WA
Letter Recipient	None identified
Letter Recipient Company	Time Oil Company
Letter Recipient City & State Location	Seattle, WA

Letter Subject	Jackpot Station 284 – Time Oil 01-284
Letter and Subject Property Variations:	None

Letter Subject:

The letter was sent to Time Oil Company after a review of reports associated with a release on the property. The letter states that USTs were removed from the property in 1991-1992, and that soil contaminated with waste oil, diesel, gasoline, and PCBs was identified. Subsequent investigation and remediation were conducted between 1993 and 1997. A Vapor Extraction System was reportedly installed and tested in 1997.

The letter requested updated for activities conducted since that time and notified Time Oil that the property was eligible for the Voluntary Cleanup Program and that additional soil and groundwater sampling would be required before No Further Action (NFA) status could be achieved.

Property Solutions Review:

The LUST case remains open and is considered a recognized environmental condition. See additional discussion in Sections 4.1.1 and 4.3.2.

Copies of the previous reports are included in Appendix G.

Property Solutions did not review any plans pertaining to the subject property.

4.6 Asbestos-Containing Materials

During the course of the property visit, Property Solutions performed a preliminary review of interior, accessible areas of the subject building(s) for the presence of suspect asbestos-containing materials (ACMs). This limited review was conducted for overview purposes only; additional suspect materials may exist in concealed locations (behind walls and above ceilings, within machinery, etc.). Also, not all suspect materials may have been sampled due to the condition or the location of the suspect materials. Destructive sampling of suspect ACMs was not performed. Suspect ACMs in an overall undamaged condition were not sampled, as that will damage the materials. Property Solutions will not be responsible for damaging materials or causing the materials to become friable. The USEPA defines asbestos-containing material as material containing greater than one percent asbestos. This review was not a pre-demolition/renovation survey or for regulatory submittal purposes.

Suspect and presumed ACMs were observed within the subject building during the property visit. The suspect and presumed ACMs are listed in the following tables.

Friable Materials

Sample No.	Description of Material	Material Classification	Sample Location	Condition	Approx. Amount	% Asbestos/ Type
NS	Ceiling tile in convenience store	MISC	NS	Undamaged	2,000 s.f.	NS - SACM

NS - Not sampled

SACM - Suspect asbestos-containing material per USEPA Green Book

Condition - Undamaged, slightly damaged, damaged, significantly damaged

s.f. - Square feet

MISC - Miscellaneous

Friable Materials Not Sampled

Description of Material	Accessibility Issue	Sampling Denied by Contact	Other reason for Not Sampling	Photo Number (Appendix C)
White, 2 ft. X 4 ft. ceiling tile	Height	No	Undamaged	4

Non-Friable Materials

Sample No.	Description of Material	Material Classification	Sample Location	Condition	Approx. Amount	% Asbestos/ Type
NS	Vinyl floor tile/mastic	MISC	NS	Undamaged	1800 s.f.	NS-PACM
NS	Drywall/joint compound	MISC	NS	Undamaged	Throughout the building	NS-SACM

NS - Not sampled

PACM - Presumed asbestos-containing material per OSHA (pre-1981 construction) – for TSI, Surf, asphalt/vinyl flooring

SACM - Suspect asbestos-containing material per USEPA Green Book

Condition - Undamaged, slightly damaged, damaged, significantly damaged

s.f. - Square feet

MISC - Miscellaneous

SURF - Surfacing material

Based on the limited visual review conducted by Property Solutions, suspect asbestos-containing ceiling tile and drywall and joint compound and presumed asbestos-containing floor tile and mastic were identified at the subject property. These materials were observed to be in an overall undamaged condition at the time of the property visit.

Per the Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 (Asbestos) (k) (Communication of Hazards), thermal system insulation, surfacing material, and asphalt/vinyl flooring that are present in a building constructed prior to 1981, and have not been

analytically tested in accordance with 29 CFR 1926.1101 (k) (5) and determined to be non-ACM, are to be presumed to contain asbestos.

It should be noted that 29 CFR 1926.1101 applies to work activities including demolition or salvage of structures where asbestos is present and construction, alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof, that contain asbestos.

Review of 29 CFR 1926.1101 (k) (2) (Duties of Building and Facility Owners) reveals that building and/or facility owners must notify the following persons about the location and quantity of ACM and PACM at the work sites in their buildings and facilities:

- Prospective employers applying and bidding for work whose employees can be reasonably expected to work in or adjacent to areas containing ACM and/or PACM.
- Employees of the owner who will work in or adjacent to areas containing ACM and/or PACM.
- On multi-employer worksites, all employers of employees who will be performing work within or adjacent to areas containing ACM and/or PACM.
- Tenants who will occupy areas containing such material.

Any abatement or removal of asbestos-containing materials must be performed in accordance with applicable federal, state, and local regulations.

Based on the date of construction (1966), PACM and vinyl/asbestos flooring are located on the subject property. As indicated above, per OSHA regulations (29 CFR 1926.1101 (k)), building owners are required, under certain circumstances, to notify maintenance people and all persons potentially exposed to PACM at the facility of the presence and location of materials that contain (or are presumed to contain) asbestos. Thermal system insulation, surfacing material, and asphalt/vinyl flooring materials that are present in a building constructed prior to 1981, and have not been analytically tested and determined to be non-ACM, are to be presumed to contain asbestos, and should be addressed in accordance with 29 CFR 1926.1101, as well as other applicable federal, state, and local regulations.

Currently, there are no regulations requiring the removal of ACM unless it will be disturbed during renovation, repairs, or demolition. The USEPA recommends that as long as the ACM does not pose an imminent health threat, the materials can be managed in place.

4.7 Mold/Water Intrusion

During the course of the Phase I Environmental Assessment property visit, Property Solutions performed limited observations for obvious signs of moisture, water intrusion, and potential mold at the subject property. This was performed for overview purposes only and is not a mold assessment or inspection for regulatory submittal purposes. Additional areas may exist in areas not observed or in concealed locations (behind walls and above ceiling tiles, etc.). This was a limited visual review during a Phase I Environmental Assessment property visit of easily accessible areas for obvious signs of water intrusion and potential mold. An engineering

assessment and property maintenance personnel should be consulted to verify water intrusion due to engineering concerns and deficiencies and addressed as appropriate.

Molds produce tiny spores to reproduce, which waft through the indoor and outdoor air continually. When mold spores land on a damp spot indoors, they may begin growing and digesting whatever they are grown on in order to survive. There are molds that can grow on wood, paper, carpet, and foods. When excessive moisture or water accumulates indoors, mold growth will often occur, particularly if the moisture problem remains undiscovered or un-addressed. There is no practical way to eliminate all molds and mold spores in the indoor environment; the way to control indoor mold growth is to control moisture. In addition, mold growth may be a problem after flooding.

Standards or Threshold Limit Values (TLVs) for airborne concentrations of mold, or mold spores, have not been set. Currently, there are no USEPA regulations or standards for airborne mold contaminants.

Ms. Abatecola was unaware of past water damage or historic leaks.

No obvious visual evidence of mold, water intrusion, water damage, or standing water was observed in the interior portions of the subject building accessed by Property Solutions during the property visit. No musty odors indicative of a moisture problem or porous materials such as carpets and insulation in damp niches were observed during the property visit.

No botanical materials such as bark chips or potted plants in moist locations such as an atrium were observed during the property visit. No indoor water features such as fountains, indoor waterfalls, or indoor swimming pools were observed in the subject building. Ms. Abatecola was unaware of reported odor complaints, allergic reactions, or other symptoms possibly associated with mold growth. No problems evident in the building envelope or problematic conditions surrounding the air intake were observed. No operatives conducive to bioaerosol generation such as animal confinement operations, agricultural activities, or wetlands were observed on the subject property or adjacent properties. This limited visual review was conducted for overview purposes only; mold may exist in concealed locations (behind walls, wallpaper, and ceilings, etc.). Ms. Abatecola was unaware of mold, water intrusion, water damage, standing water, or historic floods at the subject property.

Based on the above information, no further investigation is recommended at this time regarding moisture and mold.

5.0 CONCLUSIONS

We have performed a Phase I Environmental Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of PC&F Station 1-284 located at 12807 Des Moines Way SW in Seattle, King County, Washington 98168. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. This assessment has revealed no evidence of

recognized environmental conditions in connection with the subject property, except for the following:

Recognized Environmental Conditions

- (1) The subject property has operated as a gasoline filling station since development of the current improvements in 1966. Based on review of the environmental database report, the subject property is listed in the underground storage tank (UST), leaking UST (LUST), and ICR databases. A release was reportedly identified during removal of five former USTs in 1990 and 1991 and soil has been impacted with gasoline, diesel, waste oil, and PCB constituents. The current status is listed as “cleanup started”. The on-going operations and open LUST case pose an environmental concern to the subject property and are considered a recognized environmental condition.

ASTM Non-Scope Consideration

The following ASTM non-scope consideration was identified at the subject property based on the findings provided in this report:

- (2) Based on the date of construction of the subject property (1966), asbestos-containing materials (ACMs) may be present at the subject property. Based on the limited visual review conducted by Property Solutions, suspect asbestos-containing ceiling tile and drywall and joint compound and presumed asbestos-containing floor tile and mastic were identified at the subject property. These materials were observed to be in an overall undamaged condition at the time of the property visit. Currently, there are no regulations requiring the removal of ACM unless it will be disturbed during renovation, repairs, or demolition. The USEPA recommends that as long as the ACM does not pose an imminent health threat, the materials can be managed in place.

6.0 RECOMMENDATIONS AND OPINIONS OF PROBABLE COST

Property Solutions recommends the following:

- (1) Property Solutions recommends that the responsible party continues to work with Ecology towards case closure. A regulatory file review is recommended to evaluate the current case status. Routine file reviews are also recommended until such time as case closure is achieved.
- (2) Property Solutions recommends preparation and implementation of an ACM Operations and Maintenance (O&M) Plan.

7.0 LIMITATIONS

The conclusions and presented above are based upon the agreed upon scope of work outlined in the above report. Consultant makes no guarantees as to the accuracy or completeness of information obtained from others. It is possible that information exists beyond the scope of this investigation. Additional information which was not available to Consultant at the time of writing the Report may result in a modification of the conclusions and presented. The Services performed by Consultant have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. This report is not a legal opinion, but may under certain circumstances be prepared at the direction of counsel, may be in anticipation of litigation, and may be classified as an attorney client communication or as an attorney work product.

8.0 REFERENCES

8.1 Information Sources

1. United States Geological Survey's 7.5-minute topographic quadrangle map of Des Moines, Washington.
2. United States Department of Agriculture, Soil Conservation Services' Web Soil Survey website
3. Physiographic Regions of the United States produced by the U.S. Geological Survey, 2003.
4. Groundwater Atlas of the United States dated 1994 produced by the U.S. Geological Survey.
5. Radon information by EDR, Inc., Milford, Connecticut.
6. United States Department of the Interior, National Wetland Inventory Map for Des Moines, Washington.
7. City of Seattle's 2009 Water Quality Report
8. USEPA's Map of Radon Zones produced by the USEPA.
9. Aerial photographs provided by Environmental Data Resources, Inc.
10. Aerial photographs provided by TerraServer.
11. Polk's and Cole's City Directories, Seattle Public Library.
12. Fire insurance maps, provided by Environmental Data Resources, Inc.
13. The EDR Radius Map with GeoCheck, produced by Environmental Data Resources, Inc.
14. Envirofacts Data Warehouse, produced by USEPA.
15. City of Seattle, Building, Zoning, Planning, Water and Sewer Departments
16. Washington Department of Ecology
17. September 26, 2002, Letter from Department of Ecology to Time Oil Company

8.2 Definitions

Abandoned property – property that can be presumed to be deserted, or an intent to relinquish possession or control can be inferred from the general disrepair or lack of activity thereon such that a reasonable person could believe that there was an intent on the part of the current owner to surrender rights to the property.

Activity and use limitations – Legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or ground 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. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or ground water on the property.⁴

⁴ The term AUL is taken from the ASTM Standard Guide E 2091 to include both legal (that is, institutional) and physical (that is, engineering) controls within its scope. Other agencies, organizations, and jurisdictions may define or utilize these terms differently (for example, EPA and California do not include physical controls within their definitions of “institutional controls.” Department of Defense and International County/City Management Association use “Land Use Controls.” The term “land use restrictions” is used but not defined in the *Brownfields Amendments*).

Actual knowledge – the knowledge actually possessed by an individual who is a real person, rather than an entity. Actual knowledge is to be distinguished from constructive knowledge that is knowledge imputed to an individual or entity.

Actual Knowledge Exception – If the user or environmental professional(s) conducting an environmental site assessment has actual knowledge that the information being used from a prior environmental site assessment is not accurate or if it is obvious, based on other information obtained by means of the environmental site assessment or known to the person conducting the environmental site assessment, that the information being used is not accurate, such information from a prior environmental site assessment may not be used.

Adjoining properties – any real property or properties the border of which is contiguous or partially contiguous with that of the property, or that would be contiguous or partially contiguous with that of the property but for a street, road, or other public thoroughfare separating them.

All appropriate inquiry – that inquiry constituting “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or 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 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. See ASTM E 1527-05, Appendix X1.

Bona fide prospective purchaser liability protection – (42 U.S.C. §9607(r))—a person may qualify as a bona fide prospective purchaser if, among other requirements, such person made “all appropriate inquiries 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 all appropriate inquiry would not generally preclude this liability protection. A person must make all appropriate inquiry on or before the date of purchase. The facility must have been purchased after January 11, 2002. See ASTM E 1527-05, Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

Business environmental risk – a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of business environmental risk issues may involve addressing one or more non-scope considerations, some of which are identified in ASTM E 1527-05, Section 13.

Comparison with Subsequent Inquiry – It should not be concluded or assumed that an inquiry was not all appropriate inquiry merely because the inquiry did not identify recognized environmental conditions in connection with a property. Environmental site assessments must be evaluated based on the reasonableness of judgments made at the time and under the circumstances in which they were made. Subsequent environmental site assessments should not be considered valid standards to judge the appropriateness of any prior assessment based on hindsight, new information, use of developing technology or analytical techniques, or other factors.

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 property.

Contiguous property owner liability protection – (42 U.S.C. §9607(q))—a person may qualify for the contiguous property owner liability protection 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 all appropriate inquiry 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 property. The all appropriate inquiry must not result in knowledge of contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the contiguous property owner liability protection. See ASTM E 1527-05, Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

Continued Viability of Environmental Site Assessment – Subject to ASTM E 1527-05, Section 4.8, an environmental site assessment meeting or exceeding this practice and completed less than 180 days prior to the date of acquisition⁶ of the property or (for transactions not involving an acquisition) the date of the intended transaction is presumed to be valid.⁷ If within this period the assessment will be used by a different user than the user for whom the assessment was originally prepared, the subsequent user must also satisfy the User’s Responsibilities in ASTM E 1527-05, Section 6. Subject to Section 4.8 and the User’s Responsibilities set forth in ASTM E 1527-05, Section 6, an environmental site assessment meeting or exceeding this practice and for which the information was collected or updated within one year prior to the date of acquisition of the

property or (for transactions not involving an acquisition) the date of the intended transaction may be used provided that the following components of the inquiries were conducted or updated within 180 days of the date of purchase or the date of the intended transaction: (i) interviews with owners, operators, and occupants; (ii) searches for recorded environmental cleanup liens; (iii) reviews of federal, tribal, state, and local government records; (iv) visual inspections of the property and of adjoining properties; and (v) the declaration by the environmental professional responsible for the assessment or update.

⁶Under “*All Appropriate Inquiry*” 40 C.F.R. Part 312, EPA defines date of acquisition as the date on which a person acquires title to the *property*.

⁷Subject to meeting the other requirements set forth in this section, for purpose of the *LLPs*, information collected in an assessment conducted prior to the effective date of the federal regulations for *All Appropriate Inquiry* or this practice can be used if the information was generated as a result of procedures that meet or exceed the requirements of the E 1527-97 or -00 standards.

Contractual Issues Regarding Prior Assessment Usage – The contractual and legal obligations between prior and subsequent users of environmental site assessments or between environmental professionals who conducted prior environmental site assessments and those who would like to use such prior environmental site assessments are beyond the scope of this practice.

Data failure – a failure to achieve the historical research objectives in ASTM E 1527-05, §8.3.1 through 8.3.2.2 even after reviewing the standard historical sources in §8.3.4.1 through 8.3.4.8 that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap. See ASTM E 1527-05, 8.3.2.3.

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. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the Key Site Manager, regulatory officials, etc.). See ASTM E 1527-05 §12.7.

Demolition debris – concrete, brick, asphalt, and other such building materials discarded in the demolition of a building or other improvement to property.

Engineering controls (EC) – physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or ground water on the property. Engineering controls are a type of activity and use limitation (AUL).

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(1) & 9607(r) and similar state or local laws.

Environmental professional – a person meeting the education, training, and experience requirements as set forth in 40 CFR §312.10(b). See ASTM E 1527-05 Appendix X2. The person may be an independent contractor or an employee of the user.

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. It does not include material that is used in limited quantities for normal landscaping activities.

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:“ (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, (42 U.S.C. §6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. §§6901 et seq.) has been suspended by Act of Congress), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act (42 U.S.C. §7412), and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator (of EPA) has taken action pursuant to section 2606 of Title 15. The term 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).” (See ASTM E 1527-05, Appendix X1.)

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). RCRA is sometimes also identified as the Solid Waste Disposal Act. RCRA defines a hazardous waste, at 42 U.S.C. §6903, as: “a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may— (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.”

Hazardous waste/contaminated sites – sites 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 – an environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently. The final decision rests with the environmental professional and will be influenced by the current impact of the historical recognized environmental condition on the property. If a past release of any hazardous substances or petroleum products has occurred in connection with the property and has been remediated, with such remediation accepted by the responsible regulatory agency (for example, as evidenced by the issuance of a no further action letter or equivalent), this condition shall be considered an historical recognized environmental condition and included in the findings section of the Phase I Environmental Site Assessment report. The environmental professional shall provide an opinion of the current impact on the property of this historical recognized environmental condition in the opinion section of the report. If this historical recognized environmental condition is determined to be a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted, the condition shall be identified as such and listed in the conclusions section of the report.

IC/EC registries – databases of institutional controls or engineering controls that may be maintained by a federal, state, or local environmental agency for purposes of tracking sites that may contain residual contamination and AULs. The names for these may vary from program to program and state to state, and include terms such as Declaration of Environmental Use Restriction database (Arizona), list of “deed restrictions” (California), environmental real covenants list (Colorado), brownfields site list (Indiana, Missouri, Pennsylvania).

Innocent landowner defense – (42 U.S.C. §§9601(35) & 9607(b)(3)) – 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.” To qualify for the first type of innocent landowner LLP, such person must have made all appropriate inquiry on or before the date of purchase. Furthermore, the all appropriate inquiry must not have resulted in knowledge of the contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the innocent landowner defense. See ASTM E 1527-05, Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

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 site or facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or ground 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. An institutional control is a type of Activity and Use Limitation (AUL).

Interviews – those portions of ASTM E 1527-05 practice that are contained in Section 10 and 11 thereof and 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 – the person identified by the owner or operator of a property as having good knowledge of the uses and physical characteristics of the property. See ASTM E 1527-05, §10.5.1.

Landowner Liability Protections (LLPs) – landowner liability protections under CERCLA; these protections include the bona fide prospective purchaser liability protection, contiguous property owner liability protection, and innocent landowner defense from CERCLA liability. See 42 U.S.C. §§9601(35)(A), 9601(40), 9607(b), 9607(q), 9607(r).

Level of Inquiry is Variable – Not every property will warrant the same level of assessment. Consistent with good commercial or customary practice, the appropriate level of environmental site assessment will be guided by the type of property subject to assessment, the expertise and risk tolerance of the user, and the information developed in the course of the inquiry.

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.

Material threat – a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the environmental professional, is threatening and might result in impact to public health or the environment. An example might include an aboveground storage tank system that contains a hazardous substance and which shows evidence of damage. The damage would represent a material threat if it is deemed serious enough that it may cause or contribute to tank integrity failure with a release of contents to the environment.

Not Exhaustive – All appropriate inquiry does not mean an exhaustive assessment of a clean property. There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions. One of the purposes of this practice is to identify a balance between the competing goals of limiting the costs and time demands inherent in performing an environmental site assessment and the reduction of uncertainty about unknown conditions resulting from additional information.

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 a portion of the property.

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

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

Petroleum exclusion – the exclusion from CERCLA liability provided in 42 U.S.C. §9601(14), as interpreted by the courts and EPA: “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 – those substances included within the meaning of the petroleum exclusion to CERCLA, 42 U.S.C. §9601(14), as interpreted by the courts and EPA, that is: 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 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). (The word 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.⁵)

⁵ Standard Definitions of Petroleum Statistics, American Petroleum Institute, Fourth Edition, 1988.

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. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the property or a geographic area in which the property is located are not generally practically reviewable. Most databases of public records are practically reviewable if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally practically reviewable. Listings in publicly available records which do not have adequate address information to be located geographically are not generally considered practically reviewable. For large databases with numerous records (such as RCRA hazardous waste generators and registered underground storage tanks), the records are not practically reviewable unless they can be obtained from the source agency in the smaller geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be practically reviewable. In other words, when so much data is generated that it cannot be feasibly reviewed for its impact on the property, it is not practically reviewable.

Prior Assessment Usage – The ASTM E 1527-05 practice recognizes that environmental site assessments performed in accordance with this practice will include information that subsequent users may want to use to avoid undertaking duplicative assessment procedures. Therefore, this practice describes procedures to be followed to assist users in determining the appropriateness of

using information in environmental site assessments performed more than one year prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction. The system of prior assessment usage is based on the following principles that should be adhered to in addition to the specific procedures set forth elsewhere in the ASTM E 1527-05 practice.

Property – the real property that is the subject of the environmental site assessment described in the ASTM E 1527-05 practice. Real property includes buildings and other fixtures and improvements located on the property and affixed to the land.

Publicly available – information that is publicly available means that the source of the information allows access to the information by anyone upon request.

Reasonably Ascertainable/Standard Sources – availability of record information varies from information source to information source, including governmental jurisdictions. The user or environmental professional is not obligated to identify, obtain, or review every possible record that might exist with respect to a property. Instead, this practice identifies record information that shall be reviewed from standard sources, and the user or environmental professional is required to review only record information that is reasonably ascertainable to those standard sources. Record information that is reasonable ascertainable means (1) information that is publicly available, (2) information that is obtainable from its source within reasonable time and cost constraints, and (3) information that is practically reviewable.

Reasonable time and cost – information that is obtainable within reasonable time and cost constraints means that the information will be provided by the source within 20 calendar days of receiving a written, telephone, or in-person request at no more than an nominal cost intended to cover the source's cost of retrieving and duplicating the information. Information that can only be reviewed by a visit to the source is reasonably ascertainable if the visit is permitted by the source within 20 days of request.

Recognized environmental conditions – the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do 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. Conditions determined to be de minimis are not recognized environmental conditions.

Recorded land title records – records of historical fee ownership, which may include leases, land contracts, and AULs on or of the property recorded in the place where land title records are, by law or custom, recorded for the local jurisdiction in which the property is located. (Often such records are kept by a municipal or county recorder or clerk.) Such records may be obtained from title companies or directly from the local government agency. Information about the title to the

property that is recorded in a U.S. district court or any place other than where land title records are, by law or custom, recorded for the local jurisdiction in which the property is located, are not considered part of recorded land title records. See ASTM E 1527-05 §8.3.4.4.

Relevant experience (as used in the definition of environmental professional) – participation in the performance of all appropriate inquiries investigations, environmental site assessments, or other site investigations that may include environmental analyses, investigations, and remediation which involve the understanding of surface and subsurface environmental conditions and the processes used to evaluate these conditions and for which professional judgment was used to develop opinions regarding conditions indicative of releases or threatened releases (see 40 CFR §312.1(c)) to the subject property.

Rules of Engagement – The contractual and legal obligations between an environmental professional and a user (and other parties, if any) are outside the scope of this practice. No specific legal relationship between the environmental professional and the user is necessary for the user to meet the requirements of this practice.

Uncertainty Not Eliminated – No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost.

Use of Prior Information – Subject to the requirements set forth in ASTM E 1527-05, Section 4.6, users and environmental professionals may use information in prior environmental site assessments provided such information was generated as a result of procedures that meet or exceed the requirements of this practice. However, such information shall not be used without current investigation of conditions likely to affect recognized environmental conditions in connection with the property. Additional tasks may be necessary to document conditions that may have changed materially since the prior environmental site assessment was conducted.

User – the party seeking to use Practice E 1527 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The user has specific obligations for completing a successful application of this practice as outlined in ASTM E 1527-05, Section 6.

Visually and/or physically observed – during a site visit pursuant to this practice, this term means observations made by vision while walking through a property and the structures located on it and observations made by the sense of smell, particularly observations of noxious or foul odors. The term “walking through” is not meant to imply that disabled persons who cannot physically walk may not conduct a site visit; they may do so by the means at their disposal for moving through the property and the structures located on it.

8.3 Acronyms

ACM – asbestos-containing material
AST – aboveground storage tank
ASTM – American Society for Testing and Materials
AUL – Activity and Use Limitations
bgs – below ground surface
CERCLA – Comprehensive Environmental Response, Compensation and Liability Act of 1980 (as amended, 42 USC § 9601 et seq.)
CERCLIS – Comprehensive Environmental Response, Compensation and Liability Information System (maintained by EPA)
CFR – Code of Federal Regulations
CORRACTS – Facilities subject to Corrective Action under RCRA
EA – Environmental assessment
ECRA – Environmental Cleanup Responsibility Act
EDR – Environmental Data Resources, Inc.
EPA – United States Environmental Protection Agency
EPCRA – Emergency Planning and Community Right to Know Act ((also known as SARA Title III), 42 USC § 11001 et seq.)
ERNS – Emergency Response Notification System
ESA – Environmental Site Assessment (different than an *environmental compliance audit*, 3.2.27)
FOIA – U.S. Freedom of Information Act (5 U.S.C. §552 as amended by Public Law No. 104-231, 110 Stat.)
FR – Federal Register
HREC – Historical recognized environmental condition
ICs – Institutional Controls
ISRA – Industrial Site Recovery Act
LBP – Lead-based paint
LLP – Landowner Liability Protections under the *Brownfields Amendments*
LRST – Leaking registered storage tank
LUST – Leaking underground storage tank
MSDS – Material safety data sheet
NCP – National Contingency Plan
NFRAP – former CERCLIS sites where no further remedial action is planned under CERCLA
NPDES – National Pollutant Discharge Elimination System
NPL – National Priorities List
NVLAP – National Voluntary Laboratory Accreditation Program
OSHA – Occupational Safety and Health Administration
PACM – Presumed asbestos-containing material
PCBs – Polychlorinated biphenyls
PLM – Polarized light microscopy
PRP – Potentially responsible party (pursuant to CERCLA 42 USC § 9607(a))
RCRA – Resource Conservation and Recovery Act (as amended, 42 USC § 6901 et seq.)
RCRIS – Resource Conservation and Recovery Act Information System

REC – Recognized environmental condition
ROC – Record of communication
RST – Registered storage tank
SACM – Suspect asbestos-containing material
SARA – Superfund Amendments and Reauthorization Act of 1986 (amendment to CERCLA)
SIC – Standard Industrial Classification
TEM – Transmission electron microscopy
TSDf – Hazardous waste treatment, storage or disposal facility
USC – United States Code
USEPA – United States Environmental Protection Agency
USGS – United States Geological Survey
UST – Underground storage tank

8.4 Purpose

The purpose of a Phase I Environmental Assessment is to evaluate issues that may have an impact on the subject property. The purpose of the ASTM E 1527-05 practice is to define good commercial and customary practice in the United States of America for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) and petroleum products. As such, the practice is intended to permit a User to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (hereinafter, the “landowner liability protections,” or “LLPs”): that is, the practice that constitutes “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice” as defined at 42 U.S.C. §9601(35)(B). The goal of this process is to identify the presence or likely presence of hazardous substances or petroleum products on the property and identify conditions that indicate an existing release, a past release, or a material threat of a release of hazardous substances or petroleum products into structures on the subject property or into the ground, groundwater, or surface of the subject property. The purpose of this report is not intended to include de minimis conditions that generally do not present a material risk of harm to public 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. This report is also not intended to serve as a compliance assessment of the subject property or to identify health and safety issues or procedures. The ASTM E 1527-05 DOES NOT address whether requirements in addition to all appropriate inquiry have been met in order to qualify for the LLPs (for example, the duties specified in 42 U.S.C. §9601(b)(3)(a) and (b) and cited in Appendix X1 of the ASTM Standard, including the continuing obligation not to impede the integrity and effectiveness of activity and use limitations (AULs), or the duty to take reasonable steps to prevent releases, or the duty to comply with legally required release reporting obligations).

The ASTM E 1527-05 practice DOES NOT address requirements of any state or local laws or of any federal laws other than the all appropriate inquiry provision of the LLPs. Per the ASTM Standard, Users are cautioned that federal, state, and local laws may impose environmental

assessment obligations that are beyond the scope of this practice. Users should also be aware that there are likely to be other legal obligations with regard to hazardous substances or petroleum products discovered on the property that are not addressed in the ASTM practice and that may pose risks of civil and/or criminal sanctions for non-compliance.

8.5 Significant Assumptions

The following assumptions are made by Property Solutions in this report. Property Solutions relied on information derived from secondary sources including governmental agencies, the Client (User), designated representatives of the Client (User), property contact, property owner, property owner representatives, computer databases, and personal interviews. Except as set forth in this report, Property Solutions has made no independent investigation as to the accuracy and completeness of the information derived from secondary sources including government agencies, the Client, designated representatives of the Client, property contact, property owner, property owner representatives, computer databases, or personal interviews and has assumed that such information is accurate and complete. Property Solutions assumes information provided by or obtained from governmental agencies including information obtained from government websites is accurate and complete. Groundwater flow and depth to groundwater, unless otherwise specified by on-property well data, are assumed based on contours depicted on the United States Geological Survey topographic maps. Property Solutions assumes the property has been correctly and accurately identified by the Client (User), designated representative of the Client (User), property contact, property owner, and property owner's representatives. Property Solutions assumes that the Client (User), Client representatives, Client Legal Counsel, designated representatives of the Client, Key Site Manager, property contact, property owner, property owner representatives, and property brokers, used good faith in answering questions and in obtaining information for the subject property as defined in 10.8 of the ASTM E 1527-05 practice. This would also include obtaining those helpful documents from previous owners, operators, tenants, brokers, financial institutions etc. Property Solutions also assumes the Client will designate appropriate and knowledgeable people for performance of the Phase I Environmental Assessment including Key Site Managers.

8.6 Special Terms and Conditions

This Phase I Environmental Assessment was prepared in accordance with the stated and agreed upon Scope of Work. In order to perform a comprehensive environmental evaluation, subsurface investigation and testing would be required to definitively evaluate whether contamination has affected the subject property. Therefore, the findings and conclusions presented herein are based solely on the scope of work previously described and information gathered. No environmental assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of the ASTM practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and the ASTM practice recognizes reasonable limits of time and cost. Limitations to the assessment also include weather conditions, vegetation cover, parked cars, trucks, dumpsters, and anything limiting visual observation of or physical access to the subject property and neighboring properties. Vapor

intrusion is not included in this scope of services and is considered an ASTM Non-scope consideration. This report and scope is not an environmental compliance audit.

Subject to Section 4.8 of the ASTM E 1527-05 Standard, an environmental site assessment meeting or exceeding the practice and completed less than 180 days prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction is presumed to be valid. If within this period the assessment will be used by a different user than the user (Client) for whom the assessment was originally prepared, the subsequent user (if authorized to rely on the report as identified in Section 1.5 Reliance of this report) must also satisfy the User's Responsibilities in Section 6 of the ASTM E 1527-05 standard. If this assessment is over 180 days old it is not valid and a new assessment should be performed per the ASTM standard.

This report was specifically and only prepared for the identified specific Client (user) and for their specific purpose; no other person or entity for any other purpose may use, or rely on this report or its contents unless specifically authorized in writing by Property Solutions Inc. Subsequent consultants and subsequent Users may not rely on this report or information included in this report. Property Solutions Inc. will not be held liable in any way for any and all unauthorized use of this report both currently and in the future. Consultants and subsequent Users must specifically and separately verify all information and not rely on the facts, findings, conclusions, and opinions of this report. Future use of this report by consultants or subsequent Users is strictly prohibited and not authorized to evaluate the appropriateness of using this information in environmental site assessments performed in the future by anyone other than Property Solutions Inc. Subsequent consultants and subsequent Users may not include this report or information included in this report (unless publicly available) without the written authorization of Property Solutions Inc.

No other special terms and conditions are applicable to this Phase I Environmental Assessment.

**ATTACHMENT I
PROFESSIONAL
QUALIFICATIONS**

SHAUNA M. COOBICK-ABBOTT

SENIOR GEOLOGIST

EDUCATION

Bachelors of Science in Geology
Richard Stockton College of New Jersey
Pomona, New Jersey

Associates Degree in Math/Science
Cumberland County College
Vineland, New Jersey

Associates Degree in Liberal Arts
Cumberland County College
Vineland, New Jersey

ACCREDITATIONS

OSHA 29 CFR 1910.120(e)
HAZWOPER Training

Certified Confined Space
Entrant/Attendant

EPA/AHERA/Pennsylvania
Asbestos Building Inspector and
Management Planner

NJDEP Subsurface Evaluator and UST Closure

NJDEP Cleanup Star

Licensed Professional Geologist (Pennsylvania)

SUMMARY OF EXPERIENCE

Ms. Coobick's experience includes ten years of field work and technical writing with the same nationwide environmental consulting firm, currently holding the title of Senior Geologist. Specific duties include the following: coordination and performance of soil, sediment, groundwater, and surface water sampling as part of Phase II Subsurface Investigations and Delineations; field screening and classification of soils and preparation of soil boring logs; installation, development, and sampling of temporary piezometers and groundwater monitoring wells; interpretation of well logs, slug testing, water quality parameter analysis, development and interpretation of soil and groundwater isopleth maps and plume analysis, and evaluation of remediation systems including bioremediation and natural attenuation; performance of Phase I Environmental Assessments of multi-family residential, commercial, and light industrial properties in accordance with ASTM guidelines as well as client-specific Scopes of Work; Preliminary Assessments and Site Investigations in accordance with New Jersey Department of Environmental Protection (NJDEP) Industrial Site Recovery Act (ISRA) regulations as well as Phase III activities including submissions prepared in accordance with NJDEP Technical Requirements for Site Remediation, Pennsylvania Act II, and New York STARS programs; investigation, closure, and removal of commercial and residential underground storage tanks in several states including New Jersey, Pennsylvania, and New York; and evaluation of data from geophysical surveys (EM-61 and ground-penetrating radar); preparation of detailed Scopes of Work, cost estimates, and schedules to be included in investigation and remediation proposals for evaluating impact of various areas-of-concern (leaking underground storage tanks, dry cleaning solvent releases, etc.) on subsurface soils and groundwater; technical review of third-party reports for comparison to ASTM as well as client-specific Scopes of Work; bulk sampling of asbestos and lead-based paint; mold assessments; sampling for radon and lead-in-drinking water; preparation of operations and maintenance plans for asbestos, lead-based paint, and mold.

JAMES A CAREY

REGIONAL MANAGER

EDUCATION

Master of Environmental Management
Duke University, Nicholas School of the Environmental
Durham, North Carolina

Bachelor of Science
Moravian College
Bethlehem, Pennsylvania

ACCREDITATIONS

NJDEP Certified Subsurface Evaluator
NJDEP Clean Up Star Certification
NJDEP Unregulated Heating Oil Tank Program Certification
OSHA 40 hour HAZWOPER Training
USEPA-AHERA Certified Asbestos Inspector and Management Planner
Assessing, Sampling, Controlling Microbial Contamination in Indoor
Environments
Inspection for Lead Hazards Risk Assessor
Radon Measurement & Mitigation for Commercial & Multifamily Buildings
Society of Environmental Toxicology and Chemistry
National Brownfield Association

SUMMARY OF QUALIFICATIONS

Mr. Carey has over 10 year experience performing and managing Phase I Environmental Assessments, Phase II Subsurface Investigations, Preliminary Assessments, Regulatory Compliance Assessments, and Remedial Actions involving industrial, commercial, and residential properties throughout the United States. Mr. Carey is experienced in the design, management, and performance of soil and ground water remedial projects. Mr. Carey executed environmental evaluations which include: researching historical usage of the property, identifying potential contamination, formulating sampling and analysis plans, interpreting analytical results, and documentation through technical report writing. In addition, Mr. Carey has also provided such services as acting as a liaison between regulatory agencies and clients and proposal development.

Mr. Carey has research experience in aquatic biochemical toxicology. His research has focused on the elucidation of mechanisms of adaptation to environmental contaminants. Mr. Carey has two published abstracts and has been involved in poster presentations at the annual conference of the Society of Environmental Toxicology and Chemistry.

REPRESENTATIVE PROJECT EXPERIENCE

Retail Mall – Boston, Massachusetts

Mr. Carey performed a Phase I Environmental Assessment of a large shopping mall. Mr. Carey evaluated the potential impacts of tenants such as photo processors and a medical practice. The shopping mall was located on property formerly utilized as a US Military Arsenal. Contamination identified through a review of historical documentation included polychlorinated biphenyls, volatile organic compounds, petroleum hydrocarbons, and radioactive materials.

Residential Resort – East Hartford, Connecticut

Review of aerial photographs and historic documentation revealed that the subject property was part of the town landfill. Mr. Carey also identified an area where the adjacent landfill was draining into wetlands on the subject property. In addition, two heating oil USTs were removed from the property without property soil sampling. Mr. Carey designed a soil and ground water sampling plan to evaluate the potential impacts of the adjacent landfill on the wetland area, as well as the former USTs on the environmental condition of the subject property.

Regulatory Compliance Audits (Commercial and Industrial) – Various Locations

Mr. Carey has performed regulatory compliance audits on commercial and industrial facilities for the purpose of assessing compliance with environmental laws and regulations such as the Clean Water Act, the Clean Air Act, the Resource Recovery and Conservation Act, the Toxic Substance Control Act as well as state and local laws and regulations. These audits identified a facility's compliance or non-compliance and recommended viable and cost-effective solutions to attain compliance while avoiding potential financial penalties.

Remediation – Former Manufactured Gas Plant Operation, Long Branch, NJ

Mr. Carey performed review and evaluation of historic site operations dating back to the late 1800s that led to the discovery of a former manufactured gas plant. Geophysical Investigations and sampling identified the location of the former gasometers. The soil contamination and foundations for the gasometers were excavated and removed from the property. Developed and implemented a groundwater monitoring program

Remediation – UST Removal and Remediation – Various locations

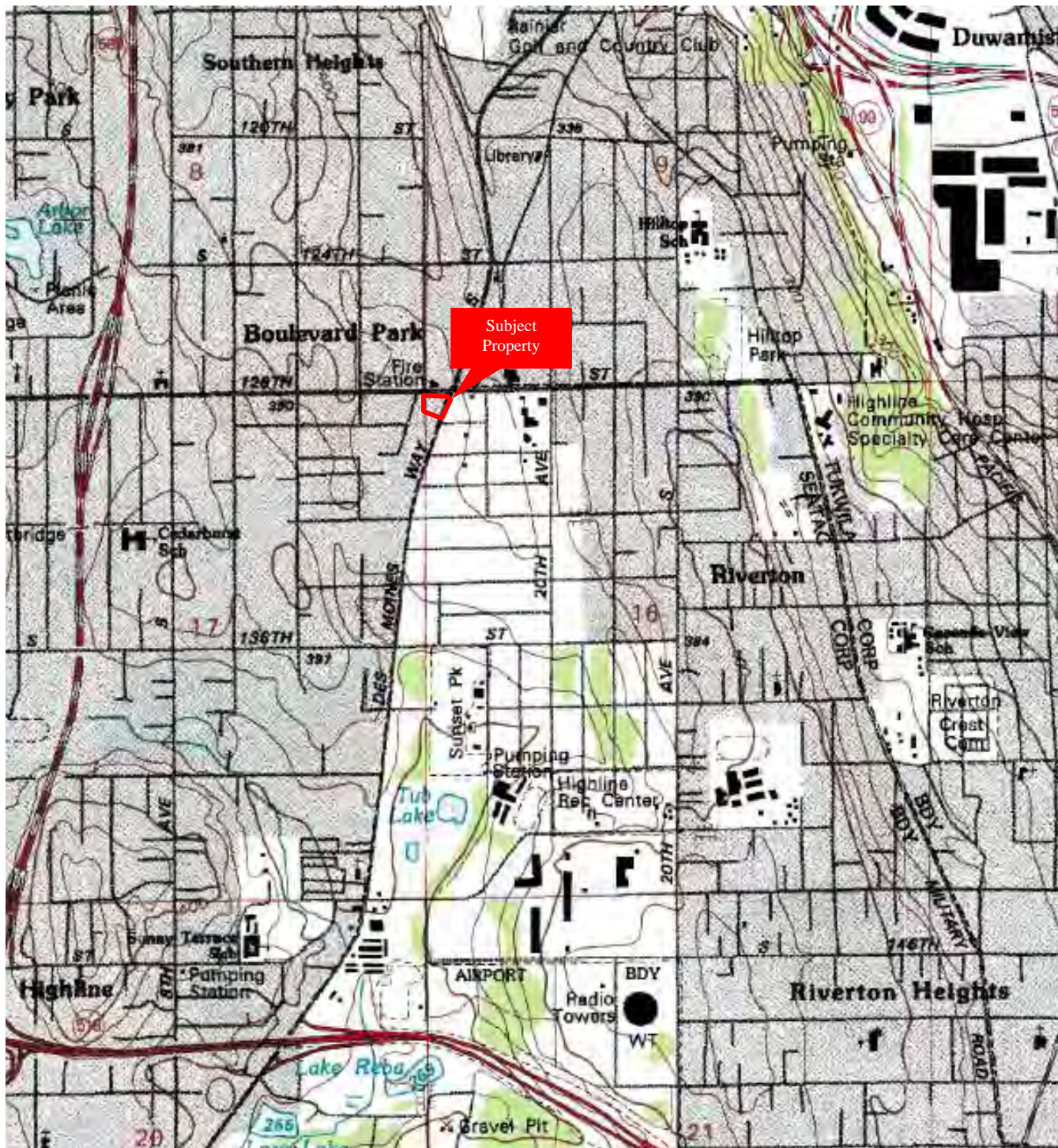
Mr. Carey has experience in UST removals in a number of states. Services included UST removal, replacement and upgrade design, plans and specification development, hydrogeological investigations, contaminant plume delineation, remedial action alternatives development, sampling and analysis, and project oversight. Mr. Carey has successfully brought a number of these projects through the NJDEP Clean up Star Program and Unregulated Heating Oil Tank Program.

Landfill Redevelopment – Various locations – New Jersey

Mr. Carey has performed review of documentation and permits for the redevelopment of several landfill projects in New Jersey. Mr. Carey has experience in evaluating the potential development options available for these sites.

APPENDIX A

FIGURES



US DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY 7.5' TOPOGRAPHIC QUADRANGLE



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20112160



Topo Quad Name:

Property Boundaries are Approximate



TAX MAP



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

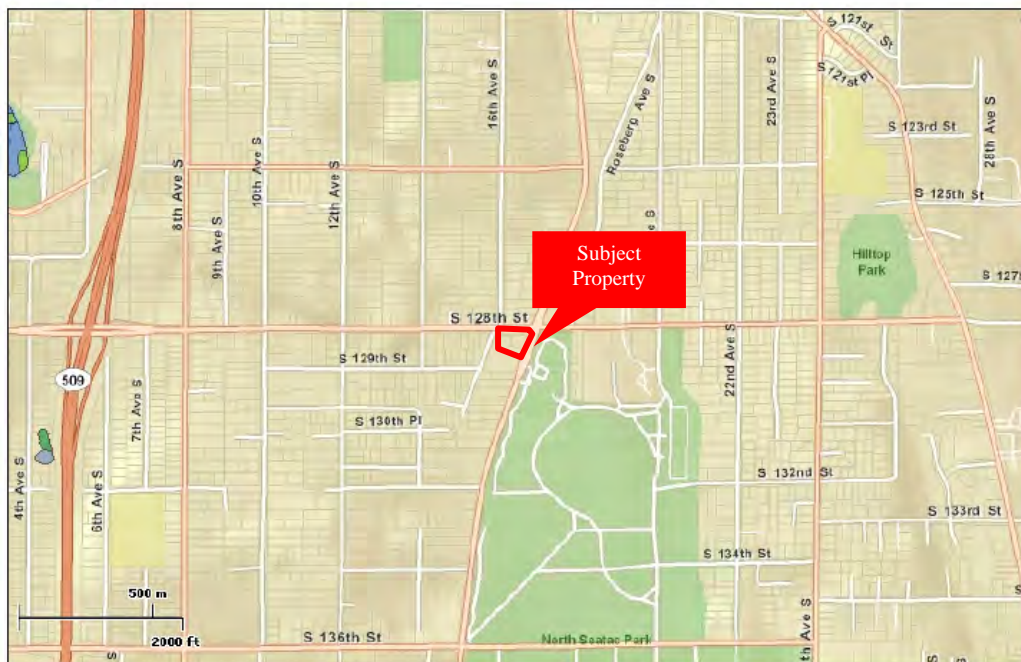
Project No.: 20112160





Wetlands

- | | |
|---|--------------------------------|
|  | Freshwater Emergent |
|  | Freshwater Forested/Shrub |
|  | Estuarine and Marine Deepwater |
|  | Estuarine and Marine |
|  | Freshwater Pond |
|  | Lake |
|  | Riverine |
|  | Other |



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

WETLAND MAP



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20112160



APPENDIX B

PROPERTY DIAGRAM

APPENDIX C

PHOTOGRAPHS

PHOTO 1.

Looking across the property from the northeast to southwest



PHOTO 2.

East side of the building and parking area on the south side of the property



PHOTO 3.

Interior of the convenience store

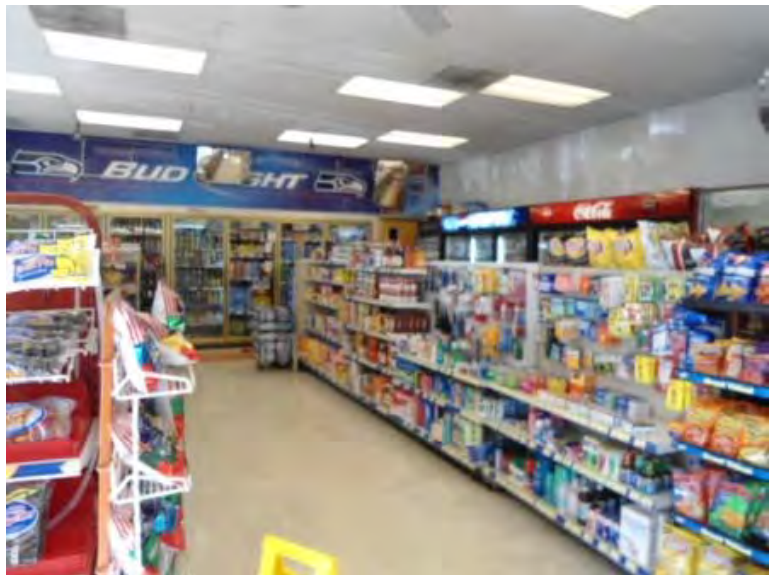


PHOTO 4.

Veeder-root monitoring equipment



PHOTO 5.

UST fill, vapor recovery and manhole covers on the north side of the property



PHOTO 6.

Dumpster on the south side of the building

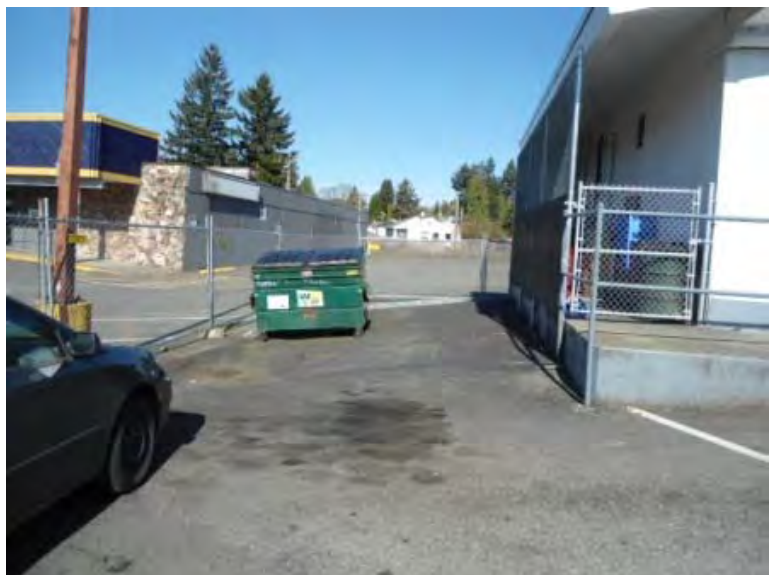


PHOTO 7.

West side of the building



PHOTO 8.

Tank piping sump



PHOTO 9.

Typical fill port and spill bucket



PHOTO 10.

UST vents and air compressor on the northeast corner of the property



PHOTO 11.

Adjacent property north: 128th Street SW and the North Highline Fire District building



PHOTO 12.

Adjacent property north: 128th Street SW



PHOTO 13.

Adjacent property east: De Moines Way SW.



PHOTO 14.

Adjacent property south: Rips baseball equipment



PHOTO 15.

Adjacent property west: Rips baseball equipment lot



APPENDIX D

USER CORRESPONDENCE



Key Site Manager Questionnaire

Please provide the following information, if available, before the property visit by Property Solutions. The key site manager should be a person with good knowledge of the uses and physical characteristics of the property, such as a property manager, building manager, the chief physical plant supervisor, or maintenance supervisor.

Complete pages 1 through 3. If applicable, provide information described in subsequent pages. If additional pages for response are necessary, please attach them to this form.

Please sign your name and print your name and the date below. By signing you state that the information you provided herein is accurate to the best of your knowledge.

Signature

Date

Print Name

Property Information				
Property Name		Property Identification (e.g. Block & Lot or Parcel ID #)		
Property Street Address 12807 Des Moines Memorial Drive				
Property City Burien		Property County King		Property State & Zip WA, 98168
Property Size (acres)	# Buildings 1	# Units 1	# Stories 1	Square footage (total)
Foundation <input type="checkbox"/> Slab-on-grade <input type="checkbox"/> Basement	Property Use <input type="checkbox"/> Commercial <input type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Other (specify)			
Describe renovations & provide dates:				
Key Site Manager Contact Information				
Key Site Manager Name & Title Martha Abatecola, Business Manager		Company Convenience Retailers, LLC		
Address 7180 Koll Center Parkway, Suite 100		City Pleasanton		State & Zip CA, 94566
Phone		Fax 206-299-5028		
Cell phone 206-850-5488		Email mabatecola@pcanf.com		
Current Property Owner				
Owner Name & Title Sam Hirbod, CEO		Company Convenience Retailers, LLC		
Address 7180 Koll Center Parkway, Suite 100		City Pleasanton		State & Zip CA, 94566
Date of Acquisition November, 2007				

1. UTILITIES			
Utility	Provider	Utility	Provider
Electricity	Unknown, Lessee Pays	Fuel Oil	n/a
Natural Gas	Unknown, Lessee Pays	Steam	n/a
Sanitary Sewerage	Unknown, Lessee Pays	Solid Waste Removal (include medical waste)	Unknown, Lessee Pays
Potable Water	Unknown, Lessee Pays		

If a potable water well and/or septic system is located at property, please complete Sections 5.1.6 and/or 5.1.8.

2.1 CURRENT OPERATIONS				
Is the property currently used for any of the following operations? (Check all that apply.)				
<input type="checkbox"/> Manufacturing operations	<input checked="" type="checkbox"/> Gasoline service station	<input type="checkbox"/> Automobile repair	<input type="checkbox"/> Printing facility	<input type="checkbox"/> Dry cleaning*
<input type="checkbox"/> Photodevelopment	<input type="checkbox"/> Junkyard or landfill	<input type="checkbox"/> Waste treatment, transfer, storage, disposal, processing, or recycling		
*If dry cleaning operations currently occur or have occurred at property, please complete Section 5.1.9.				
Describe current operations:				
Gasoline Station/Convenience Store				
2.2 PAST OPERATIONS & OWNERS				
Has the property ever been used for any of the following operations? (Check all that apply.)				
<input type="checkbox"/> Manufacturing operations	<input checked="" type="checkbox"/> Gasoline service station	<input type="checkbox"/> Automobile repair	<input type="checkbox"/> Printing facility	<input type="checkbox"/> Dry cleaning*
<input type="checkbox"/> Photodevelopment	<input type="checkbox"/> Junkyard or landfill	<input type="checkbox"/> Waste treatment, transfer, storage, disposal, processing, or recycling		
*If dry cleaning operations currently occur or have occurred at property, please complete Section 5.1.9.				
Describe property use/operations prior to the construction of buildings currently at the property:				
Gas Station/Convenience Store				
Provide previous property owners, occupants, and/or operators. Attach pages as necessary.				
Company	Owner/ Occupant/ Operator	Dates of occupancy	Operations	Contact name & number
Time Oil Company	unknown		Fuel and Conv. Store	Unknown
2.3 NEIGHBORING OPERATIONS				
Check any operations which occur, or have occurred in the past, at adjoining properties.				
<input type="checkbox"/> Manufacturing operations	<input type="checkbox"/> Gasoline service station	<input type="checkbox"/> Automobile repair	<input type="checkbox"/> Printing facility	<input type="checkbox"/> Dry cleaning*
<input type="checkbox"/> Photodevelopment	<input type="checkbox"/> Junkyard or landfill	<input type="checkbox"/> Waste treatment, transfer, storage, disposal, processing, or recycling		

3. EXISTING DOCUMENTATION					
Does the following documentation exist? If yes, please provide copies.					
Yes	No		Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	ESA Reports	<input type="checkbox"/>	<input type="checkbox"/>	Community Right-to-know plan
<input type="checkbox"/>	<input type="checkbox"/>	Env. Compliance Audit Reports	<input type="checkbox"/>	<input type="checkbox"/>	Safety Plans
<input type="checkbox"/>	<input type="checkbox"/>	Environmental Permits	<input type="checkbox"/>	<input type="checkbox"/>	SPCC Plans
<input checked="" type="checkbox"/>	<input type="checkbox"/>	UST/AST registrations	<input type="checkbox"/>	<input type="checkbox"/>	Emergency preparedness & prevention plans
<input type="checkbox"/>	<input type="checkbox"/>	Underground injection permits	<input type="checkbox"/>	<input type="checkbox"/>	Hydrogeologic reports
<input checked="" type="checkbox"/>	<input type="checkbox"/>	MSDS	<input type="checkbox"/>	<input type="checkbox"/>	Government correspondence & violations
<input type="checkbox"/>	<input type="checkbox"/>	Hazardous waste generator notices	<input type="checkbox"/>	<input type="checkbox"/>	Recorded AULs
<input type="checkbox"/>	<input type="checkbox"/>	Geotechnical studies	<input type="checkbox"/>	<input type="checkbox"/>	Environmental Liens
<input type="checkbox"/>	<input type="checkbox"/>	Risk Assessments	<input type="checkbox"/>	<input type="checkbox"/>	Other _____

4. KNOWN ENVIRONMENTAL CONCERNS		
Are you aware of any pending, threatened, or past litigation relevant to <i>hazardous substances</i> or <i>petroleum products</i> in, on, or from the property?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Are you aware of any pending, threatened, or past administrative proceedings relevant to <i>hazardous substances</i> or <i>petroleum products</i> in, on, or from the property?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Are you aware of any notices from governmental agencies regarding possible violation of environmental laws or possible liability relating to <i>hazardous substances</i> or <i>petroleum products</i> ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Are you aware of any remediation activities that have occurred at the property or adjacent properties in response to contaminated soil, groundwater, and/or surface water?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Are you aware of any proposed remediations at the property?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

If yes to any of the above, describe. Attach pages as necessary. _____

Are you aware of any of the following currently or previously located at the subject property? (Check all that apply. If you answer yes to any of the items, provide the additional information described on the following pages.)				
	Yes – currently	Yes – previously	No – never	If yes, provide additional information in section below:
Underground storage tanks:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.1
Aboveground storage tanks:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.2
Electrical transformers or capacitors:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.3
Hydraulic equipment, including elevators, dock levelers, lifts, compactors, & balers:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.3
Chemical storage (greater than 5 gallons):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.4
Hazardous wastes, including used oil:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.5
Wells, including potable water wells, monitoring wells, test wells:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.6
Sumps:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.6
Pits:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.6
Floor drains:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.6
Surface water bodies, stormwater discharge, and/or wetlands:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.7
Lagoons:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.8
Septic systems:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.8
Oil water separators:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.8
Dry cleaners:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.1.9
Asbestos:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.2.1
Radon studies/mitigation systems:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.2.2
Lead:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.2.3
Air emissions, including emergency generators, fume hoods, & spray paint booths:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.2.4
Mold growth and/or water intrusion:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.2.5

If you have answered No to all of the above, you are finished with the Questionnaire.

5. ADDITIONAL INFORMATION

Underground Storage Tanks (USTs)

If USTs are/were located at the property (including closed or removed USTs), complete the following tables:

UST No.	Capacity (gallons)	Contents	Material of Construction	Install Date	LD? (Y/N)	CP? (Y/N)	S/O? (Y/N)	DLIT
1	10,000	Premium	Carbon Steel	11/1990	Yes	Yes	Yes	
2	10,000	Regular	Carbon Steel	11/1990	Yes	Yes	Yes	
3	10,000	Midgrade	Carbon Steel	11/1990	Yes	Yes	Yes	
4								
5								

LD: Leak detection, CP: Corrosion Protection, S/O: Spill/Overflow Protection, DLIT: Date of last integrity test

UST No.	Location/Former Location	Use/Former Use	Registered? (Y/N)	Permit No.	Status
1					
2					
3					
4					
5					

Status: ACT – Active, NIU - Not in use, REM – Removed, CIP – Closed in place

Do any underground pipelines traverse the property? Include easements.

Yes ☐ No ☐

Please attach additional UST information and documentation, including tightness test reports, closure reports, registration forms, permits, correspondence (e.g. No Further Action letters), and approvals.

Aboveground Storage Tanks (ASTs)

If ASTs (include & indicate **silos**) are/were located at the property, please describe:

Capacity (gallons)	Contents	Material of Construction	Location	Install Date	Secondary Containment? (Y/N)	Permit # &/or Facility #	Status	Registered? (Y/N)

Status: ACT – Active, NIU - Not in use, REM – Removed

Please attach any additional AST documentation.

Electrical & Hydraulic Equipment

Are the transformers labeled "Non-PCB" or has the owner verified they are Non-PCB? Yes ☐ No ☐

Have any releases of dielectric fluid occurred? Yes ☐ No ☐

Are dry-type transformers located at the property? Yes ☐ No ☐

Do any high-tension electric transmission lines traverse the property? Include easements. Yes ☐ No ☐

Number of hydraulic elevators at the property: _____ Number of cable-drawn elevators at property: _____

If applicable, who services the hydraulic elevators? _____

Describe any other hydraulic equipment at the property (including trash compactors, lifts, & dock levelers):

If hydraulic elevators are located at property, have any hydraulic fluid releases occurred? Yes ☐ No ☐

Chemical Storage

Chemical	Use	Amount Stored	Type of Container	MSDS present? (Y/N)	Leaks from container?

Has a significant release of chemicals (greater than 5 gallons) occurred at the property? Yes ☐ No ☐

Are you aware of any parts cleaners or degreasers located at the property? Yes ☐ No ☐

Please attach additional chemical storage information/documentation, including information concerning any releases, if applicable.

Waste Generation

Waste type/description	Location stored on property	Quantity generated per month	Waste manifest? (Y/N)	Waste handler

Please attach additional waste information, including copies of waste manifests for each above types of waste.

Wells, Sumps, Pits, & Floor Drains

Wells: Describe wells present at the property, include quantity, type (monitoring, test, potable water supply, etc.), active/inactive, depths of wells, and locations.

If water quality tests have been performed on water provided by wells, please attach copy of analytical results.

Sumps: Describe location, whether they are equipped with pumps, and if so, to where the pumps discharge.

Pits: Describe pits' construction and whether equipped with sump. Include hydraulic elevator pits and quantity, and to where sump discharges or if it retains all it collects.

Floor drains: Indicate locations and to where they discharge.

Is/are grease trap(s) located at the property? If yes, please provide following information.

Yes ☐ No ☐

Locations: _____

Construction: _____

Who services them? _____

How often cleaned out? _____

Surface Water Bodies & Stormwater Discharge

Are stormwater retention or detention basins located at the property?

Yes ☐ No ☐

If yes, are there outflow or overflow structures?

Yes ☐ No ☐

Are there streams and/or ponds at the property?

Yes ☐ No ☐

Are wetlands located at the property?

Yes ☐ No ☐

If yes, where? _____

To where do roof drains/leaders discharge? _____

Does the property have a NPDES permit?

Yes ☐ No ☐

Lagoons, Septic Systems, & Separators

Lagoons: Describe purpose, years of existence, and location:

Septic system: If currently or previously located at property, provide following: ☐ Active

☐ Inactive

☐ Closed

Type: ☐ Tank

☐ Leach field

☐ Spray field

☐ Cesspool

☐ Other (specify) _____

Describe location: _____

Separator: If an oil/water separator is located at the property, provide following:

Location: _____

Discharges to: _____

Tank capacity: _____

Construction: _____

Permit required? _____

Used oil removed by: _____

Drycleaners

Establishment Name	
Establishment Address	
Years of Operation	
Unit Manufacturer	
Unit Model	
Model Year	
Model Type	
Installation Date	
Original or Replacement Unit	
Air Discharge	<input type="checkbox"/> Yes <input type="checkbox"/> No
Condensate Discharge	<input type="checkbox"/> Yes <input type="checkbox"/> No
Condensate Receptor	<input type="checkbox"/> Floor drain <input type="checkbox"/> Collection bucket <input type="checkbox"/> Other _____
Solvent Storage	(location and/or internal reservoir)
Solvent Supplier	
Method of Filling Solvent	<input type="checkbox"/> Via pump truck directly <input type="checkbox"/> Poured by hand
Solvent Type	
Spent Solvent Removal	
Secondary Containment	<input type="checkbox"/> Yes Type _____ <input type="checkbox"/> No
Solvent-resistant floor coating	<input type="checkbox"/> Yes <input type="checkbox"/> No
Floor Drains or Sumps	<input type="checkbox"/> Yes <input type="checkbox"/> No
Slab or basement	
Cracks or Staining	
Filters	<input type="checkbox"/> Yes <input type="checkbox"/> No
Condensate Atomizer/Mister	<input type="checkbox"/> Yes <input type="checkbox"/> No
RCRA Identification Number	

Material & Waste Handling

Material	Location	Container Type/ Capacity	Disposal Method	Disposal Company	Manifests/ MSDS	Secondary Containment
Lint						
Filters						
Condensate						
Spent Solvent						
Off-spec chemicals						
Fresh solvent			N/A	N/A		
Other Chemicals			N/A	N/A		

Dry cleaning continued on next page.

5.1.9 Drycleaning - continued

Have secondary containment structures been installed around or beneath each machine or item of equipment in which dry cleaning solvents are used?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, then indicate when the containment structure(s) was installed:		
Have secondary containment structures been installed around or beneath each area where dry cleaning solvents and / or waste which contains dry cleaning solvents are stored?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, indicate date when the containment structure(s) was installed:		
Have the floor surfaces of the dry cleaning facility been sealed or otherwise rendered impervious in all areas in which solvents may leak, spill, or otherwise be released?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, indicate when the floors were sealed:		
Has new equipment with closed-loop technology been installed?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Has old equipment been retrofitted with closed-loop technology?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Have floor drains ever been present at the premises?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Has the facility ever been connected to a septic system?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Describe any spilling, leaking, seeping, pouring, emitting, emptying, dumping, or mis-application of dry cleaning solvents that has occurred at any time during the operation of the facility prior to this application (attach additional pages if necessary). If none, so state.		
Describe how wastes are disposed of (attach additional pages if necessary).		

Historical Dry Cleaning Operations

Dry Cleaner Name	Address	RCRA ID Number	Years of Operation

5.2.1 Asbestos-containing materials

Describe asbestos-containing materials (ACMs) at the property, amount, location, & type.

Has an asbestos survey been conducted at the property? Yes ☐ No ☐

Has an asbestos abatement been conducted at the property? Yes ☐ No ☐

Is an ACM Operations & Maintenance Plan in place at the property? Yes ☐ No ☐

If yes to the above questions, please attach reports/documentation.

5.2.2 Radon

Has a radon study been conducted at the property? **If yes, please provide.** Yes ☐ No ☐

Describe radon mitigation systems at the property, including type (active/passive) and locations.

5.2.3 Lead

Are there sources of lead (aside from lead-based paint – discussed below) at the property, such as water or soil contamination? Yes ☐ No ☐

Are lead-based paints located at the property? If yes, describe locations. Yes ☐ No ☐

If the property is residential, does HUD own the property or does the owner receive mortgage insurance under a program administered by HUD? Yes ☐ No ☐

If the property is residential, does the property (or any of its tenants) receive project-based rental assistance under a HUD program (including Section 8 housing)? Yes ☐ No ☐

If yes to the above, is the amount more than \$5,000 per year per unit? Yes ☐ No ☐

Has a lead-based paint survey and/or abatement been conducted at the property? Yes ☐ No ☐

If yes to the above question, please attach lead-based paint survey and/or abatement documentation.

5.2.4 Air Emissions

Have federal, state, county, or local permits been applied for and/or received for operations conducted at the property for air emissions? If yes, please describe – include permit number, issuing authority, purpose of permit, date of approval or denial, and expiration date.

Yes ☐ No ☐

If an emergency generator is located at property, please provide the following information:

Make/model: _____	Kilowatts: _____	Fuel: _____
How often does it run? _____	Owner: _____	Tank size: _____
Permits required? _____	Location: _____	Permit No. & Exp. Date: _____

Is/are there spray paint booth(s) located at the property? If yes, indicate frequency air filters are changed, disposal method, and whether air emissions permits are required.

Yes ☐ No ☐

5.2.5 Water Intrusion

Are you aware of any current water leaks?

Yes ☐ No ☐

Are you aware of any past water leaks?

Yes ☐ No ☐

Is/are the building(s) air conditioned?

Yes ☒ No ☐

Is mold visible in the building(s)?

Yes ☐ No ☐

Is there a pool or other water features (such as a fountain) in the building(s)?

Yes ☐ No ☐

Are the bathrooms and dryers (if applicable) vented to the exterior?

Yes ☐ No ☐

Have there been reports of illness due to air quality, or any indoor air quality or ventilation problems at the property?

Yes ☐ No ☐

Does property management have a mold response plan?

Yes ☐ No ☐

Please attach water intrusion documentation, including a mold response plan, mold handling plan, or laboratory results from mold samples collected at the property.

APPENDIX E

AERIAL PHOTOGRAPHS



1956 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20112160



Aerial Company & Location: EDR, Inc., Milford, CT

Property Boundaries are Approximate



1965 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20112160



Aerial Company & Location: EDR, Inc., Milford, CT

Property Boundaries are Approximate



1977 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20112160



Aerial Company & Location: EDR, Inc., Milford, CT

Property Boundaries are Approximate



1985 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20112160



Aerial Company & Location: EDR, Inc., Milford, CT

Property Boundaries are Approximate



1990 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20112160



Aerial Company & Location: EDR, Inc., Milford, CT

Property Boundaries are Approximate



2006 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20112160



Aerial Company & Location: EDR, Inc., Milford, CT

Property Boundaries are Approximate



2010 AERIAL PHOTOGRAPH



Property Solutions Inc.

PC&F Station 1-284
12807 Des Moines Way SW
Seattle, Washington

Project No.: 20112160



Aerial Company & Location: EDR, Inc., Milford, CT

Property Boundaries are Approximate

APPENDIX F

HISTORIC MAPS



12807 Des Moines Way, SW

12807 Des Moines Way, SW
Seattle, WA 98168

Inquiry Number: 3055793.3

April 29, 2011

Certified Sanborn® Map Report

Certified Sanborn® Map Report

4/29/11

Site Name:

12807 Des Moines Way, SW
12807 Des Moines Way, SW
Seattle, WA 98168

Client Name:

Property Solutions, Inc.
323 New Albany Road
Moorestown, NJ 08057

EDR Inquiry # 3055793.3

Contact: Greg Hillebrand



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Property Solutions, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 12807 Des Moines Way, SW
Address: 12807 Des Moines Way, SW
City, State, Zip: Seattle, WA 98168
Cross Street:
P.O. # 20112160
Project: 20112160
Certification # 4854-4D00-82DB



Sanborn® Library search results
Certification # 4854-4D00-82DB

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX G
PREVIOUS REPORTS
AND PLANS



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington

September 26, 2002

Time Oil Company
PO Box 24447 Terminal Annex
Seattle WA 98124

Dear Time Oil Company:

Re: Jackpot Station 284 - Time Oil 01-284
12807 Des Moines Way S, Seattle (12807 Des Moines Memorial Dr S, Burien)
Ecology UST #4050

The Department of Ecology (Ecology) is currently reviewing site files related to leaking underground storage tank sites. Since receipt of your reports (see below), some of the cleanup levels for petroleum products have changed due to amendments to the Model Toxics Control Act, Washington Administrative Code Chapter 173-340.

- Underground Storage Tank Removal - Jackpot Food Mart 01-284, prepared for Mr. Joe Hickey - Department of Ecology, prepared by Time Oil Co., May 20, 1991
- Report of Geoenvironmental Services Subsurface Soil Explorations and Remediation - Jackpot Food Mart 01-284, prepared for Time Oil Co., prepared by GeoEngineers Inc., April 28, 1993
- Remediation of Former Used Motor Oil Tank Bed and Site Assessment - Jackpot Food Mart 01-284, prepared for Department of Ecology, prepared by Time Oil Co., October 25, 1993
- Remedial Investigation Report - Time Oil Facility No. 01-284, prepared for Time Oil Co., prepared by Alisto Engineering Group, November 12, 1997
- Re: Submittal of "Remedial Investigation Report" for Jackpot Food Mart Letter, prepared for Mr. John Bails - Department of Ecology, prepared by Ms. Anastasia E. Duarte-Wilkinson - Time Oil Co., December 4, 1997

Based upon the above listed information, Ecology has determined that not all waste oil, diesel, gasoline, and PCB contamination above cleanup levels has been removed from the soils, associated with the December 12, 1990 and January 2, 1991 removal of five underground storage



Time Oil Company
September 26, 2002
Page 2

tanks. Oil and Diesel impacted soils remain beneath and slightly south of the Jackpot Food Mart store. Gasoline impacted soils remain to the east. A Vapor Extraction System was proposed and tested in March 1997.

Ecology is requesting any updated information you may have on the cleanup activities at this site by October 26, 2002. Please submit the documents to John Bails at the Department of Ecology, Northwest Regional Office – Toxics Cleanup Program, Attn: John Bails, 3190 160th Ave SE, Bellevue, WA 98008-5452. Ecology's objective is to facilitate the cleanup process at the site, with the goal of moving the site into a "Reported Cleaned Up" or "No Further Action" status with regard to the above mentioned petroleum release.

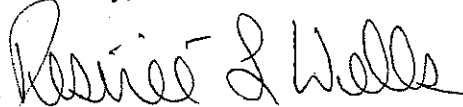
Your site is eligible for the Voluntary Cleanup Program. The Voluntary Cleanup Program is a fee-based service that Ecology offers to parties who want a detailed review of independent cleanup activities conducted at their site, and who want a determination documented by a letter. The Voluntary Cleanup Program offers a range of opportunities for assistance on completing the cleanup of your site, including the review of plans and proposals. Eventually, after the successful review of a completed cleanup, the result is a "No Further Action" letter. The "No Further Action" letter may be useful in the future to a buyer, seller, or financial institution in the event of a property transaction.

A "Reported Cleaned Up" status is not the same as a "No Further Action" status. It does not involve a detailed review by Ecology. The "Reported Cleaned Up" status may be based on the opinion of the site owner, consultant, or contractor as stated in the reports submitted to Ecology.

Your reports will be kept in the Central Files of the Northwest Regional Office of Ecology for public review by appointment only. Appointments can be made to review files by calling the Northwest Regional Office Records Center, at (425) 649-7190.

If you have questions about any of the information presented in this letter, please contact John Bails at (425) 649-7099.

Sincerely,



Desiree L. Wells

Toxics Cleanup Program
Department of Ecology

Enclosure

cc: John Bails, State of Washington Department of Ecology, NWRO-TCP
Teri Fisher, State of Washington Department of Ecology, NWRO-TCP

LUST File Summary

Site Name: Jackpot Station 284 - Time Oil 01-284
ID: FS # 45191292 UST # 4050 LUSTS # 2079
Address: 12807 Des Moines Way S, Seattle
County: King
Reference:

Underground Storage Tank Removal - Jackpot Food Mart 01-284, prepared for Mr. Joe Hickey - Department of Ecology, prepared by Time Oil Co., May 20, 1991

Report of Geoenvironmental Services Subsurface Soil Explorations and Remediation - Jackpot Food Mart 01-284, prepared for Time Oil Co., prepared by GeoEngineers Inc., April 28, 1993

Remediation of Former Used Motor Oil Tank Bed and Site Assessment - Jackpot Food Mart 01-284, prepared for Department of Ecology, prepared by Time Oil Co., October 25, 1993

Remedial Investigation Report - Time Oil Facility No. 01-284, prepared for Time Oil Co., prepared by Alisto Engineering Group, November 12, 1997

Re: Submittal of "Remedial Investigation Report" for Jackpot Food Mart Letter, prepared for Mr. John Bails - Department of Ecology, prepared by Ms. Anastasia E. Duarte-Wilkinson - Time Oil Co., December 4, 1997

Summary: **Location and Reason for Cleanup:**
Located at intersection between S 128th St and Des Moines Memorial Dr S
Correct street address is 12807 Des Moines Memorial Dr S, Burien 98168-2843
Parcel #1623049066
Reason for Cleanup was a facility upgrade in December 1990

Historical and Current Owner:
Prior: Hudson service station with at least one service bay
Current Use: Shell Jackpot Foodmart
Current Tax Payer: Time Oil Co
PO Box 24447 Terminal Annex
Seattle WA 98124

Cleanup:
December 12, 1990:

Removed from common excavation	Tank 261	8000-gal	unleaded gas
	Tank 364	8000-gal	unleaded gas
	Tank 428	10,000-gal	leaded gas

Highly contaminated soil near fill ends of both 8000-gal gas tanks
100' perforated piping placed into excavation at 8' to 10' bgs for future in-situ remediation
Excavated soil, with imported soil, used as backfill
No GW encountered in gas excavation

Sample 1 Beneath fill end of east tank at 12' bgs 0.91 ppm benzene

January 2, 1991:
Removed from west portion of property from a common excavation

	Tank 1	550-gal	heating oil
	Tank 2	300-gal	waste oil

Evidence of overfill at waste oil tank

Lateral migration of contamination had occurred at a depth of 10' bgs.

Excavation depth was 12' bgs

17 cu yd from heating oil and waste oil excavation excavated and stockpiled on site, with 5 cu yd disposed off site and the remainder (12 cu yd) used as backfill

Asphalt paving not replaced following 1991 excavation activities

No GW encountered in waste oil excavation

Heating Oil - CLEAN

Sample 8 Waste oil tank at 7' bgs 4000 ppm TPH-Oil

Sample 10 Waste oil tank at 10' bgs 4700 ppm TPH-Oil
1 ppm PCB (Aroclor 1254)

May 7, 1991: Contaminated soil had been excavated, with a venting system installed. There were originally four soil stockpiles behind the station. One remains, with three removed from the site. Some contamination remains in place.

April 28, 1993:

Gas excavation

Conducted a VES test and monitored combustible vapor concentrations vented from gas excavation

Heating oil and Waste oil excavation

Encountered Jan 1991 remaining waste oil PCS stockpile on site

Over excavated heating oil and waste oil excavation on December 8, 1992

Lateral contamination from waste oil UST west beneath adjacent Albertson's parking lot

Over excavation included parking lot, off-site

Depth of excavation to 28' bgs

200 cu yd clean overburden soil stockpiled on site -

Samples CSP-1 through CSP-5 - CLEAN

720 cu yd PCS stockpiled on Albertsons property -

Samples DSP-1 through DSP-4 - 5,900 ppm, 8,100 ppm, & 37,000 ppm TPH-D and TPH-Oil

Backfilled with clean imported fill

920 cu yd (both stockpiles) disposed at Woodworth & Company, Tacoma

Installed Dec 29, 1992 an oil/water collection sump (to 15.5' bgs) in heating oil/waste oil excavation during backfilling, in order to capture contaminated perched groundwater seeping from east wall (from under the Food Mart building) of the waste oil excavation toward Albertson's property

Sump checked Jan 15, 1993: No free product, but 4' water was present in sump

Removed 110 gallons water and transported/treated at Coastal Tank Company, Seattle

Sump sample collected January 8, 1997: no hydrocarbons detected

Decommissioned sump February 6, 1997 by filling

Perched groundwater at 9' bgs, with a heavy sheen, seeping from eastern wall

Source was surface water that percolated into excavation due to not being paved in 1991

Groundwater depth is 60' to 100' bgs

Removed 3,700 gallons water on Dec 16, 1992 by Coastal Tank for treatment/ disposal

14 samples collected- **Final over excavation samples:**

HW-3	Waste Oil Base at 14' bgs		2,400 ppm WTPH-Oil
HW-4	Waste Oil East wall at 10' bgs	High Sheen	6,600 ppm WTPH-Oil
HW-14	Waste Oil East wall at 10' bgs	High Sheen	1,300 ppm WTPH-G
HW-12	Waste Oil South wall at 16' bgs	High Sheen	2,700 ppm WTPH-G

PCS remains in eastern wall (at 9' to 14' bgs) and southern wall (at 16' bgs) from waste oil, yet excavation limited east under Food Mart due to building and sewer pipe, and south under Albertson's parking lot due to time

Because PCS was used as backfill in the **former gasoline UST excavation**, a site assessment was initiated in February 1993: 7 soil borings were advanced, and 2 vapor extraction wells were installed (B-1 through B-9):

B-2, B-7, B-8	drilled after VES test to evaluate for contamination remaining in the backfill and in native soil of former gas UST excavation
B-1, B-4, B-5, B-6	drilled to evaluate lateral and vertical extent of soil contamination south, southwest and southeast of heating oil and waste oil excavation
B-3	drilled to confirm contaminated soil had been removed from base of south end of waste oil excavation
B-9	drilled to access whether the new gas USTS, located in northeast portion of site, were contributing to contamination of waste oil excavation, B-1, & B-7

B-1-12	Soil Boring at 31' bgs High Sheen	30 ppm Xylenes	13,000 ppm TPH-G
B-1-18	Soil Boring at 46' bgs Med Sheen	23 ppm Xylenes	7,700 ppm TPH-G
B-7-7	Soil Boring at 34.5' bgs High Sheen		120 ppm TPH-G

November 1997:

Extent of soil contamination is well defined. Oil- and diesel-impacted soils limited to area beneath and slightly south of the existing Jackpot Food Mart store. Gasoline-impacted soils located in same vicinity and extend slightly to the east in the direction of the former gasoline tanks.

Installed two vapor extraction wells (VP-101 and VP-102) on February 6, 1997

Advanced one soil boring (B-10) on February 6, 1997

No groundwater encountered

No hydrocarbons detected

March 7, 1997: Tested VES system. SVE appears feasible for site remediation of residual hydrocarbons

Action: Contact ^{Time Oil} Exxon to see if any additional cleanup was completed at the site and/or if the SVE system has been utilized

Reviewed by: Desiree L. Wells 09/18/2002

South 128th Street

New Tank Location

Heating Oil
8, 10, 11, 12
Waste Oil

Existing Store

Former Gasoline Tanks

Pump Islands

Perforated Piping

Des Moines Way South

Explanation
● = Sampling Locations



TIME OIL CO.

2737 W. Commodore Way, Seattle, WA 98119

Attachment 1 - SITE PLAN

Jackpot Food Mart
Property No. 01-284

12807 Des Moines Way, Seattle WA

4/91

Attachment 2
ANALYTICAL RESULTS (ppm)

Gasoline Tanks:

<u>Sample No.</u>	<u>Depth (ft.)</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
1	12	6	0.91	2.0	0.13	2.38
2	12	ND	ND	1	2	3
3	13	8	0.13	0.26	0.034	3.1
4	13	ND	ND	0.001	0.012	0.012
5	15	ND	ND	ND	ND	ND
6	10	ND	0.001	ND	ND	ND
7	18	ND	ND	ND	ND	ND

Oil Tanks:

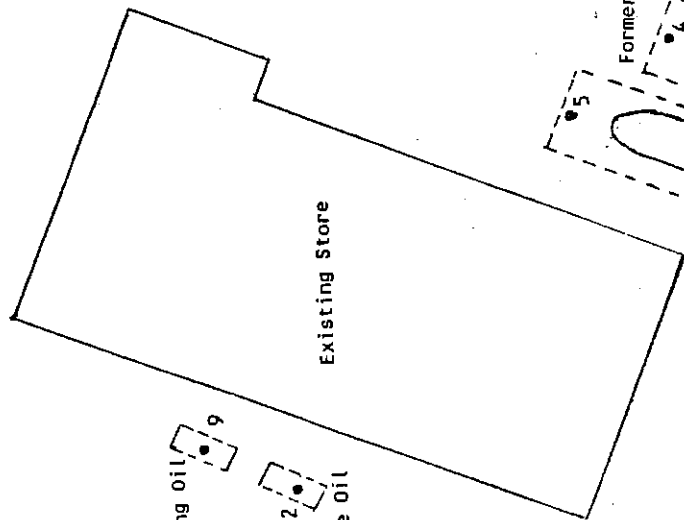
<u>Sample No.</u>	<u>Depth (ft.)</u>	<u>TPH</u>	<u>TCLP Lead</u>	<u>Methylene Chloride</u>	<u>PCBs</u>	<u>Toluene</u>	<u>Ethyl benzene</u>	<u>Xylenes</u>
8	7	4000	17	0.16	ND	0.004	0.005	0.054
9-HOT	10	590	0.12	0.02	ND	ND	ND	ND
10	10	4700	2	0.01	1	0.098	0.17	1.4
11	11	1300	0.05	0.01	ND	ND	0.028	0.420
12	12	900	0.04	0.01	ND	0.008	0.036	0.410

Soil Stockpile:

<u>Sample No.</u>	<u>TCLP Lead</u>
W01	4.5

South 128th Street

New Tank Location



Heating Oil

8, 10, 11, 12

Waste Oil

Existing Store

Former Gasoline Tanks

Pump Islands

Perforated Piping

Des Moines Way South

Explanation
● = Sampling Locations



TIME OIL CO. 2737 W. Commodore Way, Seattle, WA 98119
Attachment 1 - SITE PLAN
Jackpot Food Mart Property No. 01-284 12807 Des Moines Way, Seattle WA 4/91

Department of Ecology-NWRO

Underground Storage Tank
Notice of Confirmed Release

Complaint received by Madden Date 12/21/90
Reporter name Fred Proby Time Oil
address _____
phone no. 286-6444

004050 TIME OIL #01-284
Site name Jackpot Food Mart site phone no. 433-8077
address 22807 Des Moines Wy (Burien)
city Seattle county King zip 98125

Site owner Time Oil owner's phone 286-6444
owner's address P.O. Box 24447 Terminal Sta.
city Seattle zip 98124

Consultant company _____
name _____ phone no. _____

Other contact _____ phone no. _____
contact affiliation Lee Morse Const. / Tank pull

Description of Incident

Material	# Tanks	Status/Date
gasoline.....	<u>3</u>	<u>Reg Press. Unl. 2-10,000 } 12/17/90</u> <u>1-8,000</u>
diesel	_____	_____
waste oil	_____	_____
heat fuel	_____	_____
"Ghost" tanks	<u>2</u>	<u>W, H & plan to pull 2/2/91, TLC field screen</u>
Total number tanks: <u>5</u> Cleanup Status <u>On-Going</u> <u>eventually to be 3 tanks (gas)</u>		

Comments Cont soil under 2 tanks - apparently just backfill
down into native (hard till) 3-4'
now venting.
No GW noted.

Date inspected _____ Investigator _____ Referred to _____

South 128th Street

New Tank Location

Heating Oil
8, 10, 11, 12
Waste Oil

Existing Store

Former Gasoline Tanks

Pump Islands

Perforated Piping

Des Moines Way South

Explanation
● = Sampling Locations

Scale in Feet
0 5 10 15 20

TIME OIL CO.

2737 W. Commodore Way, Seattle, WA 98119

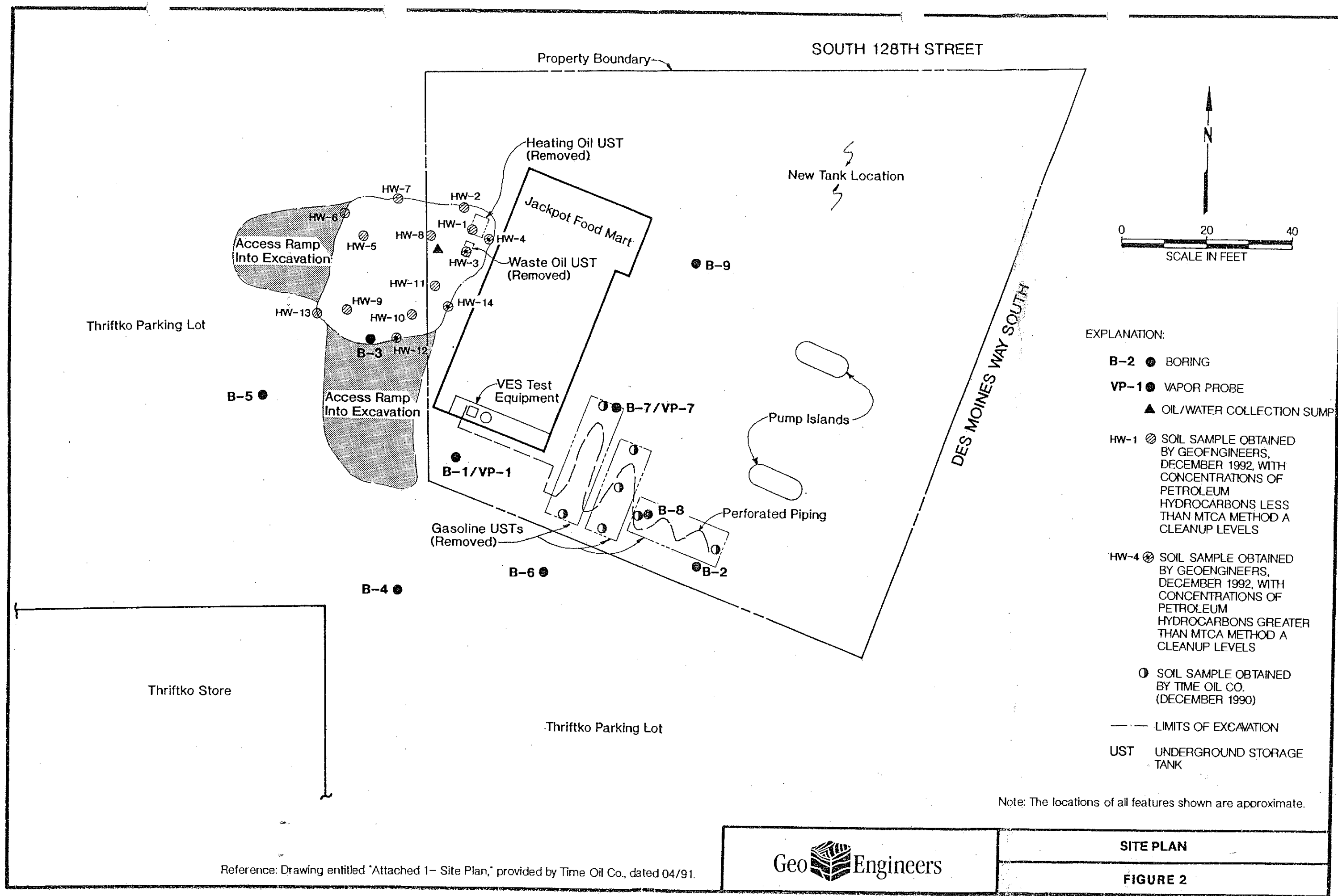
Attachment 1 - SITE PLAN

Jackpot Food Mart

Property No. 01-284

12807 Des Moines Way, Seattle WA

4/9:



ATTACHED 1- SITE PLAN 02/18/93

Reference: Drawing entitled "Attached 1- Site Plan," provided by Time Oil Co., dated 04/91.



SITE PLAN

FIGURE 2

TABLE 2
SUMMARY OF SOIL FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS¹
HEATING OIL AND WASTE OIL UST EXCAVATION

Sample Number	Date Sampled	Sample Location ²	Depth of Sample (feet)	Field Screening Results ³		Volatile Aromatic Hydrocarbons ⁴ (EPA Method 8020) (mg/kg)					Gasoline-range Hydrocarbons (Ecology Method WTPH-G) (mg/kg)	Diesel- and Oil-range Hydrocarbons (Ecology Method WTPH-D [extended]) (mg/kg)	
				Headspace Vapors (ppm)	Sheen	B	E	T	X			Diesel-range	Oil-range
HW-1	12/08/92	Base	12	<100	SS	-	-	-	-	-	-	<29	150
HW-2	12/08/92	North wall	10	<100	NS	-	-	-	-	-	-	<28	<110
HW-3 ⁵	12/08/92	Base	14	<100	SS	<0.029	0.11	<0.029	1.6	68	68	280	2,400
HW-4 ⁵	12/08/92	East wall	10	-	HS	-	-	-	-	-	-	1,200	6,600
HW-5	12/14/92	Base	16	-	SS	-	-	-	-	-	-	<27	<110
HW-6	12/14/92	West wall	14	-	SS	-	-	-	-	-	-	<27	<110
HW-7	12/16/92	North wall	14	<100	SS	-	-	-	-	-	-	<27	<110
HW-8	12/17/92	Base	19	<100	SS	-	-	-	-	-	-	<27	<110
HW-9	12/17/92	Base	23	<100	SS	-	-	-	-	-	-	<27	<110
HW-10 ⁶	12/18/92	Base	28	<100	SS	-	-	-	-	-	-	-	-
HW-11	12/18/92	Base	16	<100	SS	-	-	-	-	<6	<6	<28	<110
HW-12 ⁷	12/18/92	South wall	16	800	HS	<0.027	0.64	0.076	3.1	2,700	2,700	410	640
HW-13	12/18/92	West wall	25	110	MS	-	-	-	-	32	32	34	<110
HW-14 ⁷	12/29/92	East wall	10	320	HS	<0.027	0.18	<0.027	1.3	1,300	1,300	470	1,400
MTCA (Model Toxics Control Act) Method A Soil Cleanup Levels						0.5	20.0	40.0	20.0	100.0	100.0	200.0	200.0

Notes:

¹Laboratory reports are presented in Appendix B. Chemical analyses performed by ATI (Analytical Technologies, Inc.) of Renton, Washington.

²Approximate sample locations are shown in Figure 2.

³Field screening procedures are described in Appendix A. NS = no sheen; SS = slight sheen; MS = moderate sheen; HS = heavy sheen.

⁴B = benzene, E = ethylbenzene, T = toluene, X = xylenes

⁵Hydrocarbons detected in this sample were primarily in the heavy oil-range based on our interpretation of the sample chromatogram.

⁶Sample analyzed for hydrocarbon identification by Ecology Method WTPH-HCID. Gasoline, diesel- and oil-range hydrocarbons were not detected.

⁷Hydrocarbons detected in this sample were primarily in the gasoline- and heavy oil-ranges based on our interpretation of the sample chromatogram.

ppm = parts per million

mg/kg = milligrams per kilogram

* = not tested

Shaded areas indicate concentrations that exceed MTCA Method A soil cleanup levels.

TABLE 4 (Page 1 of 2)
SUMMARY OF SOIL FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS¹
SOIL BORINGS

Sample Number ²	Date Sampled	Depth of Sample (feet)	Field Screening Results ³		Volatile Aromatic Hydrocarbons ⁴ (mg/kg)				WTPH-HCID ⁵			Gasoline-range Hydrocarbons ⁶ (mg/kg)	Diesel-range Hydrocarbons ⁷ (mg/kg)	Oil-range Hydrocarbons ⁸ (mg/kg)	Total Lead ⁹ (mg/kg)
			Headspace Vapors (ppm)	Sheen	B	E	T	X	Gasoline	Diesel	Heavy Oil				
B-1-7	02/01/93	23.5	<100	NS	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	<11	<43	-
B-1-12	02/01/93	31.0	500	HS	<1.4	3.5	2.1	30	Detected	Detected	Detected	13,000	1,100	720	-
B-1-18	02/01/93	46.0	900	MS	<1.3	1.5	<1.3	23	Detected	Detected	Detected	7,700	1,100	580	-
B-1-21	02/01/93	53.0	<100	SS	<0.026	<0.026	<0.026	<0.026	-	-	-	<5	<11	<42	-
B-2-3	02/01/93	11.5	<100	SS	<0.027	<0.027	0.072	0.076	-	-	-	6	-	-	-
B-3-3	02/02/93	18.5	<100	SS	<0.027	<0.027	0.052	0.033	-	-	-	<5	<11	<44	-
B-3-5	02/02/93	29.0	<100	SS	<0.027	<0.027	0.037	0.033	-	-	-	-	<11	<43	-
B-4-7	02/02/93	34.0	<100	NS	<0.027	<0.027	<0.027	<0.027	-	-	-	13	<11	<43	-
B-5-7	02/02/93	34.0	<100	SS	<0.027	<0.027	<0.027	<0.027	-	-	-	11	<11	<43	-
B-6-6	02/03/93	29.0	<100	SS	<0.027	<0.027	<0.027	<0.027	-	-	-	8	<11	<43	-
B-7-2	02/03/93	9.5	<100	SS	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	-	-	2.0
B-7-3	02/03/93	14.5	<100	SS	<0.027	<0.027	0.032	0.039	-	-	-	15	-	-	-
B-7-7	02/03/93	34.5	1,000	HS	0.034	0.69	1.1	5.1	-	-	-	120	<11	<42	-
B-7-9	02/03/93	44.5	<100	SS	<0.026	<0.026	<0.026	<0.026	-	-	-	<5	<11	<42	-
B-8-2	02/04/93	9.0	<100	SS	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	-	-	14
B-8-4	02/04/93	13.5	<100	SS	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	<11	<44	3.5
B-9-6	02/04/93	29.0	<100	SS	<0.026	<0.026	<0.026	<0.026	-	-	-	<5	<11	<42	-
MTCA ¹⁰ Method A Soil Cleanup Levels					0.50	20	40	20				100	200	200	250.0

Notes appear on page 2 of 2.

TABLE 5
SUMMARY OF SOIL FIELD SCREENING RESULTS AND CHEMICAL ANALYTICAL RESULTS¹
SOIL STOCKPILES

Sample Number	Date Sampled	Field Screening Results ²		Diesel- and Oil-range Hydrocarbons ³		Total Petroleum Hydrocarbons ⁴ (mg/kg)	Volatile Organic Compounds ⁵ (mg/kg)	SemiVolatile Organic Compounds ⁶ (mg/kg)	Metals ⁷ (mg/kg)						
		Headspace Vapors (ppm)	Sheen	Oil-range (mg/kg)					As	Ba	Cd	Cr	Cu	Pb	Ni
				Diesel-range	Oil-range										
Overburden Soil Stockpile															
CSP-1	12/09/92	<100	NS	<30	<120	-	-	-	-	-	-	-	-	-	-
CSP-2	12/09/92	<100	SS	55	470	-	-	-	-	-	-	-	-	-	-
CSP-3	12/15/92	<100	SS	280	<110	-	-	-	-	-	-	-	-	-	-
CSP-4	12/15/92	<100	SS	100	<110	-	-	-	-	-	-	-	-	-	-
CSP-5	12/16/92	<100	SS	190	120	-	-	-	-	-	-	-	-	-	-
Diesel- and Oil-contaminated Soil Stockpile															
DSP-1	12/08/92	<100	HS	220	1,700	-	-	-	-	-	-	-	-	-	-
DSP-2	12/08/92	-	HS	1,300	8,100	-	-	-	-	-	-	-	-	-	-
DSP-3	12/09/92	1,100	HS	5,900	37,000	-	-	-	-	-	-	-	-	-	-
DSP-4	12/14/92	-	HS	660	1,600	-	-	-	-	-	-	-	-	-	-
DSP-5 ⁸	12/15/92	400	HS	-	-	6,500	xylenes 1.5	naphthalene 0.54 bis(2-ethylhexyl)phthalate 0.71 2-methylnaphthalene 1.1 phenanthrene 0.19 pyrene 0.30	1.5	42	0.35	19	13	17	28
DSP-6 ⁸	12/15/92	240	HS	-	-	860	xylenes 0.94	pyrene	2.3	48	0.34	17	15	4.7	28
DSP-7 ⁸	12/15/92	140	HS	-	-	4,400	xylenes 0.58	pyrene	1.4	55	0.40	22	14	13	34

Footnotes:

¹ Laboratory reports are presented in Appendix B. Chemical analysis performed by ATE Analytical Technologies, Inc., of Fairfax, Washington.

² Field screening procedures are described in Appendix A. HS = no sheen, SS = slight sheen, HS = heavy sheen.

³ Diesel- and oil-range hydrocarbons analyzed by Energy Methods (TEM-1) (unpublished method).

⁴ Total petroleum hydrocarbons analyzed by Energy Methods (TEM-1) (unpublished method).

⁵ Volatile organic compounds analyzed by EPA Method 8260.

⁶ Semi-volatile organic compounds analyzed by EPA Method 8210.

⁷ Metals analyzed by EPA Method 6010 using inductively coupled plasma atomic emission spectroscopy (ICP-AES).

⁸ Data are based on EPA Method 8210.

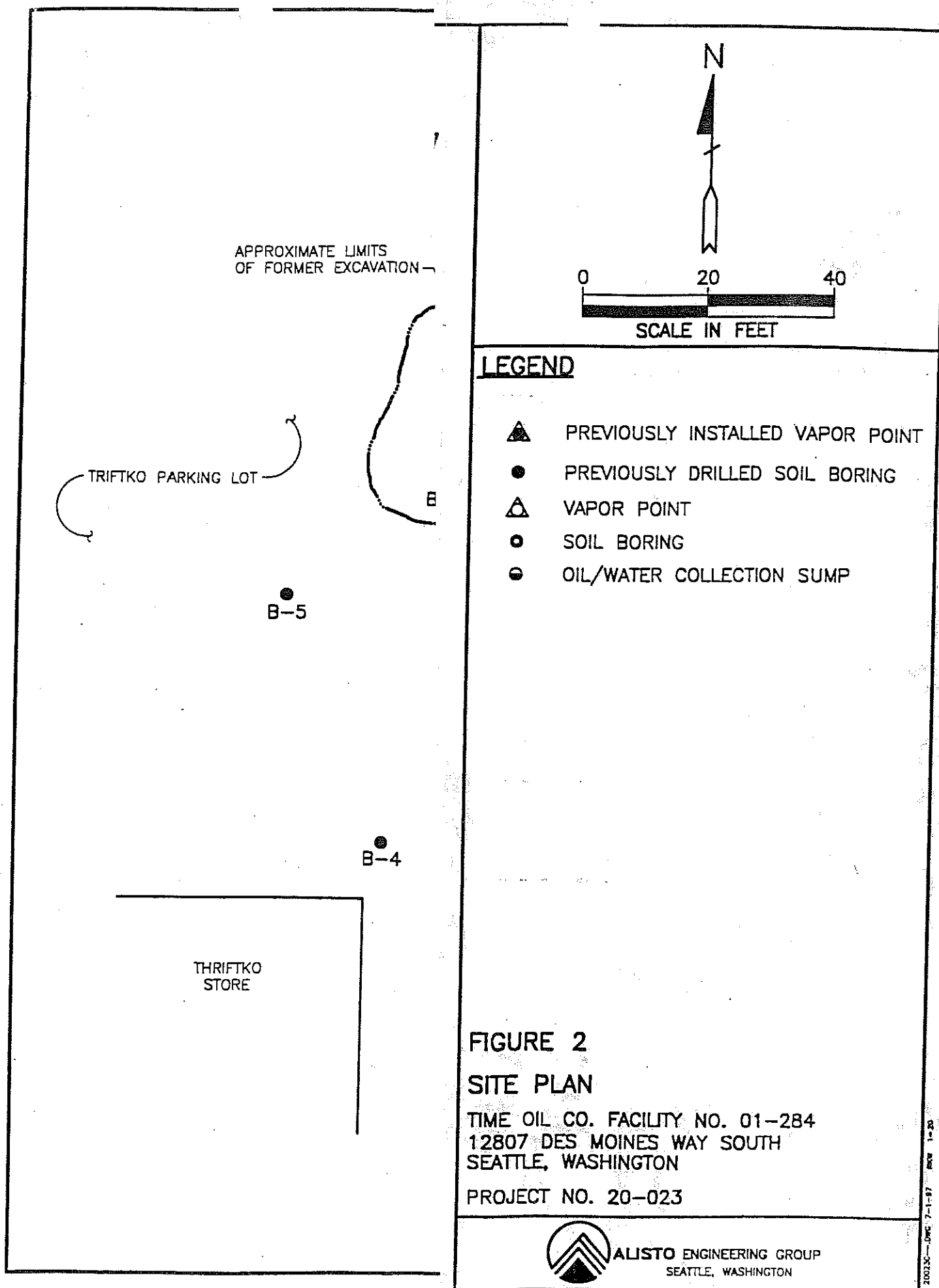
Analysis performed by Tacoma Pierce County Health Department (TCHD) is based on EPA Method 8210. Only those results are listed. Only those results are listed.

Analysis performed by EPA Method 8210.

Analysis performed by EPA Method 8210.

Analysis performed by EPA Method 8210.

Analysis performed by EPA Method 8210.



APPENDIX H
CHAIN OF TITLE /
ENVIRONMENTAL LIENS

Not provided

APPENDIX I

CORRESPONDENCE


[HOME](#) [NEWS](#) [SERVICES](#) [DIRECTORY](#) [CONTACT](#)

King County Department of Assessments

Fair, Equitable, and Understandable Property Valuations

You're in: Assessments >> Online Services >> eReal Property

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[Site map](#)

Department of
Assessments
500 Fourth Avenue,
Suite ADM-AS-0708,
Seattle, WA 98104

Office Hours:
Mon., Tue., Wed., Fri.
8:30 AM to 4:30 PM

Thu. 9:30 AM to 4:30 PM

TEL: 206-296-7300
FAX: 206-296-5107
TTY: 206-296-7888

[Send us mail](#)

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PARCEL

Parcel Number	162304-9066
Name	PACIFIC CONVENIENCE & FUELS
Site Address	12807 DES MOINES MEMORIAL DR S 98168
Legal	POR OF NW 1/4 LY S OF S 128TH ST & NWLY OF DES MOINES WAY S & ELY & NELY OF LN RNG S 00-00-23 W 89.98 FT FR PT ON S MGN OF SD S 128TH ST 135.17 FT E OF NXN WITH SELY MGN OF 15TH AVE S BOTH AS NOW LOCATED TH S 70-25-34 E 100.55 FT TO NWLY MGN OF SD DES MOINES WAY S

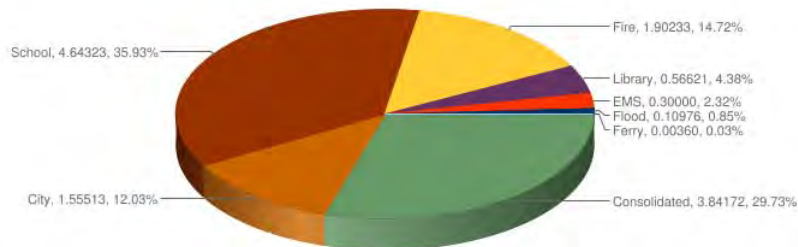
BUILDING 1

Year Built	1966
Building Net Square Footage	1512
Construction Class	MASONRY
Building Quality	AVERAGE
Lot Size	13066
Present Use	Conv Store with Gas
Views	N
Waterfront	



TOTAL LEVY RATE DISTRIBUTION

Tax Year: 2011 Levy Code: 0933 Total Levy Rate: \$12.92198 Total Senior Rate: \$7.73814



40.12% Voter Approved

TAX ROLL HISTORY

Valued Year	Tax Year	Appraised Land Value	Appraised Imps Value	Appraised Total	Taxable Land Value	Taxable Imps Value	Taxable Total
2010	2011	\$195,900	\$190,700	\$386,600	\$195,900	\$190,700	\$386,600
2009	2010	\$195,900	\$198,200	\$394,100	\$195,900	\$198,200	\$394,100
2008	2009	\$195,900	\$211,000	\$406,900	\$195,900	\$211,000	\$406,900
2007	2008	\$195,800	\$187,100	\$382,900	\$195,800	\$187,100	\$382,900
2006	2007	\$195,900	\$184,500	\$380,400	\$195,900	\$184,500	\$380,400
2005	2006	\$130,600	\$185,800	\$316,400	\$130,600	\$185,800	\$316,400
2004	2005	\$130,600	\$184,600	\$315,200	\$130,600	\$184,600	\$315,200
2003	2004	\$130,600	\$186,400	\$317,000	\$130,600	\$186,400	\$317,000
2002	2003	\$130,600	\$186,500	\$317,100	\$130,600	\$186,500	\$317,100
2001	2002	\$130,600	\$165,400	\$296,000	\$130,600	\$165,400	\$296,000
2000	2001	\$104,500	\$165,600	\$270,100	\$104,500	\$165,600	\$270,100
1999	2000	\$104,500	\$116,200	\$220,700	\$104,500	\$116,200	\$220,700
1998	1999	\$104,500	\$77,000	\$181,500	\$104,500	\$77,000	\$181,500
1997	1998	\$0	\$0	\$0	\$104,500	\$77,000	\$181,500
1996	1997	\$0	\$0	\$0	\$65,300	\$116,200	\$181,500
1994	1995	\$0	\$0	\$0	\$65,300	\$116,200	\$181,500
1992	1993	\$0	\$0	\$0	\$65,300	\$111,000	\$176,300
1990	1991	\$0	\$0	\$0	\$45,700	\$98,100	\$143,800

Reference Links:

- [King County Taxing Districts Codes and Levies \(.PDF\)](#)
- [King County Tax Links](#)
- [Property Tax Advisor](#)
- [Washington State Department of Revenue](#) (External link)
- [Washington State Board of Tax Appeals](#) (External link)
- [Board of Appeals/Equalization](#)
- [Districts Report](#)
- [iMap](#)
- [Recorder's Office](#)
- [Scanned images of surveys and other map documents](#)

1988	1989	\$0	\$0	\$0	\$54,000	\$89,800	\$143,800
1986	1987	\$0	\$0	\$0	\$48,600	\$65,500	\$114,100
1984	1985	\$0	\$0	\$0	\$48,600	\$65,500	\$114,100
1982	1983	\$0	\$0	\$0	\$48,600	\$65,400	\$114,000

Updated: March 9, 2011

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Property Solutions INC.

Environmental & Engineering Consulting

323 New Albany Road • Moorestown, New Jersey 08057 • 856-813-3000 • Fax 856-813-1068

April 29, 2011

Department of Planning and Development
700 Fifth Avenue, Suite 2000
P.O. Box 34019
Seattle, WA 98124-4019

**Re: 12807 Des Moines Way
Seattle, WA 98168
PIN: 162304-9066
Property Solutions Project #: 20112160**

Dear Freedom of Information Officer:

Property Solutions Inc. is conducting a Phase I Environmental Assessment & a Property Condition Assessment of the aforementioned property. As part of a property assessment, we wish to determine whether government agencies possess records on the subject property that may include potential environmental concerns. We request information on the following:

- Outstanding building code violations
- Permits for Underground or Aboveground Storage Tanks (UST/AST), installation or removal for the current building or any other prior building on this property
- Demolition/renovation permits for the current building of any other prior building on this property
- Dates of when building permits and Certificate of Occupancy were issued

If you have any questions, please call me at 856-813-3000 ext 302, or email me at ecoordinator@propertytsolutionsinc.com. If you have no information on the property, please fill in the box below and fax back to me at 856-813-1073. Thank you for your assistance.

Sincerely,
Property Solutions Inc.

Lyla Gray-Etherson, Environmental Coordinator
ecoordinator@propertytsolutionsinc.com

No Files for subject property or address

Name: _____

Title: _____

Phone: _____

X _____

Signature

Date

SERVING YOUR NEEDS NATIONWIDE FROM OUR OFFICES IN:

PHILA • NY • CHICAGO • LA • DALLAS • PORTLAND • ATLANTA • BALTIMORE



Property Solutions INC.

Environmental & Engineering Consulting

323 New Albany Road • Moorestown, New Jersey 08057 • 856-813-3000 • Fax 856-813-1068

April 29, 2011

Department of Planning and Development
700 Fifth Avenue, Suite 2000
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Seattle, WA 98124-4019

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Property Solutions Project #: 20112160**

Dear Freedom of Information Officer:

Property Solutions Inc. is conducting a Phase I Environmental Assessment & a Property Condition Assessment of the aforementioned property. As part of a property assessment, we wish to determine whether government agencies possess records on the subject property that may include potential concerns. We request information on the following:

- The current zoning designation of the subject property and when it received this designation
- The zoning designation of the subject property prior to receiving the current designation

If you have any questions, please call me at 856-813-3000 ext 302, or email me at ecoordinator@propertyolutionsinc.com. If you have no information on the property, please fill in the box below and fax back to me at 856-813-1073. Thank you for your assistance.

Sincerely,
Property Solutions Inc.

Lyla Gray-Etherson, Environmental Coordinator
ecoordinator@propertyolutionsinc.com

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Title: _____

Phone: _____

X _____

Signature

Date

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Property Solutions INC.

Environmental & Engineering Consulting

323 New Albany Road • Moorestown, New Jersey 08057 • 856-813-3000 • Fax 856-813-1068

April 29, 2011

Seattle Fire Department
301 2nd Avenue South
Seattle, WA 98104

**RE: 12807 Des Moines Way
Seattle, WA 98168
PIN: 162304-9066
Property Solutions Project #: 20112160**

Dear Freedom of Information Officer:

Property Solutions Inc. is conducting a Phase I Environmental Assessment & a Property Condition Assessment of the aforementioned property. As part of a property assessment, we wish to determine whether government agencies possess records on the subject property that may include potential concerns. We request information on the following:

- Outstanding fire code violations
- Fires or spills
- Outstanding building code violations
- Permits for Underground or Aboveground Storage Tanks (UST/AST), installation or removal
- Demolition/renovation permits
- The date of the last fire inspection
- The date when the Certificate of Occupancy was issued

If you have any questions, please call me at 856-813-3000 ext 302, or email me at ecoordinator@propertyolutionsinc.com. If you have no information on the property, please fill in the box below and fax back to me at 856-813-1073. Thank you for your assistance.

Sincerely,
Property Solutions Inc.

Lyla Gray-Etherson, Environmental Coordinator
ecoordinator@propertyolutionsinc.com

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Name: _____

Title: _____

Phone: _____

X _____
Signature Date

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Property Solutions INC.

Environmental & Engineering Consulting

323 New Albany Road • Moorestown, New Jersey 08057 • 856-813-3000 • Fax 856-813-1068

April 29, 2011

Public Health Seattle & King County
999 3rd Avenue, Ste. 1200
Seattle, WA 98104

RE: 12807 Des Moines Way
Seattle, WA 98168
PIN: 162304-9066
Property Solutions Project #: 20112160

Dear Freedom of Information Officer:

Property Solutions Inc. is conducting a Phase I Environmental Assessment of the aforementioned property. As part of a property assessment, we wish to determine whether government agencies possess records on the subject property that may include potential environmental concerns. We request information on the following:

- UST/AST removal or installation
- LBP or ACM abatement
- Hazardous releases or responses
- Environmental health code violations
- Water supply concerns
- Records of any current or prior septic tank systems or wells on the subject property

If you have any questions, please call me at 856-813-3000 ext 302, or email me at ecoordinator@propertyolutionsinc.com. If you have no information on the property, please fill in the box below and fax back to me at 856-813-1073. Thank you for your assistance.

Sincerely,
Property Solutions Inc.

Lyla Gray-Etherson, Environmental Coordinator
ecoordinator@propertyolutionsinc.com

No Files for subject property or address

Name: _____

Title: _____

Phone: _____

X _____

Signature

Date

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Property Solutions INC.

Environmental & Engineering Consulting

323 New Albany Road • Moorestown, New Jersey 08057 • 856-813-3000 • Fax 856-813-1068

April 29, 2011

Seattle Public Utilities
700 5th Avenue, Suite 4900
P.O. Box 34018
Seattle, WA 98124

**Re: 12807 Des Moines Way
Seattle, WA 98168
PIN: 162304-9066
Property Solutions Project #: 20112160**

To Whom It May Concern:

Property Solutions Inc. is conducting a Phase I Environmental Assessment of the aforementioned property. As part of the property assessment, we wish to determine the water and sewer provider of the subject property.

If the City of Seattle is indeed the water and sewer provider, please provide me with the following information:

- Date of water connection
- Water violations (if applicable)
- Date of sewer hookup
- Special sewer permits (if applicable)
- Sewer discharge violations (if applicable)

If you have any questions, please call me at 856-813-3000 ext 302, or email me at ecoordinator@propertyolutionsinc.com. If you have no information on the property, please fill in the box below and fax back to me at 856-813-1073. Thank you for your assistance.

Sincerely,
Property Solutions Inc.

Lyla Gray-Etherson, Environmental Coordinator
ecoordinator@propertyolutionsinc.com

No Files for subject property or address

Name: _____

Title: _____

Phone: _____

X _____
Signature Date

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Property Solutions INC.

Environmental & Engineering Consulting

323 New Albany Road • Moorestown, New Jersey 08057 • 856-813-3000 • Fax 856-813-1068

April 29, 2011

Seattle City Light
700 5th Avenue, Suite 3300
P.O. Box 34023
Seattle, WA 98124

**Re: 12807 Des Moines Way
Seattle, WA 98168
PIN: 162304-9066
Property Solutions Project #: 20112160**

To Whom It May Concern:

Property Solutions Inc. is conducting a Phase I Environmental Assessment of the aforementioned property. As part of a property assessment, we wish to determine whether SCL provides power to the subject property. Property Solutions Inc also requests information regarding the PCB content and records of leaks in regard to any transformers located at the property.

If you have any questions, please call me at 856-813-3000 ext 302, or email me at ecoordinator@propertytsolutionsinc.com. If you have no information on the property, please fill in the box below and fax back to me at 856-813-1073. Thank you for your assistance.

Sincerely,
Property Solutions Inc.

Lyla Gray-Etherson, Environmental Coordinator
ecoordinator@propertytsolutionsinc.com

No Files for subject property or address

Name: _____

Title: _____

Phone: _____

X _____

Signature

Date

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Date of Request:	Requester:	Phone Number: ()
	Company:	Fax Number: ()
		E-Mail Address:
Address:		City/State/Zip:

[illegible]

I understand that if a list of **individuals** is provided to me by the Department of Ecology, it will neither be used to promote the election of an official or to promote or oppose a ballot proposition as prohibited by RCW 42.17.130 nor for commercial purposes or to give or provide access to material to others for commercial purposes as prohibited by RCW 42.17.260(9). I understand that I will be charged 15 cents per page for all standard and legal sized copies.

Requester's Signature_____

*Ecology is an equal opportunity agency.
To receive in an alternate format contact Records Office at (360) 407-6040 (voice),
711 and 1-800-833-6388 (TTY)*

80112/60

VEEDER-ROOT
TL5-250
TANK LEVEL SENSOR

INVENTORY REPORT
MAY 18, 2011
9:16 AM

TANK 1
XTRA

1491 GALLONS FUEL
8588 GALS ULLAGE
19.62 INCHES FUEL
0.0 INCHES WATER
56.0 DEGREES F

TANK 2

REGULAR UNLEADED

2400 GALLONS FUEL
7679 GALS ULLAGE
27.40 INCHES FUEL
0.0 INCHES WATER
53.5 DEGREES F

TANK 3

PREMIUM

2306 GALLONS FUEL
7773 GALS ULLAGE
26.71 INCHES FUEL
0.0 INCHES WATER
55.1 DEGREES F

VEEDER-ROOT
TL5-250
TANK LEVEL SENSOR

MAY 18, 2011
9:16 AM

SENSOR STATUS

SENSOR 1A NORMAL
SENSOR 1B NORMAL
SENSOR 2A NORMAL
SENSOR 2B NORMAL
SENSOR 3A NORMAL
SENSOR 3B NORMAL

EXTERNAL INP. STATUS
OPEN

VEEDER-ROOT
TL5-250
TANK LEVEL SENSOR

MAY 18, 2011
9:17 AM

SENSOR STATUS

SENSOR 1A NORMAL
SENSOR 1B NORMAL
SENSOR 2A NORMAL
SENSOR 2B NORMAL
SENSOR 3A NORMAL
SENSOR 3B NORMAL

EXTERNAL INP. STATUS
OPEN

Message from the Mayor

We may take it for granted, but Seattle's drinking water is one of the many things that makes our region special and adds to our quality of life. We're fortunate to enjoy safe and excellent tasting water from our snow-covered mountains and the pristine Cedar and Tolt River watersheds. We're also protecting water quality by covering our reservoirs, which creates acres of new open space in our neighborhoods.

The Environmental Protection Agency requires an annual water quality report from all community water systems nationwide. Here in Seattle, we're pleased to share the results. So let's celebrate our high-quality water—and drink up, Seattle.

Greg Nickels

Mayor of Seattle



Your opinion counts!

Let us know how we're doing.
Go to: www.seattlewater.org
to take a quick, confidential
customer survey.

Seattle
Public
Utilities

Drinking Water Quality Report 2008

Saving water: How we're doing it

We're all working together to reduce water consumption—in fact, Seattle Public Utilities (SPU) and its 17 water district partners, the Saving Water Partnership, won the Environmental Protection Agency's WaterSense Partner of the Year for our creative water saving programs. Our business customers have really pulled their weight by contributing 40 percent of our conservation savings in 2008. SPU has done its job reducing distribution system leakage through our reservoir-covering program that reduces evaporation. And you, our customer, have continued to replace wasteful showerheads and washing machines, taken shorter showers, fixed leaks, washed full loads, and watered lawns wisely. Keep it up. Please visit www.savingwater.org for more information about water conservation.



Seattle
Public
Utilities



Healthier fish

Water conservation helps salmon, as well as your pocketbook. The foundation for a healthy salmon run is a healthy habitat—meaning water flow and water quality. Your actions to conserve water, particularly in the summer and early fall when flows are lowest, helps provide the habitat necessary for a healthy salmon population.

Seattle
Public
Utilities

Seattle Public Utilities
700 Fifth Avenue, Suite 4900
P.O. Box 34018
Seattle, WA 98124-4018

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For translation services please call 206-684-3000.

如需要口譯服務，請撥電話號碼206-684-3000。

통역 서비스를 원하시면 206-684-3000으로 전화하세요.

Wixil turjubaan afka ah ku saabsan, Fadlan la soo xariir taleefoonka: 206-684-3000.

Para servicios de interpretación por favor llame al 206-684-3000.

Para sa serbisyo ng tagapagpaliwanag, tumawag sa 206-684-3000.

Về dịch vụ phiên dịch xin gọi 206-684-3000.

Printed on 100% post-consumer paper using soy-based inks

Seattle Climate Action
NOW
SeattleCAN.org

Saving water: How's our progress?

You're doing a great job of reducing water use: we use less water per person today than we used in the late 1950s. That's great for about a million reasons. Here are four of them:

It helps us be prepared for climate change, drought years and low snow levels.

It helps us manage water supplies even as our population grows—conservation is the cheapest source of new water.

It helps the salmon by enhancing stream flows.

It helps to hold down your costs.



Why we produce this report

The publication of this annual water quality report is required by state and federal regulations. Printed with soy-based inks on 100-percent post-consumer paper, this report is designed to give you essential information on your public drinking water.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

In order to ensure that tap water is safe to drink, the Environmental Protection Agency and/or the Washington State Department of Health prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration and/or the Washington State Department of Agriculture regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Reservoir covering

As resources get stretched, every project we use taxpayer dollars for has to offer multiple benefits. Our reservoir-covering program—which will create 76-acres of new public open space—is one example of a multiple-benefit project. Reservoir covering improves water quality and saves costs by reducing chlorine requirements and increases security. And when they are covered with grass, reservoirs become open space we all can enjoy. Talk about a win-win!

Of our thirteen reservoirs, nine are covered today, two are in construction and two will be taken out of service, because they are no longer needed. You can see how well this works by enjoying Cal Anderson Park, on Capitol Hill.

Seattle
Public
Utilities

History of Seattle's water system

Foresight and events conspire for great water quality

Seattle's water system sprang from two major events: the Great Fire of 1889 and the Klondike Gold Rush of 1897. The first showed the dire necessity for a municipally-owned, gravity-fed water supply. The second helped provide the funds to pay for it. Though it was initially expensive to purchase the land and build the pipeline, the Cedar River system is now one of the most pristine watersheds in the nation.



Important facts to know about your water quality...



Raw water

This part of the chart is for our water at the source, before it’s treated. Because our water comes from large, protected water-sheds, our raw water starts cleaner than most municipalities. In Seattle’s surface water supplies, the potential sources of contamination include: microbial contaminants, such as viruses, bacteria, and protozoa from wildlife; inorganic contaminants, such as salts and metals, which are naturally occurring; and organic contaminants, which result from chlorine combining with the naturally occurring organic matter.

Finished water

After treatment, our high-quality finished water is ready for consumption. There are very few contaminants in our finished water, and those we do detect are at levels well below the allowable amount.

Trihalomethanes

You have to treat surface water with chlorine to prevent microbial growth. But a by-product of the chlorination process is trihalomethanes and haloacetic acids, which are linked to certain cancers. In Seattle’s water, because it starts off cleaner and we cover our reservoirs, we can use less chlorine and as a result, we have rates of these compounds well within safe ranges.



Lead

There isn’t any lead in our water mains, however the pipes in many older homes do contain lead. While we raise the pH of our water to reduce pipe corrosion, you may still have lead in your water. If you are concerned about lead in your pipes, you can send your water to a certified lab for testing.

		EPA's Allowable Limits		Levels in Cedar Water		Levels in Tolt Water		
Detected Compounds	Units	MCLG	MCL	Average	Range	Average	Range	Typical Sources
Raw Water								
Total Organic Carbon	ppm	NA	TT	0.8	0.4 to 1.3	1.3	1.1 to 1.5	Naturally present in the environment
Cryptosporidium	#/100L	NA	NA	ND	ND to 2	ND	ND	Naturally present in the environment
Finished Water								
Turbidity	NTU	NA	TT	0.4	0.2 to 2.6	0.06	0.04 to 0.23	Soil runoff
Fluoride	ppm	4	4	0.97	0.8 to 1.0	1.0	0.9 to 1.1	Water additive, which promotes strong teeth
Bromate	ppb	0	10	0.05	ND to 0.7	0.13	ND to 0.77	By-product of drinking water disinfectoin
Barium	ppb	2000	2000	1.5	one sample	1.5	one sample	Erosion of natural deposits
Nitrate	ppm	10	10	ND	one sample	0.1	one sample	Erosion of natural deposits
Total Trihalomethanes	ppb	NA	80	28	8 to 58	45	7 to 60	By-products of drinking water chlorination
Haloacetic Acids(5)	ppb	NA	60	18	9 to 47	34	7 to 48	
Total Coliform	% positive samples	0	5%	Highest Month = 2.1% Annual Average = 0.29%				Naturally present in the environment
Chlorine	ppm	MRDLG = 4	MRDLG = 4	Average = 0.9 Range = 0 to 1.9				Water additive used to control microbes
Note: Cryptosporidium was detected in one of three samples from the Cedar and zero of four samples from the Tolt.								
Definitions: MCLG: Maximum Contaminant Level Goal - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. MCL: Maximum Contaminant Level - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. MRDL: Maximum Residual Disinfectant Level - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants. MRDLG: Maximum Residual Disinfectant Level Goal - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.					TT: Treatment Technique - A required process intended to reduce the level of a contaminant in drinking water. NTU: NTU: Nephelometric Turbidity Unit - Turbidity is a measure of how clear the water looks. The turbidity MCL that applied to the Cedar supply in 2008 was 5 NTU, and for the Tolt it was 0.3 NTU for at least 95% of the samples in a month. 100% of the samples from the Tolt in 2008 were below 0.3 NTU. NA: Not Applicable ND: Not Detected ppm: 1 part per million = 1 mg/L = 1 milligram per liter ppb: 1 part per billion = 1 ug/L = 1 microgram per liter 1 ppm =1000 ppb			

Lead and Copper Monitoring Results					
Parameter and Units	MCLG	Action Level+	2007 Results*	Homes Exceeding Action Level	Source
Lead, ppb	0	15	6	1 of 50	Corrosion of household plumbing systems
Copper, ppm	1.3	1.3	0.14	0 of 50	
* 90th Percentile: i.e. 90 percent of the samples were less than the values shown. + The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.					

Want to find out more?
Visit www.seattlewater.org

What is missing from this chart?

No news is good news. More than 179 things we test for are absent from Seattle’s water, and so are not on the chart. We looked for pharmaceuticals, fecal coliform, phthalates (bottle plastics linked to certain cancers—one more reason to drink tap water!), bisphenol A, vinyl chloride, arsenic and cyanide, and found none.

Cryptosporidium

Although very low levels of Cryptosporidium have been detected in our raw water, our treatment processes are very effective at destroying any that are found. Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. Environmental Protection Agency/ Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Chlorine

Chlorine prevents water borne diseases like cholera, giardiasis, and salmonellosis. But too much makes the water smell and taste bad, and it can combine with organic carbons to produce additional contaminants. Our chlorine is at one quarter the allowable limit.

Testing methodology

We test the water at different stages and locations. First, we test the raw water at the source. Then, we test the water after it’s been treated by ozonation, UV, filtration and chlorine to ensure we’re well within EPA standards for contaminants. Then we sample the water at dozens of distribution sites and at the reservoirs to make sure the quality is maintained. And finally, to check for lead and copper, we test at certain high-risk households. While SPU is not responsible for water quality issues connected to household pipes, we make sure the water getting to houses meets EPA standards.

About our water

Our watersheds are a thing of beauty: two pristine, Cascade Mountain, snow-fed watersheds, with none of the development runoff, garbage, sewage, or other sources of contaminants that might impact our water’s quality. The majority of our water comes from the Cedar River watershed; the rest from the Tolt River watershed. We also have three wells, used for less than one percent of our water usage.

Besides SPU’s own testing, water sources are also assessed by the state Department of Health (DOH). According to DOH, all surface waters in Washington are given a susceptibility rating of “high,” regardless of whether contaminants have been detected or whether there are any sources of contaminants in the watershed. The Seattle wells have been given a susceptibility rating of “low,” because of the type of acquifer, depth of well, and lack of contaminant detection. Information on the source water assessments is available from the DOH website at <https://fortress.wa.gov/doh/eh/dw/swap/maps/>.

These results are for those aspects of water quality regulated by the government. For other water quality information, please go to www.seattlewater.org or call 206-615-0827.

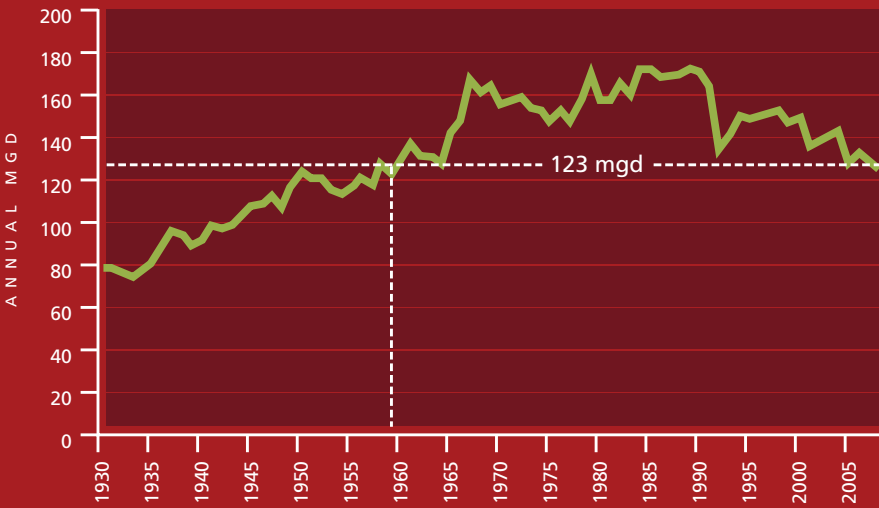
Water quality monitoring data can be difficult to interpret. To make all the information fit in one table, we used many acronyms that are defined below the table. In Seattle, if you live south of Green Lake, your water probably comes from the Cedar River. Areas north of Green Lake usually receive Tolt water. Each source can provide water to other areas in Seattle if needed.

Saving water = saving money

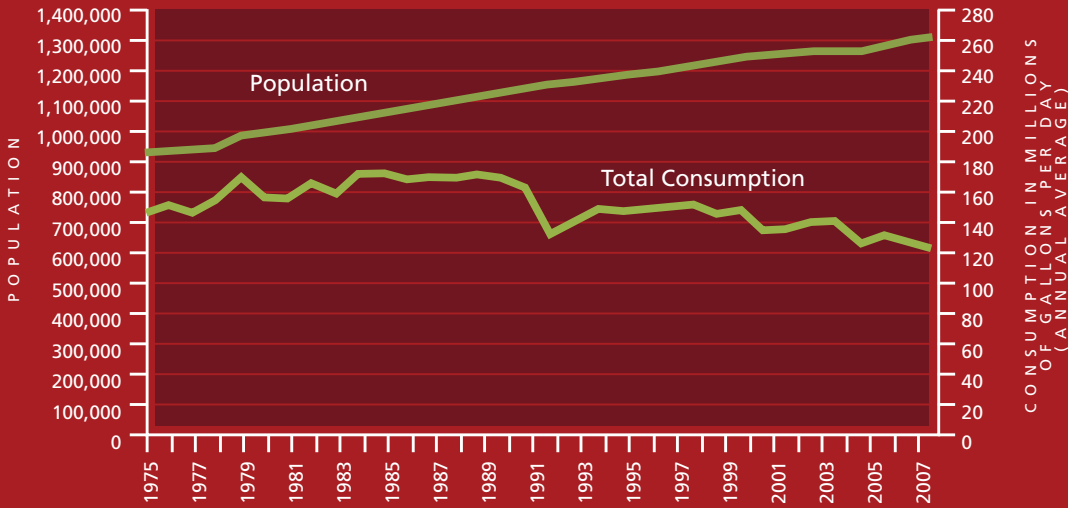
As the charts show, we’re on track with our water conservation goals. This is due to both your improving water usage habits, as well as a softer economy. A special thank you is due to apartment building owners this year, as many of them took advantage of our multifamily showerhead and high-efficiency toilet programs.

SPU supplied 45.1 billion gallons of drinking water in 2008, of which 1.5 billion gallons were lost to leakage or were otherwise unaccounted for. This represents a system wide leakage rate of 3%*, low compared with most other water utilities. And we are working to reduce it even more.

Total Seattle Regional Water System Annual Demand in Millions of Gallons per Day: 1930-2008



Growth in Population and Water Consumption Seattle Regional Water System: 1975 - 2008



*Note that the system wide leakage rate was incorrectly reported as 7% in the copy of this report mailed out to customers.

In 2008, the water conservation program achieved 0.75 million gallons per day (mgd) of annual savings. Since the program began in 2000, we have achieved an estimated 8.4 mgd toward the cumulative 2010 goal of 11 mgd.

Envirofacts

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API Link for Report Data:

http://iaspub.epa.gov/enviro/efservice/multisystem/minLatitude/47.42

Copy and paste the link above to view the data from this report

- Info

AIR

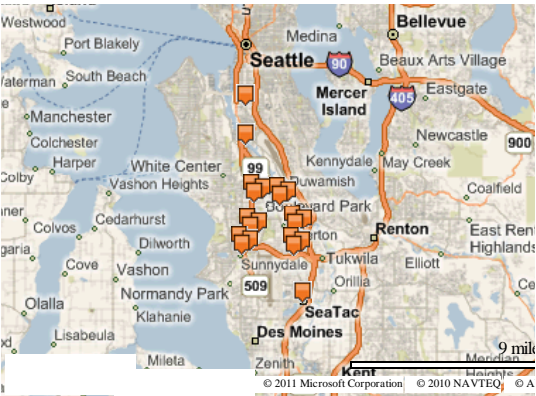
TOXICS

WASTE

RADIATION

WATER

Click on a tab to see a summary view of data for a media type.



LIST OF EPA-REGULATED FACILITIES IN ENVIROFACTS

To search Envirofacts via an interactive map, please view your results in [EnviroMapper for Envirofacts](#). Use the buttons located beneath the facility name and address information to obtain detailed reports on a specific facility.

FACILITY INFORMATION	AFS	ACRES	BR	CERCLIS	PCS	RADInfo	RCRAInfo	TR	TSCA
144TH MACADAM S 144TH ST & MACADAM RD S SEATTLE, WA 98168 <div>Summary ReportFacility ReportCompliance Report</div>							View Report		
2ND AVE DRUG LAB SEATTLE 12836 2ND AVE S SEATTLE, WA 98168 <div>Summary ReportFacility ReportCompliance Report</div>							View Report		
7 ELEVEN FOOD STORE 13456 1ST AVE S SEATTLE, WA 98168 <div>Summary ReportFacility ReportCompliance Report</div>							View Report		
ABOUT TIME AUTO REBUILD 1045 S 136TH ST SEATTLE, WA 981682759 <div>Summary ReportFacility ReportCompliance Report</div>							View Report		
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AIRPORT WAY DRUM AIRPORT WAY S & BOEING ACCESS SEATTLE, WA 98168							View Report		
AIRTOUCH MALL RATS 16400 SOUTHCENTER PKWY SEATTLE, WA 98168							View Report		
AIRTRON INC 4479 S 134TH PL TUKWILA, WA 981686204							View Report		
ALASKA AIR FORWARDING INC 4443 S 134TH PL TUKWILA, WA 981686204							View Report		
AMERICAN MEDICAL RESPONSE 42075 GATEWAY DR STE 100 SEATTLE, WA 98148							View Report		

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Total Number of Facilities Displayed: 148

Last updated on Friday, April 29, 2011

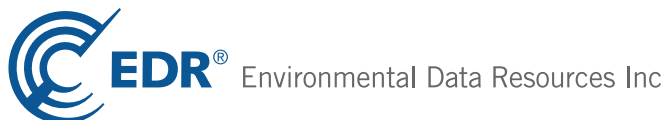
APPENDIX J

ENVIRONMENTAL DATABASE

12807 Des Moines Way, SW
12807 Des Moines Way, SW
Seattle, WA 98168

Inquiry Number: 3055793.2s
April 29, 2011

The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

12807 DES MOINES WAY, SW
SEATTLE, WA 98168

COORDINATES

Latitude (North): 47.488300 - 47° 29' 17.9"
Longitude (West): 122.312100 - 122° 18' 43.6"
Universal Tranverse Mercator: Zone 10
UTM X (Meters): 551821.1
UTM Y (Meters): 5259440.0
Elevation: 375 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 47122-D3 DES MOINES, WA
Most Recent Revision: 1995

North Map: 47122-E3 SEATTLE SOUTH, WA
Most Recent Revision: 1983

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2005, 2006
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
PETROSUN 1284 12807 DES MOINES MEMORIAL DR SEATTLE, WA 98168	LUST FINANCIAL ASSURANCE	N/A
TIME OIL #01 284 12807 DES MOINES WAY S. SEATTLE, WA 98168	ICR	N/A
HUDSON OIL 12807 DES MOINES WAY SEATTLE, WA	EDR Historical Auto Stations	N/A
FOOD MART # 284 12807 DES MOINES WAY SOUTH SEATTLE, WA 98148	FINDS	N/A

EXECUTIVE SUMMARY

JACKPOT STATION 284
12807 DES MOINES MEMORIAL DR S
SEATTLE, WA 98168

FINDS
ALLSITES
UST

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

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

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

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

EXECUTIVE SUMMARY

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

AST..... Aboveground Storage Tank Locations

INDIAN UST..... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

INST CONTROL..... Institutional Control Site List

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

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

SWTIRE..... Solid Waste Tire Facilities

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

CDL..... Clandestine Drug Lab Contaminated Site List

HIST CDL..... List of Sites Contaminated by Clandestine Drug Labs

US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

LUCIS..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

EXECUTIVE SUMMARY

SPILLS..... Reported Spills

Other Ascertainable Records

DOT OPS.....	Incident and Accident Data
DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
RAATS.....	RCRA Administrative Action Tracking System
UIC.....	Underground Injection Wells Listing
MANIFEST.....	Hazardous Waste Manifest Data
DRYCLEANERS.....	Drycleaner List
NPDES.....	Water Quality Permit System Data
AIRS.....	Washington Emissions Data System
Inactive Drycleaners.....	Inactive Drycleaners
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
COAL ASH.....	Coal Ash Disposal Site Listing
COAL ASH DOE.....	Sleam-Electric Plan Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants.....	EDR Proprietary Manufactured Gas Plants
EDR Historical Cleaners.....	EDR Proprietary Historic Dry Cleaners

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

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/28/2010 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SUNSET PARK - TUB LAKE SITE	S 136TH & 18TH AV S	S 1/4 - 1/2 (0.460 mi.)	C14	31

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 03/01/2011 has revealed that there is 1 HSL site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SUNSET PARK Facility Type: Hazardous Sites List		S 1/2 - 1 (0.604 mi.)	18	38

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 01/25/2011 has revealed that there are 4 CSCSL sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SHELL OIL CO DES MOINES 129596	12666 DES MOINES WAY	NNE 1/8 - 1/4 (0.218 mi.)	B12	24
KING COUNTY PARKS SUNSET & TUB	13659 18TH AVE S	S 1/4 - 1/2 (0.497 mi.)	C16	33
SUNSET PARK		S 1/2 - 1 (0.604 mi.)	18	38
DUWAMISH FILL SITE DOT	S 124TH ST & SR 99	ENE 1/2 - 1 (0.963 mi.)	19	42

EXECUTIVE SUMMARY

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, and dated 02/23/2011 has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GOLDCO	12459 DES MOINES WAY SO	NNE 1/8 - 1/4 (0.188 mi.)	B10	22
SHELL OIL CO DES MOINES 129596	12666 DES MOINES WAY	NNE 1/8 - 1/4 (0.218 mi.)	B12	24
SUNSET PARK	13659 18TH AVE S	S 1/4 - 1/2 (0.497 mi.)	C15	32

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 02/23/2011 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PACIFIC UNDERWRITERS CORP	12611 DES MOINES MEMORI	NNE 0 - 1/8 (0.087 mi.)	6	14
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BLAKLEY BROTHERS INC	1407 S 129TH ST	WSW 0 - 1/8 (0.094 mi.)	7	15
SHELL OIL CO DES MOINES 129596	12666 DES MOINES WAY	NNE 1/8 - 1/4 (0.218 mi.)	B12	24

State and tribal voluntary cleanup sites

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 01/25/2011 has revealed that there are 2 VCP sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MIKES AUSSIE MACHINE SHOP	12441 DES MOINES MEMORI	NNE 1/8 - 1/4 (0.181 mi.)	B9	19
SHELL OIL CO DES MOINES 129596	12666 DES MOINES WAY	NNE 1/8 - 1/4 (0.218 mi.)	B12	24

EXECUTIVE SUMMARY

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.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SHELL OIL CO DES MOINES 129596	12666 DES MOINES WAY	N 0 - 1/8 (0.094 mi.)	8	17
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
KING COUNTY SUNSET PARK	13659 18TH AVE. S.	S 1/4 - 1/2 (0.497 mi.)	C17	37

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 02/08/2011 has revealed that there are 7 ALLSITES sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PACIFIC UNDERWRITERS CORP	12611 DES MOINES MEMORI	NNE 0 - 1/8 (0.087 mi.)	6	14
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BLAKLEY BROTHERS INC	1407 S 129TH ST	WSW 0 - 1/8 (0.094 mi.)	7	15
MIKES AUSSIE MACHINE SHOP	12441 DES MOINES MEMORI	NNE 1/8 - 1/4 (0.181 mi.)	B9	19
HSD HIGHLINE BOULEVARD PARK WA	12833 20TH AVE S	E 1/8 - 1/4 (0.191 mi.)	11	22
SHELL OIL CO DES MOINES 129596	12666 DES MOINES WAY	NNE 1/8 - 1/4 (0.218 mi.)	B12	24
JONES PROPERTY	12441 20TH AV S	NE 1/8 - 1/4 (0.242 mi.)	13	31
KING COUNTY PARKS SUNSET & TUB	13659 18TH AVE S	S 1/4 - 1/2 (0.497 mi.)	C16	33

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 01/25/2011 has revealed that there are 2 CSCSL NFA sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MIKES AUSSIE MACHINE SHOP	12441 DES MOINES MEMORI	NNE 1/8 - 1/4 (0.181 mi.)	B9	19
JONES PROPERTY	12441 20TH AV S	NE 1/8 - 1/4 (0.242 mi.)	13	31

EXECUTIVE SUMMARY

Other Ascertainable Records

RCRA-NonGen: 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 list, as provided by EDR, and dated 02/17/2010 has revealed that there are 3 RCRA-NonGen sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>SHELL OIL CO DES MOINES 129596</i>	<i>12666 DES MOINES WAY</i>	<i>N 0 - 1/8 (0.094 mi.)</i>	<i>8</i>	<i>17</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>MIKES AUSSIE MACHINE SHOP</i>	<i>12441 DES MOINES MEMORI</i>	<i>NNE 1/8 - 1/4 (0.181 mi.)</i>	<i>B9</i>	<i>19</i>
<i>HSD HIGHLINE BOULEVARD PARK WA</i>	<i>12833 20TH AVE S</i>	<i>E 1/8 - 1/4 (0.191 mi.)</i>	<i>11</i>	<i>22</i>

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 141 records.

Site Name	Database(s)
10632 SW 1 ST	US HIST CDL
12434 SW AMBAUM BLVD APT C215	US HIST CDL
SUNSET PARK SOCCER FIELD RENOVATIO	ALLSITES
SPU HIGHLINE WELL BOULEVARD PK	FINDS, ALLSITES
SW SAW & MOWER SRVC	ALLSITES
BERKLEY ENGINEERING CONST	RCRA-NonGen, FINDS, ALLSITES
KING COUNTY STREET SWEEPING SITE	ALLSITES, CSCSL NFA, VCP
AIRPORT WAY DRUM	ALLSITES
UNOCAL SS NO 6248	RCRA-NonGen, FINDS, ALLSITES,
	UST, MANIFEST, ICR
GLENDAL HEATING & AIR CONDITIONIN	FINDS, ALLSITES, UST
GOLD CO	FINDS, ALLSITES, UST
JOSEPH B MEDER	FINDS, ALLSITES, UST
CHEVRON STA 6009 3099	CSCSL
WASTE MOBILE COLLECTIONS	SWF/LF
INTERBAY	SWF/LF
SICKS STADIUM SITE	SWF/LF
SIXTH SOUTH AND SOUTH OF SPOKANE	SWF/LF
MONTLAKE DISPOSAL SITE	SWF/LF
SOUTH PARK	SWF/LF
GENESEE LANDFILL	SWF/LF
NORTH AURORA DISPOSAL SITE	SWF/LF
WEST SEATTLE - HARBOR AVENUE	SWF/LF
JUDKINS STREET DISPOSAL SITE	SWF/LF
RAINIER LANDFILL	SWF/LF
GREEN LAKE LANDFILL SITE	SWF/LF
WASHINGTON PARK LANDFILL SITE	SWF/LF
KING COUNTY RIGHT OF WAY	SPILLS
MILKY WAY LTI	SPILLS
1711 13TH AVE SW	SPILLS
LTI INCORP. TRUCKING / MILKY WAY /	SPILLS
UNOCAL 6248	LUST
SEATTLE FREIGHT SERVICE INC SR 599	RCRA-NonGen, FINDS
AIRPORT WAY DRUM	RCRA-NonGen, FINDS
RESIDENTIAL ROADWAY 16639 NORTHUP	ERNS
SW 104TH THIRD AVE SW	ERNS
SOUTH 115TH STREET AND E. MARGINAL	ERNS
SW 122ND AND SHOREWOOD DR SW	ERNS
3RD AND LEARY WAY NW	ERNS
47TH AVE SW AND ADMIRAL WAY SW	ERNS
62ND STREET SW AND ALKI AVENUE	ERNS
8TH AVE SOUTH & EAST MARGINAL WAY,	ERNS
2155 NORTH AKE WAY	ERNS
2155 NORTH AKE WAY	ERNS
801 ALASKA WAY	ERNS
1721 ALASKA WAY SOUTH	ERNS
801 ALASKA WAY	ERNS
801 ALASKA WAY PIER 46	ERNS
ALASKA MARINE LINES TERM. DUWAMISH	ERNS
801 ALASKA WAY	ERNS
ALASKAN WAY	ERNS
35 SW AND SW JUNEAU	ERNS
244 BLDG ON E. MARGINAL WAY 14TH A	ERNS
6000 BLOCK OF 50TH STREET, SW	ERNS
3500 BLOCK OF COMMODORE WAY	ERNS
4200 BLOCK OF AIRPORT WAY	ERNS
2700 COMMADOR WAY	ERNS
2100 WEST COMMENDOR WAY	ERNS
5414 DERIDGE WAY S.W.	ERNS

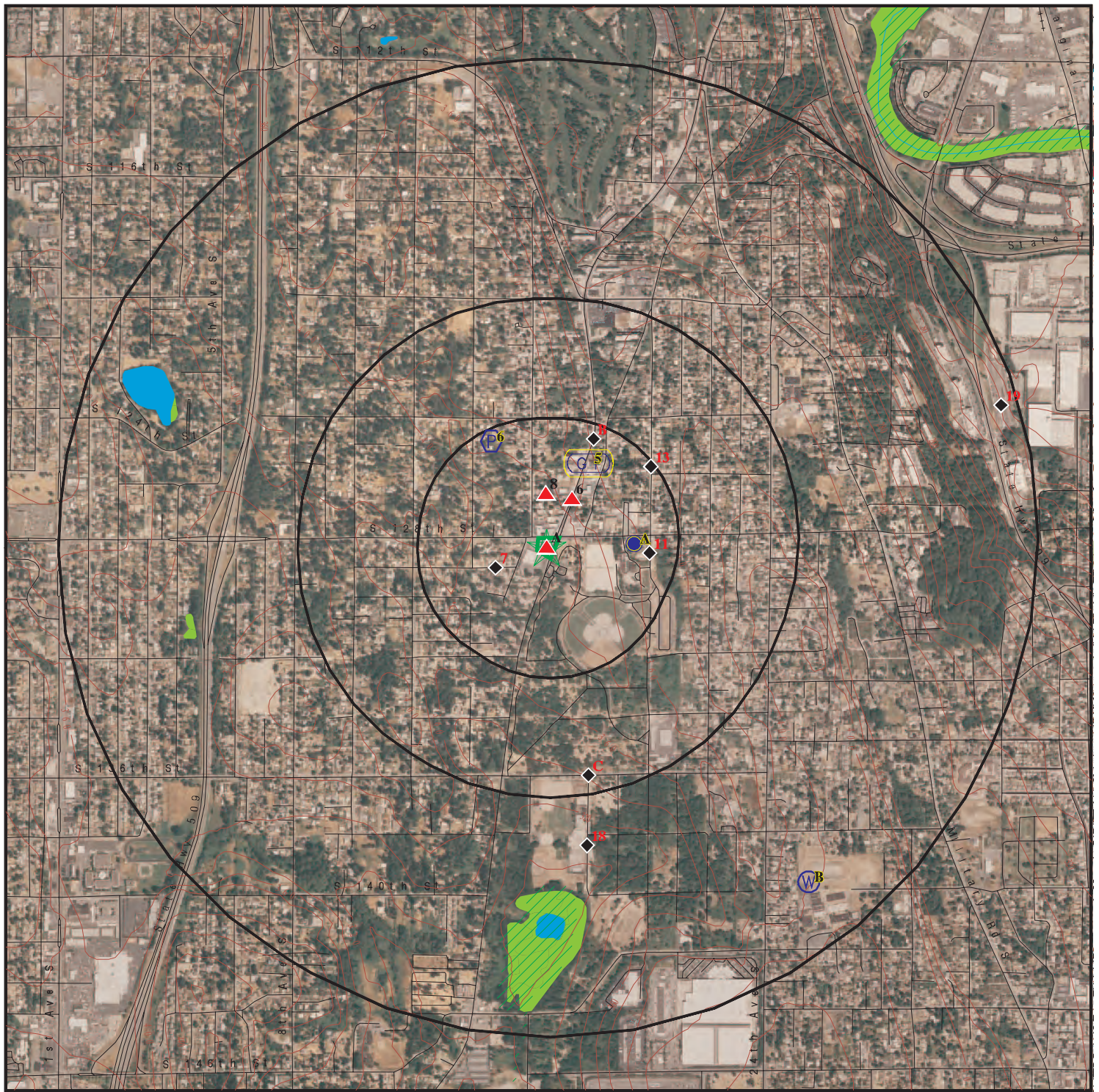
EXECUTIVE SUMMARY

60 DIAGONAL WAY	ERNS
DUWAMISH RIVER NEXT TO TERMINAL 11	ERNS
FED CENTER SOUTH 4735 E MARGINAL W	ERNS
FEDERAL WAY TRUCK STOP	ERNS
FEDERAL WAY TRUCK STOP.	ERNS
NORTH GATE WAY	ERNS
HANFORD ST AND E MARG. WAY SO.	ERNS
HARBOR ISLAND PIER 15 / 1711 13TH	ERNS
HARBOR ISLAND SHIPPING TERMINAL 24	ERNS
SOUTH HUDSON ST AND EAST MARGINAL	ERNS
INTERSECTION OF 16TH AVE., S. & W.	ERNS
1001 SW KILICKITAT WAY	ERNS
1001 KCLICKITAT WAY SW	ERNS
1001 KCLICKITAT WAY SW	ERNS
LAKE UNION SHIP CANAL 400 YDS SW O	ERNS
1101 N. LAKE WAY LAKE UNION WATERW	ERNS
1341 N LAKE WAY	ERNS
715 NORTH LAKE WAY LAKE UNION	ERNS
LAKE UNION 2555 NORTH LAKE WAY	ERNS
1652 SW LANDERS ST	ERNS
LARRY WAY	ERNS
EAST MARGINAL WAY	ERNS
WEST MARGINAL WAY INDUSTRIAL DISTR	ERNS
EAST MARGINAL WAY	ERNS
EAST MARGINAL WAY BOEING AIROSPACE	ERNS
EAST MARGINAL WAY	ERNS
8531 E MARGINAL WAY	ERNS
FEDERAL CENTER SOUTH 4735 E MARGIN	ERNS
2431 EAST MARGINAL WAY	ERNS
10013 MARTIN LUTHER KING WAY STOP	ERNS
MARTIN LUTHER KING WAY SOUTH	ERNS
MARTIN LUTHER KING WAY S AND SOUTH	ERNS
1102 SW MASSCHUSETTS ST	ERNS
NAVAL STATION PUGET SOUND/ 7500 SA	ERNS
NEAR AIRPORT WAY	ERNS
NEAR HOUSE AT 98014 40TH AVE SW	ERNS
SOUTH NEVADA ST AND MARGINAL WAY S	ERNS
NEXT NORTHLAKE WAY	ERNS
2143 NORTH NORTH LAKE WAY	ERNS
1441 N NORTH LAKE WAY	ERNS
205 NORTHEAST NORTH LAKE WAY	ERNS
715 NE NORTH LAKE WAY DOCK ON LAKE	ERNS
303 NE NORTH LAKE WAY	ERNS
303 NORTHEAST NORTH LAKE WAY	ERNS
303 NE NORTH LAKE WAY	ERNS
303 NE NORTH LAKE WAY	ERNS
PERKINS WAY ON 23RD AVE. NE	ERNS
PIER 50 / ALASKAN WAY NEXT TO PIER	ERNS
PIER 15 PETROLEUM DOCK 1711 13TH S	ERNS
PIER 69 ALASKAN WAY	ERNS
PIER 52 801 ALASKAN WAY	ERNS
PIER 46 ON ALASKAN WAY	ERNS
PIER 15 13TH AVE SW	ERNS
ROYAL BROUGHAM WAY	ERNS
ROYAL BROHAM WAY	ERNS
7600 SAN POINT WAY NE	ERNS
7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS

EXECUTIVE SUMMARY

7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS
7001 SEAVIEW AVENUE SW	ERNS
SHIP CANAL WEST COMMODORE WAY	ERNS
SW SIDE OF GREEN LAKE	ERNS
SLIP 4 DUWAMISH RIVER, JUST OFF E.	ERNS
TERMINAL 25 3225 EAST MARGINAL WAY	ERNS
THE WEST WATER WAY	ERNS
SW THISTLE STREET	ERNS
VERSITY WAY	ERNS
WAY	ERNS
BOULEVARD PARK/SHELL STATION	US BROWNFIELDS
BURIEN FUEL	ICR
MCCALL HEATING OIL	ICR
12434 AMBAUM SW BLVD C215	US CDL
9633 28 SW AVE	US CDL

OVERVIEW MAP - 3055793.2s



- 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
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

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: 12807 Des Moines Way, SW
 ADDRESS: 12807 Des Moines Way, SW
 Seattle WA 98168
 LAT/LONG: 47.4883 / 122.3121

CLIENT: Property Solutions, Inc.
 CONTACT: Greg Hillebrand
 INQUIRY #: 3055793.2s
 DATE: April 29, 2011 12:51 pm

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CLIENT: Property Solutions, Inc.
CONTACT: Greg Hillebrand
INQUIRY #: 3055793.2s
DATE: April 29, 2011 12:51 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
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
<i>Federal Delisted NPL site list</i>								
Delisted NPL		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS		0.500	0	0	0	NR	NR	0
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP		0.500	0	0	1	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS		1.000	0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
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
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS		TP	NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
HSL		1.000	0	0	0	1	NR	1
<i>State- and tribal - equivalent CERCLIS</i>								
CSCSL		1.000	0	1	1	2	NR	4
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF		0.500	0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	X	0.500	0	2	1	NR	NR	3
INDIAN LUST		0.500	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
State and tribal registered storage tank lists								
UST	X	0.250	2	1	NR	NR	NR	3
AST		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA 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								
INDIAN VCP		0.500	0	0	0	NR	NR	0
VCP		0.500	0	2	0	NR	NR	2
ICR	X	0.500	1	0	1	NR	NR	2
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								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		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
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
ALLSITES	X	0.500	2	4	1	NR	NR	7
CSCSL NFA		0.500	0	2	0	NR	NR	2
CDL		TP	NR	NR	NR	NR	NR	0
HIST CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.250	1	2	NR	NR	NR	3

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
UIC		TP	NR	NR	NR	NR	NR	0
MANIFEST		0.250	0	0	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
Inactive Drycleaners		0.250	0	0	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
FINANCIAL ASSURANCE	X	TP	NR	NR	NR	NR	NR	0
COAL ASH		0.500	0	0	0	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

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations	X	0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property
PETROSUN 1284
12807 DES MOINES MEMORIAL DR
SEATTLE, WA 98168

LUST
FINANCIAL ASSURANCE
S108024544
N/A

Site 1 of 5 in cluster A

Actual:
375 ft.

LUST:
edr_fstat: WA
edr_fzip: 981682843
edr_fcnty: KING
edr_zip: Not reported
FS ID: 45191292
Facility ID: 4050
Facility Status: Cleanup Started
Release ID: 2079
Affected Media: Soil
Alternate Name: TIME OIL 01-284
Release Notification Date: 12/21/1990
Release Status Date: 6/1/1995
Site Response Unit Code: NORTHWEST
Lat/Long: 47.4884444444444 / -122.312083333333

WA FINANCIAL ASSURANCE:

edr_fstat: WA
edr_fzip: 98148
edr_fcnty: Not reported
edr_zip: Not reported
DOE Site ID: 4050
Site Type: PLIA
Financial Resp Type: Colony (GUS)
Inception Date: 11/14/2009
Expiration Date: 11/14/2010

A2
Target
Property
TIME OIL #01 284
12807 DES MOINES WAY S.
SEATTLE, WA 98168

ICR
S104487749
N/A

Site 2 of 5 in cluster A

Actual:
375 ft.

ICR:
Date Ecology Received Report: 10/27/93
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: 93-17
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 05/24/91
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Not reported
Site Register Issue: 91-30
County Code: 17

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TIME OIL #01 284 (Continued)

S104487749

Contact: Not reported
Report Title: Not reported

**A3
Target
Property**

**HUDSON OIL
12807 DES MOINES WAY
SEATTLE, WA**

**EDR Historical Auto Stations 1009614186
N/A**

Site 3 of 5 in cluster A

**Actual:
375 ft.**

EDR Historical Auto Stations:

Name: HUDSON SELF SERVICE
Year: 1977
Type: Gasoline Stations

Name: HUDSON OIL
Year: 1980
Type: Gasoline Stations

Name: HUDSON OIL
Year: 1985
Type: Gasoline Stations

**A4
Target
Property**

**FOOD MART # 284
12807 DES MOINES WAY SOUTH
SEATTLE, WA 98148**

**FINDS 1010155107
N/A**

Site 4 of 5 in cluster A

**Actual:
375 ft.**

FINDS:

Registry ID: 110030462470

Environmental Interest/Information System

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.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A5
Target
Property

JACKPOT STATION 284
12807 DES MOINES MEMORIAL DR S
SEATTLE, WA 98168

FINDS
ALLSITES
UST

1007070469
N/A

Site 5 of 5 in cluster A

Actual:
375 ft.

FINDS:

Registry ID: 110015470792

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.

ALLSITES:

Facility Id: 45191292
Latitude: 47.488444444444397
Longitude: -122.3120833333301
Geographic location identifier (alias facid): 45191292
Facility Name: JACKPOT STATION 284
Latitude Decimal Degrees: 47.488444444400002
Longitude Decimal Degrees: -122.312083333
Coordinate Point Areal Extent Code: 4
Horizontal Accuracy Code: 4
Coordinate Point Geographic Position Code: 8
Location Verified Code: Not reported

Geographic Location Identifier (Alias Facid): 45191292
Interaction (Aka Env Int) Type Code: UST
Interaction (Aka Env Int) Description: Underground Storage Tank
Interaction Status: A
Federal Program Identifier: 4050
Interaction Start Date: 3/20/2000
Interaction End Date: Not reported
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 45191292
Interaction (Aka Env Int) Type Code: ENFORFNL
Interaction (Aka Env Int) Description: Enforcement Final
Interaction Status: A
Federal Program Identifier: Not reported
Interaction Start Date: 12/16/2009
Interaction End Date: Not reported
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: DMS

Geographic Location Identifier (Alias Facid): 45191292
Interaction (Aka Env Int) Type Code: TIER2
Interaction (Aka Env Int) Description: Emergency/Haz Chem Rpt TIER2
Interaction Status: I
Federal Program Identifier: CRK000014360

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Interaction Start Date: 1/1/1990
Interaction End Date: 7/4/1776
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: EPCRA

Geographic Location Identifier (Alias Facid): 45191292
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility
Interaction Status: A
Federal Program Identifier: 4050
Interaction Start Date: 12/21/1990
Interaction End Date: Not reported
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

UST:

Facility ID: 45191292
Site ID: 4050
Lat Deg: 47
Lat Min: 29
Lat Sec: 18.3999999998298
Long Deg: -122
Long Min: 18
Long Sec: 43.49999999988247
UBI: 6027711490010015
Phone Number: 9258840800

Tank ID: 10175
Tank Name: 364
Install Date: 12/31/1964
Capacity: Not reported
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 8/26/1996
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 8/6/1996
Tag Number: A0044

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Tank ID: 2268
Tank Name: 430
Install Date: 1/4/1991
Capacity: 5,000 to 9,999 Gallons
Tank Upgrade Date: 11/20/1990
TankSystem Status: Operational
TankSystem Status Change Date: 8/26/1996
Tank Status: Operational
Tank Permit Expiration Date: 10/31/2010
Tank Closure Date: 1/1/0001
Tank Pumping System: Suction System Pump Check Valve
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)
Tank Material: Steel Clad with Corrosion Resistant Composite
Tank Construction: Double Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Impressed Current
Pipe Material: Fiberglass
Pipe Construction: Secondary Containment
Pipe Primary Release Detection: Suction
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Tank Primary Release Detection: Interstitial Monitoring
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 8/6/1996
Tag Number: A0044

Tank ID: 3280
Tank Name: 425
Install Date: 1/4/1991
Capacity: 10,000 to 19,999 Gallons
Tank Upgrade Date: 11/20/1990
TankSystem Status: Operational
TankSystem Status Change Date: 8/26/1996
Tank Status: Operational
Tank Permit Expiration Date: 10/31/2010
Tank Closure Date: 1/1/0001
Tank Pumping System: Suction System Pump Check Valve
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)
Tank Material: Steel Clad with Corrosion Resistant Composite
Tank Construction: Double Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Corrosion Resistant
Pipe Material: Fiberglass
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Suction
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Tank Primary Release Detection: Interstitial Monitoring
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 8/6/1996
Tag Number: A0044

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Tank ID: 3293
Tank Name: 429
Install Date: 1/4/1991
Capacity: 10,000 to 19,999 Gallons
Tank Upgrade Date: 11/20/1990
TankSystem Status: Operational
TankSystem Status Change Date: 8/26/1996
Tank Status: Operational
Tank Permit Expiration Date: 10/31/2010
Tank Closure Date: 1/1/0001
Tank Pumping System: Suction System Pump Check Valve
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)
Tank Material: Steel Clad with Corrosion Resistant Composite
Tank Construction: Double Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Corrosion Resistant
Pipe Material: Fiberglass
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Suction
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Tank Primary Release Detection: Interstitial Monitoring
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 8/6/1996
Tag Number: A0044

Tank ID: 3430
Tank Name: 428
Install Date: 12/31/1964
Capacity: Not reported
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 8/26/1996
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
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
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 8/6/1996
Tag Number: A0044

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Tank ID: 35650
Tank Name: 2
Install Date: 12/31/1964
Capacity: 111 TO 1,100 Gallons
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 8/26/1996
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
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
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 8/6/1996
Tag Number: A0044

Tank ID: 35801
Tank Name: 1
Install Date: 12/31/1964
Capacity: 111 TO 1,100 Gallons
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 8/26/1996
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
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
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 8/6/1996
Tag Number: A0044

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Tank ID: 9172
Tank Name: 261
Install Date: 12/31/1964
Capacity: Not reported
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 8/26/1996
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 8/6/1996
Tag Number: A0044

6
NNE
< 1/8
0.087 mi.
458 ft.

PACIFIC UNDERWRITERS CORP
12611 DES MOINES MEMORIAL DR
SEATTLE, WA 98168

ALLSITES **U003027971**
UST **N/A**

Relative:
Higher

ALLSITES:

Actual:
382 ft.

Facility Id: 9386197
Latitude: 47.489251000000003
Longitude: -122.312245
Geographic location identifier (alias facid): 9386197
Facility Name: PACIFIC UNDERWRITERS CORP
Latitude Decimal Degrees: 47.489251000000003
Longitude Decimal Degrees: -122.312245
Coordinate Point Areal Extent Code: 4
Horizontal Accuracy Code: 7
Coordinate Point Geographic Position Code: 5
Location Verified Code: N

Geographic Location Identifier (Alias Facid): 9386197
Interaction (Aka Env Int) Type Code: UST
Interaction (Aka Env Int) Description: Underground Storage Tank
Interaction Status: I
Federal Program Identifier: 6954
Interaction Start Date: 2/29/2000
Interaction End Date: 5/3/2000
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PACIFIC UNDERWRITERS CORP (Continued)

U003027971

UST:

Facility ID: 9386197
Site ID: 6954
Lat Deg: 47
Lat Min: 29
Lat Sec: 21.3036000000108
Long Deg: -122
Long Min: 18
Long Sec: 44.0820000000156
UBI: Not reported
Phone Number: 2062482254

Tank ID: 11239
Tank Name: 1
Install Date: 12/31/1964
Capacity: Not reported
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 8/26/1996
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
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
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 8/6/1996
Tag Number: Not reported

7
WSW
< 1/8
0.094 mi.
496 ft.

BLAKLEY BROTHERS INC
1407 S 129TH ST
SEATTLE, WA 98168

ALLSITES **U003027512**
UST **N/A**

Relative:
Lower

ALLSITES:

Actual:
373 ft.

Facility Id: 99859969
Latitude: 47.487510999999998
Longitude: -122.317365
Geographic location identifier (alias facid): 99859969
Facility Name: BLAKLEY BROTHERS INC
Latitude Decimal Degrees: 47.487510999999998
Longitude Decimal Degrees: -122.317365
Coordinate Point Areal Extent Code: 4
Horizontal Accuracy Code: 6
Coordinate Point Geographic Position Code: 5

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BLAKLEY BROTHERS INC (Continued)

U003027512

Location Verified Code: N

Geographic Location Identifier (Alias Facid): 99859969
Interaction (Aka Env Int) Type Code: UST
Interaction (Aka Env Int) Description: Underground Storage Tank
Interaction Status: I
Federal Program Identifier: 5804
Interaction Start Date: 2/29/2000
Interaction End Date: 5/3/2000
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

UST:

Facility ID: 99859969
Site ID: 5804
Lat Deg: 47
Lat Min: 29
Lat Sec: 15.0395999999921
Long Deg: -122
Long Min: 19
Long Sec: 2.513999999998284
UBI: Not reported
Phone Number: 2062467422

Tank ID: 27843
Tank Name: 1
Install Date: 4/1/1973
Capacity: 111 TO 1,100 Gallons
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 8/26/1996
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: Gravity Delivery System (No Pump)
Tank Spill Prevention: None
Tank Overfill Prevention: Ball Float Valve (vent line)
Tank Material: Coated Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: None
Pipe Material: Steel
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Vapor Monitoring
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Sacrificial Anode
Tank Primary Release Detection: Statistical Inventory Reconciliation
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 8/6/1996
Tag Number: Not reported

Tank ID: 28026
Tank Name: 2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BLAKLEY BROTHERS INC (Continued)

U003027512

Install Date: 12/31/1964
Capacity: 111 TO 1,100 Gallons
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 8/26/1996
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 8/6/1996
Tag Number: Not reported

8
North
< 1/8
0.094 mi.
498 ft.

SHELL OIL CO DES MOINES 129596
12666 DES MOINES WAY
SEATTLE, WA 98168

RCRA-NonGen **1000288059**
FINDS **WAD981764483**
ICR

Relative:
Higher

RCRA-NonGen:
Date form received by agency: 07/29/2002
Facility name: SHELL OIL CO DES MOINES 129596
Facility address: 12666 DES MOINES WAY
SEATTLE, WA 98168
EPA ID: WAD981764483
Mailing address: PO BOX 4453
MFT226
HOUSTON, TX 77210-4453
Contact: SONDRA BIENVENU
Contact address: PO BOX 4453 MFT226
HOUSTON, TX 77210-4453
Contact country: US
Contact telephone: (713)241-5036
Contact email: Not reported
EPA Region: 10
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
378 ft.

Owner/Operator Summary:
Owner/operator name: SHELL OIL CO
Owner/operator address: PO BOX 4453 MFT226
HOUSTON, TX 77210
Owner/operator country: US
Owner/operator telephone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO DES MOINES 129596 (Continued)

1000288059

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/02/2001
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
Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

FINDS:

Registry ID: 110005341451

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.

ICR:

Date Ecology Received Report: 07/02/90
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 90-10
County Code: 17
Contact: Not reported
Report Title: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO DES MOINES 129596 (Continued)

1000288059

Date Ecology Received Report: 12/19/91
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 92-15
County Code: 17
Contact: Not reported
Report Title: Not reported

**B9
NNE
1/8-1/4
0.181 mi.
958 ft.**

**MIKES AUSSIE MACHINE SHOP
12441 DES MOINES MEMORIAL DR
SEATTLE, WA 98168**

Site 1 of 3 in cluster B

**RCRA-NonGen
FINDS
ALLSITES
CSCSL NFA
VCP**

**1001491014
WAD988523171**

**Relative:
Lower**

RCRA-NonGen:

**Actual:
365 ft.**

Date form received by agency: 12/11/1995
Facility name: MIKES AUSSIE MACHINE SHOP
Facility address: 12441 DES MOINES MEMORIAL DR
SEATTLE, WA 98168
EPA ID: WAD988523171
Contact: MICHAEL HAYATSU
Contact address: 12446 DES MOINES MEMORIAL DR
SEATTLE, WA 98168-2266
Contact country: US
Contact telephone: (206) 248-4323
Contact email: Not reported
EPA Region: 10
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: MICHAEL HAYATSU
Owner/operator address: 12446 DES MOINES MEMORIAL DR
SEATTLE, WA 98168
Owner/operator country: US
Owner/operator telephone: (206) 248-4323
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: 09/19/1996
Owner/Op end date: Not reported

Owner/operator name: MICHAEL HAYATSU
Owner/operator address: 12446 DES MOINES MEMORIAL DR
SEATTLE, WA 98168
Owner/operator country: US
Owner/operator telephone: (206) 248-4323
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: 09/19/1996
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIKES AUSSIE MACHINE SHOP (Continued)

1001491014

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: Not reported
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
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 12/08/1995
Facility name: MIKES AUSSIE MACHINE SHOP
Classification: Small Quantity Generator

Date form received by agency: 01/01/1995
Facility name: MIKES AUSSIE MACHINE SHOP
Classification: Unverified

Date form received by agency: 01/01/1994
Facility name: MIKES AUSSIE MACHINE SHOP
Classification: Unverified

Violation Status: No violations found

FINDS:

Registry ID: 110005388124

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.

ALLSITES:

Facility Id: 2334
Latitude: 47.491079999999997
Longitude: -122.31037000000001
Geographic location identifier (alias facid): 2334
Facility Name: MIKES AUSSIE MACHINE SHOP
Latitude Decimal Degrees: 47.491079999999997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIKES AUSSIE MACHINE SHOP (Continued)

1001491014

Longitude Decimal Degrees: -122.31037000000001
Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 4
Coordinate Point Geographic Position Code: 99
Location Verified Code: Y

Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site
Interaction Status: I
Federal Program Identifier: Not reported
Interaction Start Date: 3/18/1991
Interaction End Date: 8/16/2005
prgm_facil: MIKES AUSSIE MACHINE SHOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: HWG
Interaction (Aka Env Int) Description: Hazardous Waste Generator
Interaction Status: I
Federal Program Identifier: WAD988523171
Interaction Start Date: 7/20/1993
Interaction End Date: 8/31/1995
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: VOLCLNST
Interaction (Aka Env Int) Description: Voluntary Cleanup Sites
Interaction Status: I
Federal Program Identifier: NW1468
Interaction Start Date: 6/8/2005
Interaction End Date: 8/18/2005
prgm_facil: MIKES AUSSIE MACHINE SHOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

CSCSL NFA:

Facility/Site Id: 2334
NFA Type: NFA after assessment, IRAP, or VCP
NFA Date: 3/2/2009
Rank: 5
Alternate Name: Alternate Names: ARMIJO PROPERTY, AUSSIE MACHINE SHOP, BOULEVARD AUTO PARTS,
VCP: Y

VCP:

edr_fstat: WA
edr_fzip: 98168
edr_fcnty: KING COUNTY
edr_zip: Not reported
Facility ID: 2334
VCP Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIKES AUSSIE MACHINE SHOP (Continued)

1001491014

VCP: Y
Ecology Status: Not reported
NFA Type: NFA after assessment, IRAP, or VCP
Date NFA: 3/2/2009
Rank: 5

B10
NNE
1/8-1/4
0.188 mi.
994 ft.
GOLDCO
12459 DES MOINES WAY SO
SEATTLE, WA 98168
Site 2 of 3 in cluster B

LUST **U003028373**
N/A

Relative: LUST:
Lower edr_fstat: WA
edr_fzip: 98168
edr_fcnty: KING
Actual: edr_zip: Not reported
369 ft. FS ID: 54287319
Facility ID: 8142
Facility Status: Reported Cleaned Up
Release ID: 2010
Affected Media: Soil
Alternate Name: BOULEVARD AUTO SERVICE
Release Notification Date: 2/28/1991
Release Status Date: 4/25/2000
Site Response Unit Code: NORTHWEST
Lat/Long: 47.49045 / -122.31067

edr_fstat: WA
edr_fzip: 98168
edr_fcnty: KING
edr_zip: Not reported
FS ID: 54287319
Facility ID: 8142
Facility Status: Cleanup Started
Release ID: 2010
Affected Media: Soil
Alternate Name: BOULEVARD AUTO SERVICE
Release Notification Date: 2/28/1991
Release Status Date: 6/1/1995
Site Response Unit Code: NORTHWEST
Lat/Long: 47.49045 / -122.31067

11
East
1/8-1/4
0.191 mi.
1009 ft.
HSD HIGHLINE BOULEVARD PARK WAREHOUSE
12833 20TH AVE S
SEATTLE, WA 98168

RCRA-NonGen **1000850360**
FINDS **WAD988523007**
ALLSITES

Relative: RCRA-NonGen:
Lower Date form received by agency: 02/27/2003
Facility name: HSD HIGHLINE BOULEVARD PARK WAREHOUSE
Facility address: 12833 20TH AVE S
SEATTLE, WA 981682916
EPA ID: WAD988523007
Mailing address: 15675 AMBAUM BLVD SW

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HSD HIGHLINE BOULEVARD PARK WAREHOUSE (Continued)

1000850360

Contact: BURIEN, WA 98166-2523
Contact address: BARB PIGUET
15675 AMBAUM BLVD SW
BURIEN, WA 98166-2523
Contact country: US
Contact telephone: (206)433-2354
Contact email: Not reported
EPA Region: 10
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: BARB PIGUET
Owner/operator address: 15675 AMBAUM BLVD SW
BURIEN, WA 98166
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/25/1997
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
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

FINDS:

Registry ID: 110005387982

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.

ALLSITES:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HSD HIGHLINE BOULEVARD PARK WAREHOUSE (Continued)

1000850360

Facility Id: 82131388
Latitude: 47.488259999999997
Longitude: -122.30748
Geographic location identifier (alias facid): 82131388
Facility Name: HSD Highline Boulevard Park Warehouse
Latitude Decimal Degrees: 47.488259999999997
Longitude Decimal Degrees: -122.30748
Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 99
Coordinate Point Geographic Position Code: 99
Location Verified Code: N

Geographic Location Identifier (Alias Facid): 82131388
Interaction (Aka Env Int) Type Code: HWG
Interaction (Aka Env Int) Description: Hazardous Waste Generator
Interaction Status: I
Federal Program Identifier: WAD988523007
Interaction Start Date: 7/20/1993
Interaction End Date: 12/31/2001
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

B12
NNE
1/8-1/4
0.218 mi.
1153 ft.

SHELL OIL CO DES MOINES 129596
12666 DES MOINES WAY
SEATTLE, WA 98168
Site 3 of 3 in cluster B

CSCSL
ALLSITES
LUST
UST
VCP

U000920379
N/A

Relative:
Lower

CSCSL:

Actual:
356 ft.

Facility ID: 84247415
Facility Type: VCP
Region: Northwest
Ecology Status Code: 3
Entered Date: 2/19/2009
Updated Date: 2/19/2009
Brownfield Status: 0
Rank Status: Not reported
PSI Status: Not reported
Clean Method: Not reported
Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.48894
Longitude: -122.31123
Lat/Long: 47.48894 / -122.31123
Lat/Long (dms): 47 29 20.184 / -122 18 40.428
Media Status Desc: 2/19/2009
Affected Media: Groundwater
Affected Media Status: Confirmed
Pesticides: Not reported
Petroleum Products: Confirmed
Phenolic Compounds: Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO DES MOINES 129596 (Continued)

U000920379

Responsible Unit: NORTHWEST
Arsenic Code: Not reported
MTBE Code: Not reported
UXO Code: Not reported
Dioxin: Not reported
Non-Halogenated Solvents: Not reported
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Not reported
Metals - Other non-priority pollutant medals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported
Tibutyl Tin Contaminant Group: Not reported
Bioassay/Benthic Failures Contaminant Group: Not reported
Wood Debris Contaminant Group: Not reported
Other Deleterious Substance Group: Not reported
Ecology Site Status (MTCA cleanup process): RA in Progress

Facility ID: 84247415
Facility Type: VCP
Region: Northwest
Ecology Status Code: 3
Entered Date: 2/19/2009
Updated Date: 2/19/2009
Brownfield Status: 0
Rank Status: Not reported
PSI Status: Not reported
Clean Method: Not reported
Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.48894
Longitude: -122.31123
Lat/Long: 47.48894 / -122.31123
Lat/Long (dms): 47 29 20.184 / -122 18 40.428
Media Status Desc: 1/1/0001
Affected Media: Soil
Affected Media Status: Confirmed
Pesticides: Not reported
Petroleum Products: Confirmed
Phenolic Compounds: Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Responsible Unit: NORTHWEST
Arsenic Code: Not reported
MTBE Code: Not reported
UXO Code: Not reported
Dioxin: Not reported
Non-Halogenated Solvents: Not reported
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Not reported
Metals - Other non-priority pollutant medals: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO DES MOINES 129596 (Continued)

U000920379

Polychlorinated biPhenyls (PCBs): Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported
Tibutyl Tin Contaminant Group: Not reported
Bioassay/Benthic Failures Contaminant Group: Not reported
Wood Debris Contaminant Group: Not reported
Other Deleterious Substance Group: Not reported
Ecology Site Status (MTCA cleanup process): RA in Progress

ALLSITES:

Facility Id: 84247415
Latitude: 47.488939999999999
Longitude: -122.31122999999999
Geographic location identifier (alias facid): 84247415
Facility Name: Shell Oil Co Des Moines 129596
Latitude Decimal Degrees: 47.488939999999999
Longitude Decimal Degrees: -122.31122999999999
Coordinate Point Areal Extent Code: 4
Horizontal Accuracy Code: 4
Coordinate Point Geographic Position Code: 5
Location Verified Code: Y

Geographic Location Identifier (Alias Facid): 84247415
Interaction (Aka Env Int) Type Code: UST
Interaction (Aka Env Int) Description: Underground Storage Tank
Interaction Status: I
Federal Program Identifier: 3345
Interaction Start Date: 3/20/2000
Interaction End Date: 3/20/2000
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 84247415
Interaction (Aka Env Int) Type Code: HWG
Interaction (Aka Env Int) Description: Hazardous Waste Generator
Interaction Status: I
Federal Program Identifier: WAD981764483
Interaction Start Date: 3/12/1987
Interaction End Date: 12/31/2001
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Geographic Location Identifier (Alias Facid): 84247415
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility
Interaction Status: A
Federal Program Identifier: 3345
Interaction Start Date: 7/17/1989
Interaction End Date: Not reported
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 84247415

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO DES MOINES 129596 (Continued)

U000920379

Interaction (Aka Env Int) Type Code: VOLCLNST
Interaction (Aka Env Int) Description: Voluntary Cleanup Sites
Interaction Status: A
Federal Program Identifier: NW2095
Interaction Start Date: 2/19/2009
Interaction End Date: Not reported
prgm_facil: Shell 12666 Des Moines Memorial Dr, Seattle
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

LUST:

edr_fstat: WA
edr_fzip: 98168
edr_fcnty: KING
edr_zip: Not reported
FS ID: 84247415
Facility ID: 3345
Facility Status: Cleanup Started
Release ID: 1532
Affected Media: Ground Water
Alternate Name: SHELL STATION DES MOINES WAY
Release Notification Date: 7/17/1989
Release Status Date: 6/1/1995
Site Response Unit Code: NORTHWEST
Lat/Long: 47.48894 / -122.31123

edr_fstat: WA
edr_fzip: 98168
edr_fcnty: KING
edr_zip: Not reported
FS ID: 84247415
Facility ID: 3345
Facility Status: Cleanup Started
Release ID: 1532
Affected Media: Soil
Alternate Name: SHELL STATION DES MOINES WAY
Release Notification Date: 7/17/1989
Release Status Date: 6/1/1995
Site Response Unit Code: NORTHWEST
Lat/Long: 47.48894 / -122.31123

UST:

Facility ID: 84247415
Site ID: 3345
Lat Deg: 47
Lat Min: 29
Lat Sec: 20.1839999999982
Long Deg: -122
Long Min: 18
Long Sec: 40.42799999999812
UBI: Not reported
Phone Number: Not reported

Tank ID: 17274
Tank Name: 4

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO DES MOINES 129596 (Continued)

U000920379

Install Date: 12/31/1964
Capacity: Not reported
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 4/29/2005
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 5/1/1988
Tag Number: Not reported

Tank ID: 17367
Tank Name: 2
Install Date: 12/31/1964
Capacity: Not reported
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 4/29/2005
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 5/1/1988
Tag Number: Not reported

Tank ID: 17403

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO DES MOINES 129596 (Continued)

U000920379

Tank Name: 5
Install Date: 12/31/1964
Capacity: 111 TO 1,100 Gallons
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 4/29/2005
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 5/1/1988
Tag Number: Not reported

Tank ID: 17426
Tank Name: 1
Install Date: 12/31/1964
Capacity: Not reported
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 4/29/2005
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 5/1/1988
Tag Number: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO DES MOINES 129596 (Continued)

U000920379

Tank ID: 17490
Tank Name: 3
Install Date: 12/31/1964
Capacity: Not reported
Tank Upgrade Date: 1/1/0001
TankSystem Status: Removed
TankSystem Status Change Date: 4/29/2005
Tank Status: Removed
Tank Permit Expiration Date: 1/1/0001
Tank Closure Date: 1/1/0001
Tank Pumping System: 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
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Tank Primary Release Detection: Not reported
Tank Second Release Detection: Not reported
Pipe Tightness Test: Not reported
Tank Actual Status Date: 5/1/1988
Tag Number: Not reported

VCP:

edr_fstat: WA
edr_fzip: 98168
edr_fcnty: KING
edr_zip: Not reported
Facility ID: 84247415
VCP Status: VCP
VCP: Not reported
Ecology Status: RA in Progress
NFA Type: RA in Progress
Date NFA: RA in Progress
Rank: RA in Progress

edr_fstat: WA
edr_fzip: 98168
edr_fcnty: KING
edr_zip: Not reported
Facility ID: 84247415
VCP Status: VCP
VCP: Not reported
Ecology Status: RA in Progress
NFA Type: RA in Progress
Date NFA: RA in Progress
Rank: RA in Progress

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

13
NE
1/8-1/4
0.242 mi.
1278 ft.

JONES PROPERTY
12441 20TH AV S
BURIEN, WA 98168

ALLSITES
CSCSL NFA

S104971674
N/A

Relative:
Lower

ALLSITES:

Facility Id: 2491
Latitude: 47.495800000000003
Longitude: -122.302180000000001
Geographic location identifier (alias facid): 2491
Facility Name: JONES PROPERTY
Latitude Decimal Degrees: 47.495800000000003
Longitude Decimal Degrees: -122.302180000000001
Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 99
Coordinate Point Geographic Position Code: 99
Location Verified Code: N

Actual:
351 ft.

Geographic Location Identifier (Alias Facid): 2491
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site
Interaction Status: I
Federal Program Identifier: Not reported
Interaction Start Date: 8/30/1994
Interaction End Date: 12/20/1996
prgm_facil: JONES PROPERTY
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

CSCSL NFA:

Facility/Site Id: 2491
NFA Type: NFA after assessment, IRAP, or VCP
NFA Date: 12/20/1996
Rank: Not reported
Alternate Name: Not reported
VCP: Not reported

C14
South
1/4-1/2
0.460 mi.
2427 ft.

SUNSET PARK - TUB LAKE SITE
S 136TH & 18TH AV S
SEATTLE, WA 98168

CERC-NFRAP

1003880427
WAD980664817

Site 1 of 4 in cluster C

Relative:
Lower

CERC-NFRAP:

Site ID: 1000931
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Actual:
342 ft.

CERCLIS-NFRAP Site Alias Name(s):

Alias Name: TUB LAKE DUMP
Alias Address: Not reported
WA

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK - TUB LAKE SITE (Continued)

1003880427

Date Started: Not reported
Date Completed: 06/01/1979
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 08/01/1984
Date Completed: 08/01/1984
Priority Level: Higher priority for further assessment

Action: SITE INSPECTION
Date Started: 11/01/1984
Date Completed: 01/16/1985
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 01/16/1985
Priority Level: Not reported

C15
South
1/4-1/2
0.497 mi.
2624 ft.

SUNSET PARK
13659 18TH AVE S
SEATAC, WA 98168

LUST **U001124051**
N/A

Site 2 of 4 in cluster C

Relative:
Lower

LUST:

Actual:
329 ft.

edr_fstat: WA
edr_fzip: 981683771
edr_fcnty: KING
edr_zip: Not reported
FS ID: 98435559
Facility ID: 5485
Facility Status: Cleanup Started
Release ID: 2110
Affected Media: Soil
Alternate Name: KING CO SUNSET PARK
Release Notification Date: 3/26/1991
Release Status Date: 6/1/1995
Site Response Unit Code: NORTHWEST
Lat/Long: 47.4795492727068 / -122.310259636673

edr_fstat: WA
edr_fzip: 981683771
edr_fcnty: KING
edr_zip: Not reported
FS ID: 98435559
Facility ID: 5485
Facility Status: Cleanup Started
Release ID: 2110
Affected Media: Ground Water
Alternate Name: KING CO SUNSET PARK
Release Notification Date: 3/26/1991
Release Status Date: 6/1/1995
Site Response Unit Code: NORTHWEST
Lat/Long: 47.4795492727068 / -122.310259636673

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C16 **KING COUNTY PARKS SUNSET & TUB LAKE DUMP**
South **13659 18TH AVE S**
1/4-1/2 **SEATAC, WA 98168**
0.497 mi.
2624 ft. **Site 3 of 4 in cluster C**

CSCSL **S110486151**
ALLSITES **N/A**

Relative:
Lower

CSCSL:

Actual:
329 ft.

Facility ID: 98435559
Facility Type: Independent
Region: Northwest
Ecology Status Code: 2
Entered Date: 3/1/1988
Updated Date: 5/3/2010
Brownfield Status: 0
Rank Status: 3
PSI Status: Not reported
Clean Method: Not reported
Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.4795492727068
Longitude: -122.310259636673
Lat/Long: 47.4795492727068 / -122.310259636673
Lat/Long (dms): Not reported
Media Status Desc: 1/1/0001
Affected Media: Surface Water
Affected Media Status: Confirmed
Pesticides: Not reported
Petroleum Products: Confirmed
Phenolic Compounds: Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Responsible Unit: NORTHWEST
Arsenic Code: Not reported
MTBE Code: Not reported
UXO Code: Not reported
Dioxin: Not reported
Non-Halogenated Solvents: Not reported
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Confirmed
Metals - Other non-priority pollutant medals: Not reported
Polychlorinated biPhenyls (PCBs): Confirmed
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported
Tibutyl Tin Contaminant Group: Not reported
Bioassay/Benthic Failures Contaminant Group: Not reported
Wood Debris Contaminant Group: Not reported
Other Deleterious Substance Group: Not reported
Ecology Site Status (MTCA cleanup process): Ranked, Awaiting RA

Facility ID: 98435559
Facility Type: Independent
Region: Northwest
Ecology Status Code: 2
Entered Date: 3/1/1988

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KING COUNTY PARKS SUNSET & TUB LAKE DUMP (Continued)

S110486151

Updated Date: 5/3/2010
Brownfield Status: 0
Rank Status: 3
PSI Status: Not reported
Clean Method: Not reported
Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.4795492727068
Longitude: -122.310259636673
Lat/Long: 47.4795492727068 / -122.310259636673
Lat/Long (dms): Not reported
Media Status Desc: 1/1/0001
Affected Media: Soil
Affected Media Status: Confirmed
Pesticides: Not reported
Petroleum Products: Confirmed
Phenolic Compounds: Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Responsible Unit: NORTHWEST
Arsenic Code: Not reported
MTBE Code: Not reported
UXO Code: Not reported
Dioxin: Not reported
Non-Halogenated Solvents: Confirmed
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Confirmed
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Confirmed
Polynuclear Aromatic Hydrocarbons (PAH): Confirmed
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported
Tibutyl Tin Contaminant Group: Not reported
Bioassay/Benthic Failures Contaminant Group: Not reported
Wood Debris Contaminant Group: Not reported
Other Deleterious Substance Group: Not reported
Ecology Site Status (MTCA cleanup process): Ranked, Awaiting RA

Facility ID: 98435559
Facility Type: Independent
Region: Northwest
Ecology Status Code: 2
Entered Date: 3/1/1988
Updated Date: 5/3/2010
Brownfield Status: 0
Rank Status: 3
PSI Status: Not reported
Clean Method: Not reported
Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.4795492727068
Longitude: -122.310259636673

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KING COUNTY PARKS SUNSET & TUB LAKE DUMP (Continued)

S110486151

Lat/Long: 47.4795492727068 / -122.310259636673
Lat/Long (dms): Not reported
Media Status Desc: 1/1/0001
Affected Media: Groundwater
Affected Media Status: Confirmed
Pesticides: Not reported
Petroleum Products: Confirmed
Phenolic Compounds: Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Responsible Unit: NORTHWEST
Arsenic Code: Not reported
MTBE Code: Not reported
UXO Code: Not reported
Dioxin: Not reported
Non-Halogenated Solvents: Confirmed
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Confirmed
Metals - Other non-priority pollutant medals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Confirmed
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported
Tibutyl Tin Contaminant Group: Not reported
Bioassay/Benthic Failures Contaminant Group: Not reported
Wood Debris Contaminant Group: Not reported
Other Deleterious Substance Group: Not reported
Ecology Site Status (MTCA cleanup process): Ranked, Awaiting RA

Facility ID: 98435559
Facility Type: Independent
Region: Northwest
Ecology Status Code: 2
Entered Date: 3/1/1988
Updated Date: 5/3/2010
Brownfield Status: 0
Rank Status: 3
PSI Status: Not reported
Clean Method: Not reported
Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.4795492727068
Longitude: -122.310259636673
Lat/Long: 47.4795492727068 / -122.310259636673
Lat/Long (dms): Not reported
Media Status Desc: 1/1/0001
Affected Media: Sediment
Affected Media Status: Suspected
Pesticides: Not reported
Petroleum Products: Suspected
Phenolic Compounds: Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KING COUNTY PARKS SUNSET & TUB LAKE DUMP (Continued)

S110486151

Radioactive Wastes: Not reported
Asbestos: Not reported
Responsible Unit: NORTHWEST
Arsenic Code: Not reported
MTBE Code: Not reported
UXO Code: Not reported
Dioxin: Not reported
Non-Halogenated Solvents: Suspected
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Suspected
EPA Priority Pollutants - Metals and Cyanide: Suspected
Metals - Other non-priority pollutant medals: Not reported
Polychlorinated biPhenyls (PCBs): Suspected
Polynuclear Aromatic Hydrocarbons (PAH): Suspected
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported
Tibutyl Tin Contaminant Group: Not reported
Bioassay/Benthic Failures Contaminant Group: Not reported
Wood Debris Contaminant Group: Not reported
Other Deleterious Substance Group: Not reported
Ecology Site Status (MTCA cleanup process): Ranked, Awaiting RA

ALLSITES:

Facility Id: 98435559
Latitude: 47.479549272706798
Longitude: -122.310259636673
Geographic location identifier (alias facid): 98435559
Facility Name: King County Parks Sunset & Tub Lake Dump
Latitude Decimal Degrees: 47.479549272699998
Longitude Decimal Degrees: -122.310259637
Coordinate Point Areal Extent Code: 4
Horizontal Accuracy Code: 6
Coordinate Point Geographic Position Code: 8
Location Verified Code: Not reported

Geographic Location Identifier (Alias Facid): 98435559
Interaction (Aka Env Int) Type Code: IRAP
Interaction (Aka Env Int) Description: Independent Remedial Actn Prg
Interaction Status: A
Federal Program Identifier: Not reported
Interaction Start Date: 2/2/1999
Interaction End Date: Not reported
prgm_facil: SUNSET PARK & TUB LAKE DUMP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 98435559
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility
Interaction Status: A
Federal Program Identifier: 5485
Interaction Start Date: 3/26/1991
Interaction End Date: Not reported
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KING COUNTY PARKS SUNSET & TUB LAKE DUMP (Continued)

S110486151

Geographic Location Identifier (Alias Facid): 98435559
Interaction (Aka Env Int) Type Code: INDPNDNT
Interaction (Aka Env Int) Description: Independent Cleanup
Interaction Status: A
Federal Program Identifier: Not reported
Interaction Start Date: 3/1/1988
Interaction End Date: Not reported
prgm_facil: King Cnty Parks Sunset Shop
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Geographic Location Identifier (Alias Facid): 98435559
Interaction (Aka Env Int) Type Code: HWG
Interaction (Aka Env Int) Description: Hazardous Waste Generator
Interaction Status: I
Federal Program Identifier: WAD981763857
Interaction Start Date: 3/3/1987
Interaction End Date: 12/31/1988
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Geographic Location Identifier (Alias Facid): 98435559
Interaction (Aka Env Int) Type Code: UST
Interaction (Aka Env Int) Description: Underground Storage Tank
Interaction Status: I
Federal Program Identifier: 5485
Interaction Start Date: 3/20/2000
Interaction End Date: 8/6/2000
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

C17
South
1/4-1/2
0.497 mi.
2624 ft.

KING COUNTY SUNSET PARK
13659 18TH AVE. S.
SEATTLE, WA 98168
Site 4 of 4 in cluster C

ICR S104484883
N/A

Relative:
Lower

ICR:
Date Ecology Received Report: 12/29/97
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 95-18
County Code: 17
Contact: Not reported
Report Title: Not reported

Actual:
329 ft.

Date Ecology Received Report: 02/02/99
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KING COUNTY SUNSET PARK (Continued)

S104484883

Site Register Issue: 98-23
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 11/30/92
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: 92-39
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 01/22/93
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 92-46
County Code: 17
Contact: Not reported
Report Title: Not reported

18
South
1/2-1
0.604 mi.
3190 ft.

SUNSET PARK
SEATAC, WA

CSCSL **S110276376**
HSL **N/A**
ALLSITES
VCP

Relative:
Lower

CSCSL:
Facility ID: 76131767
Facility Type: VCP
Region: Northwest
Ecology Status Code: 3
Entered Date: 2/2/1999
Updated Date: 5/7/2010
Brownfield Status: 0
Rank Status: 3
PSI Status: Not reported
Clean Method: Not reported
Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.4791302332049
Longitude: -122.310928864199
Lat/Long: 47.4791302332049 / -122.310928864199
Lat/Long (dms): Not reported
Media Status Desc: 9/22/2008
Affected Media: Soil
Affected Media Status: Confirmed
Pesticides: Not reported
Petroleum Products: Confirmed
Phenolic Compounds: Not reported
Reactive Wastes: Not reported

Actual:
305 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

S110276376

Corrosive Wastes:	Not reported	
Radioactive Wastes:	Not reported	
Asbestos:	Not reported	
Responsible Unit:	NORTHWEST	
Arsenic Code:	Not reported	
MTBE Code:	Not reported	
UXO Code:	Not reported	
Dioxin:	Not reported	
Non-Halogenated Solvents:		Not reported
Base/Neutral/Acid Organics:		Not reported
Halogenated Organic Compounds:		Not reported
EPA Priority Pollutants - Metals and Cyanide:		Not reported
Metals - Other non-priority pollutant metals:		Not reported
Polychlorinated biPhenyls (PCBs):		Not reported
Polynuclear Aromatic Hydrocarbons (PAH):		Not reported
Conventional Contaminants, Organic:		Not reported
Conventional Contaminants, Inorganic:		Not reported
Tibutyl Tin Contaminant Group:		Not reported
Bioassay/Benthic Failures Contaminant Group:		Not reported
Wood Debris Contaminant Group:		Not reported
Other Deleterious Substance Group:		Not reported
Ecology Site Status (MTCA cleanup process):		RA in Progress
Facility ID:	76131767	
Facility Type:	VCP	
Region:	Northwest	
Ecology Status Code:	3	
Entered Date:	2/2/1999	
Updated Date:	5/7/2010	
Brownfield Status:	0	
Rank Status:	3	
PSI Status:	Not reported	
Clean Method:	Not reported	
Drinking Water Type:	Not reported	
Cleanup Standard:	Not reported	
Acres Remediated:	Not reported	
Latitude:	47.4791302332049	
Longitude:	-122.310928864199	
Lat/Long:	47.4791302332049 / -122.310928864199	
Lat/Long (dms):	Not reported	
Media Status Desc:	1/1/0001	
Affected Media:	Groundwater	
Affected Media Status:	Confirmed	
Pesticides:	Not reported	
Petroleum Products:	Confirmed	
Phenolic Compounds:	Not reported	
Reactive Wastes:	Not reported	
Corrosive Wastes:	Not reported	
Radioactive Wastes:	Not reported	
Asbestos:	Not reported	
Responsible Unit:	NORTHWEST	
Arsenic Code:	Not reported	
MTBE Code:	Not reported	
UXO Code:	Not reported	
Dioxin:	Not reported	
Non-Halogenated Solvents:		Not reported
Base/Neutral/Acid Organics:		Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

S110276376

Halogenated Organic Compounds:	Not reported
EPA Priority Pollutants - Metals and Cyanide:	Not reported
Metals - Other non-priority pollutant metals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported
Tibutyl Tin Contaminant Group:	Not reported
Bioassay/Benthic Failures Contaminant Group:	Not reported
Wood Debris Contaminant Group:	Not reported
Other Deleterious Substance Group:	Not reported
Ecology Site Status (MTCA cleanup process):	RA in Progress

HSL:

edr_fstat:	WA
edr_fzip:	Not reported
edr_fcnty:	KING
edr_zip:	Not reported
Facility Type:	Hazardous Sites List
Facility Status:	Cleanup Started
FSID Number:	76131767
Rank:	3
Region:	NW

ALLSITES:

Facility Id:	76131767
Latitude:	47.479130233204899
Longitude:	-122.310928864199
Geographic location identifier (alias facid):	76131767
Facility Name:	SUNSET PARK
Latitude Decimal Degrees:	47.479130233200003
Longitude Decimal Degrees:	-122.310928864
Coordinate Point Areal Extent Code:	4
Horizontal Accuracy Code:	6
Coordinate Point Geographic Position Code:	8
Location Verified Code:	Not reported
Geographic Location Identifier (Alias Facid):	76131767
Interaction (Aka Env Int) Type Code:	UST
Interaction (Aka Env Int) Description:	Underground Storage Tank
Interaction Status:	I
Federal Program Identifier:	6884
Interaction Start Date:	3/20/2000
Interaction End Date:	8/6/2000
prgm_facil:	Not reported
cur_sys_pr:	TOXICS
cur_sys_nm:	ISIS
Geographic Location Identifier (Alias Facid):	76131767
Interaction (Aka Env Int) Type Code:	LUST
Interaction (Aka Env Int) Description:	LUST Facility
Interaction Status:	A
Federal Program Identifier:	6884
Interaction Start Date:	2/2/1999
Interaction End Date:	Not reported
prgm_facil:	SUNSET PARK

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

S110276376

cur_sys_pr:	TOXICS
cur_sys_nm:	ISIS
Geographic Location Identifier (Alias Facid):	76131767
Interaction (Aka Env Int) Type Code:	VOLCLNST
Interaction (Aka Env Int) Description:	Voluntary Cleanup Sites
Interaction Status:	A
Federal Program Identifier:	NW1994
Interaction Start Date:	9/22/2008
Interaction End Date:	Not reported
prgm_facil:	SUNSET PARK
cur_sys_pr:	TOXICS
cur_sys_nm:	ISIS
Geographic Location Identifier (Alias Facid):	76131767
Interaction (Aka Env Int) Type Code:	VOLCLNST
Interaction (Aka Env Int) Description:	Voluntary Cleanup Sites
Interaction Status:	I
Federal Program Identifier:	NW0203
Interaction Start Date:	2/2/1999
Interaction End Date:	8/20/2008
prgm_facil:	SUNSET PIT
cur_sys_pr:	TOXICS
cur_sys_nm:	ISIS

VCP:

edr_fstat:	WA
edr_fzip:	98168
edr_fcnty:	KING
edr_zip:	Not reported
Facility ID:	76131767
VCP Status:	VCP
VCP:	Not reported
Ecology Status:	RA in Progress
NFA Type:	RA in Progress
Date NFA:	RA in Progress
Rank:	RA in Progress

edr_fstat:	WA
edr_fzip:	98168
edr_fcnty:	KING
edr_zip:	Not reported
Facility ID:	76131767
VCP Status:	VCP
VCP:	Not reported
Ecology Status:	RA in Progress
NFA Type:	RA in Progress
Date NFA:	RA in Progress
Rank:	RA in Progress

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

19
ENE
1/2-1
0.963 mi.
5086 ft.

DUWAMISH FILL SITE DOT
S 124TH ST & SR 99
SEATTLE, WA 98168

CSCSL S103398157
ALLSITES N/A

Relative:
Lower

Actual:
59 ft.

CSCSL:

Facility ID: 2063
Facility Type: Not reported
Region: Northwest
Ecology Status Code: 1
Entered Date: 3/1/1988
Updated Date: 10/8/1993
Brownfield Status: 0
Rank Status: Not reported
PSI Status: Not reported
Clean Method: Not reported
Drinking Water Type: Not reported
Cleanup Standard: Not reported
Acres Remediated: Not reported
Latitude: 47.49156
Longitude: -122.29213
Lat/Long: 47.49156 / -122.29213
Lat/Long (dms): 47 29 29.616 / -122 17 31.668
Media Status Desc: 1/1/0001
Affected Media: Soil
Affected Media Status: Confirmed
Pesticides: Suspected
Petroleum Products: Confirmed
Phenolic Compounds: Suspected
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Responsible Unit: NORTHWEST
Arsenic Code: Not reported
MTBE Code: Not reported
UXO Code: Not reported
Dioxin: Not reported
Non-Halogenated Solvents: Suspected
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Confirmed
Metals - Other non-priority pollutant medals: Not reported
Polychlorinated biPhenyls (PCBs): Suspected
Polynuclear Aromatic Hydrocarbons (PAH): Suspected
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported
Tibutyl Tin Contaminant Group: Not reported
Bioassay/Benthic Failures Contaminant Group: Not reported
Wood Debris Contaminant Group: Not reported
Other Deleterious Substance Group: Not reported
Ecology Site Status (MTCA cleanup process): Awaiting SHA

Facility ID: 2063
Facility Type: Not reported
Region: Northwest
Ecology Status Code: 1
Entered Date: 3/1/1988

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUWAMISH FILL SITE DOT (Continued)

S103398157

Updated Date:	10/8/1993
Brownfield Status:	0
Rank Status:	Not reported
PSI Status:	Not reported
Clean Method:	Not reported
Drinking Water Type:	Not reported
Cleanup Standard:	Not reported
Acres Remediated:	Not reported
Latitude:	47.49156
Longitude:	-122.29213
Lat/Long:	47.49156 / -122.29213
Lat/Long (dms):	47 29 29.616 / -122 17 31.668
Media Status Desc:	1/1/0001
Affected Media:	Groundwater
Affected Media Status:	Suspected
Pesticides:	Suspected
Petroleum Products:	Suspected
Phenolic Compounds:	Suspected
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Responsible Unit:	NORTHWEST
Arsenic Code:	Not reported
MTBE Code:	Not reported
UXO Code:	Not reported
Dioxin:	Not reported
Non-Halogenated Solvents:	Suspected
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
EPA Priority Pollutants - Metals and Cyanide:	Suspected
Metals - Other non-priority pollutant metals:	Not reported
Polychlorinated biPhenyls (PCBs):	Suspected
Polynuclear Aromatic Hydrocarbons (PAH):	Suspected
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported
Tibutyl Tin Contaminant Group:	Not reported
Bioassay/Benthic Failures Contaminant Group:	Not reported
Wood Debris Contaminant Group:	Not reported
Other Deleterious Substance Group:	Not reported
Ecology Site Status (MTCA cleanup process):	Awaiting SHA
Facility ID:	2063
Facility Type:	Not reported
Region:	Northwest
Ecology Status Code:	1
Entered Date:	3/1/1988
Updated Date:	10/8/1993
Brownfield Status:	0
Rank Status:	Not reported
PSI Status:	Not reported
Clean Method:	Not reported
Drinking Water Type:	Not reported
Cleanup Standard:	Not reported
Acres Remediated:	Not reported
Latitude:	47.49156
Longitude:	-122.29213

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUWAMISH FILL SITE DOT (Continued)

S103398157

Lat/Long: 47.49156 / -122.29213
Lat/Long (dms): 47 29 29.616 / -122 17 31.668
Media Status Desc: 1/1/0001
Affected Media: Surface Water
Affected Media Status: Suspected
Pesticides: Suspected
Petroleum Products: Suspected
Phenolic Compounds: Suspected
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Responsible Unit: NORTHWEST
Arsenic Code: Not reported
MTBE Code: Not reported
UXO Code: Not reported
Dioxin: Not reported
Non-Halogenated Solvents: Suspected
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Suspected
Metals - Other non-priority pollutant medals: Not reported
Polychlorinated biPhenyls (PCBs): Suspected
Polynuclear Aromatic Hydrocarbons (PAH): Suspected
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported
Tibutyl Tin Contaminant Group: Not reported
Bioassay/Benthic Failures Contaminant Group: Not reported
Wood Debris Contaminant Group: Not reported
Other Deleterious Substance Group: Not reported
Ecology Site Status (MTCA cleanup process): Awaiting SHA

ALLSITES:

Facility Id: 2063
Latitude: 47.49156
Longitude: -122.29213
Geographic location identifier (alias facid): 2063
Facility Name: DUWAMISH FILL SITE DOT
Latitude Decimal Degrees: 47.49156
Longitude Decimal Degrees: -122.29213
Coordinate Point Areal Extent Code: 99
Horizontal Accuracy Code: 4
Coordinate Point Geographic Position Code: 99
Location Verified Code: Y

Geographic Location Identifier (Alias Facid): 2063
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site
Interaction Status: A
Federal Program Identifier: Not reported
Interaction Start Date: 1/1/1900
Interaction End Date: Not reported
prgm_facil: DUWAMISH FILL SITE DOT
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Count: 141 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ALLENTOWN	1005445347	SEATTLE FREIGHT SERVICE INC SR 599	SR 599 & SR 99 N SIDE OF S BOU	98168	RCRA-NonGen, FINDS
KING COUNTY	S108107942	WASTE MOBILE COLLECTIONS	MOVES LOCATIONS (SEE COMMENT F		SWF/LF
KING COUNTY	2010932978	RESIDENTIAL ROADWAY 16639 NORTHUP	RESIDENTIAL ROADWAY 16639 NORT		ERNS
SEATAC	S110037810	SUNSET PARK SOCCER FIELD RENOVATIO	136TH ST BW 16TH & 18TH AVE S	98168	ALLSITES
SEATAC	1007064397	SPU HIGHLINE WELL BOULEVARD PK	SW COR OF 128TH S & 20TH S	98168	FINDS, ALLSITES
SEATTLE	1009628657	10632 SW 1 ST	10632 SW 1 ST		US HIST CDL
SEATTLE	2009923772	SW 104TH THIRD AVE SW	SW 104TH THIRD AVE SW		ERNS
SEATTLE	S110627046	SW SAW & MOWER SRVC	10843RD & 2ND 1ST AVE S	98168	ALLSITES
SEATTLE	96482089	SOUTH 115TH STREET AND E. MARGINAL	SOUTH 115TH STREET AND E. MARG		ERNS
SEATTLE	99608872	SW 122ND AND SHOREWOOD DR SW	SW 122ND AND SHOREWOOD DR SW		ERNS
SEATTLE	1000271347	BERKLEY ENGINEERING CONST	S 124TH ST & HWY 99	98168	RCRA-NonGen, FINDS, ALLSITES
SEATTLE	S107154794	KING COUNTY RIGHT OF WAY	14TH AVE		SPILLS
SEATTLE	S105805988	INTERBAY	15TH AVENUE WEST DRAVUS ST W		SWF/LF
SEATTLE	S104971682	KING COUNTY STREET SWEEPING SITE	16TH AVE S & HWY 518	98168	ALLSITES, CSCSL NFA, VCP
SEATTLE	2007326129	3RD AND LEARY WAY NW	3RD AND LEARY WAY NW		ERNS
SEATTLE	2010931713	47TH AVE SW AND ADMIRAL WAY SW	47TH AVENUE SW AND ADMIRAL WAY		ERNS
SEATTLE	S109865726	MILKY WAY LTI	I 5 SB & 145TH		SPILLS
SEATTLE	2007317562	62ND STREET SW AND ALKI AVENUE	62ND STREET SW AND ALKI AVENUE		ERNS
SEATTLE	8854741	8TH AVE SOUTH & EAST MARGINAL WAY,	8TH AVE SOUTH & EAST MARGINAL		ERNS
SEATTLE	S109556891	AIRPORT WAY DRUM	AIRPORT WAY S & BOEING ACCESS	98168	ALLSITES
SEATTLE	1000199728	AIRPORT WAY DRUM	AIRPORT WAY S & BOEING ACCESS	98168	RCRA-NonGen, FINDS
SEATTLE	974085351	2155 NORTH AKE WAY	2155 NORTH AKE WAY		ERNS
SEATTLE	974085350	2155 NORTH AKE WAY	2155 NORTH AKE WAY		ERNS
SEATTLE	2003708595	801 ALASKA WAY	801 ALASKA WAY		ERNS
SEATTLE	2004742395	1721 ALASKA WAY SOUTH	1721 ALASKA WAY SOUTH		ERNS
SEATTLE	2005610865	801 ALASKA WAY	801 ALASKA WAY		ERNS
SEATTLE	96478578	801 ALASKA WAY PIER 46	801 ALASKA WAY PIER 46		ERNS
SEATTLE	91226203	ALASKA MARINE LINES TERM. DUWAMISH	ALASKA MARINE LINES TERM. DUWA		ERNS
SEATTLE	2006820538	801 ALASKA WAY	801 ALASKA WAY		ERNS
SEATTLE	2000534843	ALASKAN WAY	ALASKAN WAY	0	ERNS
SEATTLE	1012064978	12434 AMBAUM SW BLVD C215	12434 AMBAUM SW BLVD C215		US CDL
SEATTLE	1009628659	12434 SW AMBAUM BLVD APT C215	12434 SW AMBAUM BLVD APT C215		US HIST CDL
SEATTLE	2008861598	35 SW AND SW JUNEAU	35 SW AND SW JUNEAU		ERNS
SEATTLE	S105805998	SICKS STADIUM SITE	E AVE OF RAINIER SOUTH BAY S		SWF/LF
SEATTLE	90191038	244 BLDG ON E. MARGINAL WAY 14TH A	244 BLDG ON E. MARGINAL WAY 14		ERNS
SEATTLE	2005613485	6000 BLOCK OF 50TH STREET, SW	6000 BLOCK OF 50TH STREET, SW		ERNS
SEATTLE	2005618249	3500 BLOCK OF COMMODORE WAY	3500 BLOCK OF COMMODORE WAY		ERNS
SEATTLE	2010954651	4200 BLOCK OF AIRPORT WAY	4200 BLOCK OF AIRPORT WAY		ERNS
SEATTLE	S105805999	SIXTH SOUTH AND SOUTH OF SPOKANE	2900 BLOCKOF SIXTH AVENUE SPOK		SWF/LF
SEATTLE	S105805990	MONTLAKE DISPOSAL SITE	E BLVD OF MONTLAKE OF 45T NE		SWF/LF
SEATTLE	2005613767	2700 COMMADOR WAY	2700 COMMADOR WAY		ERNS
SEATTLE	2007325686	2100 WEST COMMENDOR WAY	2100 WEST COMMENDOR WAY		ERNS
SEATTLE	93330428	5414 DERIDGE WAY S.W.	5414 DERIDGE WAY S.W.		ERNS

Count: 141 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SEATTLE	1001490938	UNOCAL SS NO 6248	11845 DES MOINES WAY S	98168	RCRA-NonGen, FINDS, ALLSITES, UST, MANIFEST, ICR
SEATTLE	S104486117	BURIEN FUEL	14260 DES MOINES MEMORIAL DR	98168	ICR
SEATTLE	S103508190	MCCALL HEATING OIL	11441 DES MOINES MEMORIAL DR	98168	ICR
SEATTLE	1007071079	GLENDALE HEATING & AIR CONDITIONIN	12462 DES MOINES WAY S	98168	FINDS, ALLSITES, UST
SEATTLE	1007069025	GOLD CO	12459 DES MOINES WAY S	98168	FINDS, ALLSITES, UST
SEATTLE	1007075759	JOSEPH B MEDER	12025 DES MOINES WAY S	98168	FINDS, ALLSITES, UST
SEATTLE	1012174210	BOULEVARD PARK/SHELL STATION	12666 DES MOINES MEMORIAL DR	98168	US BROWNFIELDS
SEATTLE	U003028513	UNOCAL 6248	11845 DES MOINES WAY S	98168	LUST
SEATTLE	2003655492	60 DIAGONAL WAY	60 DIAGONAL WAY		ERNS
SEATTLE	99649000	DUWAMISH RIVER NEXT TO TERMINAL 11	DUWAMISH RIVER NEXT TO TERMINA		ERNS
SEATTLE	2010934158	FED CENTER SOUTH 4735 E MARGINAL W	4735 FED CTR E		ERNS
SEATTLE	90179985	FEDERAL WAY TRUCK STOP	FEDERAL WAY TRUCK STOP		ERNS
SEATTLE	90179878	FEDERAL WAY TRUCK STOP.	FEDERAL WAY TRUCK STOP.		ERNS
SEATTLE	2007325150	NORTH GATE WAY	NORTH GATE WAY		ERNS
SEATTLE	91230405	HANFORD ST AND E MARG. WAY SO.	HANFORD ST AND E MARG. WAY SO.		ERNS
SEATTLE	99649809	HARBOR ISLAND PIER 15 / 1711 13TH	HARBOR ISLAND PIER 15 / 1711 1		ERNS
SEATTLE	2010933454	HARBOR ISLAND SHIPPING TERMINAL 24	HBR 11TH AVE SW		ERNS
SEATTLE	2005603509	SOUTH HUDSON ST AND EAST MARGINAL	SOUTH HUDSON ST AND EAST MARGI		ERNS
SEATTLE	876225	INTERSECTION OF 16TH AVE., S. & W.	INTERSECTION OF 16TH AVE., S.		ERNS
SEATTLE	S105805993	SOUTH PARK	KENYON ST S		SWF/LF
SEATTLE	93339622	1001 SW KILICKITAT WAY	1001 SW KILICKITAT WAY		ERNS
SEATTLE	2010958793	1001 KCLICKITAT WAY SW	1001 KCLICKITAT WAY SW		ERNS
SEATTLE	2010961267	1001 KCLICKITAT WAY SW	1001 KCLICKITAT WAY SW		ERNS
SEATTLE	93305883	LAKE UNION SHIP CANAL 400 YDS SW O	LAKE UNION SHIP CANAL 400 YDS		ERNS
SEATTLE	90157698	1101 N. LAKE WAY LAKE UNION WATERW	1101 N. LAKE WAY LAKE UNION WA		ERNS
SEATTLE	99646072	1341 N LAKE WAY	1341 N LAKE WAY		ERNS
SEATTLE	99631610	715 NORTH LAKE WAY LAKE UNION	715 NORTH LAKE WAY LAKE UNION		ERNS
SEATTLE	99647850	LAKE UNION 2555 NORTH LAKE WAY	LAKE UNION 2555 NORTH LAKE WAY		ERNS
SEATTLE	98461869	1652 SW LANDERS ST	1652 SW LANDERS ST		ERNS
SEATTLE	2000669523	LARRY WAY	LARRY WAY		ERNS
SEATTLE	2007317453	EAST MARGINAL WAY	EAST MARGINAL WAY		ERNS
SEATTLE	90182766	WEST MARGINAL WAY INDUSTRIAL DISTR	WEST MARGINAL WAY INDUSTRIAL D		ERNS
SEATTLE	99645535	EAST MARGINAL WAY	EAST MARGINAL WAY		ERNS
SEATTLE	875839	EAST MARGINAL WAY BOEING AIROSPACE	EAST MARGINAL WAY BOEING AIROS		ERNS
SEATTLE	90165320	EAST MARGINAL WAY	EAST MARGINAL WAY		ERNS
SEATTLE	2010935955	8531 E MARGINAL WAY	8531 E MARGINAL WAY		ERNS
SEATTLE	2010931624	FEDERAL CENTER SOUTH 4735 E MARGIN	MARGINAL WAY E		ERNS
SEATTLE	2010961960	2431 EAST MARGINAL WAY	2431 E MARGINAL WAY		ERNS
SEATTLE	2008873925	10013 MARTIN LUTHER KING WAY STOP	10013 MARTIN LUTHER KING WAY S		ERNS
SEATTLE	2008883925	MARTIN LUTHER KING WAY SOUTH	MARTIN LUTHER KING WAY SOUTH		ERNS
SEATTLE	96517614	MARTIN LUTHER KING WAY S AND SOUTH	MARTIN LUTHER KING WAY S AND S		ERNS
SEATTLE	2000550547	1102 SW MASSCHUSETTS ST	1102 SW MASSCHUSETTS ST	0	ERNS
SEATTLE	94451062	NAVAL STATION PUGET SOUND/ 7500 SA	NAVAL STATION PUGET SOUND/ 750		ERNS
SEATTLE	2000543036	NEAR AIRPORT WAY	NEAR AIRPORT WAY	0	ERNS
SEATTLE	99624096	NEAR HOUSE AT 98014 40TH AVE SW	NEAR HOUSE AT 98014 40TH AVE S		ERNS
SEATTLE	2005625523	SOUTH NEVADA ST AND MARGINAL WAY S	SOUTH NEVADA ST AND MARGINAL W		ERNS

Count: 141 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SEATTLE	99643582	NEXT NORTHLAKE WAY	NEXT NORTHLAKE WAY		ERNS
SEATTLE	2005602605	2143 NORTH NORTH LAKE WAY	2143 NORTH NORTH LAKE WAY		ERNS
SEATTLE	2000518342	1441 N NORTH LAKE WAY	1441 N NORTH LAKE WAY	0	ERNS
SEATTLE	2004713493	205 NORTHEAST NORTH LAKE WAY	205 NORTHEAST NORTH LAKE WAY		ERNS
SEATTLE	99631638	715 NE NORTH LAKE WAY DOCK ON LAKE	715 NE NORTH LAKE WAY DOCK ON		ERNS
SEATTLE	2004728603	303 NE NORTH LAKE WAY	303 NE NORTH LAKE WAY		ERNS
SEATTLE	2001567886	303 NORTHEAST NORTH LAKE WAY	303 NORTHEAST NORTH LAKE WAY	0	ERNS
SEATTLE	93343142	303 NE NORTH LAKE WAY	303 NE NORTH LAKE WAY		ERNS
SEATTLE	2010963015	303 NE NORTH LAKE WAY	303 NE NORTH LAKE WAY		ERNS
SEATTLE	S109865923	1711 13TH AVE SW	N OF HARBOR IS		SPILLS
SEATTLE	S105805989	GENESEE LANDFILL	N OF SOUTH ALASKA STREET TO LA		SWF/LF
SEATTLE	S105805991	NORTH AURORA DISPOSAL SITE	E OF STONE AVE S		SWF/LF
SEATTLE	S105805992	WEST SEATTLE - HARBOR AVENUE	E OF HARBOR AVE SW		SWF/LF
SEATTLE	S105805995	JUDKINS STREET DISPOSAL SITE	W OF 22ND AVE S		SWF/LF
SEATTLE	S105805997	RAINIER LANDFILL	E OF RAINIER AVE S		SWF/LF
SEATTLE	S105805994	GREEN LAKE LANDFILL SITE	N PERIMETER OF GREEN LAKE		SWF/LF
SEATTLE	90182752	PERKINS WAY ON 23RD AVE. NE	PERKINS WAY ON 23RD AVE. NE		ERNS
SEATTLE	97411026	PIER 50 / ALASKAN WAY NEXT TO PIER	PIER 50 / ALASKAN WAY NEXT TO		ERNS
SEATTLE	93333595	PIER 15 PETROLEUM DOCK 1711 13TH S	PIER 15 PETROLEUM DOCK 1711 13		ERNS
SEATTLE	2005609993	PIER 69 ALASKAN WAY	PIER 69 ALASKAN WAY		ERNS
SEATTLE	91220881	PIER 52 801 ALASKAN WAY	PIER 52 801 ALASKAN WAY		ERNS
SEATTLE	99632994	PIER 46 ON ALASKAN WAY	PIER 46 ON ALASKAN WAY		ERNS
SEATTLE	99632087	PIER 15 13TH AVE SW	PIER 15 13TH AVE SW		ERNS
SEATTLE	2009923724	ROYAL BROUGHAM WAY	ROYAL BROUGHAM WAY		ERNS
SEATTLE	2003653269	ROYAL BROHAM WAY	ROYAL BROHAM WAY		ERNS
SEATTLE	2009925498	7600 SAN POINT WAY NE	7600 SAN POINT WAY NE		ERNS
SEATTLE	2009919883	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2009912478	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2009912371	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2009921201	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2009921200	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2009915137	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2009913066	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2009920613	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2009927178	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2009922401	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2008913066	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2008912478	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2008912371	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	2008915137	7001 SEAVIEW AVENUE SW	7001 SEAVIEW AVENUE SW		ERNS
SEATTLE	92266720	SHIP CANAL WEST COMMODORE WAY	SHIP CANAL WEST COMMODORE WAY		ERNS
SEATTLE	2007331355	SW SIDE OF GREEN LAKE	SW SIDE OF GREEN LAKE		ERNS
SEATTLE	92292153	SLIP 4 DUWAMISH RIVER, JUST OFF E.	SLIP 4 DUWAMISH RIVER, JUST OF		ERNS
SEATTLE	1012064724	9633 28 SW AVE	9633 28 SW AVE		US CDL
SEATTLE	94378500	TERMINAL 25 3225 EAST MARGINAL WAY	TERMINAL 25 3225 EAST MARGINAL		ERNS
SEATTLE	2004719314	THE WEST WATER WAY	THE WEST WATER WAY		ERNS
SEATTLE	99624118	SW THISTLE STREET	SW THISTLE STREET		ERNS

Count: 141 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SEATTLE	S109886465	LTI INCORP. TRUCKING / MILKY WAY /	UNDER S		SPILLS
SEATTLE	S105805996	WASHINGTON PARK LANDFILL SITE	UNIVERSITY OF WASHINGTON ARBOR		SWF/LF
SEATTLE	2000669108	VERSITY WAY	VERSITY WAY		ERNS
SEATTLE	2000671079	WAY	WAY		ERNS
TUKWILA	S110688665	CHEVRON STA 6009 3099	10805 E MARGINAL WAY	98168	CSCSL

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: 12/31/2010	Source: EPA
Date Data Arrived at EDR: 01/13/2011	Telephone: N/A
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 04/13/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 07/25/2011
	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: 12/31/2010	Source: EPA
Date Data Arrived at EDR: 01/13/2011	Telephone: N/A
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 04/13/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 07/25/2011
	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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 02/14/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 05/30/2011
	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: 12/31/2010	Source: EPA
Date Data Arrived at EDR: 01/13/2011	Telephone: N/A
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 04/13/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 07/25/2011
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS 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.

Date of Government Version: 11/30/2010	Source: EPA
Date Data Arrived at EDR: 12/30/2010	Telephone: 703-412-9810
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 03/01/2011
Number of Days to Update: 57	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Quarterly

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's Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 04/15/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/25/2011
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 10/28/2010	Source: EPA
Date Data Arrived at EDR: 12/01/2010	Telephone: 703-412-9810
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 03/01/2011
Number of Days to Update: 86	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/25/2010
Date Data Arrived at EDR: 06/02/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 124

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

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: 01/05/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 03/14/2011
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/27/2011
	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: 01/05/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 03/14/2011
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/27/2011
	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: 12/31/2010	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/07/2011	Telephone: 202-267-2180
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 04/05/2011
Number of Days to Update: 73	Next Scheduled EDR Contact: 07/18/2011
	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: 03/01/2011	Source: Department of Ecology
Date Data Arrived at EDR: 03/18/2011	Telephone: 360-407-7200
Date Made Active in Reports: 03/30/2011	Last EDR Contact: 03/15/2011
Number of Days to Update: 12	Next Scheduled EDR Contact: 06/27/2011
	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: 01/25/2011	Source: Department of Ecology
Date Data Arrived at EDR: 01/26/2011	Telephone: 360-407-7200
Date Made Active in Reports: 02/18/2011	Last EDR Contact: 04/27/2011
Number of Days to Update: 23	Next Scheduled EDR Contact: 08/08/2011
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/14/2010	Source: Department of Ecology
Date Data Arrived at EDR: 12/15/2010	Telephone: 360-407-6132
Date Made Active in Reports: 12/23/2010	Last EDR Contact: 03/14/2011
Number of Days to Update: 8	Next Scheduled EDR Contact: 06/27/2011
	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: 02/23/2011	Source: Department of Ecology
Date Data Arrived at EDR: 02/24/2011	Telephone: 360-407-7183
Date Made Active in Reports: 03/18/2011	Last EDR Contact: 02/24/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/06/2011
	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: 01/31/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/01/2011	Telephone: 415-972-3372
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 48	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/27/2010	Source: EPA Region 4
Date Data Arrived at EDR: 08/30/2010	Telephone: 404-562-8677
Date Made Active in Reports: 10/04/2010	Last EDR Contact: 02/16/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/03/2011	Source: EPA Region 10
Date Data Arrived at EDR: 02/04/2011	Telephone: 206-553-2857
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 45	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Quarterly

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: 09/01/2010	Source: EPA Region 1
Date Data Arrived at EDR: 11/05/2010	Telephone: 617-918-1313
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 02/03/2011
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 02/03/2011	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2011	Telephone: 214-665-6597
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 45	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009	Source: EPA Region 7
Date Data Arrived at EDR: 05/04/2010	Telephone: 913-551-7003
Date Made Active in Reports: 07/07/2010	Last EDR Contact: 05/04/2010
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/16/2011
	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: 02/04/2011	Source: EPA Region 8
Date Data Arrived at EDR: 02/04/2011	Telephone: 303-312-6271
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 45	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Quarterly

State and tribal registered storage tank lists

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: 02/23/2011	Source: Department of Ecology
Date Data Arrived at EDR: 02/24/2011	Telephone: 360-407-7183
Date Made Active in Reports: 03/18/2011	Last EDR Contact: 02/24/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/06/2011
	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: 05/27/2009	Source: Department of Ecology
Date Data Arrived at EDR: 05/28/2009	Telephone: 360-407-7562
Date Made Active in Reports: 06/19/2009	Last EDR Contact: 02/07/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 05/23/2011
	Data Release Frequency: Varies

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: 08/27/2010	Source: EPA Region 4
Date Data Arrived at EDR: 08/30/2010	Telephone: 404-562-9424
Date Made Active in Reports: 10/04/2010	Last EDR Contact: 02/16/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/31/2011	Source: EPA Region 9
Date Data Arrived at EDR: 02/01/2011	Telephone: 415-972-3368
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 48	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Quarterly

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: 02/04/2011	Source: EPA Region 8
Date Data Arrived at EDR: 02/04/2011	Telephone: 303-312-6137
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 45	Next Scheduled EDR Contact: 05/16/2011
	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: 02/03/2011	Source: EPA Region 10
Date Data Arrived at EDR: 02/04/2011	Telephone: 206-553-2857
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 45	Next Scheduled EDR Contact: 05/16/2011
	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: 09/01/2010	Source: EPA, Region 1
Date Data Arrived at EDR: 11/05/2010	Telephone: 617-918-1313
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 02/03/2011
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/16/2011
	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: 02/11/2010	Source: EPA Region 5
Date Data Arrived at EDR: 02/11/2010	Telephone: 312-886-6136
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 01/31/2011
Number of Days to Update: 60	Next Scheduled EDR Contact: 05/16/2011
	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: 02/03/2011	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2011	Telephone: 214-665-7591
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 01/31/2011
Number of Days to Update: 45	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/01/2010	Source: EPA Region 7
Date Data Arrived at EDR: 12/02/2010	Telephone: 913-551-7003
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 02/03/2011
Number of Days to Update: 57	Next Scheduled EDR Contact: 05/16/2011
	Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/18/2011
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/01/2011
	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: 02/15/2011	Source: Department of Ecology
Date Data Arrived at EDR: 02/18/2011	Telephone: 360-407-7170
Date Made Active in Reports: 02/24/2011	Last EDR Contact: 02/18/2011
Number of Days to Update: 6	Next Scheduled EDR Contact: 05/30/2011
	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: 09/01/2010	Source: EPA, Region 1
Date Data Arrived at EDR: 01/05/2011	Telephone: 617-918-1102
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 04/05/2011
Number of Days to Update: 75	Next Scheduled EDR Contact: 07/18/2011
	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: 01/25/2011	Source: Department of Ecology
Date Data Arrived at EDR: 02/03/2011	Telephone: 360-407-7200
Date Made Active in Reports: 02/18/2011	Last EDR Contact: 04/26/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 08/08/2011
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/25/2011

Date Data Arrived at EDR: 01/26/2011

Date Made Active in Reports: 02/18/2011

Number of Days to Update: 23

Source: Department of Ecology

Telephone: 360-725-4030

Last EDR Contact: 04/27/2011

Next Scheduled EDR Contact: 08/08/2011

Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 12/29/2010

Date Data Arrived at EDR: 12/30/2010

Date Made Active in Reports: 03/21/2011

Number of Days to Update: 81

Source: Environmental Protection Agency

Telephone: 202-566-2777

Last EDR Contact: 03/29/2011

Next Scheduled EDR Contact: 07/11/2011

Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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: 03/28/2011

Next Scheduled EDR Contact: 07/11/2011

Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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: 03/16/2011
Next Scheduled EDR Contact: 06/27/2011
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: 02/08/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

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: 12/03/2010
Date Data Arrived at EDR: 12/30/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 48

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/08/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Quarterly

ALLSITES: Facility/Site Identification System Listing

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

Date of Government Version: 02/08/2011
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 02/24/2011
Number of Days to Update: 15

Source: Department of Ecology
Telephone: 360-407-6423
Last EDR Contact: 02/08/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Quarterly

CSCSL NFA: Confirmed and Contaminated Sites - No Further Action

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/25/2011
Date Data Arrived at EDR: 01/26/2011
Date Made Active in Reports: 02/18/2011
Number of Days to Update: 23

Source: Department of Ecology
Telephone: 360-407-7170
Last EDR Contact: 04/27/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Semi-Annually

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: 02/09/2009
Date Data Arrived at EDR: 03/18/2009
Date Made Active in Reports: 03/24/2009
Number of Days to Update: 6

Source: Department of Health
Telephone: 360-236-3380
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
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

US HIST CDL: National Clandestine Laboratory Register

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: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

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: 11/09/2010
Date Data Arrived at EDR: 11/16/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

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: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2010	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/05/2011	Telephone: 202-366-4555
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 04/05/2011
Number of Days to Update: 51	Next Scheduled EDR Contact: 07/18/2011
	Data Release Frequency: Annually

SPILLS: Reported Spills

Spills reported to the Spill Prevention, Preparedness and Response Division.

Date of Government Version: 01/03/2011	Source: Department of Ecology
Date Data Arrived at EDR: 01/04/2011	Telephone: 360-407-6950
Date Made Active in Reports: 02/18/2011	Last EDR Contact: 03/28/2011
Number of Days to Update: 45	Next Scheduled EDR Contact: 06/27/2011
	Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA-NonGen: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/17/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/19/2010	Telephone: (206) 553-1200
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 04/05/2011
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/18/2011
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/13/2010	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-366-4595
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 02/11/2011
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/23/2011
	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	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 703-692-8801
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/21/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 08/01/2011
	Data Release Frequency: Semi-Annually

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: 12/31/2009	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 08/12/2010	Telephone: 202-528-4285
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 03/15/2011
Number of Days to Update: 112	Next Scheduled EDR Contact: 06/27/2011
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/01/2010	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 10/29/2010	Telephone: Varies
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 04/04/2011
Number of Days to Update: 91	Next Scheduled EDR Contact: 07/18/2011
	Data Release Frequency: Varies

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: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/16/2011	Telephone: 703-416-0223
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 03/16/2011
Number of Days to Update: 5	Next Scheduled EDR Contact: 06/27/2011
	Data Release Frequency: Annually

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	Source: Department of Energy
Date Data Arrived at EDR: 10/21/2010	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 03/04/2011
Number of Days to Update: 99	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Varies

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: 08/04/2010	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/09/2010	Telephone: 303-231-5959
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 03/09/2011
Number of Days to Update: 84	Next Scheduled EDR Contact: 06/20/2011
	Data Release Frequency: Semi-Annually

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: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/17/2010	Telephone: 202-566-0250
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 03/01/2011
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/13/2011
	Data Release Frequency: Annually

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: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 09/29/2010	Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 03/29/2011
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/11/2011
	Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
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: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
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

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: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/21/2011	Telephone: 202-564-5088
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 03/28/2011
Number of Days to Update: 59	Next Scheduled EDR Contact: 07/11/2011
	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: 11/01/2010	Source: EPA
Date Data Arrived at EDR: 11/10/2010	Telephone: 202-566-0500
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 04/22/2011
Number of Days to Update: 98	Next Scheduled EDR Contact: 08/01/2011
	Data Release Frequency: Annually

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: 03/18/2010	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/06/2010	Telephone: 301-415-7169
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 03/14/2011
Number of Days to Update: 51	Next Scheduled EDR Contact: 06/27/2011
	Data Release Frequency: Quarterly

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: 01/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/13/2011	Telephone: 202-343-9775
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 04/13/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/25/2011
	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: 04/14/2010	Source: EPA
Date Data Arrived at EDR: 04/16/2010	Telephone: (206) 553-1200
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 03/14/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 06/27/2011
	Data Release Frequency: Quarterly

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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: 12/31/2007
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 05/12/2010
Number of Days to Update: 76

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Biennially

UIC: Underground Injection Wells Listing

A listing of underground injection wells.

Date of Government Version: 02/23/2011
Date Data Arrived at EDR: 02/24/2011
Date Made Active in Reports: 03/18/2011
Number of Days to Update: 22

Source: Department of Ecology
Telephone: 360-407-6143
Last EDR Contact: 02/24/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

WA MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 05/13/2010
Date Made Active in Reports: 05/19/2010
Number of Days to Update: 6

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Annually

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: 12/31/2009
Date Data Arrived at EDR: 05/13/2010
Date Made Active in Reports: 05/19/2010
Number of Days to Update: 6

Source: Department of Ecology
Telephone: 360-407-6732
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Varies

NPDES: Water Quality Permit System Data

A listing of permitted wastewater facilities.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/18/2011
Date Made Active in Reports: 04/07/2011
Number of Days to Update: 48

Source: Department of Ecology
Telephone: 360-407-6073
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Quarterly

AIRS (EMI): Washington Emissions Data System Emissions inventory data.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 01/11/2011
Date Made Active in Reports: 02/23/2011
Number of Days to Update: 43

Source: Department of Ecology
Telephone: 360-407-6040
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INACTIVE DRYCLEANERS: Inactive Drycleaners

A listing of inactive drycleaner facility locations.

Date of Government Version: 12/31/2009	Source: Department of Ecology
Date Data Arrived at EDR: 05/13/2010	Telephone: 360-407-6732
Date Made Active in Reports: 05/19/2010	Last EDR Contact: 04/25/2011
Number of Days to Update: 6	Next Scheduled EDR Contact: 08/08/2011
	Data Release Frequency: Annually

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: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/21/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/01/2011
	Data Release Frequency: Semi-Annually

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: 08/31/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/01/2010	Telephone: 615-532-8599
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 04/25/2011
Number of Days to Update: 92	Next Scheduled EDR Contact: 08/08/2011
	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	Source: Department of Ecology
Date Data Arrived at EDR: 03/06/2007	Telephone: 360-407-6136
Date Made Active in Reports: 04/19/2007	Last EDR Contact: 03/24/2011
Number of Days to Update: 44	Next Scheduled EDR Contact: 06/06/2011
	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: 02/22/2011	Source: Department of Ecology
Date Data Arrived at EDR: 03/02/2011	Telephone: 360-586-1060
Date Made Active in Reports: 03/18/2011	Last EDR Contact: 02/22/2011
Number of Days to Update: 16	Next Scheduled EDR Contact: 06/06/2011
	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: 11/29/2010	Source: Department of Ecology
Date Data Arrived at EDR: 11/30/2010	Telephone: 360-407-6754
Date Made Active in Reports: 12/23/2010	Last EDR Contact: 02/22/2011
Number of Days to Update: 23	Next Scheduled EDR Contact: 06/06/2011
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 06/29/2009

Date Data Arrived at EDR: 07/02/2009

Date Made Active in Reports: 07/08/2009

Number of Days to Update: 6

Source: Department of Ecology

Telephone: 360-407-6933

Last EDR Contact: 03/14/2011

Next Scheduled EDR Contact: 06/27/2011

Data Release Frequency: Varies

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: 04/19/2011

Next Scheduled EDR Contact: 08/01/2011

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: 08/17/2010

Date Data Arrived at EDR: 01/03/2011

Date Made Active in Reports: 03/21/2011

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 03/18/2011

Next Scheduled EDR Contact: 06/27/2011

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: 01/01/2008

Date Data Arrived at EDR: 02/18/2009

Date Made Active in Reports: 05/29/2009

Number of Days to Update: 100

Source: Environmental Protection Agency

Telephone: 202-566-0517

Last EDR Contact: 02/04/2011

Next Scheduled EDR Contact: 05/16/2011

Data Release Frequency: Varies

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: 04/21/2011

Next Scheduled EDR Contact: 08/01/2011

Data Release Frequency: N/A

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Historical Auto Stations: EDR Proprietary 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.

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 Historical Cleaners: EDR Proprietary 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.

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

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:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/01/2008
Date Data Arrived at EDR: 01/30/2009
Date Made Active in Reports: 03/24/2009
Number of Days to Update: 33

Source: Snohomish Health District
Telephone: 206-339-5250
Last EDR Contact: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
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: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/25/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Annually

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/09/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/06/2011
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Daycare Centers: Daycare Center Listing
Source: Department of Social & Health Services
Telephone: 253-383-1735

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

12807 DES MOINES WAY, SW
12807 DES MOINES WAY, SW
SEATTLE, WA 98168

TARGET PROPERTY COORDINATES

Latitude (North):	47.48830 - 47° 29' 17.9"
Longitude (West):	122.3121 - 122° 18' 43.6"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	551821.1
UTM Y (Meters):	5259440.0
Elevation:	375 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	47122-D3 DES MOINES, WA
Most Recent Revision:	1995
North Map:	47122-E3 SEATTLE SOUTH, WA
Most Recent Revision:	1983

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 principle 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).

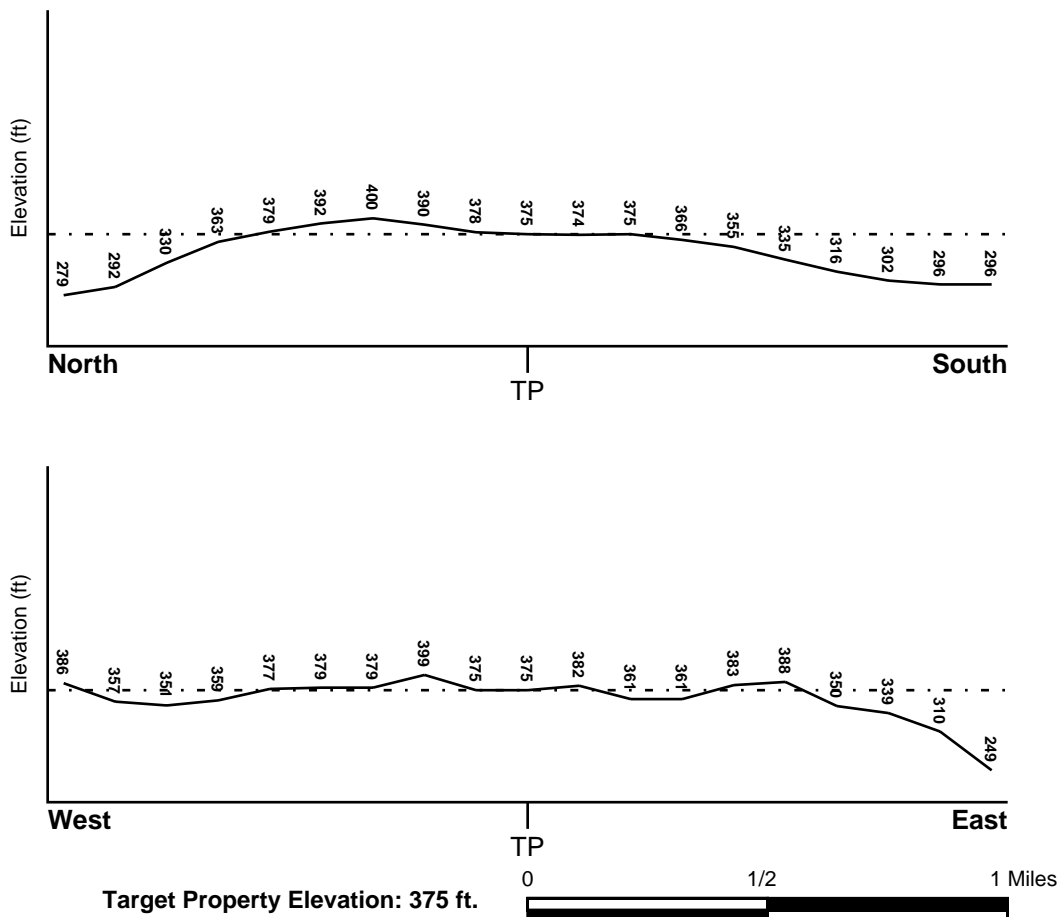
TOPOGRAPHIC INFORMATION

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 ESE

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

Target Property County
KING, WA

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 53033C0960F - FEMA Q3 Flood data

Additional Panels in search area:
53033C0645F - FEMA Q3 Flood data
53033C0640F - FEMA Q3 Flood data
53033C0955F - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
DES MOINES

NWI Electronic
Data Coverage
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
Location Relative to TP:	1/4 - 1/2 Mile South
Site Name:	SUNSET PARK - TUB LAKE SITE
Site EPA ID Number:	WAD980664817
Groundwater Flow Direction:	S
Inferred Depth to Water:	10 feet to 25 feet
Hydraulic Connection:	Information is not available about the hydraulic connection between aquifer(s) underlying the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

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.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

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: Stratified 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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

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. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 6.00 Min: 2.00	Max: 6.50 Min: 5.10
2	7 inches	35 inches	very gravelly - 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: 6.00 Min: 2.00	Max: 6.50 Min: 5.10
3	35 inches	39 inches	cemented	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
very gravelly - sandy loam

Surficial Soil Types: silt loam
very gravelly - sandy loam

Shallow Soil Types: very gravelly - loam

Deeper Soil Types: very gravelly - coarse sand
stratified
very gravelly - loamy sand
very gravelly - sand

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS3276414	1/8 - 1/4 Mile East
A2	USGS3276417	1/8 - 1/4 Mile East
A3	USGS3276428	1/8 - 1/4 Mile East
B7	USGS3276308	1/2 - 1 Mile SE
B8	USGS3276307	1/2 - 1 Mile SE
B9	USGS3276306	1/2 - 1 Mile SE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

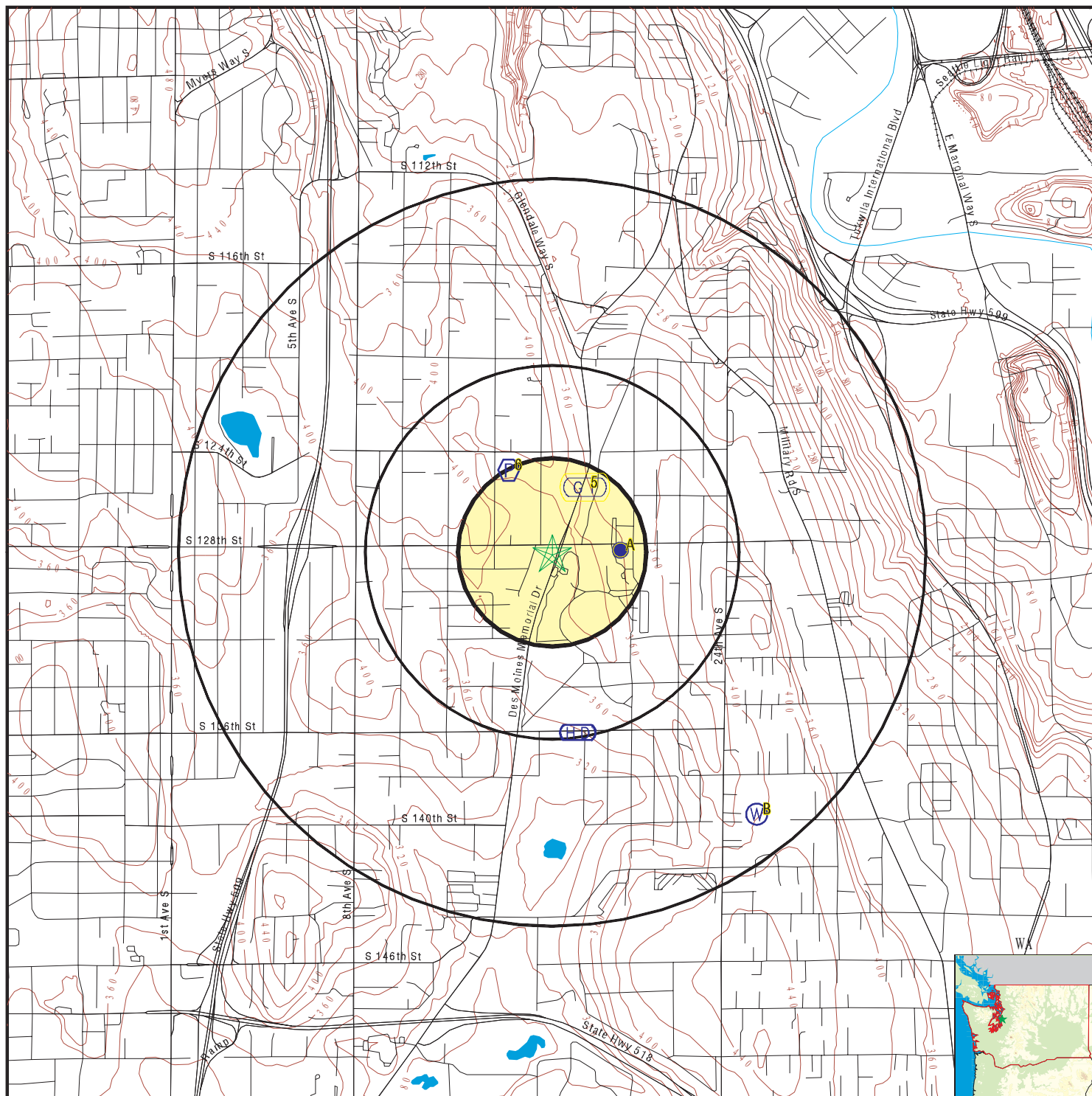
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
6	WA5301820	1/8 - 1/4 Mile NNW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A4	WA7000000012344	1/8 - 1/4 Mile East

PHYSICAL SETTING SOURCE MAP - 3055793.2s



- 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
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data

SITE NAME: 12807 Des Moines Way, SW
 ADDRESS: 12807 Des Moines Way, SW
 Seattle WA 98168
 LAT/LONG: 47.4883 / 122.3121

CLIENT: Property Solutions, Inc.
 CONTACT: Greg Hillebrand
 INQUIRY #: 3055793.2s
 DATE: April 29, 2011 12:51 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
East
1/8 - 1/4 Mile
Lower

FED USGS USGS3276414

Agency cd:	USGS	Site no:	472918122182601
Site name:	23N/04E-16D01		
Latitude:	472918	EDR Site id:	USGS3276414
Longitude:	1221826	Dec lat:	47.48815468
Dec lon:	-122.30845747	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	033
Country:	US	Land net:	NW NW S16 T23N R04E W
Location map:	DES MOINES	Map scale:	24000
Altitude:	365		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19850325
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	300	Hole depth:	300.5
Source of depth data:	other reported		
Project number:	WA31800		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1986-11-13	Ground water data end date:	1987-04-07
Ground water data count:	2		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-04-07	79.92		1986-11-13	81	

A2
East
1/8 - 1/4 Mile
Lower

FED USGS USGS3276417

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	472919122182501
Site name:	23N/04E-16D02		
Latitude:	472919	EDR Site id:	USGS3276417
Longitude:	1221825	Dec lat:	47.48843246
Dec lon:	-122.30817968	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	033
Country:	US	Land net:	NW NW S16 T23N R04E W
Location map:	DES MOINES	Map scale:	24000
Altitude:	365		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19850325
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	75	Hole depth:	75
Source of depth data:	other reported		
Project number:	WA31800		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1987-11-06
Water quality data end date:	1987-11-06	Water quality data count:	1
Ground water data begin date:	1986-11-13	Ground water data end date:	1987-04-07
Ground water data count:	2		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-04-07	61.0		1986-11-13	61	

A3
East
1/8 - 1/4 Mile
Lower

FED USGS USGS3276428

Agency cd:	USGS	Site no:	472920122182501
Site name:	23N/04E-16D03		
Latitude:	472920	EDR Site id:	USGS3276428
Longitude:	1221825	Dec lat:	47.48871023
Dec lon:	-122.30817969	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	033
Country:	US	Land net:	NW NW S16 T23N R04E W
Location map:	DES MOINES	Map scale:	24000
Altitude:	360		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19850627
Date inventoried:	19871109	Mean greenwich time offset:	PST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	297	Hole depth:	297
Source of depth data:	geologist		
Project number:	WA31800		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1987-11-06
Water quality data end date:	1987-11-06	Water quality data count:	2
Ground water data begin date:	1985-07-23	Ground water data end date:	1985-07-23
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1985-07-23	76	

A4
East
1/8 - 1/4 Mile
Lower

WA WELLS WA7000000012344

Objectid:	13006	Pwsid:	77050
Srcnum:	04	Pwssrcid:	7705004
Systemname:	SEATTLE PUBLIC UTILITIES		
Systemgrou:	A		
Systemtype:	Comm	Region:	NW
County:	KING	Smaid:	Not Reported
Ftrespoul:	654500	Resconnect:	169992
Totalconne:	183452	Srcname:	BOULEVARD
Srctype:	W	Srcusecode:	S
Srcwelldep:	293	Township:	23
Range:	04E	Section:	16
Qtrqtrsect:	NWNW		
Longitude:	-122.307961		
Latitude:	47.488261		
Latlongmet:	GPS	Srctot1yr:	770
Srctot6mo:	540	Srctot10yr:	2430
Srctot5yr:	1720	Pricontact:	2066840221
Protection:	Model	Pricontact 2:	PO BOX 34018
Pricontact 1:	Not Reported	Pricontact 4:	WA
Pricontact 3:	SEATTLE		
Pricontact 5:	981244018		
Pricontact 6:	bill.wells@seattle.gov		
Pwseffecti:	01/01/1970	Srceffecti:	01/01/1970
Internalon:	N	Site id:	WA7000000012344

5
NNE
1/8 - 1/4 Mile
Lower

Site ID:	1532
Groundwater Flow:	Not Reported
Shallowest Water Table Depth:	18
Deepest Water Table Depth:	59
Average Water Table Depth:	Not Reported
Date:	06/08/1991

AQUIFLOW 61165

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

6

NNW

1/8 - 1/4 Mile

Higher

FRDS PWS

WA5301820

PWS ID: WA5301820
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: ALPENTAL SKI AREA
SNOQUALMIE PASS, WA 98068

Addressee / Facility: Not Reported

Facility Latitude: 47 29 30 Facility Longitude: 122 18 48
City Served: Not Reported
Treatment Class: Treated Population: 1288

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name:	ALPENTAL SKI AREA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1997-01-01 - 2015-12-31		
Violation ID:	9700001		
Enforcement Date:	1998-04-17	Enf. Action:	Fed Violation/Reminder Notice
System Name:	ALPENTAL SKI AREA		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1998-09-01 - 1998-09-30		
Violation ID:	98000141		
Enforcement Date:	1998-09-30	Enf. Action:	State Violation/Reminder Notice
System Name:	ALPENTAL SKI AREA		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1998-09-01 - 1998-09-30		
Violation ID:	98075121		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	ALPENTAL SKI AREA		
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:	ALPENTAL SKI AREA		
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:	1998-04-17	Enf. Action:	Fed Violation/Reminder Notice
System Name:	ALPENTAL SKI AREA		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1999-02-01 - 1999-02-28		
Violation ID:	9950215		
Enforcement Date:	1999-02-28	Enf. Action:	State Violation/Reminder Notice

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

B7
SE
1/2 - 1 Mile
Higher

FED USGS USGS3276308

Agency cd:	USGS	Site no:	472842122175801
Site name:	23N/04E-16K01		
Latitude:	472842	EDR Site id:	USGS3276308
Longitude:	1221758	Dec lat:	47.47815478
Dec lon:	-122.30067933	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	033
Country:	US	Land net:	NW SE S16 T23N R04E W
Location map:	DES MOINES	Map scale:	24000
Altitude:	390		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19850409
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	109	Hole depth:	109
Source of depth data:	other reported		
Project number:	WA31800		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1986-11-13	Ground water data end date:	1987-04-07
Ground water data count:	2		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-04-07	94.8		1986-11-13	84	

B8
SE
1/2 - 1 Mile
Higher

FED USGS USGS3276307

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	472842122175701
Site name:	23N/04E-16K02		
Latitude:	472842	EDR Site id:	USGS3276307
Longitude:	1221757	Dec lat:	47.47815478
Dec lon:	-122.30040154	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	033
Country:	US	Land net:	NW SE S16 T23N R04E W
Location map:	DES MOINES	Map scale:	24000
Altitude:	390		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19850409
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	320	Hole depth:	729
Source of depth data:	other reported		
Project number:	WA31800		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1986-11-13	Ground water data end date:	1987-04-07
Ground water data count:	2		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-04-07	119.57		1986-11-13	120	

**B9
SE
1/2 - 1 Mile
Higher**

FED USGS USGS3276306

Agency cd:	USGS	Site no:	472842122175601
Site name:	23N/04E-16K03		
Latitude:	472842	EDR Site id:	USGS3276306
Longitude:	1221756	Dec lat:	47.47815479
Dec lon:	-122.30012376	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	033
Country:	US	Land net:	NW SE S16 T23N R04E W
Location map:	DES MOINES	Map scale:	24000
Altitude:	390		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Puget Sound. Washington. Area = 2550 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19850409
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	523	Hole depth:	729
Source of depth data:	other reported		
Project number:	WA31800		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1986-11-13	Ground water data end date:	1987-04-07
Ground water data count:	2		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-04-07	162.8		1986-11-13	162	

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: 98168

Number of sites tested: 2

<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
Living Area - 1st Floor	0.000 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

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.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

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 Services

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 Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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: 360-902-1445

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Property Solutions^{INC.}

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September 2, 2011

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**RE: Washington Department of Ecology File Review
Pacific Convenience & Fuel Station 1-284
12807 Des Moines Way SW
Seattle, King County, Washington, 98168
BOA Project Number – 11-004210-ENV02-031
Property Solutions Project No. 20113367**

Dear Ms. Quillinan:

Property Solutions appreciates the opportunity to provide you with this file review letter regarding the above-referenced property. This file review letter is based upon the conclusions and recommendations of our draft Phase I Environmental Assessment (EA) report (Project Number 20112160) prepared for the subject property and dated June 24, 2011.

Our Phase I EA report revealed the following:

Recognized Environmental Conditions

- (1) The subject property has operated as a gasoline filling station since development of the current improvements in 1966. Based on review of the environmental database report, the subject property is listed in the underground storage tank (UST), leaking UST (LUST), and ICR databases. A release was reportedly identified during removal of five former USTs in 1990 and 1991 and soil has been impacted with gasoline, diesel, waste oil, and PCB constituents. The current status is listed as “cleanup started”. The on-going operations and open LUST case pose an environmental concern to the subject property and are considered a recognized environmental condition.

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The following is a review of documents provided to Property Solutions from the Washington Department of Ecology (DOE/Ecology). These documents are reviewed below.

Section 1: Previous Environmental Investigation Reports

Complete Report Name	<u>Report of Geotechnical Services Subsurface Soil Explorations and Remediation (GSSSER)</u>
Report Date	April 28, 1993
Report Project Number	1957-009-R04/042893
Report Property Name	Jackpot Food Mart Property No. 01-284
Report Property Address	12807 Des Moines Way South, Seattle, Washington
Prepared by	GeoEngineers
Consultant City & State Location	Redmond, Washington
Prepared for	Time Oil Company
Party City & State Location	Seattle, Washington
Report Provided by	Washington Department of Ecology (DOE/Ecology)
The entire report including appendices was provided.	
The boundaries discussed in this report are identical to those of the subject property identified by Property Solutions.	
Report and Subject Property Variations: None apparent	
Information/Portions of Report not Included with Report: None apparent	

Scope of Services Performed Per Report:

The purpose of the services described in this report was to 1) conduct a VES (vapor extraction system) test and monitor combustible vapor concentrations vented from the former gasoline UST excavation; 2) monitor the excavation of additional contaminated soil from the vicinity of the former heating oil and waste oil USTs; 3) observe and document subsurface soil conditions in soil borings completed in the vicinity of the former gasoline USTs, and 4) observe and document subsurface soil conditions in onsite and offsite soil borings completed to assess the extent of contamination associated with the heating oil and waste oil tanks.

The scope of work (SOW) included specification of 20 steps to achieve the four issues outlined above.

Findings/Conclusions as Reported by Report Preparer:

GeoEngineers drew the following conclusions, based on the information gathered during the investigation:

- Regional ground water in the area of the site occurs at depths between 60 and 100 feet below ground surface (bgs), based on a review of ground water well logs. Perched water encountered in the remedial excavation appears to be from surface water runoff entering the former excavation backfill.
- Concentrations of combustible vapors measured in the exhaust stack during the vapor extraction test of the former gasoline UST area decreased to half the initial concentrations over a period of approximately one month.
- Gasoline and benzene, ethylbenzene, toluene and xylenes (BTEX) contamination detected in the soil samples collected by Time Oil in the area of boring B-3 appears to have been mitigated during the vent test.

- Approximately 920 cubic yards of petroleum-contaminated soil were removed from the area of the former waste oil and heating oil tanks. The soil was transported to the Woodworth & Company Facility in Tacoma, Washington for incorporation into asphaltic concrete.
- Residual petroleum-contaminated soil remains beneath the western portion of the Food Mart building and to the south and east of the adjacent remedial excavation. The petroleum in the soil was quantified as oil-range and gasoline-range hydrocarbons. Evaluation of the chromatogram for the gasoline-range hydrocarbons indicates that the petroleum is probably either degraded gasoline or Stoddard-type solvent. This type of solvent is often used to clean automobile parts during servicing.
- Gasoline range hydrocarbons detected in soil samples from B-1 and B-7 appear to be either degraded gasoline or a Stoddard-type solvent. The hydrocarbons appear to occur in a unit of dense, fine to medium sand at depths between 26 feet and 46 feet bgs.
- Diesel range hydrocarbons reported in soil samples from B-1 are attributed to overlap from the gasoline-range portion of the chromatogram. Hydrocarbons related to a release of diesel were not detected at this site.
- The results of the grain-size analysis, performed on sample of fine to medium sand that contains the major portion of the residual hydrocarbons, indicates that the sand is moderately permeable to air. Vapor extraction may be a feasible option for in-situ removal of the gasoline-range contaminants.
- In-situ remediation of oil-range hydrocarbons is not a practical option for this site using current technologies.

Recommendations as Reported by Report Preparer:

GeoEngineers made the following recommendations, based on the information gathered during the investigation:

- Evaluate the use of vapor extraction for remediation of gasoline-range hydrocarbons. Conduct and in-situ air permeability test using VP-1 and VP-7 to evaluate the effective radius of influence for these extraction wells. GeoEngineers recommended that this be completed prior to conducting additional subsurface explorations.
- Evaluate the possible use of Ecology's (DOE) Petroleum-Contaminated Soils Rating Matrix at this site, particularly as this may relate to oil-range hydrocarbons that are not amenable to in-situ treatment.
- Investigate actual depth to ground water beneath the site and obtain a sample or samples of the ground water to verify that it has not been affected by petroleum-related contamination from this site.

Report Historical Information and Findings:

GeoEngineers did not conduct a historical usage review for the subject property; however, they did prepare a background and historical review of UST removal and subsurface/environmental investigations conducted at the subject property. GeoEngineers reported that the Time Oil Company (Time Oil) monitored the removal of two 8,000-gallon and a 10,000-gallon gasoline USTs from the site during a facility upgrade on December 12, 1990. Time Oil reported that corrosion was observed on the tank exteriors and that the backfill within the excavation was contaminated with gasoline. Elevated concentrations of combustible vapors were detected in the soil samples collected from the sidewalls of the excavation. Time Oil reported that no groundwater was present in the gasoline UST excavation. Analysis of seven soil samples collected from the base of the gasoline UST excavation revealed benzene at a concentration of 0.91 milligrams per kilogram (mg/kg) in one soil sample from beneath the fill port of the eastern UST. Concentrations of fuel hydrocarbons and BTEX either were not detected or were detected at concentrations less than the respective Model Toxics Control Act (MTCA) Method A cleanup levels in the other samples.

Approximately 100 feet of perforated plastic piping was placed in the UST excavation and the excavation was backfilled with the former tank backfill material and imported soil. Replacement gasoline USTs were installed on the northeast portion of the site.

On January 2, 1991, Time Oil monitored the removal of a 550-gallon heating oil UST and a 300-gallon waste oil UST from the western portion of the site. Petroleum staining was observed in soil adjacent to the waste oil tank fill port and contamination appeared to have migrated laterally from the waste oil UST at a depth of approximately 10 feet bgs, based on information provided by Time Oil. The excavation completed for the UST removal was approximately 12 feet deep and ground water was not encountered.

Five soil samples obtained by Time Oil from the heating/waste oil tank excavation were submitted for laboratory analysis for petroleum-related hydrocarbons and metals. Total petroleum hydrocarbons (TPH) was detected in the soil samples at concentrations ranging from 590 mg/kg to 4,700 mg/kg. Aroclor 1254 was detected at a concentration of 1 mg/kg in a sample from a depth of 10 feet bgs. This concentration is equal to the MTCA Method A cleanup level for Polychlorinated Biphenyls (PCBs) in soil.

Approximately 5 cubic yards of soil from the heating oil and waste oil UST excavation was disposed of offsite (per Time Oil personnel). The remaining backfill was reportedly returned to the excavation during backfilling activities. Asphalt paving was not replaced following the January 1991 excavation activities.

The Jackpot Food Mart previously operated as a Hudson Service Station with at least one service bay, based on information provided by Time Oil. The site is listed as site number 2079 in Ecology's (Washington State Department of Ecology) February 10, 1993 leaking underground storage tank (LUST) list.

Property Solutions Review:

At the time of GeoEngineers investigation, the USTs at the subject property included three 10,000-gallon gasoline USTs, associated product and ventilation pipelines, two service islands and the food mart building.

Native soil encountered reportedly consisted of two separate units. The upper soil unit is characterized as tan to brown silty fine to medium sand with gravel and occasional cobbles and silt lenses ranging in depth from 1-27 feet bgs. This is underlain by tan fine to medium sand with silt to at least 45 feet bgs. Groundwater was not encountered in any of the borings (maximum depth 55 feet bgs).

The GSSSER detailed the soil venting test, remedial excavation activities, chemical analysis of samples, the installation of an oil water collection sump in the excavation area, backfilling activities, soil hydraulic conductivity and air conductivity and soil disposal.

The oil/water collection sump was installed by Glacier Environmental on December 29, 1992. The sump was designed to capture contaminated perched groundwater or product which might continue to migrate offsite from the east wall of the remedial excavation to the adjacent Albertson's property. The sump extends from the ground surface to a depth of approximately 15.5 feet bgs. The sump was checked on January 12, 1993 for the presence of water and/or free product using an interface probe. Free product was not detected. Approximately 110-gallons of water were removed from the sump on January 15, 1993.

Property Solutions Findings and Conclusions:

Based on the information provided, Property Solutions concurs with the recommendations that additional investigations were warranted at that time.

Complete Report Name	<u>Remedial Investigation Report (RIR)</u>
Report Date	November 1997
Report Project Number	20-023
Report Property Name	Time Oil Facility No. 01-284
Report Property Address	12807 Des Moines Way South, Seattle, Washington
Prepared by	Alisto Engineering Group (Alisto)
Consultant City & State Location	Portland, Oregon
Prepared for	Time Oil Company
Party City & State Location	Seattle, Washington
Report Provided by	Washington Department of Ecology (DOE/Ecology)
The entire report including appendices was provided.	
The boundaries discussed in this report are identical to those of the subject property identified by Property Solutions.	
Report and Subject Property Variations: None apparent	
Information/Portions of Report not Included with Report: None apparent	

Scope of Services Performed Per Report:

The work was conducted to assess the nature and extent of petroleum hydrocarbons in the subsurface in order to develop alternative remedial options, if warranted. The activities were performed in accordance with the technical specifications of Time Oil Company (TOC) and the guidelines and requirements of the Washington Department of Ecology (Ecology). The scope of work included the following tasks:

- Review of previous Site Investigation Report.
- Collect a water sample from the water collection sump for analysis and abandonment of the sump after receipt of laboratory analysis.
- Drill and log three exploratory soil borings and collect soil samples for analysis of specific hydrocarbon constituents.
- Install two vapor extraction points and conduct vapor extraction pilot testing.
- Analyzed data from the vapor extraction test.
- Prepare technical report presenting the results of the above activities, including recommendations for remedial action and design.

Findings/Conclusions as Reported by Report Preparer:

In Section 6.0-Discussion of Results Alisto outlined the following results:

- Subsurface conditions encountered during drilling in February 1997 were consistent with those observed during previous investigations. Fill material was encountered from ground surface to a depth of approximately 8 feet bgs. Silty sand (till) is present to depths between 22 to 41 feet bgs, underlain by fine to medium sand.
- Groundwater was not encountered during this or previous environmental investigations to the maximum depths of 56 feet bgs. Based on a review of available well logs in the vicinity of the site, the first-occurring groundwater is interpreted to be at depths greater than 78 feet bgs.
- The highest concentrations of TPH-gasoline (THP-G) and lead detected were 20 and 1.8 mg/kg in the soil sample collected from boring VP-101, at a depth of 10 feet (sample VP-101-10). Petroleum hydrocarbons were not detected in the other soil samples collected during this investigation.

- Vacuum pressure drawdown was measured in each of the observation wells during each of the three vapor extraction tests. At a vacuum drawdown of 0.5 inch of water, an effective radius of influence of at least 50 feet was estimated for each of the vapor extraction wells.

Recommendations as Reported by Report Preparer:

Alisto considered and discussed the two most viable methods of remediation to address residual adsorbed phase petroleum hydrocarbons in the soil for the site; 1) no action (intrinsic remediation) and, 2) soil vapor extraction (SVE) with off-gas treatment.

Based on the review of work completed at the site, in-situ remediation using soil vapor extraction was recommended by Alisto for implementation by the Time Oil Company.

Report Historical Information and Findings:

Alisto did not conduct a historical usage review for the subject property; however, they did prepare a background and historical review of UST removal and subsurface/environmental investigations conducted at the subject property. These basically duplicated those discussed in the 1993 GSSSER above.

Property Solutions Review:

The SIR included detailed field methods and procedures for water sample collection, drilling and soil sampling, vapor well installation and water collection sump abandonment. The report appeared to be comprehensive and well organized.

Property Solutions Findings and Conclusions:

Based on the information provided, Property Solutions concurs with the recommendation that additional investigation was warranted at that time.

Section 2: Letters

The following letters were provided by the Washington DOE in response to our FOIA request:

Letter Subject	Initial Investigation/Status Report
Letter Date	May 7, 1991
Letter Author & Title	John Stormon, Inspector
Letter Author Company	Washington Department of Ecology
Letter Author City & State Location	Bellevue, Washington
Letter Recipient	Not listed (appears to be inter-department memo)
Letter Recipient Company	Not listed
Letter Recipient City & State Location	Not listed
Letter and Subject Property Variations:	None apparent

Letter Subject:

This appears to be a report of the initial investigation of the subject property by Washington Ecology personnel. Mr. Stormon conducted an initial inspection of the site on May 7, 1991. At that time, the station manager reported that the contaminated soil was excavated and that a venting system was installed. There were originally four soil stockpiles behind the station, all but one have been removed. As a follow-

up, Mr. Stormon indicated that he spoke with Ann Duarte of Time Oil on May 13, 1991, who reported that a second site assessment will be done because some contamination remains in place. A report of the site is being prepared and a copy will be forwarded to Ecology.

Property Solutions Review:

The status of the subject property was listed at that time as “cleanup ongoing.”

Letter Subject	UST Removal-Jackpot Food Mart 12807 Des Moines Way, Seattle, WA (Property No. 01-284)
Letter Date	May 20, 1991
Letter Author & Title	Anastasia E. Duarte, Environmental Toxicologist
Letter Author Company	Time Oil Company
Letter Author City & State Location	Seattle, Washington
Letter Recipient	Mr. Joe Hickey
Letter Recipient Company	Washington Department of Ecology (Ecology)
Letter Recipient City & State Location	Bellevue, Washington
Letter and Subject Property Variations:	None apparent

Letter Subject:

This is a letter providing information to Ecology on the UST removal and subsurface investigation activities conducted at the site to date. These included the removal of two 8,000-gallon and one 10,000-gallon gasoline underground storage tanks from the subject property on December 12, 1990 as part of a facility upgrade and the removal of a 550-gallon heating oil UST and a 300-gallon waste oil UST on January 2, 1991. This information duplicated that discussed above under the previous environmental investigations in the GSSSER dated April 28, 1991.

Property Solutions Review:

In summary, Time Oil reported that corrosion was observed on the tank exteriors and that the backfill within the excavation appeared to be “highly” contaminated, particularly near the fill ends of the tanks. Elevated concentrations of organic vapors were detected in the soil samples collected from the sidewalls and floor of the excavation. Time Oil reported that no groundwater was present in the UST excavation. Analysis of seven soil samples collected from the base of the gasoline UST excavation (10 to 18 feet bgs) revealed benzene at a concentration of 0.91 milligrams per kilogram (mg/kg) in one soil sample from beneath the fill port of the eastern UST. Concentrations of fuel hydrocarbons and BTEX either were not detected or were detected at concentrations less than the respective Model Toxics Control Act (MTCA) Method A cleanup levels in the other samples.

Due to space limitations, the fill material could not be stockpiled on the site and was used to backfill the excavation. Approximately 100 feet of perforated plastic piping was placed in the UST excavation at a depth of 8-10 feet bgs, for future in-situ remediation, if needed.

On January 2, 1991, Time Oil monitored the removal of a 550-gallon heating oil UST and a 300-gallon waste oil UST from the western portion of the site. Petroleum staining was observed in soil adjacent to the waste oil tank fill port and was attributed to overfilling. Approximately 17 cubic yards of contaminated material was excavated from the area around the tanks, stockpiled and covered with plastic sheeting. Glacial till encountered at 10 feet bgs appeared to have caused lateral migration of the contamination.

Five soil samples obtained by Time Oil from the heating/waste oil tank excavation were submitted for laboratory analysis for petroleum-related hydrocarbons and metals. Total petroleum hydrocarbons (TPH) was detected in the soil samples at concentrations ranging from 590 mg/kg to 4,700 mg/kg. Lead was

present at 17 parts-per-million (ppm) at 7 feet bgs. Low levels of chlorinated solvents, including methylene chloride, were present in “nearly all” of the samples; however, none was present at levels above recommended cleanup guidelines. Aroclor 1254 (Polychlorinated Biphenyls [PCBs]) was detected at a concentration of 1 mg/kg in a sample from a depth of 10 feet below the waste oil tank. This concentration is equal to the MTCA Method A cleanup level for PCBs in soil.

Time Oil reported that additional site assessment will be performed to determine the vertical and lateral extent of contamination in the area of both excavations. Once the extent of contamination is defined, a work plan will be developed for site remediation. The contaminated soil excavated from near the waste oil tank will be characterized for disposal.

This letter appeared to be a general correspondence/update to the local regulatory agency (Ecology) regarding the progress of assessment and clean-up of the site.

Letter Subject	Remediation of Former Used Motor Oil Tank Bed and Site Assessment at Jackpot Food Mart at 12807 Des Moines Way, Seattle, Washington (Time Oil Company property No. 01-284)
Letter Date	October 25, 1993
Letter Author & Title	Anastasia E. Duarte, Environmental Toxicologist
Letter Author Company	Time Oil Company
Letter Author City & State Location	Seattle, Washington
Letter Recipient	Not specified
Letter Recipient Company	Washington Department of Ecology (Ecology)
Letter Recipient City & State Location	Bellevue, Washington
Letter and Subject Property Variations:	None apparent

Letter Subject:

This is a letter providing information to Ecology on the progress of environmental assessment activities conducted at the site to date.

Property Solutions Review:

The letter included a Site Background, the information duplicated that provided in the May 20, 1991 letter and the previous environmental investigations section in the GSSSER dated April 28, 1991 discussed above.

The additional site work was reportedly conducted in two phases. The first phase involved the over excavation of impacted soils in the vicinity of the former heating oil and used motor oil tanks. The second phase involved performing a site assessment near the former gasoline tanks.

Initially, it was estimated that the removal of approximately 75 cubic yards of soil from the floor and sidewalls of the former heating and used oil tank bed would be sufficient to remediate this area. However, as overburden was removed, it became apparent that contamination was more widespread. Lateral migration appeared to occur to the south and west of the former tank bed, impacting soils beneath the adjacent parking lot owned by Albertson's. Altogether, approximately 900 cubic yards of impacted soils were removed and stockpiled.

At the conclusion of over excavation, soil samples were collected from the floor and sidewalls of the excavation at depths of 12 to 28 feet. In general, samples were analyzed for diesel and oil-range hydrocarbons; however, several samples were also analyzed for gasoline and its constituents. Analysis revealed the presence of oil at concentrations of 1,400 to 6,600 ppm and diesel at concentration of 280 to 1,200 ppm. Gasoline was also detected in one of the samples at 1,300 ppm.

During the removal of oil-impacted soils, perched groundwater with a heavy sheen was encountered at a depth of 9 feet bgs. Approximately 3,700 gallons of water was removed from the tank excavation on December 29, 1992. A 10 inch diameter collection sump was installed in the center of the excavation on December 29, 1992. On January 15, 1993, approximately 100 gallons of additional water was removed from the sump.

Because impacted soils were used to backfill the excavation during the removal of the gasoline USTs, a site assessment was initiated in February 1993. This investigation included the advancement of seven soil borings and installation of two vapor extraction wells. Soil samples collected were analyzed for gasoline and its constituents, several samples were also analyzed for diesel and oil. Gasoline was present at levels of 7,700 and 13,000 ppm, diesel at 1,100 ppm and oil at 580 and 720 ppm.

Time Oil concluded that based on the results of the investigation, further action was warranted. Time Oil added that it did not appear that groundwater had been impacted at the site. They anticipated that vapor extraction and subsequent bioventing will be utilized to address contamination on the subject property and remove residual contamination on the adjacent property.

Letter Subject	Submittal of "Remedial Investigation Report" for Jackpot Food Mart at 12807 Des Moines Way, Seattle, Washington (Time Oil Company property No. 01-284)
Letter Date	December 4, 1997
Letter Author & Title	Anastasia E. Duarte-Wilkinson, Environmental Toxicologist
Letter Author Company	Time Oil Company
Letter Author City & State Location	Seattle, Washington
Letter Recipient	John Balls
Letter Recipient Company	Washington Department of Ecology (Ecology)
Letter Recipient City & State Location	Bellevue, Washington
Letter and Subject Property Variations:	None apparent

Letter Subject:

This is a letter to Ecology that was submitted along with a Remedial Investigation Report (RIR) prepared for the subject property by Alisto Engineering Group and dated November 1997. This RIR is discussed separately above in Section 1: Previous Environmental Investigation Reports.

Property Solutions Review:

This letter included a summary of previous environmental investigations and duplicated that previously discussed. However, it also outlined the abandonment of the water collection sump and installation of two additional vapor extraction wells for use as a pilot test and a potential future remediation system. According to Time Oil, results of the pilot test indicated that the extent of soil impacts at the subject property are well defined and very limited and that vapor extraction is feasible for remediating the hydrocarbon-impacted soils.

The following letter was provided by the Washington DOE in response to our FOIA request and was also provided by PC&F and reviewed as part of Property Solutions original Phase I Environmental Assessment conducted under project number 20112160 and dated June 24, 2001.

Letter Subject	Jackpot Station 284 – Time Oil 01-284
Letter Date	September 26, 2002
Letter Author & Title	Desiree Wells
Letter Author Company	Washington Department of Ecology
Letter Author City & State Location	Bellevue, WA
Letter Recipient	None identified
Letter Recipient Company	Time Oil Company
Letter Recipient City & State Location	Seattle, WA
Letter and Subject Property Variations:	None

Letter Subject:

The letter was sent to Time Oil Company after a review of reports associated with a release on the property. The letter states that USTs were removed from the property in 1991-1992, and that soil contaminated with waste oil, diesel, gasoline, and PCBs was identified. Subsequent investigation and remediation were conducted between 1993 and 1997. A Vapor Extraction System was reportedly installed and tested in 1997.

Ecology indicated that based on a review of the information provided, the agency has determined that not all waste oil, diesel, gasoline or PCB contamination above the cleanup levels has been removed from the soils associated with the December 12, 1990 and January 2, 1991 removal of five underground storage tanks.

The letter requested updated for activities conducted since that time and notified Time Oil that the property was eligible for the Voluntary Cleanup Program. Ecology also noted that a “Reported Cleaned Up” status is not the same as a “No Further Action” status. It does not involve a detailed review by Ecology and may be based on the opinion of the site owner, consultant or contractor.

Property Solutions Review:

The LUST case remains open and is considered a recognized environmental condition.

Letter Subject	Status of Cleanup Activities at Jackpot Food Mart at 12807 Des Moines Way, Seattle, Washington (Time Oil Company property No. 01-284)
Letter Date	November 21, 2001
Letter Author & Title	Anastasia E. Duarte-Wilkinson, Environmental Toxicologist
Letter Author Company	Time Oil Company
Letter Author City & State Location	Seattle, Washington
Letter Recipient	John Balls
Letter Recipient Company	Washington Department of Ecology (Ecology)
Letter Recipient City & State Location	Bellevue, Washington
Letter and Subject Property Variations:	None apparent

Letter Subject:

This letter was submitted in response to the September 26, 2002 letter from Ecology to the Time Oil Company discussed above.

Property Solutions Review:

The letter reviewed the previous environmental activities. However, Time Oil reported that “although Time Oil intends to address hydrocarbon impacts associated with the subject property, remediation efforts have not been implemented to date and no additional data has been collected since the submittal of the Alisto Engineering Group’s Remedial Investigation Report dated November 1997.”

It does not appear that any remediation efforts have been undertaken at the subject property since 1997. As such, the LUST case associated with the subject property remains open and is considered a recognized environmental condition.

Section 3: Annual Tightness Testing/UST monitoring and inspection information

The information provided by the Washington Department of Ecology included annual documentation of required UST testing and inspections dating back to 1991. Due to the large volume of these annual documents, each will not be discussed separately but summarized below.

The annual tests include tank monitor inspection reports, tank and line leak detector tests, UST monitor certificates and cathodic protection and corrosion protection inspection and assessment. No significant issues associated with the tank systems, piping and dispensers and monitoring systems was indicated in the annual inspection/testing documents provided. However, a December 15, 2009 UST Site Inspection conducted by the Ecology noted that the facility was operating without a permit and cited the facility for failure to provide spill and/or overfill prevention equipment on a new UST system (water in spill buckets). Compliance was subsequently achieved and the facility was issued a \$100 penalty for these violations.

Information provided to Property Solutions as part of a Phase I Environmental Assessment prepared at the subject property under project number 20112160 and dated June 24, 2011 indicated an annual tank monitor inspection report was performed on January 25, 2011. According to the report each item tested was marked as passed. A line leak detector test was performed by on January 25, 2011, and each of the three leak detectors were marked as passed. Air to liquid ratio testing analyses performed by the Washington Oregon Gasoline Vapor Control Committee were not provided.

Recommendations:

Based on the review of the files provided by the Washington DOE, Property Solutions believes that there was no additional information that would change the findings of the original Phase I Environmental Assessment prepared by Property Solutions under project number 20112160. Property Solutions recommends that the responsible party work with Washington DOE towards regulatory closure.

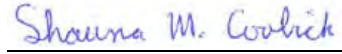
We appreciate the opportunity to perform this service for you, and look forward to working with you in the future. Please do not hesitate to contact our office with any questions or comments.

Sincerely,

PROPERTY SOLUTIONS INC.



Meredith Horn
Environmental Consultant



Shauna M. Coobick, P.G.
Senior Geologist

TIME VIL FOOD MAKI UT-284 (JACKPOT)
Seattle, WA 12007 Dec. 2005 May

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RELEASE 2079

TIME OIL 01-284
KING / SEATTLE.

4050 / 2079

REMEDIAL INVESTIGATION REPORT

22807

Time Oil Facility No. 01-284
12807 Des Moines Way South
Seattle, Washington

12807 IS CORRECT

Alisto Project No. 20-023

November 1997



REMEDIAL INVESTIGATION REPORT

Time Oil Facility No. 01-284
12807 Des Moines Way South
Seattle, Washington ✓

Project No. 20-023-01-800


Prepared for:

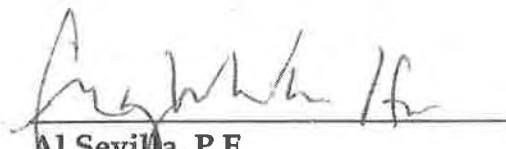
Time Oil Co.
2737 West Commodore Way
Seattle, Washington 98199 ✓

Prepared by:

Alisto Engineering Group
7160 S.W. Hazelfern Road, Suite 700
Portland, Oregon

November 12, 1997


John M. Day, R.G.
Senior Geologist


Al Sevilla, P.E.
Principal



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APPENDICES

- A Field Procedures for Drilling and Soil Sampling**
- B Boring Logs, Well Construction Details, and Field Procedures for Vapor Well Installation**
- C Field Procedures for Chain of Custody Documentation, Laboratory Reports, and Chain of Custody Records**
- D Vapor Extraction Test Data**
- E Remedial Design Document**



1.0 INTRODUCTION

Time Oil Co. (TOC) retained Alisto Engineering Group to conduct a remedial investigation, including vadose zone testing and analysis, for TOC Facility No. 01-284, 12807 Des Moines Way South, Seattle, Washington. A site vicinity map is shown on Figure 1.

1.1 Purpose and Scope of Work

The work was conducted to assess the nature and extent of petroleum hydrocarbons in the subsurface in order to develop alternative remedial options, if warranted. The activities were performed in accordance with the technical specifications of TOC and the guidelines and requirements of the Washington Department of Ecology (Ecology).

The scope of work included the following tasks:

- Reviewed previous site investigation report.
- Collected a water sample from the water collection sump for analysis and abandoned the sump after receipt of laboratory analyses.
- Drilled and logged three exploratory soil borings and collected soil samples for analysis of specific hydrocarbon constituents.
- Installed two vapor extraction points and conducted vapor extraction pilot testing.
- Analyzed data from the vapor extraction test.
- Prepared a technical report presenting the results of the above activities, including recommendations for remedial action and design.

1.2 Site Location and Description

The site is at the southwest corner of Des Moines Way South and 128th Street, Seattle, Washington, and is currently a retail gasoline station with a convenience store and three underground fuel storage tanks. The site is paved with asphalt and concrete. The layout of the site and locations of pertinent site features are shown on Figure 2.

The adjacent properties are mixed commercial and residential development. The topography at the site is relatively flat, with the regional topography generally sloping toward the Duwamish River, approximately one-half mile east of the site.



1.3 Project Background

Pertinent background information on previous investigative activities completed at the site is summarized below.

December 1990: Three underground gasoline tanks with capacities of 8000 to 10000 gallons were removed. Tank cavity backfill material consisted of fine- to medium-grained sand and appeared to be impacted by petroleum hydrocarbons. Seven soil samples collected from beneath the former tanks were analyzed for total petroleum hydrocarbons and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Benzene was reported at a concentration of 0.91 part per million (ppm) in only one of the samples, exceeding the Ecology Model Toxics Control Act (MTCA) Method A cleanup level of 0.5 ppm. BTEX and total petroleum hydrocarbons (TPH) were either not detected above the reporting limit or were below the corresponding MTCA Method A cleanup levels. The excavated material was re-used to backfill the tank cavity. Approximately 100 feet of perforated piping was installed within the excavation at a depth of 8 to 10 feet and connected to the former tank vent system for use in future remediation, if needed.

January 1991: A 550-gallon heating oil tank and a 300-gallon waste oil tank were removed from the west portion of the property. Approximately 17 cubic yards of soil that appeared to be impacted was excavated. Five soil samples were collected and were analyzed for TPH, Polychlorinated biphenols (PCBs) as arochlor 1254, TCLP metals, and volatile organic compounds (VOCs). TPH was detected at concentrations ranging from 900 to 4700 ppm in the soil samples collected at depths of between 7 and 12 feet in the vicinity of the former waste oil tank. Lead was detected at 17 ppm from a soil sample collected at a depth of 7 feet and PCBs were detected at 1 ppm in a sample collected at a depth of 10 feet near the former waste oil tank (Time Oil Co., 1996).

TPH was detected at a concentration of 590 ppm in a soil sample collected from a depth of 10 feet in the vicinity of the former heating oil tank. Chlorinated solvents were detected below the recommended cleanup levels in nearly all of the soil samples from the waste oil and heating oil tank areas. Groundwater was not encountered during any of the tank removal or soil sampling activities.

December 1992: Approximately 900 cubic yards of soil in the vicinity of the heating and waste oil tanks was excavated. The excavation was 30 feet by 35 feet by 19 to 28 feet deep. Most of the impacted soil was encountered at depths of 9 to 19 feet in the northern portion of the excavation and at depths of between 15 to 23 feet in the south portion.

Oil-range hydrocarbons were detected in the soil samples collected at depths of 12 to 28 feet at concentrations ranging from 1400 to 6600 ppm, and diesel-range hydrocarbons were detected at concentrations ranging from 280 to 1200 ppm in samples collected from the east sidewall at depths of 10 to 14 feet. In the southern portion of the excavation, gasoline-range hydrocarbons were detected at 1300 ppm at a depth of 14 feet. Gasoline-, diesel-, and heavy oil-range hydrocarbons were detected at concentrations of 2700, 410 and 640 ppm, respectively, at a depth of 16 feet.



During soil excavation, water was observed seeping from the east sidewall and accumulated at approximately 9 feet below grade. Approximately 3700 gallons of water were pumped to dewater the excavation. A 10-inch-diameter collection sump, constructed of corrugated metal piping, was installed within the excavation for potential remediation, if warranted. The sump was installed to a depth of 15.5 feet and was slotted from 8 to 11 feet. Pea gravel was used as backfill around the sump.

The excavation was backfilled with imported fill material. A liner was placed along the east sidewall to reduce the potential for migration of residual contaminants into the backfilled area.

A temporary soil vapor extraction (SVE) system was installed adjacent to the south side of the food mart building and connected to the piping within the former tank cavity. The SVE system consisted of a Rotron 454 regenerative blower, moisture separator and vertical exhaust stack. The system operated for approximately 39 days and recovered an estimated 8.7 to 0.87 pounds of gasoline per day.

February 1993: Nine soil borings were drilled at the site (B-1 through B-9), two of which were completed as vapor extraction wells (VP-1 and VP-7), for use in future remediation, if warranted. Gravelly sand fill was encountered to between 2 and 5 feet in Borings B-1 and B-6. Native soil consisted of silty fine to medium sand with some gravel and occasional cobbles to depths of up to 28 feet. The silty sand is underlain by fine to medium sand with some silt to the total drilled depth of 55 feet.

Gasoline-, diesel-, and oil-range hydrocarbons were detected in soil samples from vapor well VP-1 at concentrations up to 13000, 1100, and 720 ppm. Petroleum hydrocarbons were either below detection limits or Method A cleanup levels in all other soil samples collected from the borings (GeoEngineers, 1993).

1.4 Well Construction Summary

The construction details for the vapor observation points installed to date are summarized below. The boring logs prepared from this investigation are included in Appendix A.

Well Number	Date Installed	Total Depth (feet)	Screen Interval (feet)	Diameter (inches)
VP-1	February 1993	55	25-55	2
VP-7	February 1993	54	30-54	2
VP-101	February 1997	55	15-55	4
VP-102	February 1997	30	5-30	2



2.0 FIELD METHODS AND PROCEDURES

The field methods and procedures used during water sample collection from the sump and subsequent abandonment, drilling of the soil borings, installation of the additional vapor points, and soil sampling are described in this section.

2.1 Water Sample Collection

On January 8, 1997, depth to water was measured at 8.5 feet below top of casing in the sump. Approximately 110 gallons of water was purged from the sump using an electric submersible pump before collecting a sample, using a disposable bailer. The water sample was transported to a certified laboratory for analysis following chain of custody procedures.

2.2 Drilling and Soil Sampling

On February 6, 1997 Borings VP-101 and B-10 were drilled to a depth of 56 feet and Boring VP-102 was drilled to a depth of 36 feet. Drilling was performed by Cascade Drilling, Woodinville, Washington, using a truck-mounted drilling rig with 8- and 10-inch-diameter hollow-stem auger. Soil samples were collected for field observation, screening, and chemical analysis using a split-spoon sampler. The field procedures for drilling and sampling are presented in Appendix A.

The boring logs were prepared based on the Unified Soil Classification System, which includes descriptions of soil characteristics such as color, moisture, consistency, and field readings from an organic vapor meter. The boring logs prepared from this and previous investigations are presented in Appendix B.

2.3 Vapor Well Installation

Soil Borings VP-101 and VP-102 were converted into vapor extraction wells using 4-inch-diameter, flush-threaded, Schedule 40 PVC blank and 0.020-inch slotted well casing. The field procedures for well installation and the construction details are included in Appendix B.

2.4 Water Collection Sump Abandonment

On February 6, 1997, Cascade Drilling abandoned the sump by backfilling the sump to within 3 feet of ground surface with crushed rock and with concrete to the top of the sump, in accordance with Ecology guidelines.

3.0 ANALYTICAL METHODS

The water, soil and air samples were analyzed by American Environmental Network (AEN), using standard test methods of the U.S. Environmental Protection Agency (EPA) and Ecology. The field procedures for chain of custody documentation, laboratory reports, and chain of custody records for the samples collected during this investigation are presented in Appendix C.



4.0 GEOLOGY AND HYDROGEOLOGY

Information on the regional and site-specific geology and hydrogeology is summarized below.

4.1 Regional Geology and Hydrogeology

The site is approximately 370 feet above mean sea level as shown on Figure 1, and is within the Des Moines Drift Upland physiographic division of the Puget Sound Basin, a slightly arcuate, convex-eastward basin lying between the Cascade Range and the Olympic Mountains. The basin is open to the north to the Georgia Depression and the Strait of Juan de Fuca. Geology in the vicinity of the site has been mapped as Vashon Till, deposited during the Pleistocene. The till generally ranges from a gravelly, sandy silt to silty sand with varied quantities of clay and scattered cobbles and boulders. Stringers of fluvial sand or gravel are present throughout the till. (Galster and Laprade, 1991).

Based on available information and logs for water wells in the vicinity of the site, static water levels in wells in the area range from 78 to 168 feet below ground surface. As reported by others, water well logs for the Seattle Water District document two wells in the immediate vicinity of the site; however, Seattle Water District personnel indicated that the wells are more than one-half mile from the site.

4.2 Site Geology

Subsurface native soils encountered during this and previous investigations consist of silty sand with gravel (till) to between 22 and 41 feet below ground surface, underlain by dense, fine- to medium-grained sand to the total depth of the boring at 56 feet. Sandy gravel or silty sand fill was encountered to depths of up to 10 feet. Groundwater was not encountered in any of the exploratory borings.

5.0 VAPOR EXTRACTION TESTING

On March 7, 1997, vacuum pumping tests were performed to collect site-specific data for use in evaluating the characteristics of the vadose zone and the feasibility of vapor extraction as a remedial alternative.

5.1 Field Procedures

Vapor extraction testing was performed using a transportable unit consisting of: (1) a Rotron DR 454 regenerative blower and a moisture separation tank; (2) instrumentation for measuring air velocity, flow, and vacuum pressure; (3) PVC piping, fittings, and wellhead connections; and (4) air sample collection equipment.

Well VP-1 was used as the vapor extraction well for the first test with VP-101, VP-7, and VP-102 as the observation wells. The horizontal distances of the observation wells to VP-1 are 30.5, 40, and 54 feet respectively. For the second test, Well VP-7 was used as the vapor extraction well with VP-1, VP-101, and VP-102 as the observation wells. The horizontal distances of the



observation wells to VP-7 are 40, 47, and 54 feet respectively. Well VP-101 was used as the vapor extraction well for the third test, with VP-102, VP-1, and VP-7 as the observation wells. The horizontal distances of the observation wells to VP-7 are 24, 30.5, and 47 feet respectively. The screened intervals for VP-1, VP-7, VP-101, and VP-102 are 25 to 55, 30 to 54, 15 to 55, and 10 to 35 feet below grade respectively.

The entire length of slotted casing in each well was exposed in the vadose zone for the vacuum pumping tests since groundwater was not observed in the wells. The locations of the vapor extraction and observation wells used during the testing are shown on Figure 2.

Vacuum pressure was measured in each observation well at pre-determined time intervals using magnehelic gauges. The tests on VP-1 and VP-7 were conducted for 120 minutes and the test on VP-101 was conducted for 140 minutes. Effluent organic vapor concentrations from the extraction well were measured using a photo-ionization detector (PID). Air samples were collected for laboratory analysis at the end of the test using a 6-liter, rigid, evacuated SUMMA canister, and transported to AEN. The samples were analyzed for volatile organic compounds using EPA Method TO-14.

5.2 Test Results

During the first test, vacuum levels of up to 23 inches of water were applied to VP-1 at an extraction flow rate of 76 cubic feet per minute (cfm). Vacuum pressure drawdowns of 1.2, 0.95, and 0.90 inch of water were measured in observation wells VP-101, VP-7, and VP-102 at the highest extraction flow rate. Oxygen (O_2) was measured at 17.6 and 18.1% in the air samples from VP-1 using a GasTech® Combustible Gas Indicator at the beginning and end of the test.

For the second test, vacuum levels of up to 24 inches of water were applied to VP-7, at an extraction flow rate 85 cfm. Vacuum pressure drawdowns of 1.1, 0.74, and 0.66 inch of water were measured in observation wells VP-1, VP-101, and VP-102. The O_2 concentration in the vapor from VP-7 was measured at 17.8 and 17.9% at the beginning and end of the test.

During the third test, vacuum levels of up to 22 inches of water were applied to VP-101 at an extraction rate of 107 cfm. Vacuum pressure drawdown of 3.1, 1.8, and 1.0 inches of water were measured in observation wells VP-102, VP-1, and VP-7 at the highest extraction flow rate. An O_2 level of 18.4% was observed in VP-101 at the end of the test.

The pressure drawdown measured in the observation wells during the tests were plotted graphically versus distance from the vapor extraction well on a semi-logarithmic scale. Using a best-fit line, the extent of vacuum influence at 0.5 inch of water was estimated to be approximately 100 feet from VP-1, 58 feet from VP-7, and 50 feet for VP-101. The graphical analyses are presented in Appendix D.

The following table presents a summary of the analytical results of the vapor samples collected from VP-1, VP-7, and VP-101 during the tests. Benzene, toluene, ethylbenzene, and total xylenes concentrations are generally considered representative of typical gasoline and are therefore presented in the table. A listing of hydrocarbon constituents analyzed and detected in the samples are presented in the laboratory report included in Appendix C. Acetone, 2-propanol,



and 2-butanone were detected in the air sample from VP-1. These constituents are commonly found in the primer and cement used to connect the vapor extraction test piping. The concentrations of these compounds were subtracted from the TNMOC concentration for VP-1 in the table.

Sample ID	TNMOC (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)
VP-1	2773	0.070	0.880	ND<0.059	2.540
VP-7	180	0.054	1.900	1.200	15.300
VP-101	610	ND<0.035	0.084	ND<0.035	0.150

Abbreviations:

ppmv parts per million volume
 TNMOC total non-methane organic compounds as referenced to gasoline
 ND not detected at the indicated laboratory detection limit

Constituents Molecular Weight

TPH-G 100 grams/mole
 Benzene 78.1 grams/mole
 Toluene 92.1 grams/mole
 Ethylbenzene 106.2 grams/mole
 Total Xylenes 106.2 grams/mole

$$Z \text{ ppmv} = (X \text{ ug constituent/l}) \times (22.414 \text{ l/1 mole}) \times (1 \text{ mole/Y g constituent})$$

where X = concentration of a particular constituent in units of ug/l
 Y = molecular weight of a particular constituent in units of grams/mole
 Z = concentration of a particular constituent in units of ppmv

Copies of the chain of custody record and results of laboratory analysis of the vapor samples collected during the tests are included in Appendix C.

6.0 DISCUSSION OF RESULTS

The results of the field investigation, aquifer analysis and data evaluation are summarized as follows:

- Subsurface conditions encountered during drilling in February 1997 were consistent with those observed during previous investigations. Fill material was encountered from ground surface to a depth of 8 feet during this investigation. Silty sand (till) is present to depths of between 22 and 41 feet, underlain by fine to medium sand (till).



- Groundwater was not encountered during this or previous investigations to the maximum depth of the borings at 56 feet. Based on review of available well logs in the vicinity of the site, the first-occurring groundwater is interpreted to be at depths greater than 78 feet.
- The highest concentration of TPH-G and lead detected were 20 and 1.8 mg/kg in the soil sample collected from Boring VP-101, at a depth of 10 feet (sample VP-101-10). Petroleum hydrocarbons were not detected in the other soil samples collected during this investigation.
- Vacuum pressure drawdown was measured in each of the observation wells during each of the three vapor extraction tests. At a vacuum drawdown of 0.5 inch of water, an effective radius of influence of at least 50 feet was estimated for each of the vapor extraction wells.

7.0 PROPOSED REMEDIAL ACTION

The primary objective of corrective or remedial action is to reduce the toxicity, mobility, and volume of contaminated materials in a manner that will protect both public health and the environment.

Factors considered in establishing the remedial objectives for this site include the following:

- There are no known private or municipal water supply wells within 1000 feet of the site.
- Groundwater as well as liquid-phase hydrocarbons have not been observed in the vapor wells at the site.
- Soil types encountered at the site generally consist of fine- to medium-grained silty sand underlain by sand.
- Field screening and laboratory analysis of soil samples collected during drilling indicates that residual adsorbed-phase hydrocarbons are limited in extent to the vicinity of VP-1, VP-7, and VP-101 to a depth of 46 feet.
- Based on the results of pilot testing, soil vapor extraction appears to be applicable for the site for remediation of residual hydrocarbons in the vadose zone.

The primary goal for remediation at the site, based on the above considerations, is to reduce residual adsorbed-phase hydrocarbons in the soil to levels that are protective of the public health and environment. If a site-specific risk assessment is warranted in the future, alternative cleanup goals may be developed and applied to the site for regulatory case closure.



7.1 Screening of Remedial Action Alternatives

Based on the results of remedial investigation completed to date, it is apparent that only residual adsorbed phase petroleum hydrocarbons in soil need to be addressed at the site. Considering the corrective action objectives for this site, the most viable alternatives considered included: (1) no action (intrinsic bioattenuation); and (2) soil vapor extraction with off-gas treatment.

7.1.1 Intrinsic Remediation

Intrinsic remediation may be applicable at sites where potential impact on the environment and public health and safety is limited, and where residual hydrocarbons in the soil and groundwater pose minimal or no health risk. Factors to be considered in evaluating the viability of intrinsic remediation include:

- Attainment of numerical cleanup levels in soil.
- Site-specific geologic conditions, including soil characteristics.
- Location of sensitive receptors and exposure pathways relative to the site.
- Potential impact to groundwater.
- Present and planned land use of the site.
- Concentrations of regulated chemicals in the soil.
- Cost/benefit relative to other remedial measures.

Intrinsic remediation depends on natural processes for the cleanup or remediation of petroleum hydrocarbons in soil and groundwater. The natural processes that affect the reduction of hydrocarbon concentrations include biodegradation, volatilization, adsorption, and dispersion/dilution. The most common applications for intrinsic remediation are post-assessment and post-active remediation. At sites where the levels of residual hydrocarbons in the soil pose minimal or no risk to the environment and public health and safety, intrinsic remediation with ongoing monitoring and sampling may be the most cost-effective remedial response. Where active remediation has been implemented and continued operation is no longer cost effective, intrinsic remediation may be used to verify that remaining constituents pose no significant threat.

7.1.2 Soil Vapor Extraction

This option would involve the use of soil vapor extraction technology to remediate residual adsorbed-phase petroleum hydrocarbons in the soil. Based on the results of pilot testing, vapor extraction appears to be a viable alternative to remediate petroleum hydrocarbons in the subsurface and achieve the corrective action objectives for the site.



7.2 Description of Proposed Corrective Action

Based on review of work completed at this site, and considering the above remedial action alternatives, insitu remediation using soil vapor extraction is recommended for implementation by TOC. Soil vapor extraction is considered to be the most cost-effective alternative in remediating petroleum hydrocarbons in the soil to minimize or eliminate the continuing source of contamination to groundwater, and to comply with the requirements of Ecology.

The SVE system will be designed and operated to meet the Puget Sound Air Pollution Control Authority (PSAPCA) discharge limits. Vapor Points VP-1, VP-7, and VP-101 will be used as the vapor extraction wells and will be connected to the SVE system with PVC piping.

Based on petroleum hydrocarbon concentrations recovered during the SVE pilot test, treatment of the recovered vapor would initially be required before discharge to the atmosphere. Options for vapor treatment include: (1) carbon adsorption, (2) thermal or catalytic oxidation, or (3) thermal destruction using an internal combustion (IC) engine.

For this site, an IC engine has been selected for off-gas treatment, based on its immediate availability. TOC currently owns a VR Systems model V3. Propane will be used as the supplemental fuel supply for the SVE unit. When vapor recovery attenuates to a level where the unit becomes cost prohibitive to operate, the IC engine will be replaced by a regenerative blower with vapor phase activated carbon adsorption for treatment, if required.

Implementation of the proposed remediation system will consist of the following:

1. Trenching and piping to connect the and vapor extraction points to the treatment compound (Sheet 2 of 6, Appendix E).
2. A new 220 volt circuit breaker panel at the treatment compound.
3. An IC engine for vapor extraction and treatment, and individual well flow controls.
4. A 6-foot high fence for security and visual screening of the aboveground equipment.

The aboveground treatment compound will be constructed adjacent to the south side of the existing building to minimize interruption of normal service station operations and will be as inconspicuous as possible. The propane tank will be installed outside, but in the vicinity of the treatment compound. The proposed treatment compound and propane tank locations have



been verbally approved by the Burien Fire Department. The preliminary layout of the proposed remediation system and schematic details, and a process and instrumentation diagram are included as Appendix E.

7.2.1 Permitting

Before construction, approvals and permits will be obtained from the appropriate agencies, including PSAPCA and the Burien Fire Department.

7.2.2 Operation and Maintenance

The SVE system will be operated and maintained on a scheduled basis. Scheduled monitoring will include maintenance of the system components and measurement of operating parameters to evaluate effectiveness and performance of the system. An operation and maintenance (O&M) program will be followed to maintain continued safe and reliable system operation. O&M schedule for the SVE system is summarized below and the procedures are outlined in the manufacturer's Operating Manual.

<u>Activity</u>	<u>Frequency</u>
Change oil and oil filter	Weekly
Replace air filter	Bi-weekly*
Replace spark plugs	Monthly

* Dependant on site conditions

7.2.3 SVE Discharge Monitoring

An influent vapor sample will be collected during initial startup and analyzed for BTEX and TPH-G. During each site visit the influent vapor will be monitored for organic vapors using a photo-ionization detector. Influent vapor samples will be collected and analyzed for BTEX and TPH-G every three months of system operation.

When organic vapor concentrations have attenuated or become asymptotic, the SVE system will be turned off for one month and restarted. If organic vapor concentrations do not increase on system startup or are less than previously recorded, operation of the SVE system may be discontinued.



REFERENCES

Galster, Richard W., Laprade, William T., 1991. Geology of Seattle, Washington, United States of America. Bulletin of the Association of Engineering Geologists Vol. XXVIII, No. 3. pp. 235-302

GeoEngineers, 1993. Report of Geoenvironmental Services Subsurface Soil Explorations and Remediation, Jackpot Food Mart Property No. 01-284, Seattle, Washington. April 28.

Time Oil Co., 1996. Request For Proposal for Additional Site Assessment...Jackpot Food Mart, 12807 Des Moines Way South, Seattle, Washington (Property No. 01-284). September 13.

Washington Department of Ecology. Water Well Reports.

U.S.G.S., 1995. Des Moines Quadrangle, Washington-King Co., 7.5 minute series (Topographic), Reston, Virginia.



TABLES



FIGURES





SOURCE:
USGS MAP, DES MOINES WASHINGTON-KING CO. QUADRANGLE,
7.5 MINUTE SERIES, 1949, PHOTOREVISED 1995



FIGURE 1

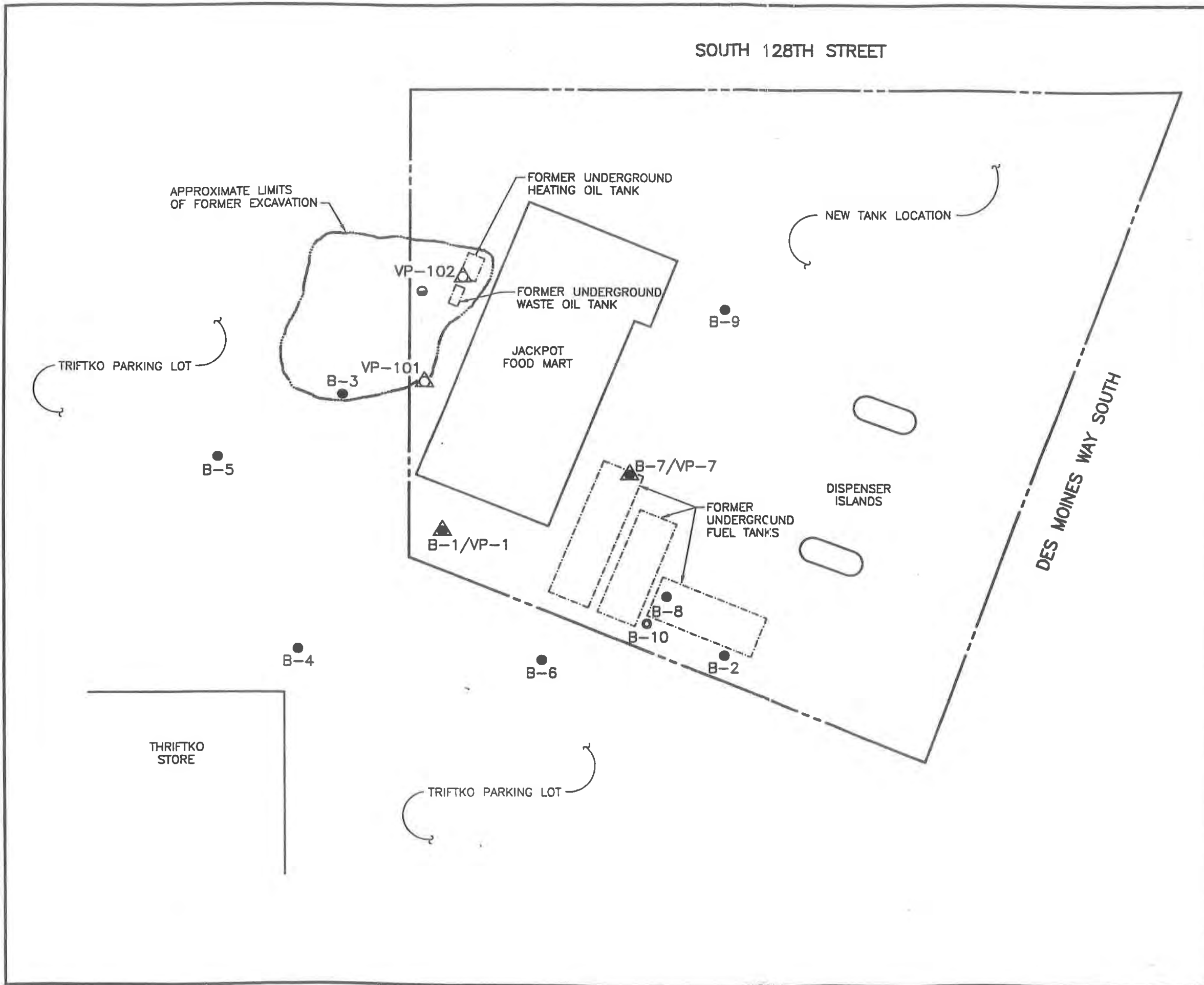
SITE VICINITY MAP

TIME OIL FACILITY NO. 01-184
12807 DES MOINES WAY SOUTH
SEATTLE, WASHINGTON

PROJECT NO. 20-023



ALISTO ENGINEERING GROUP
PORTLAND, OREGON



LEGEND

- ▲ PREVIOUSLY INSTALLED VAPOR POINT
- PREVIOUSLY DRILLED SOIL BORING
- △ VAPOR POINT
- SOIL BORING
- OIL/WATER COLLECTION SUMP

FIGURE 2
SITE PLAN

TIME OIL CO. FACILITY NO. 01-284
12807 DES MOINES WAY SOUTH
SEATTLE, WASHINGTON

PROJECT NO. 20-023

APPENDIX A
FIELD PROCEDURES FOR DRILLING AND
SOIL SAMPLING



FIELD PROCEDURES FOR DRILLING AND SOIL SAMPLING

Drilling Procedures

The soil borings were drilled using a truck-mounted drill rig with 8- and 10--inch-diameter, continuous-flight, hollow-stem augers. To avoid cross-contamination, drilling equipment in contact with potentially contaminated material was decontaminated by steam cleaning before and after each use. Decontamination fluids were placed into drums for disposal.

Soil Sampling Procedures

During drilling, samples were collected beginning at 5 feet below grade and terminating at the total depth of each boring. Before and after each use, the sampler was washed using a phosphate-free detergent. Soil sampling was accomplished using a split-spoon sampler. A 140-pound slide hammer falling 30 inches was used to advance the sampler 18 inches ahead of the hollow-stem augers into undisturbed soil, and blow counts were recorded for every 6 inches of penetration to evaluate the consistency of the soil.

After retrieval from the augers, the sampler was split, and a soil sample was selected for possible chemical analysis. The samples were transferred into jars or stainless steel tubes, sealed, and labeled with the following information: Alisto project number, boring number, sample depth interval, sampler's initials, and date and time of collection. The sample was immediately placed in a cooler containing dry ice. Possession of the soil samples was documented from the field to a state-certified analytical laboratory by using a chain of custody form.

Soil samples and, when representative, drill cuttings were described by Alisto personnel using the Unified Soils Classification System, and field estimates of soil type, color, moisture, density, and consistency were noted on the boring logs. The logs were reviewed by a civil engineer registered in the state of Washington.



APPENDIX B

**BORING LOGS, WELL CONSTRUCTION DETAILS, AND
FIELD PROCEDURES FOR VAPOR
WELL INSTALLATION**



GEOLOGIC LEGEND

COARSE-GRAINED SOILS	GRAVELS more than 1/2 of coarse fraction > No. 4 Sieve	LITTLE OR NO FINES		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
		LITTLE OR NO FINES		GP	Poorly-graded gravels, gravel-sand mixtures
		APPRECIABLE NO FINES		GM	Silty gravels, gravel-sand-silt mixtures
		APPRECIABLE NO FINES		GC	Clayey gravels, gravel-sand-clay mixtures
	SANDS more than 1/2 of coarse fraction < No. 4 Sieve	LITTLE OR NO FINES		SW	Well-graded sands, gravelly sands, little or no fines
		LITTLE OR NO FINES		SP	Poorly-graded sands, gravelly sands, little or no fines
		APPRECIABLE NO FINES		SM	Silty sands, sand-silt mixtures
		APPRECIABLE NO FINES		SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS	SILTS AND CLAYS Liquid limit < 50		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
			OL	Organic silts and organic silty clays of low plasticity	
	SILTS AND CLAYS Liquid limit > 50		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	
			CH	Inorganic clays of high plasticity, fat clays	
			OH	Organic clays of medium to high plasticity, organic silts	
HIGHLY ORGANIC SOILS			Pt	Peat and other highly organic soils	
MISCELLANEOUS				Sandstone	

SYMBOL LEGEND:

	Concrete
	Sand
	Bentonite
	Driven Interval of Soil Sample
	Sample preserved for possible analysis

LEGEND TO BORING LOGS

TIME OIL CO. FACILITY NO. 01-284
12807 DES MOINES WAY SOUTH
SEATTLE, WASHINGTON

PROJECT NO. 20-023



ALISTO ENGINEERING GROUP
SEATTLE, WASHINGTON



ALISTO ENGINEERING GROUP
SEATTLE, WASHINGTON

LOG OF WELL VP-101

Page 1 of

SEE SITE PLAN

ALISTO PROJECT NO: 20-023-01

DATE DRILLED: 02/06/97

CLIENT: Time Oil Co., Facility No. 01-284

LOCATION: 12807 Des Moines Way S., Seattle, Washington

DRILLING METHOD: Hollow-stem Auger (10 1/4"); Split spoon

DRILLING COMPANY: Cascade Drilling

CASING ELEVATION:

LOGGED BY: Tanya Treat

APPROVED BY: John Day

BLOWS/6 IN	PTD VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
						GM	2" Asphalt
32,50/8"	2.4	<p>4" Sch. 40 PVC Casing</p> <p>4" 0.020" Slotted PVC Screen</p> <p>Concrete</p> <p>Bentonite</p> <p>2 1/2 Sand</p>					silty GRAVEL with sand: brown, moist; fine- to coarse-gravel. (fill)
80/5"	31		10			SM	silty SAND with gravel: moist, very dense; some cobbles. (fill)
100/5"	14						
100/8"	8.0		20				
140/5"						SP	SAND: gray, moist, very dense: fine- to medium-grained.
34,38 32	4.0						Same: less dense. Same: very dense.
42,80	10.0		30				
50,50	1.0						
50,50	1.0		40				
50/8"	1.8						
50,50/5"	1.0		50				
50,80/8"	2.0		60				Boring terminated at 56 feet.



ALISTO ENGINEERING GROUP
SEATTLE, WASHINGTON

LOG OF WELL VP-102

Page 1 of 1

SEE SITE PLAN

ALISTO PROJECT NO: 20-023-01

DATE DRILLED: 02/06/97

CLIENT: Time Oil Co., Facility No. 01-284

LOCATION: 12807 Des Moines Way S., Seattle, Washington

DRILLING METHOD: Hollow-stem Auger (8"); Split spoon

DRILLING COMPANY: Cascade Drilling

CASING ELEVATION:

LOGGED BY: Tanya Treat

APPROVED BY: John Day

BLOWS/6 IN.	PTD VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
						GM	2" Asphalt
						SM	sandy GRAVEL with silt: brown, moist; fine- to coarse-gravel, cobbles to 8" diameter. (fill)
100/8"	49.8		10				
150/8"	10.5		20				silty SAND with gravel: brown, moist, very dense. (fill)
120,100/4"	3.0		30			SP	SAND: gray, moist, dense; fine- to medium-grained.
50,50	1.2		40				
50,70/4"	1.0		50				
50,85	1.4		60				Boring terminated at 38 feet.



ALISTO ENGINEERING GROUP
SEATTLE, WASHINGTON

LOG OF BORING B-10

Page 1 of

SEE SITE PLAN

ALISTO PROJECT NO: 20-023-01

DATE DRILLED: 02/08/97

CLIENT: Time Oil Co., Facility No. 01-284

LOCATION: 12807 Des Moines Way S., Seattle, Washington

DRILLING METHOD: Hollow-stem Auger (10 1/4"); Split spoon

DRILLING COMPANY: Cascade Drilling

CASING ELEVATION:

LOGGED BY: Tanya Treat

APPROVED BY: John Day

BLOWS/6 IN.	PTD VALUES	BORING DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
						SM	2" Asphalt
20,15,18	0	Concrete					silty SAND with gravel; brown, moist, dense; fine- to coarse-grained sand. (till)
13,18,22	1.0		10				Same: red fragments.
80,50/5"	1.8						Same: orange and gray mottling, increased silt.
150/8"	3.8		20				
150/0" 100/8"	2.1	Bentonite Chips					cobble 3" diameter, no sample. Same: red fragments.
80 50/4"	2.3		30				Same: increased gravel percentage.
50,55/8"	2.0		40				
50,50						SP	SAND: gray, moist, very dense; fine- to medium-grained.
50,50/5"							
35 50/2"	1.7		50				
50,50	1.8						Boring terminated at 58 feet.
			60				

SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE GRAINED SOILS MORE THAN 50% RETAINED ON NO. 200 SIEVE	GRAVEL MORE THAN 60% 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 60% 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 60	INORGANIC	ML	SILT
			CL	CLAY
	ORGANIC	OL	ORGANIC SILT, ORGANIC CLAY	
		SILT AND CLAY LIQUID LIMIT 50 OR MORE	INORGANIC	MH
	CH			CLAY OF HIGH PLASTICITY, FAT CLAY
	ORGANIC		OH	ORGANIC CLAY, ORGANIC SILT
	HIGHLY ORGANIC SOILS			PT

NOTES:

1. Field classification is based on visual examination of soil in general accordance with ASTM D2486-90.
2. Soil classification using laboratory tests is based on ASTM D2487-90.
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

LABORATORY TESTS:

CA Chemical Analysis
GS Grain Size 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

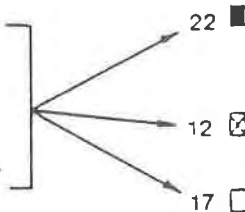
Gradual or Approximate
Location of Change
Between Soil Strata

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.

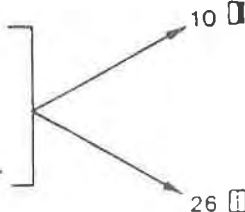


22 ■ Location of relatively
undisturbed sample

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:

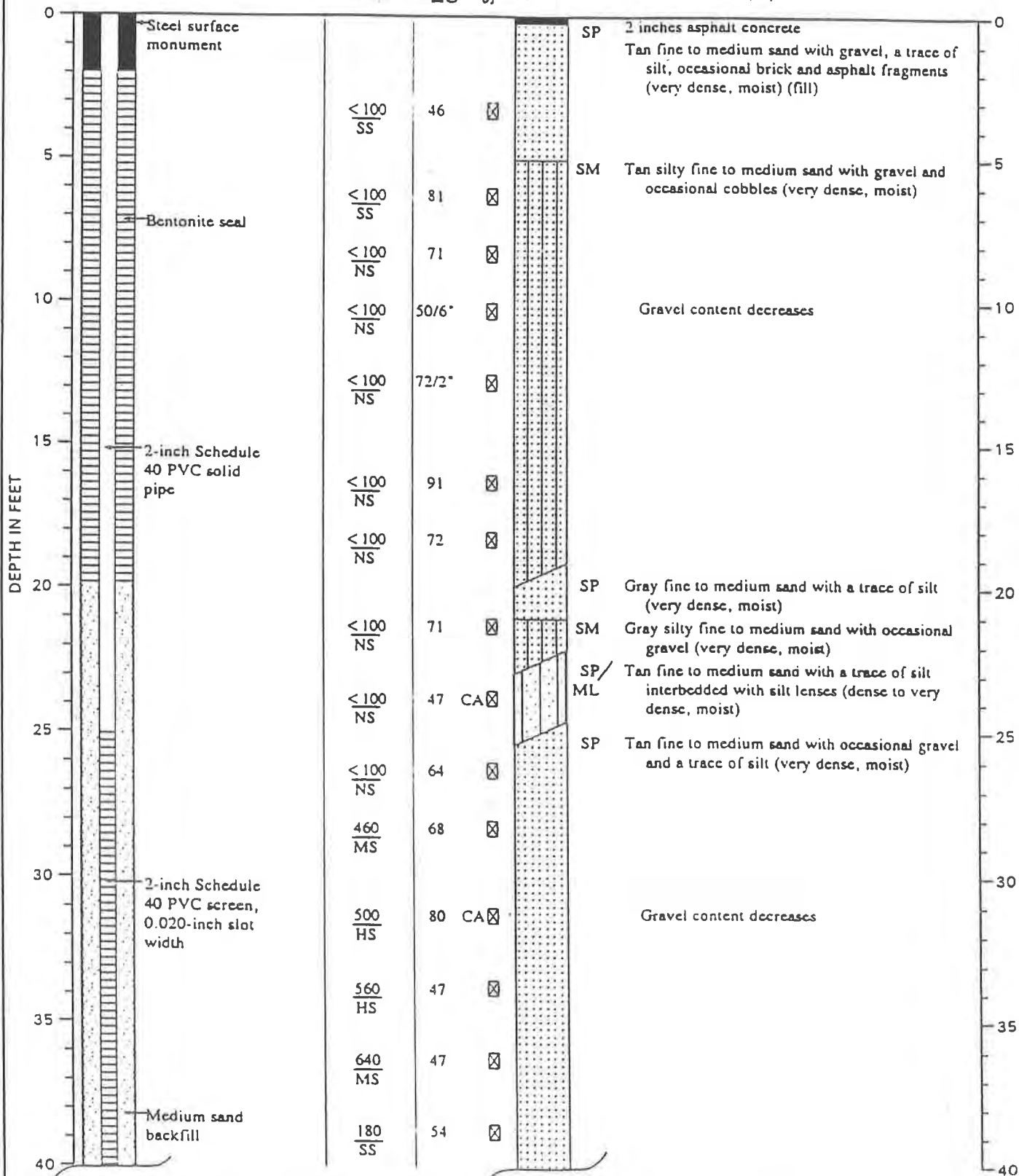
1. The reader must refer to the discussion in the report text, the Key to Boring Log Symbols and the exploration logs for a proper understanding of subsurface conditions.
2. Soil classification system is summarized in Figure A-1.

VAPOR PROBE NO. B-1/VP-1

WELL SCHEMATIC

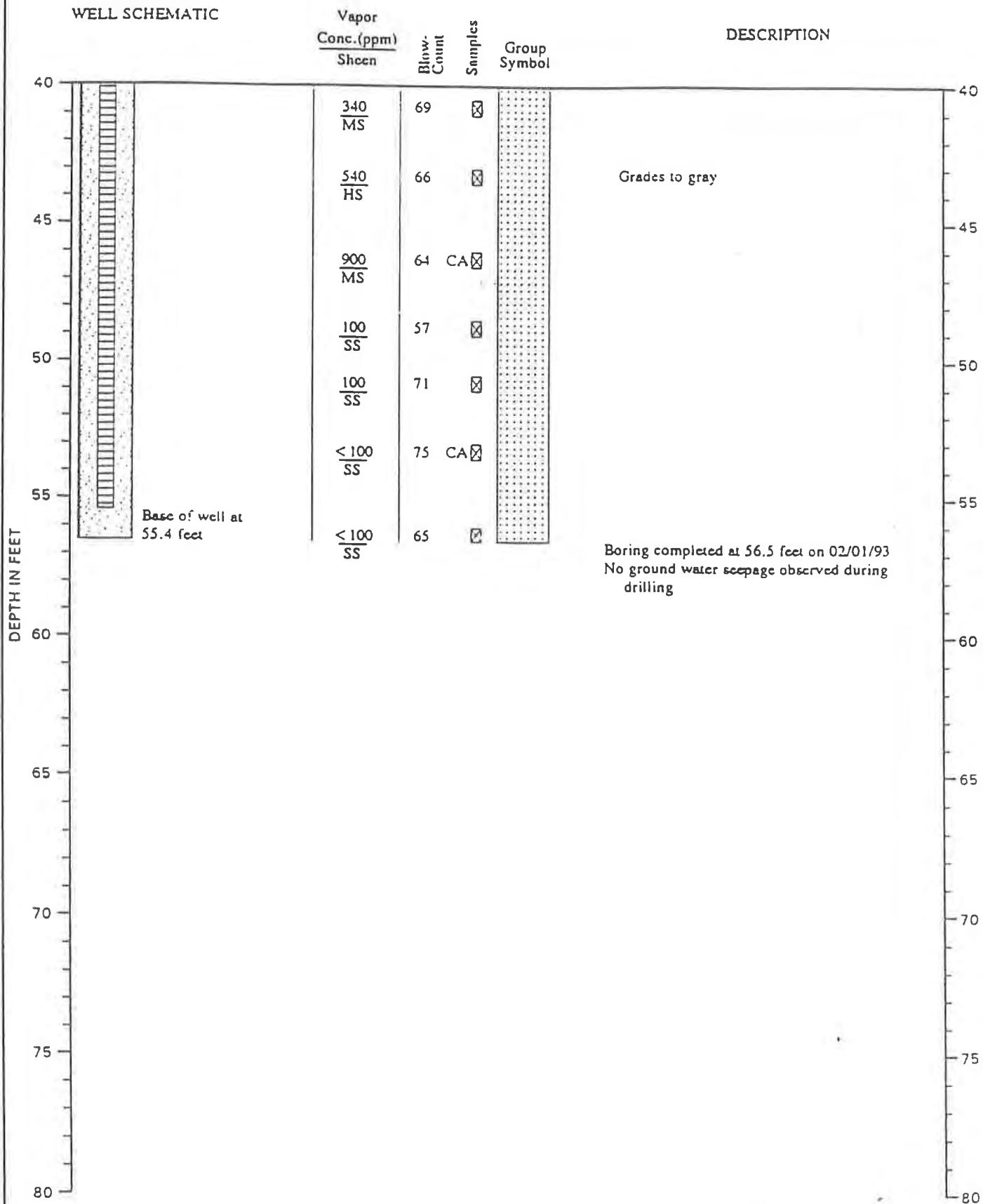
Casing Elevation (ft.):

Casing Stickup (ft.):



Note: See Figure A-2 for explanation of symbols

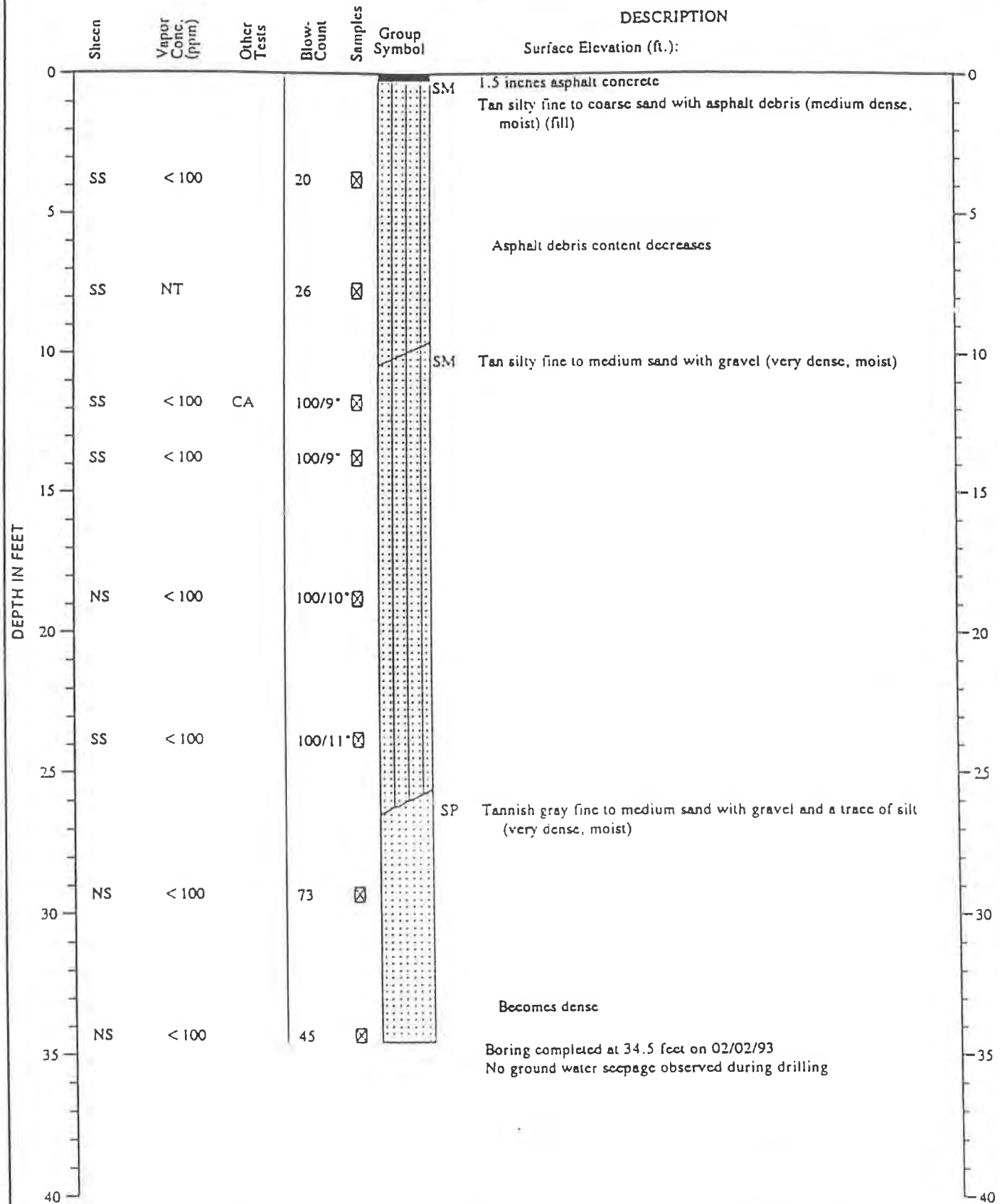
VAPOR PROBE NO. B-1/VP-1
(Continued)



Note: See Figure A-2 for explanation of symbols

TEST DATA

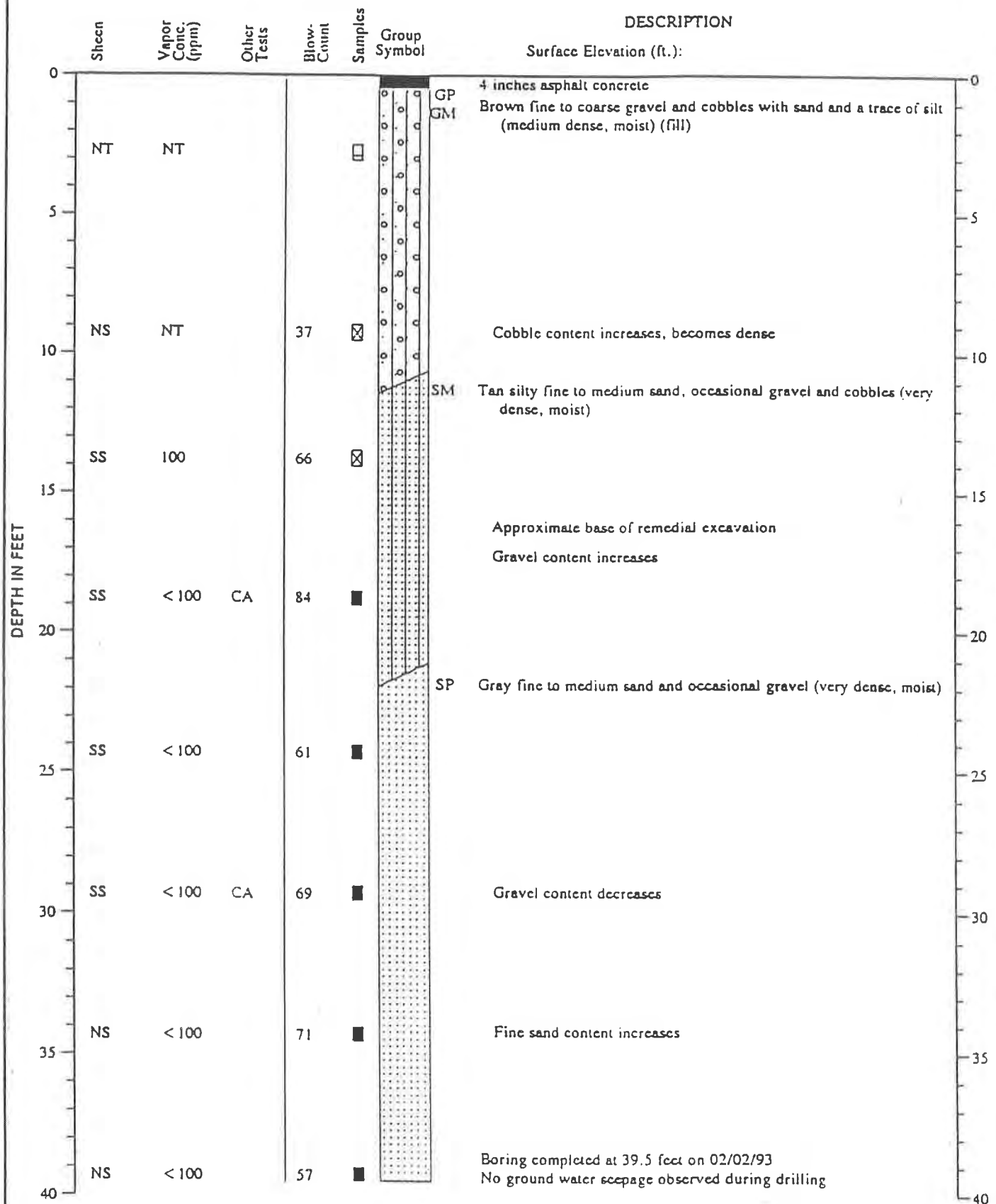
BORING B-2



Note: See Figure A-2 for explanation of symbols

TEST DATA

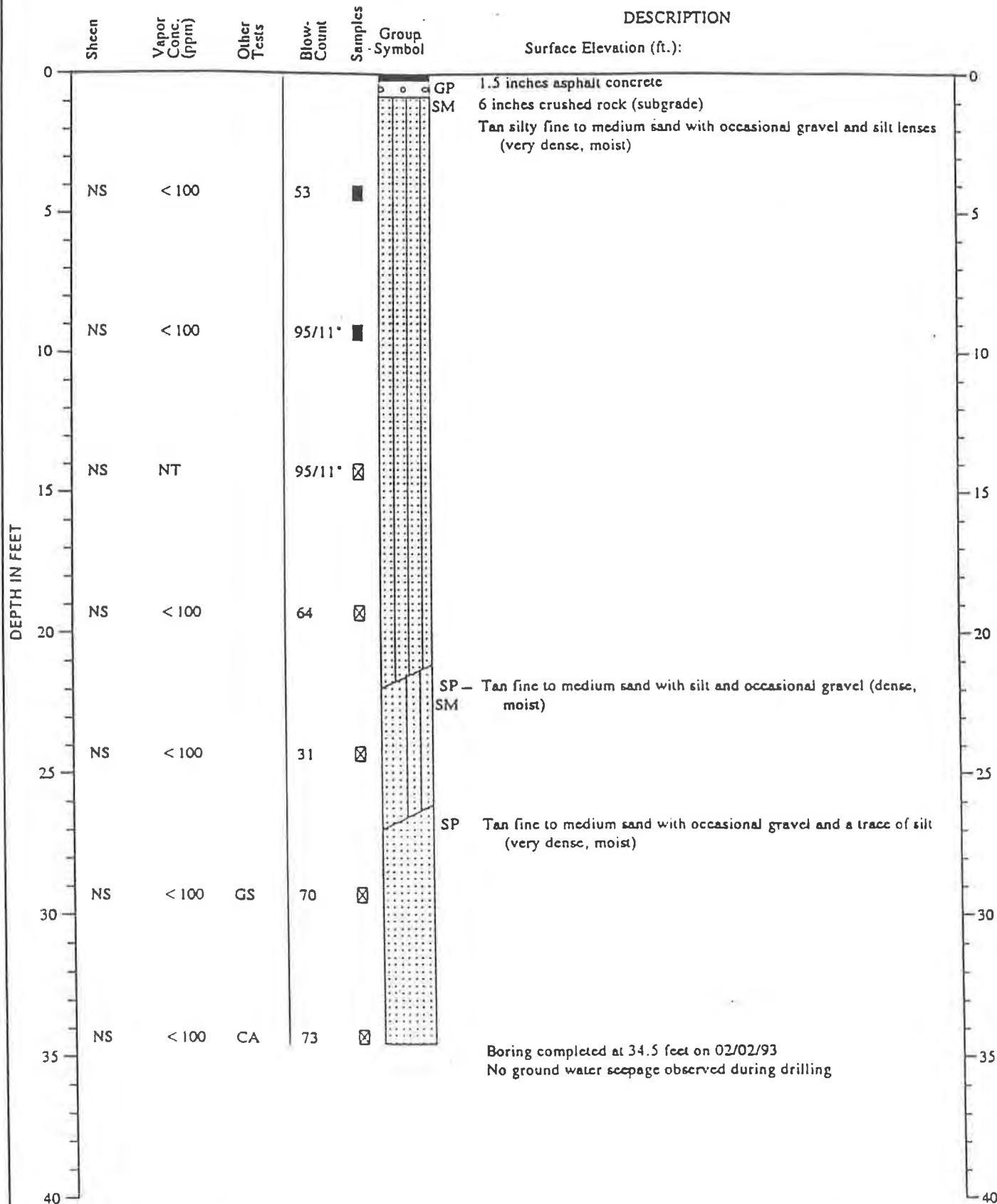
BORING B-3



Note: See Figure A-2 for explanation of symbols

TEST DATA

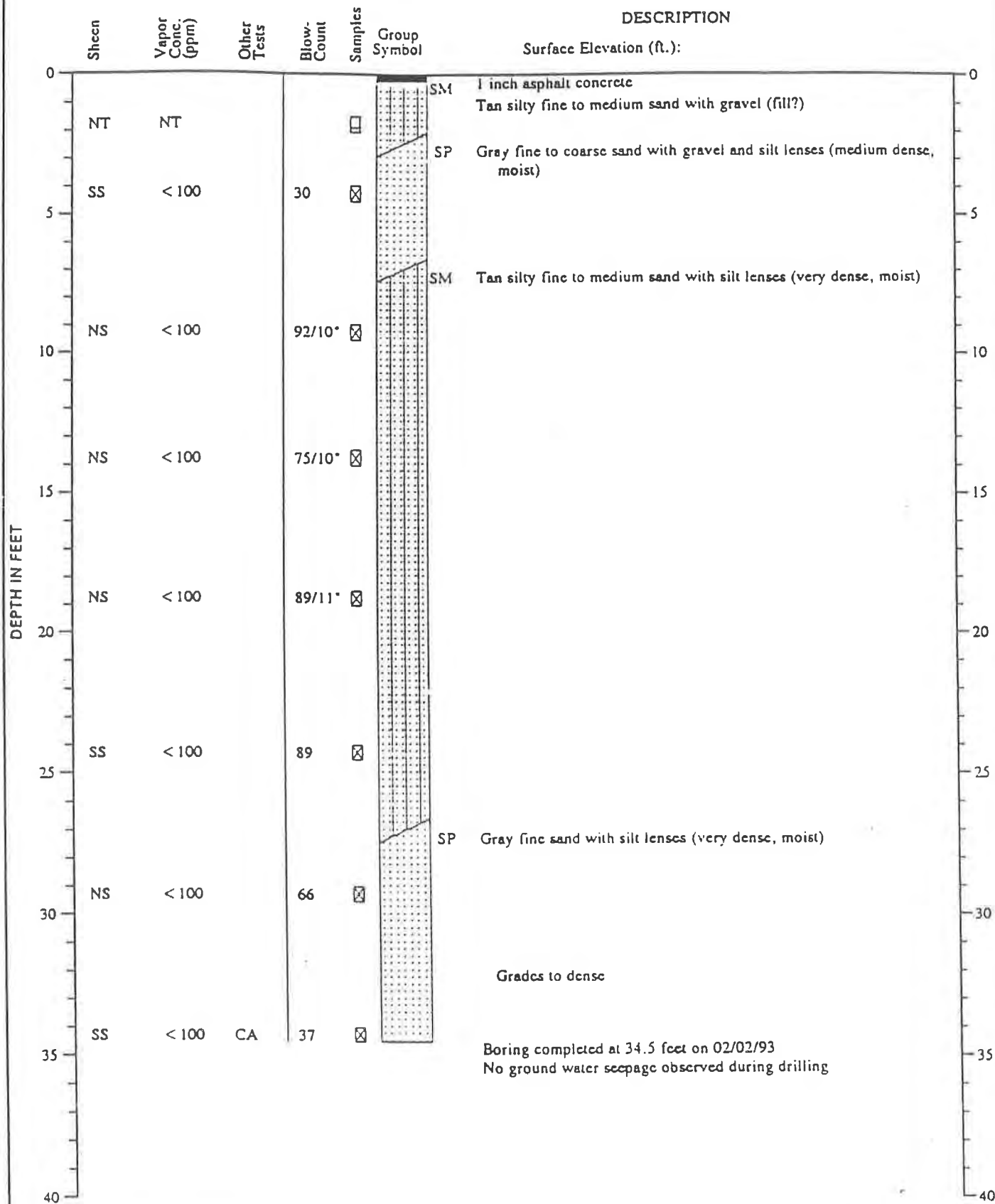
BORING B-4



Note: See Figure A-2 for explanation of symbols

TEST DATA

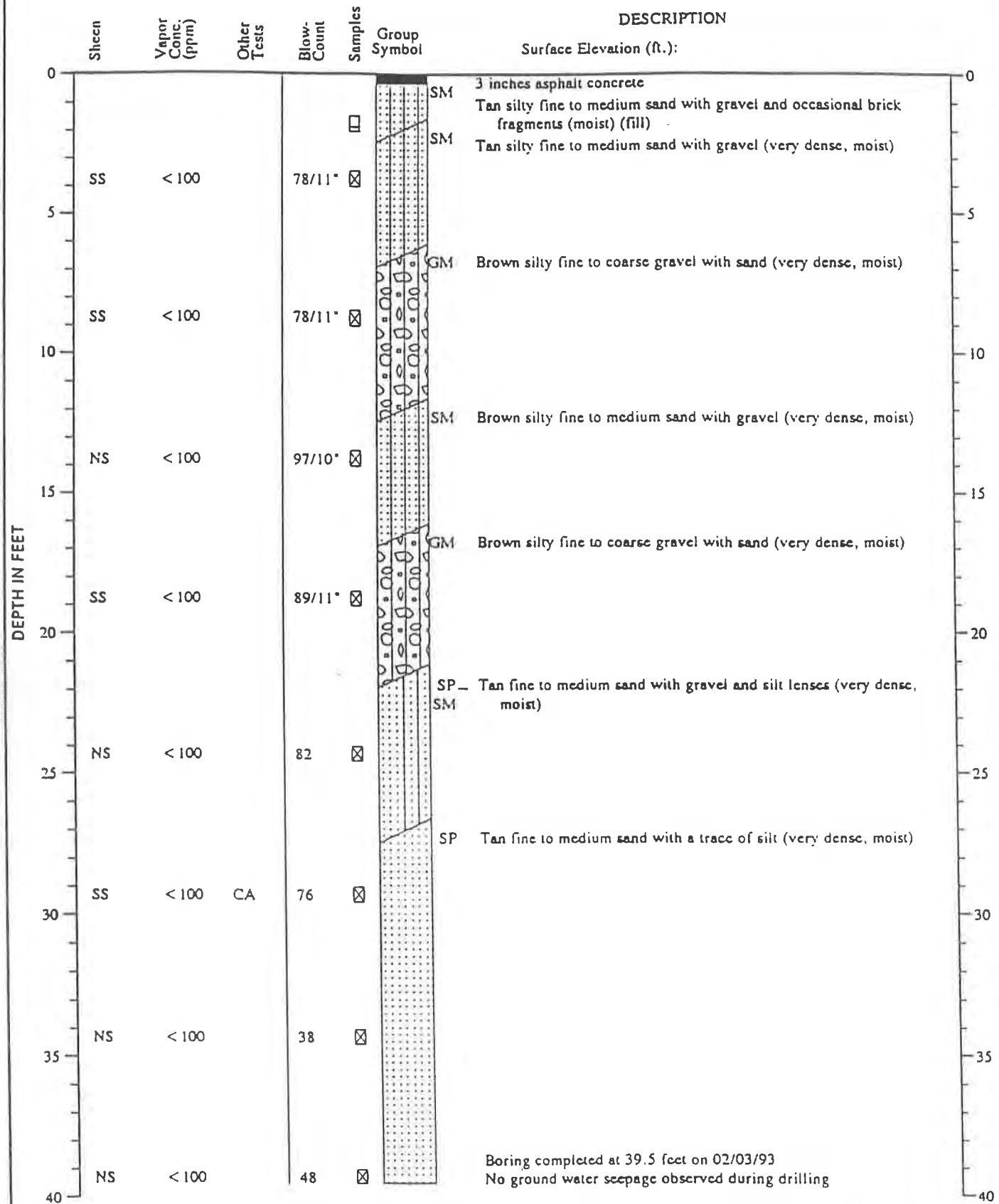
BORING B-5



Note: See Figure A-2 for explanation of symbols

TEST DATA

BORING B-6

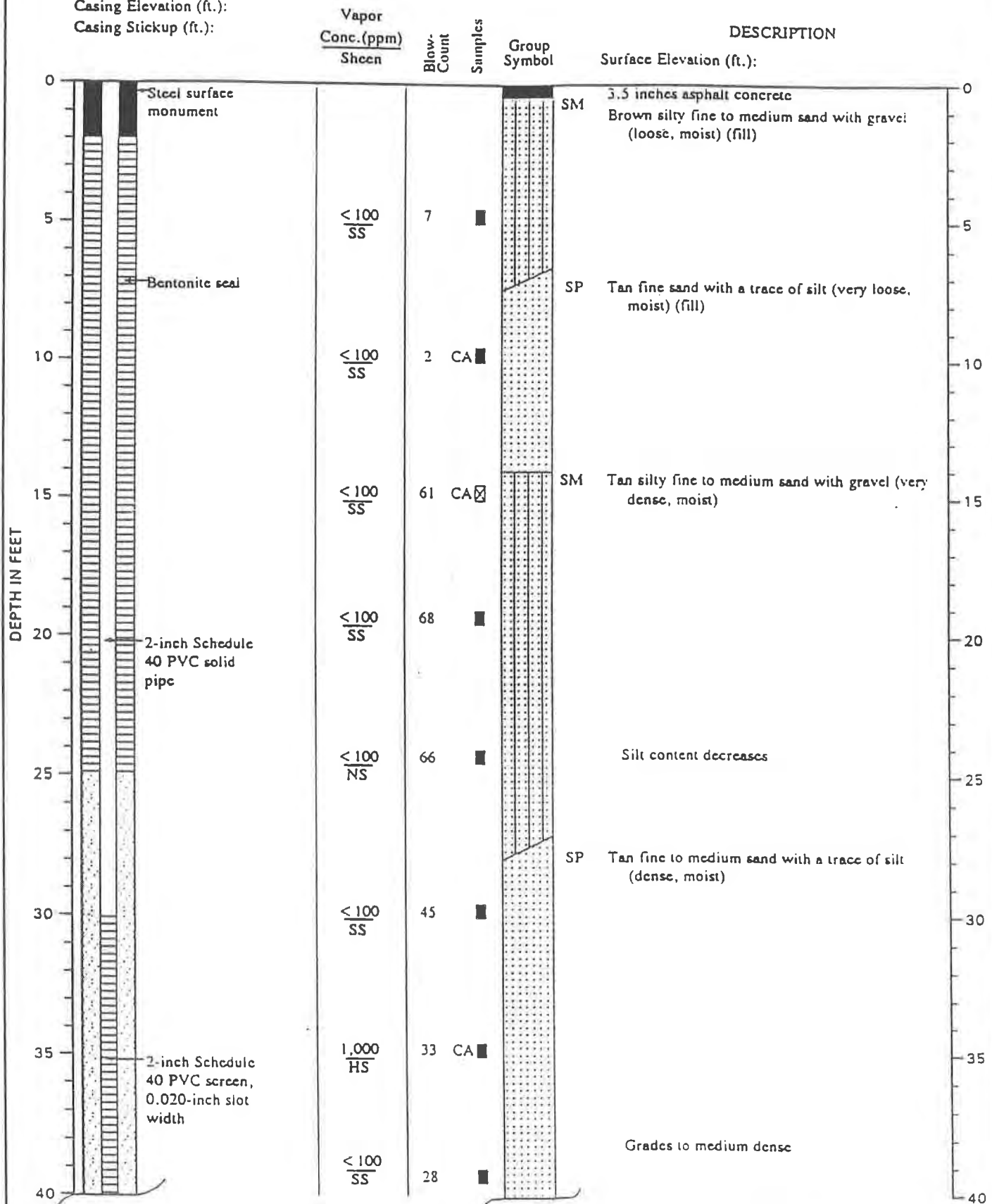


Note: See Figure A-2 for explanation of symbols

VAPOR PROBE NO. B-7/VP-7

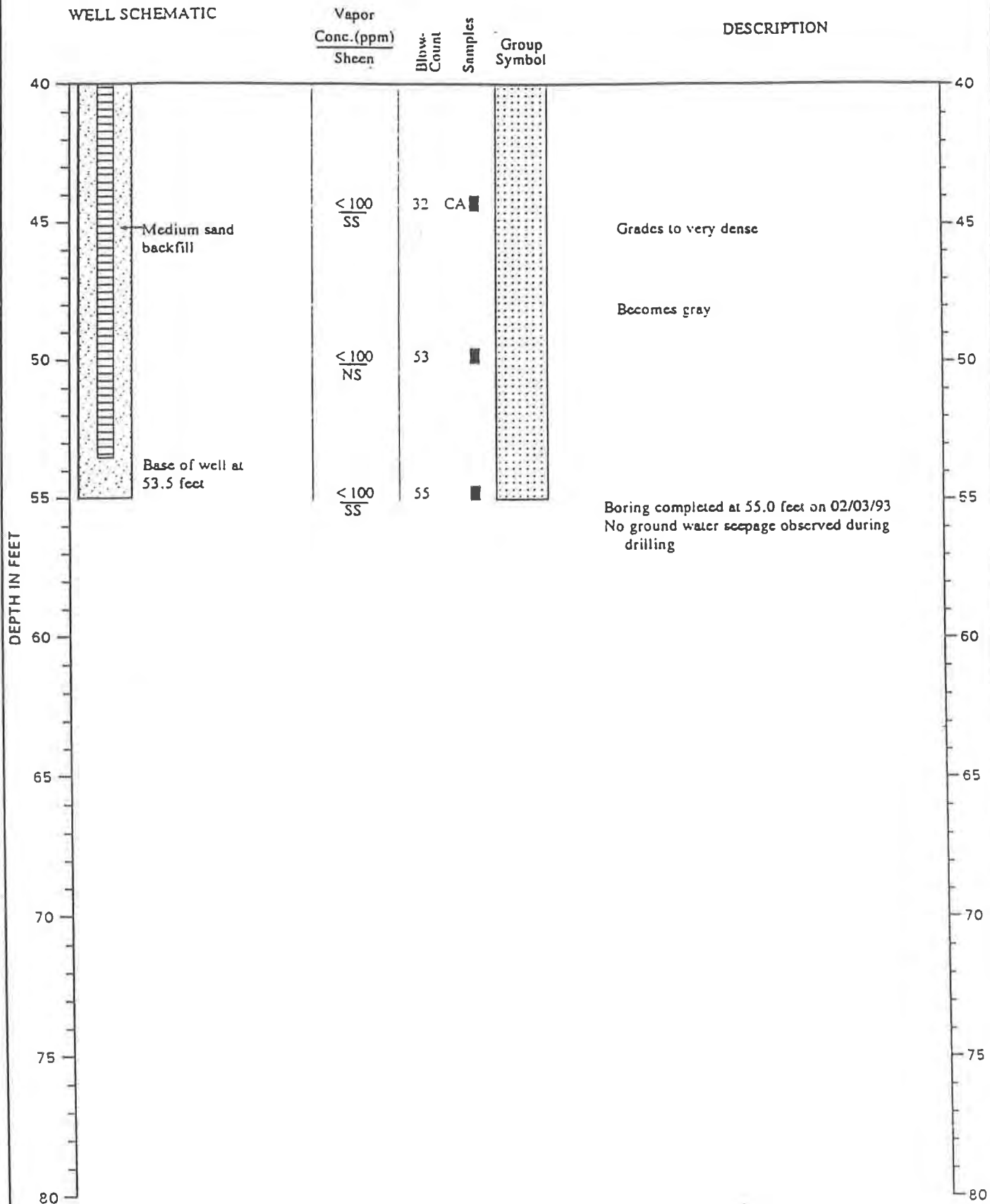
WELL SCHEMATIC

Casing Elevation (ft.):
Casing Stickup (ft.):



Note: See Figure A-2 for explanation of symbols

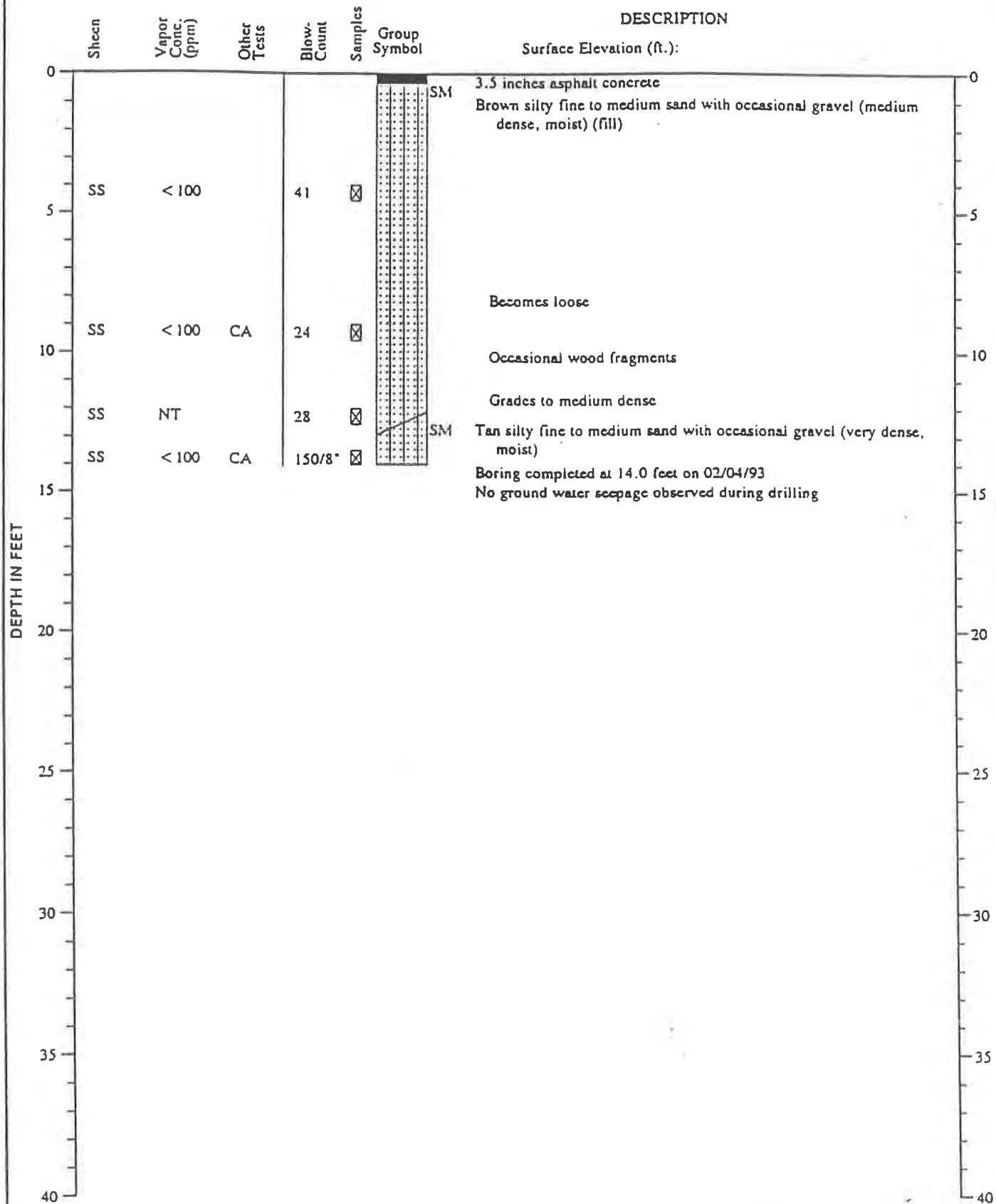
VAPOR PROBE NO. B-7/VP-7
(Continued)



Note: See Figure A-2 for explanation of symbols

TEST DATA

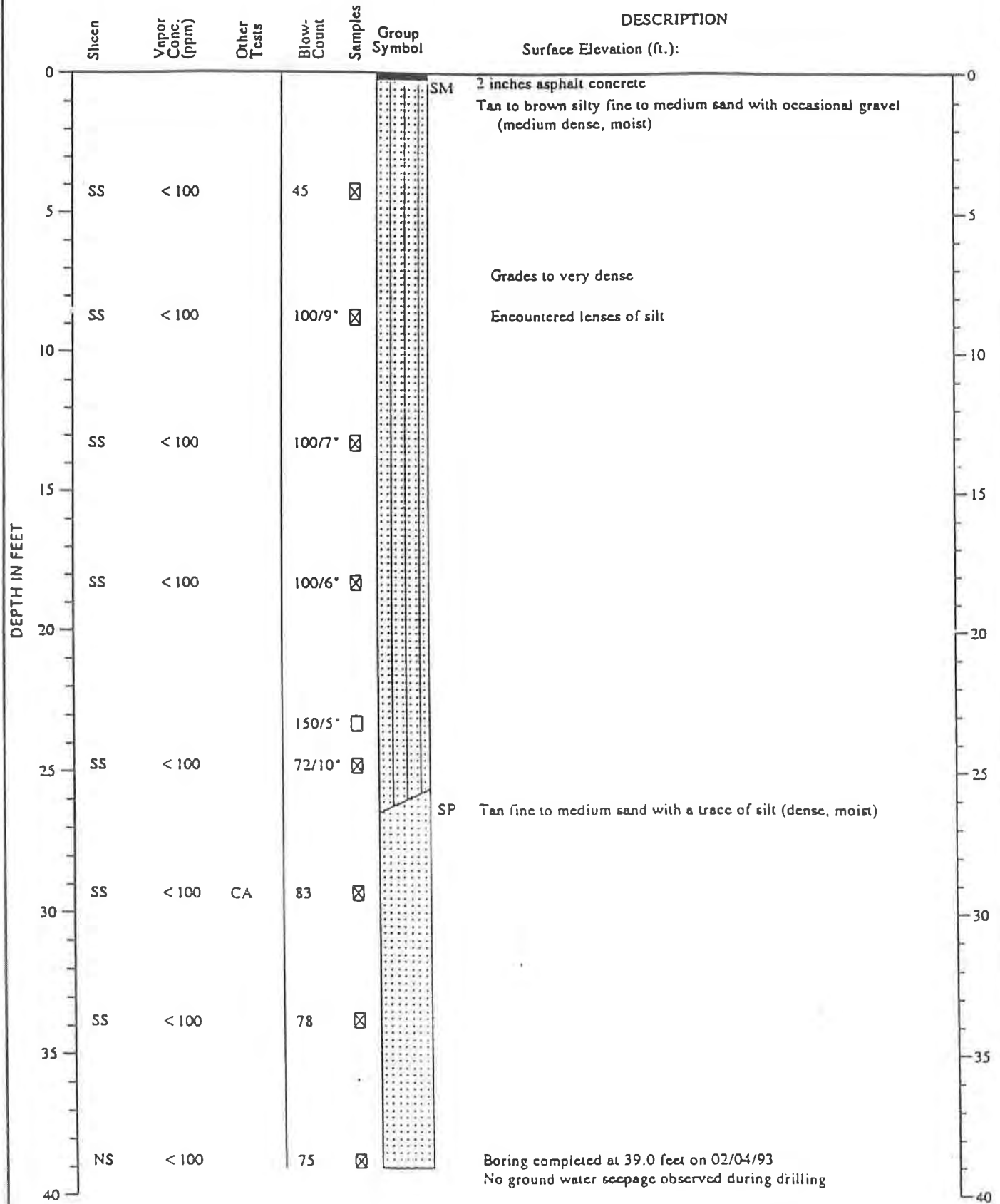
BORING B-8



Note: See Figure A-2 for explanation of symbols

TEST DATA

BORING B-9



Note: See Figure A-2 for explanation of symbols

FIELD PROCEDURES FOR VAPOR WELL INSTALLATION

Construction of the vapor wells was based on the stratigraphy in the soil borings and geologic conditions observed at the site. The well construction materials were introduced into the boring through the hollow-stem augers to centralize the well casing and minimize the possibility of native material entering the annular space of the well.

Vapor Well VP-101 was completed as a 4-inch-diameter well, and Vapor Well VP-102 was completed as a 2-inch-diameter well. The PVC well casing consisted of 0.020-inch slotted casing from 15 to 55 feet below grade in VP-101 and 10 to 35 feet below grade in VP-102. Solid casing was installed from the top of the slotted casing to approximately 0.5 foot below grade.

The annular space surrounding the screened portion was backfilled with sand (filter pack) to approximately 1 foot above the top of the screened section, and bentonite pellets were added to the annulus above the filter pack and hydrated. The remaining annulus was sealed with concrete, and a traffic-rated well box was installed around the top of the well casing and set in concrete. An expanding, watertight well cap and lock were installed on top of the well casing to secure the well from surface fluid and tampering.



APPENDIX C

FIELD PROCEDURES FOR CHAIN OF CUSTODY DOCUMENTATION, LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORDS



**FIELD PROCEDURES
FOR
CHAIN OF CUSTODY DOCUMENTATION**

The samples collected were handled in accordance with the Washington Department of Ecology guidelines. Each sample was labeled in the field and immediately stored in a cooler and preserved with blue or dry ice for transport to a state-certified laboratory for analysis.

The chain of custody record accompanied the samples and included the site and sample identification, date and time of sample collection, analysis requested, and the name and signature of the sampling technician. When transferring possession of the samples, the transferee signed and dated the chain of custody record.



**LABORATORY REPORTS
AND
CHAIN OF CUSTODY RECORDS**



American Environmental Network, Inc.

17400 SW Upper Boones Ferry Road • Suite 270 • Portland, OR 97224 • (503) 684-0447

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 01/20/1997
AEN Account No.: 90225
AEN Job Number: 97.00104

Project: Time Oil - Des Moines, WA
Location: 20023

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Sample Number	Sample Description	Matrix Type	Date Taken	Date Received
75030	Sump Water	Water	01/08/1997	01/09/1997

Approved by:



Marty French
AEN, INC.

The results from these samples relate only to the items tested. This report shall not be reproduced, except in full, without the written approval of the laboratory.

ANALYTICAL REPORT

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

01/20/1997
Job No.: 97.00104

Page: 2

Project Name: Time Oil - Des Moines, WA
Date Received: 01/09/1997

Sample Number Sample Description
75030 Sump Water

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Flashpoint	1010	>140	140	Degree	01/13/1997	
ICP/AA Digestion - Water	ICP	-			01/10/1997	
Arsenic, ICP	6010	ND	0.005	mg/L	01/13/1997	
Barium, ICP	6010	0.010	0.005	mg/L	01/13/1997	
Cadmium, ICP	6010	ND	0.002	mg/L	01/13/1997	
Chromium, ICP	6010	ND	0.005	mg/L	01/13/1997	
Lead, ICP	6010	ND	0.005	mg/L	01/13/1997	
Mercury, CV	7470	ND	0.0002	mg/L	01/15/1997	
Selenium, ICP	6010	ND	0.005	mg/L	01/13/1997	
Silver, ICP	6010	ND	0.005	mg/L	01/13/1997	
LOW LEVEL VOLATILES - 8260 (W)						
Dilution Factor	8260	1			01/15/1997	
Dichlorodifluoromethane	8260	ND	1.0	ug/L	01/15/1997	
Chloromethane	8260	ND	1.0	ug/L	01/15/1997	
Vinyl Chloride	8260	ND	2.0	ug/L	01/15/1997	
Bromomethane	8260	ND	2.0	ug/L	01/15/1997	
Chloroethane	8260	ND	1.0	ug/L	01/15/1997	
Trichlorofluoromethane	8260	ND	2.0	ug/L	01/15/1997	
1,1-Dichloroethene	8260	ND	1.0	ug/L	01/15/1997	
Acetone	8260	ND	20	ug/L	01/15/1997	
Iodomethane	8260	ND	5.0	ug/L	01/15/1997	
Carbon Disulfide	8260	ND	1.0	ug/L	01/15/1997	
Methylene Chloride	8260	ND	50	ug/L	01/15/1997	
Acrylonitrile	8260	ND	50	ug/L	01/15/1997	
t-1,2-Dichloroethene	8260	ND	1.0	ug/L	01/15/1997	
1,1-Dichloroethane	8260	ND	1.0	ug/L	01/15/1997	
Vinyl Acetate	8260	ND	1.0	ug/L	01/15/1997	
2-Butanone	8260	ND	20	ug/L	01/15/1997	
c-1,2-Dichloroethene	8260	ND	1.0	ug/L	01/15/1997	
2,2-Dichloropropane	8260	ND	1.0	ug/L	01/15/1997	
Bromochloromethane	8260	ND	1.0	ug/L	01/15/1997	
Chloroform	8260	ND	1.0	ug/L	01/15/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

ANALYTICAL REPORT

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

01/20/1997
Job No.: 97.00104

Page: 3

Project Name: Time Oil - Des Moines, WA
Date Received: 01/09/1997

Sample Number Sample Description
75030 Sump Water

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
1,1,1-Trichloroethane	8260	ND	1.0	ug/L	01/15/1997	
1,1-Dichloropropene	8260	ND	1.0	ug/L	01/15/1997	
Carbon Tetrachloride	8260	ND	1.0	ug/L	01/15/1997	
Benzene	8260	ND	1.0	ug/L	01/15/1997	
1,2-Dichloroethane	8260	ND	1.0	ug/L	01/15/1997	
Trichloroethene	8260	ND	1.0	ug/L	01/15/1997	
1,2-Dichloropropane	8260	ND	1.0	ug/L	01/15/1997	
Dibromomethane	8260	ND	1.0	ug/L	01/15/1997	
Bromodichloromethane	8260	ND	1.0	ug/L	01/15/1997	
2-CEVE	8260	ND	10	ug/L	01/15/1997	
cis-1,3-Dichloropropene	8260	ND	1.0	ug/L	01/15/1997	
4-methyl-2-pentanone	8260	ND	1.0	ug/L	01/15/1997	
Toluene	8260	ND	1.0	ug/L	01/15/1997	
trans-1,3-Dichloropropene	8260	ND	1.0	ug/L	01/15/1997	
1,1,2-Trichloroethane	8260	ND	1.0	ug/L	01/15/1997	
Tetrachloroethene	8260	ND	1.0	ug/L	01/15/1997	
1,3-Dichloropropane	8260	ND	1.0	ug/L	01/15/1997	
2-Hexanone	8260	ND	20	ug/L	01/15/1997	
Dibromochloromethane	8260	ND	1.0	ug/L	01/15/1997	
1,2-Dibromoethane (EDB)	8260	ND	1.0	ug/L	01/15/1997	
Chlorobenzene	8260	ND	1.0	ug/L	01/15/1997	
1,1,1,2-Tetrachloroethane	8260	ND	1.0	ug/L	01/15/1997	
Ethyl Benzene	8260	ND	1.0	ug/L	01/15/1997	
m,p-xylene	8260	ND	2.0	ug/L	01/15/1997	
o-xylene	8260	ND	1.0	ug/L	01/15/1997	
Styrene	8260	ND	1.0	ug/L	01/15/1997	
Bromoform	8260	ND	1.0	ug/L	01/15/1997	
Isopropylbenzene	8260	ND	1.0	ug/L	01/15/1997	
1,1,2,2-Tetrachloroethane	8260	ND	1.0	ug/L	01/15/1997	
t-1,4-Dichloro-2-butene	8260	ND	20	ug/L	01/15/1997	
1,2,3-Trichloropropane	8260	ND	1.0	ug/L	01/15/1997	
Bromobenzene	8260	ND	1.0	ug/L	01/15/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

ANALYTICAL REPORT

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

01/20/1997
Job No.: 97.00104

Page: 4

Project Name: Time Oil - Des Moines, WA
Date Received: 01/09/1997

Sample Number Sample Description
75030 Sump Water

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
N-Propylbenzene	8260	ND	1.0	ug/L	01/15/1997	
2-Chlorotoluene	8260	ND	1.0	ug/L	01/15/1997	
1,3,5-Trimethylbenzene	8260	ND	1.0	ug/L	01/15/1997	
4-Chlorotoluene	8260	ND	1.0	ug/L	01/15/1997	
Tert-butylbenzene	8260	ND	1.0	ug/L	01/15/1997	
1,2,4-Trimethylbenzene	8260	ND	1.0	ug/L	01/15/1997	
Sec-butylbenzene	8260	ND	1.0	ug/L	01/15/1997	
p-Isopropyltoluene	8260	ND	1.0	ug/L	01/15/1997	
1,3-Dichlorobenzene	8260	ND	1.0	ug/L	01/15/1997	
1,4-Dichlorobenzene	8260	ND	1.0	ug/L	01/15/1997	
1,2,3-Trimethylbenzene	8260	ND	1.0	ug/L	01/15/1997	
N-butylbenzene	8260	ND	1.0	ug/L	01/15/1997	
1,2-Dichlorobenzene	8260	ND	1.0	ug/L	01/15/1997	
1,2-Dibromo-3-chloropropane	8260	ND	1.0	ug/L	01/15/1997	
1,2,4-Trichlorobenzene	8260	ND	1.0	ug/L	01/15/1997	
Hexachlorobutadiene	8260	ND	1.0	ug/L	01/15/1997	
Naphthalene	8260	ND	5.0	ug/L	01/15/1997	
1,2,3-Trichlorobenzene	8260	ND	1.0	ug/L	01/15/1997	
PCBs - WATER						
Aroclor 1016	8080	ND	50	ug/L	01/16/1997	
Aroclor 1221	8080	ND	50	ug/L	01/16/1997	
Aroclor 1232	8080	ND	50	ug/L	01/16/1997	
Aroclor 1242	8080	ND	50	ug/L	01/16/1997	
Aroclor 1248	8080	ND	50	ug/L	01/16/1997	
Aroclor 1254	8080	ND	50	ug/L	01/16/1997	
Aroclor 1260	8080	ND	50	ug/L	01/16/1997	
IR PREP (W)	TPH-IR	-	-		01/10/1997	
EPA 418.1 (W)	418.1	ND	0.5	mg/L	01/13/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

SURROGATE REPORT

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

01/20/1997
Job No.: 97.00104

Page: 5

Project Name: Time Oil - Des Moines, WA
Date Received: 01/09/1997

<u>SURROGATES</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Sample Number	Sample Description			
75030	Sump Water			
1,2-Dichloroethane-d4	8260	99 %	01/15/1997	
Toluene-d8	8260	101 %	01/15/1997	
Bromofluorobenzene	8260	100 %	01/15/1997	
Dibutylchloredate (Surr.)	8080	55 %	01/16/1997	

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 01/20/1997

Job Number: 97.00104

Contact: Mr. John M. Day
Project: Time Oil - Des Moines, WA

Analyte	CCV		Percent Recovery	Date Analyzed
	True Concentration	Concentration Found		
Flashpoint	81.	80	98.8	01/13/1997
Arsenic, ICP	0.500	0.48	96.0	01/13/1997
Barium, ICP	0.500	0.49	98.0	01/13/1997
Cadmium, ICP	0.500	0.49	98.0	01/13/1997
Chromium, ICP	0.500	0.50	100.0	01/13/1997
Lead, ICP	0.500	0.50	100.0	01/13/1997
Mercury, CV	0.00200	0.0019	95.0	01/15/1997
Selenium, ICP	0.500	0.48	96.0	01/13/1997
Silver, ICP	0.500	0.49	98.0	01/13/1997
Silver, ICP	0.500	0.49	98.0	01/13/1997
LOW LEVEL VOLATILES - 8260 (W)				
1,1-Dichloroethene	50	51	102.0	01/15/1997
Benzene	50	48	96.0	01/15/1997
Trichloroethene	50	49	98.0	01/15/1997
Toluene	50	48	96.0	01/15/1997
Chlorobenzene	50	49	98.0	01/15/1997
PCBs - WATER				
Aroclor 1254	500	494	98.8	01/16/1997
EPA 418.1 (W)	40.2	36.7	91.3	01/13/1997
EPA 418.1 (W)	40.2	37.1	92.3	01/13/1997

CCV - Continuing Calibration Verification

Note: Recovery limits for 8240, 8260, 8270, 8010, 8020, 624, 625 specified in method.
Gasoline, Diesel, 418.1, 418.1M limits 80-120%. Metals recovery limits 80-120%.

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 01/20/1997

Job Number: 97.00104

Contact: Mr. John M. Day
Project: Time Oil - Des Moines, WA

Analyte	LCS		LCS % Recovery	Date Analyzed
	True Concentration	Concentration Found		
Arsenic, ICP	0.500	0.47	94.0	01/13/1997
Barium, ICP	0.500	0.48	96.0	01/13/1997
Cadmium, ICP	0.500	0.46	92.0	01/13/1997
Chromium, ICP	0.500	0.48	96.0	01/13/1997
Lead, ICP	0.500	0.47	94.0	01/13/1997
Mercury, CV	0.00100	0.0009	90.0	01/16/1997
Selenium, ICP	0.500	0.46	92.0	01/13/1997
Silver, ICP	0.500	0.48	96.0	01/13/1997
PCBs - WATER				
Aroclor 1254	2.50	2.25	90.0	01/16/1997
EPA 418.1 (W)	1.07	1.30	121.5	01/13/1997
EPA 418.1 (W)	1.07	1.24	115.9	01/13/1997

LCS - Laboratory Control Standard

Note: Recovery limits for fuels 80-120%. 8010, 8020, 8240, 8260, 8270, 624, 625 specified in method.
Recovery limits for metals analyses 80-120%. 418.1 limits are 90-140%.

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 01/20/1997

Job Number: 97.00104

Contact: Mr. John M. Day
Project: Time Oil - Des Moines, WA

Analyte	Matrix	Sample	Spike	Units	Percent	MSD	MSD		Percent	MS/MSD	Flags
	Spike Result		Amount				Spike	Units		RPD	
Arsenic, ICP	0.48	ND	0.500	mg/L	96.0	0.48	0.500	mg/L	96.0	0.0	
Barium, ICP	0.49	0.010	0.500	mg/L	96.0	0.52	0.500	mg/L	102.0	6.0	
Cadmium, ICP	0.45	ND	0.500	mg/L	90.0	0.46	0.500	mg/L	92.0	2.2	
Chromium, ICP	0.47	ND	0.500	mg/L	94.0	0.48	0.500	mg/L	96.0	2.1	
Lead, ICP	0.46	ND	0.500	mg/L	92.0	0.47	0.500	mg/L	94.0	2.2	
Mercury, CV	0.0020	ND	0.0020	mg/L	100.0	0.0017	0.0020	mg/L	85.0	16.1	
Selenium, ICP	0.45	ND	0.500	mg/L	90.0	0.47	0.500	mg/L	94.0	4.3	
Silver, ICP	0.48	ND	0.500	mg/L	96.0	0.48	0.500	mg/L	96.0	0.0	
LOW LEVEL VOLATILES - 8260											
1,1-Dichloroethene	50	ND	50	ug/L	100.0	49	50	ug/L	98.0	1.9	
Benzene	50	ND	50	ug/L	100.0	49	50	ug/L	98.0	1.9	
Trichloroethene	50	ND	50	ug/L	100.0	48	50	ug/L	96.0	4.0	
Toluene	50	ND	50	ug/L	100.0	49	50	ug/L	98.0	1.9	
Chlorobenzene	50	ND	50	ug/L	100.0	49	50	ug/L	98.0	1.9	

QC Sample:

NOTE: Matrix Spike Samples may not be samples from this job.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

dil. = Diluted Out

QUALITY CONTROL REPORT BLANKS

Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 01/20/1997

Job Number: 97.00104

Contact: Mr. John M. Day
Project: Time Oil - Des Moines, WA
Location: 20023

Analyte	Blank Analysis	MDL	Units	Date Analyzed
Arsenic, ICP	ND	0.005	mg/L	01/13/1997
Barium, ICP	ND	0.005	mg/L	01/13/1997
Cadmium, ICP	ND	0.002	mg/L	01/13/1997
Chromium, ICP	ND	0.005	mg/L	01/13/1997
Lead, ICP	ND	0.005	mg/L	01/13/1997
Mercury, CV	ND	0.0002	mg/L	01/15/1997
Selenium, ICP	ND	0.005	mg/L	01/13/1997
Silver, ICP	ND	0.005	mg/L	01/13/1997
LOW LEVEL VOLATILES - 8260 (W)				
Dichlorodifluoromethane	ND	1.0	ug/L	01/15/1997
Chloromethane	ND	1.0	ug/L	01/15/1997
Vinyl Chloride	ND	2.0	ug/L	01/15/1997
Bromomethane	ND	2.0	ug/L	01/15/1997
Chloroethane	ND	1.0	ug/L	01/15/1997
Trichlorofluoromethane	ND	2.0	ug/L	01/15/1997
1,1-Dichloroethene	ND	1.0	ug/L	01/15/1997
Acetone	ND	20	ug/L	01/15/1997
Iodomethane	ND	5.0	ug/L	01/15/1997
Carbon Disulfide	ND	1.0	ug/L	01/15/1997
Methylene Chloride	ND	50	ug/L	01/15/1997
Acrylonitrile	ND	50	ug/L	01/15/1997
t-1,2-Dichloroethene	ND	1.0	ug/L	01/15/1997
1,1-Dichloroethane	ND	1.0	ug/L	01/15/1997
Vinyl Acetate	ND	1.0	ug/L	01/15/1997
2-Butanone	ND	20	ug/L	01/15/1997
c-1,2-Dichloroethene	ND	1.0	ug/L	01/15/1997

Advisory Control Limits for Blanks:

Metals/Wet Chemistry/ Conventional/GC - all compounds should be less than the Reporting Limit.

GC/MS - Semi-Volatiles - all compounds should be less than the Reporting Limit except for phthalates which should be less than 5 times the reporting limit.

QUALITY CONTROL REPORT BLANKS

Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 01/20/1997

Job Number: 97.00104

Contact: Mr. John M. Day
Project: Time Oil - Des Moines, WA
Location: 20023

Analyte	Blank		Units	Date Analyzed
	Analysis	MDL		
2,2-Dichloropropane	ND	1.0	ug/L	01/15/1997
Bromochloromethane	ND	1.0	ug/L	01/15/1997
Chloroform	ND	1.0	ug/L	01/15/1997
1,1,1-Trichloroethane	ND	1.0	ug/L	01/15/1997
1,1-Dichloropropene	ND	1.0	ug/L	01/15/1997
Carbon Tetrachloride	ND	1.0	ug/L	01/15/1997
Benzene	ND	1.0	ug/L	01/15/1997
1,2-Dichloroethane	ND	1.0	ug/L	01/15/1997
Trichloroethene	ND	1.0	ug/L	01/15/1997
1,2-Dichloropropane	ND	1.0	ug/L	01/15/1997
Dibromomethane	ND	1.0	ug/L	01/15/1997
Bromodichloromethane	ND	1.0	ug/L	01/15/1997
2-CEVE	ND	10	ug/L	01/15/1997
cis-1,3-Dichloropropene	ND	1.0	ug/L	01/15/1997
4-methyl-2-pentanone	ND	1.0	ug/L	01/15/1997
Toluene	ND	1.0	ug/L	01/15/1997
trans-1,3-Dichloropropene	ND	1.0	ug/L	01/15/1997
1,1,2-Trichloroethane	ND	1.0	ug/L	01/15/1997
Tetrachloroethene	ND	1.0	ug/L	01/15/1997
1,3-Dichloropropane	ND	1.0	ug/L	01/15/1997
2-Hexanone	ND	20	ug/L	01/15/1997
Dibromochloromethane	ND	1.0	ug/L	01/15/1997
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	01/15/1997
Chlorobenzene	ND	1.0	ug/L	01/15/1997
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	01/15/1997
Ethyl Benzene	ND	1.0	ug/L	01/15/1997

Advisory Control Limits for Blanks:

Metals/Wet Chemistry/ Conventional/GC - all compounds should be less than the Reporting Limit.

GC/MS - Semi-Volatiles - all compounds should be less than the Reporting Limit except for phthalates which should be less than 5 times the reporting limit.

QUALITY CONTROL REPORT BLANKS

Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 01/20/1997

Job Number: 97.00104

Contact: Mr. John M. Day
Project: Time Oil - Des Moines, WA
Location: 20023

Analyte	Blank		Units	Date
	Analysis	MDL		Analyzed
m,p-xylene	ND	2.0	ug/L	01/15/1997
o-xylene	ND	1.0	ug/L	01/15/1997
Styrene	ND	1.0	ug/L	01/15/1997
Bromoform	ND	1.0	ug/L	01/15/1997
Isopropylbenzene	ND	1.0	ug/L	01/15/1997
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	01/15/1997
t-1,4-Dichloro-2-butene	ND	20	ug/L	01/15/1997
1,2,3-Trichloropropane	ND	1.0	ug/L	01/15/1997
Bromobenzene	ND	1.0	ug/L	01/15/1997
N-Propylbenzene	ND	1.0	ug/L	01/15/1997
2-Chlorotoluene	ND	1.0	ug/L	01/15/1997
1,3,5-Trimethylbenzene	ND	1.0	ug/L	01/15/1997
4-Chlorotoluene	ND	1.0	ug/L	01/15/1997
Tert-butylbenzene	ND	1.0	ug/L	01/15/1997
1,2,4-Trimethylbenzene	ND	1.0	ug/L	01/15/1997
Sec-butylbenzene	ND	1.0	ug/L	01/15/1997
p-Isopropyltoluene	ND	1.0	ug/L	01/15/1997
1,3-Dichlorobenzene	ND	1.0	ug/L	01/15/1997
1,4-Dichlorobenzene	ND	1.0	ug/L	01/15/1997
1,2,3-Trimethylbenzene	ND	1.0	ug/L	01/15/1997
N-butylbenzene	ND	1.0	ug/L	01/15/1997
1,2-Dichlorobenzene	ND	1.0	ug/L	01/15/1997
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	01/15/1997
1,2,4-Trichlorobenzene	ND	1.0	ug/L	01/15/1997
Hexachlorobutadiene	ND	1.0	ug/L	01/15/1997
Naphthalene	ND	5.0	ug/L	01/15/1997

Advisory Control Limits for Blanks:

Metals/Wet Chemistry/ Conventional/GC - all compounds should be less than the Reporting Limit.

GC/MS - Semi-Volatiles - all compounds should be less than the Reporting Limit except for phthalates which should be less than 5 times the reporting limit.

QUALITY CONTROL REPORT BLANKS

Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 01/20/1997

Job Number: 97.00104

Contact: Mr. John M. Day
Project: Time Oil - Des Moines, WA
Location: 20023

Analyte	Blank Analysis	MDL	Units	Date Analyzed
1,2,3-Trichlorobenzene	ND	1.0	ug/L	01/15/1997
1,2-Dichloroethane-d4	98		%	01/15/1997
Toluene-d8	99		%	01/15/1997
Bromofluorobenzene	101		%	01/15/1997
PCBs - WATER				
Aroclor 1016	ND	50	ug/L	01/16/1997
Aroclor 1221	ND	50	ug/L	01/16/1997
Aroclor 1232	ND	50	ug/L	01/16/1997
Aroclor 1242	ND	50	ug/L	01/16/1997
Aroclor 1248	ND	50	ug/L	01/16/1997
Aroclor 1254	ND	50	ug/L	01/16/1997
Aroclor 1260	ND	50	ug/L	01/16/1997
Dibutylchloroendate (Surr.)	84		%	01/16/1997
EPA 418.1 (W)	ND	0.5	mg/L	01/13/1997

Advisory Control Limits for Blanks:

Metals/Wet Chemistry/ Conventional/GC - all compounds should be less than the Reporting Limit.

GC/MS - Semi-Volatiles - all compounds should be less than the Reporting Limit except for phthalates which should be less than 5 times the reporting limit.

A This sample does not have a typical gasoline pattern.

B1 This sample does not have a typical diesel pattern.

B The blank exhibited a positive result greater than the reporting limit for this compound.

C The sample appears to contain a lighter hydrocarbon than gasoline.

D The sample appears to extend to a heavier hydrocarbon range than gasoline.

E The sample appears to extend to a lighter hydrocarbon range than diesel.

F The sample appears to extend to a heavier hydrocarbon range than diesel.

G The positive result for gasoline is due to single component contamination.

H The gasoline elution pattern for the sample is not typical.

I The oil pattern for this sample is not typical.

J The result for this compound is an estimated concentration.

L The LCS recovery exceeded control limits. See the LCS page of this report.

M MS and/or MSD percent recovery exceeds control limits.

MR The MS/MSD RPD is greater than 20%. The sample was re-extracted and re-analyzed with similar results. This is due to a matrix interference, likely a non-homogeneity of the sample.

N Manual integration performed on sample for quantification.

P A post digestion spike was analyzed, and recoveries are within control limits.

Q Detection limits elevated due to sample matrix.

R The duplicate RPD was greater than 20%. The sample was re-extracted and re-analyzed with similar results. This indicates a matrix interference in the sample, likely a non-homogeneity of the sample.

SR Surrogate recovery outside control limits. See the surrogate page of the report.

U Sample not provided to laboratory in proper sampling container.

V Analysis was requested for volatiles analysis, sample contained headspace.

W The duplicate RPD was greater than 20%. Due to insufficient sample, re-analysis was not possible.

X Sample was analyzed outside recommended holding times.

Y The result for this parameter was greater than the TCLP regulatory limit.

Z The pattern seen for the parameter being analyzed is not typical.



97 661211

25/1/4

0075 700

0-1923

PROJECT NAME/LOCATION	Time a.i.d. - Det. Moner W/

PROJECT NUMBER 20023

John Doe

BY: ET

SIGNATURE

SIGNATURE

ANALYSES

TURNAROUND TIME 10 DAY (S)

[illegible]

INVOICE TO: *Pro/prio*

DATE/TIME

RELINQUISHED BY:

DATE/TIME

RECEIVED BY:

BATHTIME

RELINQUISHED BY:

DATE/TIME:

RECEIVED FOR LABORATORY BY

REMARKS:

American Environmental Network, Inc.

17400 SW Upper Boones Ferry Road • Suite 270 • Portland, OR 97224 • (503) 684-0447

Ms. Anne Wilkinson
Time Oil Company
2737 West Commodore Way
Seattle, WA 98199-1233

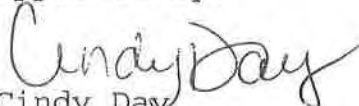
Date: 02/28/1997
AEN Account No.: 90687
AEN Job Number: 97.00517

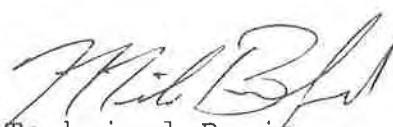
Project: Time Oil - Des Moines Way
Location: 20023

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Sample Number	Sample Description	Matrix Type	Date Taken	Date Received
76671	VP-101-10	SOIL	02/06/1997	02/14/1997
76672	VP-101-15	SOIL	02/06/1997	02/14/1997
76673	VP-101-30	SOIL	02/06/1997	02/14/1997
76674	VP-101-55	SOIL	02/06/1997	02/14/1997
76675	VP-102-10	SOIL	02/06/1997	02/14/1997
76676	VP-102-15	SOIL	02/06/1997	02/14/1997
76677	VP-102-20	SOIL	02/06/1997	02/14/1997
76678	VP-102-30	SOIL	02/06/1997	02/14/1997
76679	B-11-20	SOIL	02/06/1997	02/14/1997
76680	B-11-30	SOIL	02/06/1997	02/14/1997
76681	B-11-40	SOIL	02/06/1997	02/14/1997
76682	B-11-55	SOIL	02/06/1997	02/14/1997

Approved by:


Cindy Day
Project Manager
AEN, INC.


Technical Review
AEN, INC.

The results from these samples relate only to the items tested. This report shall not be reproduced, except in full, without the written approval of the laboratory.

ANALYTICAL REPORT

Ms. Anne Wilkinson
Time Oil Company
2737 West Commodore Way
Seattle, WA 98199-1233

02/28/1997
Job No.: 97.00517

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Project Name: Time Oil - Des Moines Way
Date Received: 02/14/1997

Sample Number Sample Description
76671 VP-101-10

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	93	0.01	%	02/18/1997	
ICP/AA Digestion - Soil	ICP	-	-		02/20/1997	
Lead, ICP	6010	1.8	1.1	mg/kg d	02/26/1997	M, MR, P
GAS/BTEX (S) PREP		-			02/19/1997	
BTEX / WA-TPH-GAS (S)						
Dilution Factor		1			02/19/1997	
Benzene	8020	ND	0.027	mg/kg d	02/19/1997	
Toluene	8020	ND	0.027	mg/kg d	02/19/1997	
Ethyl Benzene	8020	ND	0.027	mg/kg d	02/19/1997	
Xylenes, total	8020	ND	0.027	mg/kg d	02/19/1997	
WA TPH-Gas	TPH-G	20.	5.4	mg/kg d	02/20/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1	-		02/18/1997	
Gasoline	WTPH-HCID	Gas	11.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	27.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	54.	mg/kg d	02/18/1997	

Sample Number Sample Description
76672 VP-101-15

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	92	0.01	%	02/18/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1	-		02/18/1997	
Gasoline	WTPH-HCID	ND	11.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	27.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	54.	mg/kg d	02/18/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

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ANALYTICAL REPORT

Ms. Anne Wilkinson
Time Oil Company
2737 West Commodore Way
Seattle, WA 98199-1233

02/28/1997
Job No.: 97.00517

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Project Name: Time Oil - Des Moines Way
Date Received: 02/14/1997

Sample Number Sample Description
76673 VP-101-30

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	91	0.01	%	02/18/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1	-		02/18/1997	
Gasoline	WTPH-HCID	ND	11.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	27.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	55.	mg/kg d	02/18/1997	

Sample Number Sample Description
76674 VP-101-55

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	96	0.01	%	02/18/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1	-		02/18/1997	
Gasoline	WTPH-HCID	ND	10.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	26.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	52.	mg/kg d	02/18/1997	

Sample Number Sample Description
76675 VP-102-10

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	94	0.01	%	02/18/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1	-		02/18/1997	
Gasoline	WTPH-HCID	ND	11.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	26.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	53.	mg/kg d	02/18/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

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ANALYTICAL REPORT

Ms. Anne Wilkinson
Time Oil Company
2737 West Commodore Way
Seattle, WA 98199-1233

02/28/1997
Job No.: 97.00517

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Project Name: Time Oil - Des Moines Way
Date Received: 02/14/1997

Sample Number Sample Description
76676 VP-102-15

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	92	0.01	%	02/18/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1	-		02/18/1997	
Gasoline	WTPH-HCID	ND	11.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	27.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	54.	mg/kg d	02/18/1997	

Sample Number Sample Description
76677 VP-102-20

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	90	0.01	%	02/18/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1	-		02/18/1997	
Gasoline	WTPH-HCID	ND	11.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	28.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	56.	mg/kg d	02/18/1997	

Sample Number Sample Description
76678 VP-102-30

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	94	0.01	%	02/18/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1.	-		02/18/1997	
Gasoline	WTPH-HCID	ND	11.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	26.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	53.	mg/kg d	02/18/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

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ANALYTICAL REPORT

Ms. Anne Wilkinson
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02/28/1997
Job No.: 97.00517

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Project Name: Time Oil - Des Moines Way
Date Received: 02/14/1997

Sample Number Sample Description
76679 B-11-20

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	93	0.01	%	02/18/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1	-		02/18/1997	
Gasoline	WTPH-HCID	ND	11.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	27.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	54.	mg/kg d	02/18/1997	

Sample Number Sample Description
76680 B-11-30

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	88	0.01	%	02/18/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1	-		02/18/1997	
Gasoline	WTPH-HCID	ND	11.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	28.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	57.	mg/kg d	02/18/1997	

Sample Number Sample Description
76681 B-11-40

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	92	0.01	%	02/18/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1	-		02/18/1997	
Gasoline	WTPH-HCID	ND	11.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	27.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	54.	mg/kg d	02/18/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

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ANALYTICAL REPORT

Ms. Anne Wilkinson
Time Oil Company
2737 West Commodore Way
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02/28/1997
Job No.: 97.00517

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Project Name: Time Oil - Des Moines Way
Date Received: 02/14/1997

Sample Number Sample Description
76682 B-11-55

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Solids, Total	160.3	94	0.01	%	02/18/1997	
WTPH-HCID (S) PREP		-	-		02/18/1997	
WTPH-HCID (S)						
Dilution Factor		1	-		02/18/1997	
Gasoline	WTPH-HCID	ND	11.	mg/kg d	02/18/1997	
Diesel	WTPH-HCID	ND	26.	mg/kg d	02/18/1997	
Heavy Oils	WTPH-HCID	ND	53.	mg/kg d	02/18/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

American Environmental Network, Inc. (503) 684-0447 (503) 620-0393 FAX
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SURROGATE REPORT

Ms. Anne Wilkinson
Time Oil Company
2737 West Commodore Way
Seattle, WA 98199-1233

02/28/1997
Job No.: 97.00517

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Project Name: Time Oil - Des Moines Way
Date Received: 02/14/1997

SURROGATES METHODS RESULTS DATE ANALYZED FLAG

Sample Number Sample Description
76671 VP-101-10

aaa-TFT (BTEX Surr.)	8020	102	%	02/19/1997
aaa-TFT (Gas Surr.)	TPH-G	104	%	02/20/1997
o-Terphenyl (Surr.)	WTPH-HCID	97	%	02/18/1997

Sample Number Sample Description
76672 VP-101-15

o-Terphenyl (Surr.)	WTPH-HCID	82	%	02/18/1997
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Sample Number Sample Description
76673 VP-101-30

o-Terphenyl (Surr.)	WTPH-HCID	86	%	02/18/1997
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Sample Number Sample Description
76674 VP-101-55

o-Terphenyl (Surr.)	WTPH-HCID	84	%	02/18/1997
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Sample Number Sample Description
76675 VP-102-10

o-Terphenyl (Surr.)	WTPH-HCID	79	%	02/18/1997
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Sample Number Sample Description
76676 VP-102-15

o-Terphenyl (Surr.)	WTPH-HCID	82	%	02/18/1997
---------------------	-----------	----	---	------------

Note: Recovery limits for 8240, 8260, 8270, 624, 625 specified in method.
Gasoline, Diesel, HCID limits 50-150%. 8010/8020 limits 70-130%.

SURROGATE REPORT

Ms. Anne Wilkinson
Time Oil Company
2737 West Commodore Way
Seattle, WA 98199-1233

02/28/1997
Job No.: 97.00517

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Project Name: Time Oil - Des Moines Way
Date Received: 02/14/1997

<u>SURROGATES</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
Sample Number 76677	Sample Description VP-102-20			
o-Terphenyl (Surr.)	WTPH-HCID	78 %	02/18/1997	
Sample Number 76678	Sample Description VP-102-30			
o-Terphenyl (Surr.)	WTPH-HCID	90 %	02/18/1997	
Sample Number 76679	Sample Description B-11-20			
o-Terphenyl (Surr.)	WTPH-HCID	79 %	02/18/1997	
Sample Number 76680	Sample Description B-11-30			
o-Terphenyl (Surr.)	WTPH-HCID	84 %	02/18/1997	
Sample Number 76681	Sample Description B-11-40			
o-Terphenyl (Surr.)	WTPH-HCID	82 %	02/18/1997	
Sample Number 76682	Sample Description B-11-55			
o-Terphenyl (Surr.)	WTPH-HCID	83 %	02/18/1997	

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Time Oil Company
2737 West Commodore Way
Seattle, WA 98199-1233

Date: 02/28/1997

Job Number: 97.00517

Contact: Ms. Anne Wilkinson
Project: Time Oil - Des Moines Way

Analyte	CCV			
	True Concentration	Concentration Found	Percent Recovery	Date Analyzed
Lead, ICP	0.500	0.50	100.0	02/26/1997
Lead, ICP	0.500	0.50	100.0	02/26/1997
BTEX / WA-TPH-GAS (S)				
Benzene	40.0	44.9	112.3	02/19/1997
Toluene	40.0	46.0	115.0	02/19/1997
Ethyl Benzene	40.0	47.7	119.3	02/19/1997
Xylenes, total	80.0	94.7	118.4	02/19/1997
WA TPH-Gas	1.00	0.960	96.0	02/19/1997
aaa-TFT (BTEX Surr.)	100	98	98.0	02/19/1997
aaa-TFT (Gas Surr.)	100	102	102.0	02/19/1997
BTEX / WA-TPH-GAS (S)				
WA TPH-Gas	1.00	0.913	91.3	02/19/1997
aaa-TFT (Gas Surr.)	100	91	91.0	02/19/1997
BTEX / WA-TPH-GAS (S)				
WA TPH-Gas	1.00	0.941	94.1	02/20/1997
aaa-TFT (Gas Surr.)	100	96	96.0	02/20/1997

CCV - Continuing Calibration Verification

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QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Time Oil Company
2737 West Commodore Way
Seattle; WA 98199-1233

Date: 02/28/1997

Job Number: 97.00517

Contact: Ms. Anne Wilkinson
Project: Time Oil - Des Moines Way

Analyte	LCS		LCS % Recovery	Flags	Date Analyzed
	True Concentration	Concentration Found			
Lead, ICP	50.0	47.0	94.0		02/26/1997
Lead, ICP	50.0	47.0	94.0		02/26/1997
BTEX / WA-TPH-GAS (S)					
Benzene	1.0	1.20	120.0	L	02/19/1997
Toluene	1.0	1.28	128.0	L	02/19/1997
Ethyl Benzene	1.0	1.30	130.0	L	02/19/1997
Xylenes, total	3.0	3.92	130.7	L	02/19/1997
aaa-TFT (BTEX Surr.)	99	118	119.2		02/19/1997
aaa-TFT (Gas Surr.)	99	111	112.1		02/19/1997
BTEX / WA-TPH-GAS (S)					
Benzene	1.0	1.20	120.0	L	02/19/1997
Toluene	1.0	1.28	128.0	L	02/19/1997
Ethyl Benzene	1.0	1.30	130.0	L	02/19/1997
Xylenes, total	3.0	3.92	130.7	L	02/19/1997
WA TPH-Gas	100	99.6	99.6		02/19/1997
aaa-TFT (BTEX Surr.)	100	118	118.0		02/19/1997
aaa-TFT (Gas Surr.)	100	99	99.0		02/19/1997
BTEX / WA-TPH-GAS (S)					
Benzene	1.0	1.17	117.0		02/19/1997
Toluene	1.0	1.22	122.0		02/19/1997
Ethyl Benzene	1.0	1.25	125.0		02/19/1997
Xylenes, total	3.0	3.75	125.0		02/19/1997
aaa-TFT (BTEX Surr.)	99	115	116.2		02/19/1997
aaa-TFT (Gas Surr.)	99	109	110.1		02/19/1997
BTEX / WA-TPH-GAS (S)					
Benzene	1.0	1.17	117.0		02/19/1997
Toluene	1.0	1.22	122.0		02/19/1997
Ethyl Benzene	1.0	1.25	125.0		02/19/1997
Xylenes, total	3.0	3.75	125.0		02/19/1997
WA TPH-Gas	100	100	100.0		02/19/1997

LCS - Laboratory Control Standard

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QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Time Oil Company
2737 West Commodore Way
Seattle, WA 98199-1233

Date: 02/28/1997

Job Number: 97.00517

Contact: Ms. Anne Wilkinson
Project: Time Oil - Des Moines Way

Analyte	LCS	Concentration Found	LCS	Flags	Date Analyzed
	True Concentration		% Recovery		
aaa-TFT (BTEX Surr.)	100	115	115.0		02/19/1997
aaa-TFT (Gas Surr.)	100	96	96.0		02/19/1997

LCS - Laboratory Control Standard

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QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Time Oil Company
2737 West Commodore Way
Seattle, WA 98199-1233

Date: 02/28/1997

Job Number: 97.00517

Contact: Ms. Anne Wilkinson
Project: Time Oil - Des Moines Way

Analyte	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Units	Percent	MS/MSD	Flags
	Spike					Result	Spike				
	Result	Result	Amount		Recovery		Amount		Recovery	RPD	
Lead, ICP	49.	1.8	50.0	mg/kg	88.6	35.	50.0	mg/kg	62.6	34.4	
Lead, ICP	49.	ND	50.0	mg/kg	92.0	35.	50.0	mg/kg	66.0	32.9	
BTEX / WA-TPH-GAS (S)											
Benzene	1.07	ND	1.0	mg/Kg	107.0	0.94	1.0	mg/Kg	94.0	12.8	
Toluene	1.22	0.18	1.0	mg/Kg	104.0	1.05	1.0	mg/Kg	87.0	17.7	
Ethyl Benzene	1.44	0.37	1.0	mg/Kg	107.0	1.32	1.0	mg/Kg	95.0	11.8	
Xylenes, total	4.26	0.81	3.0	mg/Kg	115.0	3.86	3.0	mg/Kg	101.7	12.3	

QC Sample:

NOTE: Matrix Spike Samples may not be samples from this job.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

dil. = Diluted Out

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QUALITY CONTROL REPORT BLANKS

Time Oil Company
2737 West Commodore Way
Seattle, WA 98199-1233

Date: 02/28/1997

Job Number: 97.00517

Contact: Ms. Anne Wilkinson
Project: Time Oil - Des Moines Way
Location: 20023

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
Solids, Total	-	0.01	%	02/18/1997
Lead, ICP	ND	1.0	mg/kg	02/26/1997
BTEX / WA-TPH-GAS (S)				
Benzene	ND	0.025	mg/Kg	02/19/1997
Toluene	ND	0.025	mg/Kg	02/19/1997
Ethyl Benzene	ND	0.025	mg/Kg	02/19/1997
Xylenes, total	ND	0.025	mg/Kg	02/19/1997
aaa-TFT (BTEX Surr.)	131		%	02/19/1997
aaa-TFT (Gas Surr.)	126		%	02/19/1997
BTEX / WA-TPH-GAS (S)				
Benzene	ND	0.025	mg/Kg	02/19/1997
Toluene	ND	0.025	mg/Kg	02/19/1997
Ethyl Benzene	ND	0.025	mg/Kg	02/19/1997
Xylenes, total	ND	0.025	mg/Kg	02/19/1997
WA TPH-Gas	ND	5.0	mg/Kg	02/19/1997
aaa-TFT (BTEX Surr.)	131		%	02/19/1997
aaa-TFT (Gas Surr.)	131		%	02/19/1997
BTEX / WA-TPH-GAS (S)				
Benzene	ND	0.025	mg/Kg	02/19/1997
Toluene	ND	0.025	mg/Kg	02/19/1997
Ethyl Benzene	ND	0.025	mg/Kg	02/19/1997
Xylenes, total	ND	0.025	mg/Kg	02/19/1997
WA TPH-Gas	ND	5.0	mg/Kg	02/19/1997
aaa-TFT (BTEX Surr.)	113		%	02/19/1997
aaa-TFT (Gas Surr.)	108		%	02/19/1997
BTEX / WA-TPH-GAS (S)				
WA TPH-Gas	ND	5.0	mg/Kg	02/19/1997
aaa-TFT (Gas Surr.)	82		%	02/19/1997
BTEX / WA-TPH-GAS (S)				
WA TPH-Gas	ND	5.0	mg/Kg	02/20/1997
aaa-TFT (Gas Surr.)	96		%	02/20/1997

QUALITY CONTROL REPORT DUPLICATES

Time Oil Company
2737 West Commodore Way
Seattle, WA 98199-1233

Date: 02/28/1997

Job Number: 97.00517

Contact: Ms. Anne Wilkinson
Project: Time Oil - Des Moines Way

Analyte	Original Analysis	Duplicate Analysis	Units	RPD	Date Analyzed	Flag
BTEX / WA-TPH-GAS (S)						
WA TPH-Gas	ND	ND	mg/Kg		02/20/1997	
WTPH-HCID (S)						
Gasoline	Gas	ND	mg/kg		02/18/1997	
Diesel	ND	ND	mg/kg		02/18/1997	
Heavy Oils	ND	ND	mg/kg		02/18/1997	
WTPH-HCID (S)						
Gasoline	ND	ND	mg/kg		02/18/1997	
Diesel	ND	ND	mg/kg		02/18/1997	
Heavy Oils	ND	ND	mg/kg		02/18/1997	

NOTE: Duplicates may not be samples from this job.

RPD - Relative Percent Difference

A This sample does not have a typical gasoline pattern.

B1 This sample does not have a typical diesel pattern.

B The blank exhibited a positive result greater than the reporting limit for this compound.

C The sample appears to contain a lighter hydrocarbon than gasoline.

D The sample appears to extend to a heavier hydrocarbon range than gasoline.

E The sample appears to extend to a lighter hydrocarbon range than diesel.

F The sample appears to extend to a heavier hydrocarbon range than diesel.

G The positive result for gasoline is due to single component contamination.

H The gasoline elution pattern for the sample is not typical.

I The oil pattern for this sample is not typical.

J The result for this compound is an estimated concentration.

L The LCS recovery exceeded control limits. See the LCS page of this report.

M MS and/or MSD percent recovery exceeds control limits.

MR The MS/MSD RPD is greater than 20%. The sample was re-extracted and re-analyzed with similar results. This is due to a matrix interference, likely a non-homogeneity of the sample.

N Manual integration performed on sample for quantification.

P A post digestion spike was analyzed, and recoveries are within control limits.

Q Detection limits elevated due to sample matrix.

R The duplicate RPD was greater than 20%. The sample was re-extracted and re-analyzed with similar results. This indicates a matrix interference in the sample, likely a non-homogeneity of the sample.

SR Surrogate recovery outside control limits. See the surrogate page of the report.

U Sample not provided to laboratory in proper sampling container.

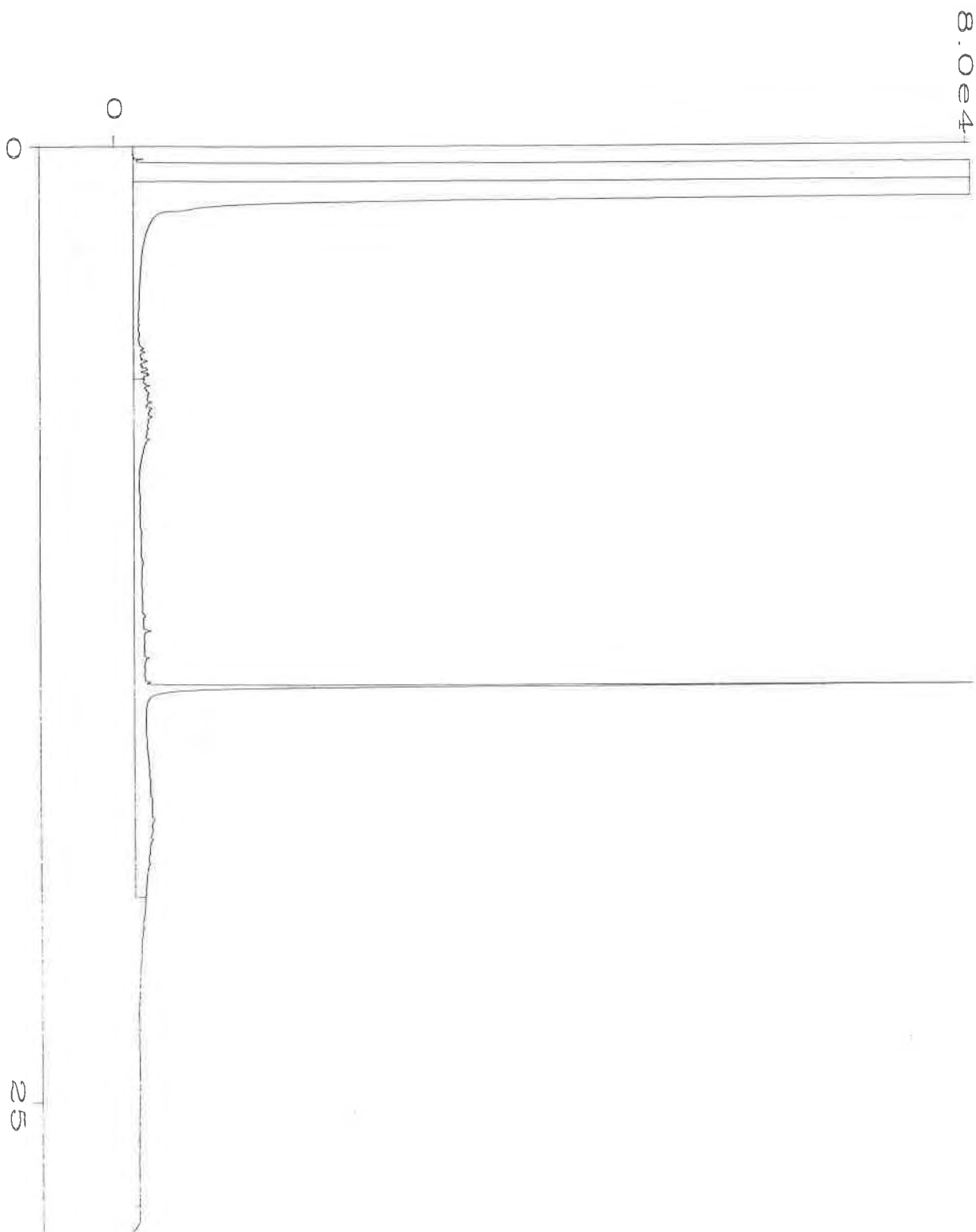
V Analysis was requested for volatiles analysis, sample contained headspace.

W The duplicate RPD was greater than 20%. Due to insufficient sample, re-analysis was not possible.

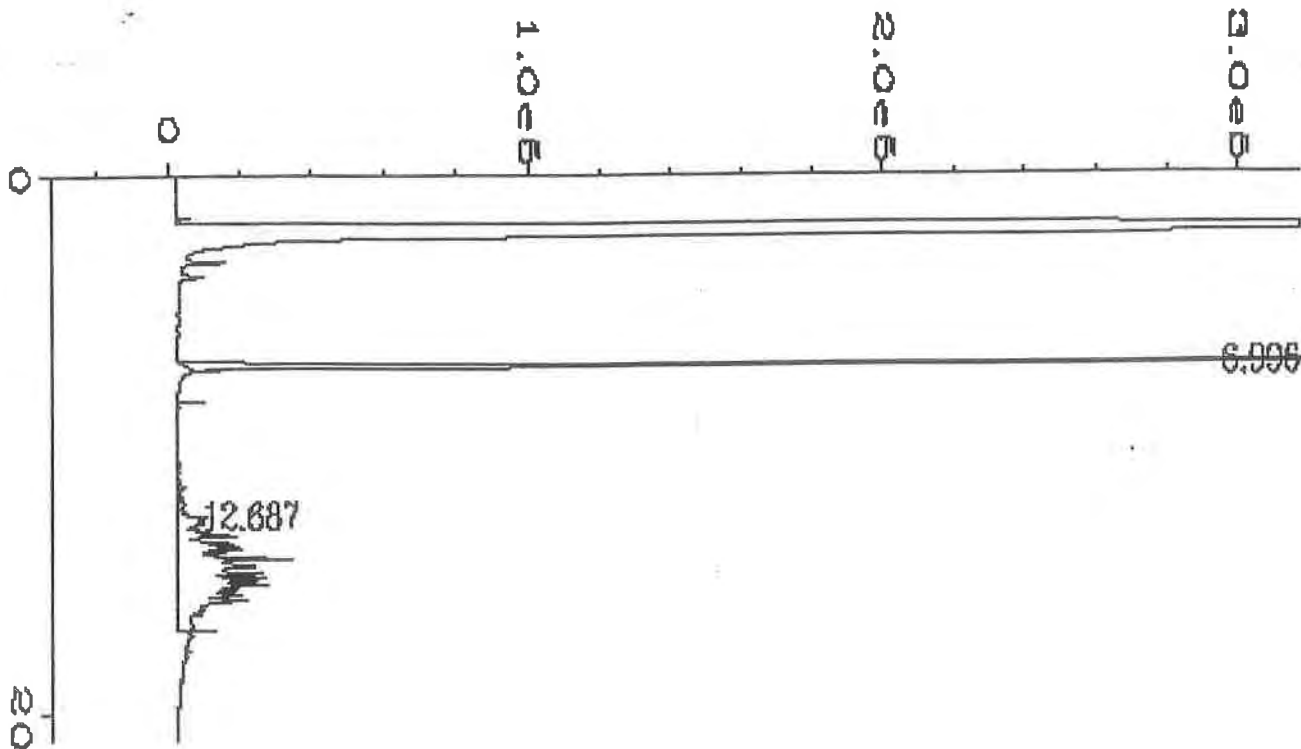
X Sample was analyzed outside recommended holding times.

Y The result for this parameter was greater than the TCLP regulatory limit.

Z The pattern seen for the parameter being analyzed is not typical.



Data File Name	: C:\HPCHEM\2\DATA\021897\062R0101.D	Page Number	: 1
Operator	: ALC	Vial Number	: 62
Instrument	: GC - G	Injection Number	: 1
Sample Name	: 76671-d VP-101-10	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	DIESEL.R.MTH
Acquired on	: 18 Feb 97 05:27 PM	Analysis Method	: DIESEL.R.MTH
Report Created on:	19 Feb 97 10:42 AM	Sample Amount	: 10
Last Recalib on	: 14 FEB 97 09:51 AM	ISTD Amount	:
Multiplier	: 0.1		



External Standard Report

Data File Name	: F:\DATA\FUELS\CRICK\D\970220\012R0101.D	Page Number	: 1
Operator	: pjk	Vial Number	: 12
Instrument	: CRICK	Injection Number	: 1
Sample Name	: 76671 VP-101-10	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: TPHG.MTH
Acquired on	: 20 Feb 97 04:03 PM	Analysis Method	: W-TPHG.MTH
Report Created on:	21 Feb 97 07:00 AM	Sample Amount	: 0
Last Recalib on	: 20 FEB 97 02:00 PM	ISTD Amount	:
Multiplier	: 1		

Sig. 2 in F:\DATA\FUELS\CRICK\D\970220\012R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
6.996	4104719	MM	0.096	1	103.698	TRIFLUOROTOLUENE
12.687	2953284	HH +	0.000	1	0.373	GASOLINE

x 50 = 19

User Modified

* W.A. Method *

AEN AMERICAN ENVIRONMENTAL NETWORK

PORTLAND DIVISION, 17400 SW UPPER BOONES FERRY RD., SUITE 260, PORTLAND, OR 97223
(503) 624-3448 PHONE (503) 638-6869 FAX

CHAIN OF CUSTODY RECORD 470517

COMPANY PHUO
ADDRESS PHO HOA PHUO 20 # 700, P.O. 9722
PHONE 630-8420 FAX 630-1939
PROJECT NAME/LOCATION Time Oil - No. 1000000000
PROJECT NUMBER 20073
PROJECT MANAGER Phu Dao

400376110

EXAMPLED BY
TANYA C. TREAT

SIGNATURE

HEAVENLY DIRECT

3/27/2013

ANALYSES

TURNAROUND TIME _____ DAY (s)

DATE	TIME	SAMPLE DESCRIPTION	GRAB	COMP	% OF CONTAMINANT	ANALYST	PRESERVED Y/N	LAB. NO.	COMMENTS
10/17	842	VP-3-10			1	S	N	107-10-10	
10/17	846	VP-3-15			1			107-10-15	
10/17	920	VP-3-30			1			107-10-30	
10/17	950	VP-3-55			1			107-10-55	
10/17	1445	VP-4-10			1			107-10-10	
10/17	1450	VP-4-15			1			107-10-15	
10/17	155	VP-4-20			1			107-10-20	
10/17	1604	VP-4-30			1			107-10-30	
10/17	1607	VP-11-10			1			107-11-10	
10/17	1608	VP-11-30			1			107-11-30	
10/17	1609	VP-11-40			1			107-11-40	
10/17	1657	VP-11-50			1			107-11-50	

RESULTS TO:

ADVICE TO:

✓ AS 03M15P01TAR

05767241

BEI INOMME 000.

DALTONS

RECEIVED OF:

~~NOT FOR RELEASE~~

OXFORD

REINFORCED BY:

CONCLUSION

NO. 0300235714

1

RECEIVED FOR

1

METHOD OF SHIPMENT

REMARKS:

100 Currents JMD/Alcino Soc cell groups of

AEN

AMERICAN ENVIRONMENTAL NETWORK

* WA METHODS *

CHAIN OF CUSTODY RECORD

COMPANY *ALISO*

ADDRESS *160 SW Harbor Ave - RD # 700, P.O. Box 97224*

PHONE *620-8420* FAX *620-1923*

PORTLAND DIVISION, 17400 SW UPPER BOONES FERRY RD., SUITE 260, PORTLAND, OR 97224
(503) 624-5449 PHONE (503) 639-6889 FAX

PROJECT NAME/LOCATION *Time oil - 1000 Miles away*

PROJECT NUMBER *20083*

PROJECT MANAGER *Phu Day*

SAMPLED BY

JANET P. TRENT
(PRINT NAME)

SIGNATURE

PRINT NAME)

SIGNATURE

ANALYSES

TURNAROUND TIME ____ DAY (S)

DATE	TIME	SAMPLE ID/DESCRIPTION	GRAB	COMP	# OF CONTAINERS	MATRIX	PRESERVED Y/N
4/6/7	842	VP-3-10			1	S	N
		842 VP-3-15			1		
		920 VP-3-30			1		
		953 VP-3-55			1		
		1145 VP-4-10			1		
		1150 VP-4-15			1		
		1155 VP-4-20			1		
		1204 VP-4-30			1		
		1402 VP-11-20			1		
		1500 VP-11-30			1		
		1503 VP-11-40			1		
		1505 VP-11-55			1		

COMMENTS

RESULTS TO:

INVOICE TO:

RELINQUISHED BY

DATE/TIME

RECEIVED BY

DATE/TIME

RELINQUISHED BY

DATE/TIME

RECEIVED BY

RECEIVED FOR LABORATORY BY

METHOD OF SHIPMENT

REMARKS:

100 Containers TMD/ALISO for follow-ups

American Environmental Network, Inc.

17400 SW Upper Boones Ferry Road • Suite 270 • Portland, OR 97224 • (503) 684-0447

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224


Date: 03/24/1997
AEN Account No.: 90225
AEN Job Number: 97.00762

Project: Time Oil - Des Moines Way
Location: 20023

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Sample Number	Sample Description	Matrix Type	Date Taken	Date Received
77646	VP-1	Air	03/06/1997	03/08/1997
77647	VP-7	Air	03/07/1997	03/08/1997
77648	VP-101	Air	03/07/1997	03/08/1997

Approved by:


Cindy Day
Project Manager
AEN, INC.


Technical Review
AEN, INC.

The results from these samples relate only to the items tested. This report shall not be reproduced, except in full, without the written approval of the laboratory.

ANALYTICAL REPORT

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

03/24/1997
Job No.: 97.00762

Page: 2

Project Name: Time Oil - Des Moines Way
Date Received: 03/08/1997

Sample Number Sample Description
77646 VP-1

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
TO-14 GC/MS FULL SCAN						
Freon 12	TO-14	ND	59	ppbv	03/14/1997	
Freon 114	TO-14	ND	59	ppbv	03/14/1997	
Chloromethane	TO-14	ND	59	ppbv	03/14/1997	
Vinyl Chloride	TO-14	ND	59	ppbv	03/14/1997	
Bromomethane	TO-14	ND	59	ppbv	03/14/1997	
Chloroethane	TO-14	ND	59	ppbv	03/14/1997	
Freon 11	TO-14	ND	59	ppbv	03/14/1997	
1,1-Dichloroethylene	TO-14	ND	59	ppbv	03/14/1997	
Freon 113	TO-14	ND	59	ppbv	03/14/1997	
Methylene Chloride	TO-14	ND	59	ppbv	03/14/1997	
1,1-Dichloroethane	TO-14	ND	59	ppbv	03/14/1997	
cis-1,2-Dichloroethylene	TO-14	ND	59	ppbv	03/14/1997	
Chloroform	TO-14	ND	59	ppbv	03/14/1997	
1,1,1-Trichloroethane	TO-14	ND	59	ppbv	03/14/1997	
Carbon Tetrachloride	TO-14	ND	59	ppbv	03/14/1997	
Benzene	TO-14	70	59	ppbv	03/14/1997	
1,2-Dichloroethane	TO-14	ND	59	ppbv	03/14/1997	
Trichloroethene	TO-14	ND	59	ppbv	03/14/1997	
1,2-Dichloropropane	TO-14	ND	59	ppbv	03/14/1997	
cis-1,3-Dichloropropene	TO-14	ND	59	ppbv	03/14/1997	
Toluene	TO-14	880	59	ppbv	03/14/1997	
trans-1,3-Dichloropropene	TO-14	ND	59	ppbv	03/14/1997	
1,1,2-Trichloroethane	TO-14	ND	59	ppbv	03/14/1997	
Tetrachloroethene	TO-14	ND	59	ppbv	03/14/1997	
Ethylene Dibromide	TO-14	ND	59	ppbv	03/14/1997	
Chlorobenzene	TO-14	ND	59	ppbv	03/14/1997	
Ethyl Benzene	TO-14	ND	59	ppbv	03/14/1997	
m,p-Xylene	TO-14	1,700	59	ppbv	03/14/1997	
o-Xylene	TO-14	840	59	ppbv	03/14/1997	
Styrene	TO-14	ND	59	ppbv	03/14/1997	
1,1,2,2-Tetrachloroethane	TO-14	ND	59	ppbv	03/14/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

American Environmental Network, Inc. (503) 684-0447 (503) 620-0393 FAX
17400 SW Upper Boones Ferry Rd., Suite 270, Portland, OR 97224

ANALYTICAL REPORT

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

03/24/1997
Job No.: 97.00762

Page: 3

Project Name: Time Oil - Des Moines Way
Date Received: 03/08/1997

Sample Number Sample Description
77646 VP-1

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
1,3,5-Trimethylbenzene	TO-14	810	59	ppbv	03/14/1997	
1,2,4-Trimethylbenzene	TO-14	1,000	59	ppbv	03/14/1997	
1,3-Dichlorobenzene	TO-14	ND	59	ppbv	03/14/1997	
1,4-Dichlorobenzene	TO-14	ND	59	ppbv	03/14/1997	
Chlorotoluene	TO-14	ND	59	ppbv	03/14/1997	
1,2-Dichlorobenzene	TO-14	ND	59	ppbv	03/14/1997	
1,2,4-Trichlorobenzene	TO-14	ND	59	ppbv	03/14/1997	
Hexachlorobutadiene	TO-14	ND	59	ppbv	03/14/1997	
Propylene	TO-14	ND	240	ppbv	03/14/1997	
1,3-Butadiene	TO-14	ND	240	ppbv	03/14/1997	
Acetone	TO-14	19,000	240	ppbv	03/14/1997	
Carbon Disulfide	TO-14	ND	240	ppbv	03/14/1997	
2-Propanol	TO-14	360	240	ppbv	03/14/1997	
trans-1,2-Dichloroethene	TO-14	ND	240	ppbv	03/14/1997	
Vinyl Acetate	TO-14	ND	240	ppbv	03/14/1997	
Chloroprene	TO-14	ND	240	ppbv	03/14/1997	
2-Butanone (MEK)	TO-14	7,700	240	ppbv	03/14/1997	
Hexane	TO-14	ND	240	ppbv	03/14/1997	
Tetrahydrofuran	TO-14	ND	240	ppbv	03/14/1997	
Cyclohexane	TO-14	ND	240	ppbv	03/14/1997	
1,4-Dioxane	TO-14	ND	240	ppbv	03/14/1997	
Bromodichloromethane	TO-14	ND	240	ppbv	03/14/1997	
4-Methyl-2-pentanone	TO-14	ND	240	ppbv	03/14/1997	
2-Hexanone	TO-14	ND	240	ppbv	03/14/1997	
Dibromochloromethane	TO-14	ND	240	ppbv	03/14/1997	
Bromoform	TO-14	ND	240	ppbv	03/14/1997	
4-Ethyltoluene	TO-14	ND	240	ppbv	03/14/1997	
Ethanol	TO-14	970	240	ppbv	03/14/1997	
Methyl tert-Butyl Ether	TO-14	ND	240	ppbv	03/14/1997	
Heptane	TO-14	470	240	ppbv	03/14/1997	
TNMOC (ref. to Gasoline)	TO-14	2,800,000	590	ppbv	03/14/1997	
Octafluorotoluene (Surr.)	TO-14	96		%	03/14/1997	
Toluene-d8 (Surr.)	TO-14	103		%	03/14/1997	
4-Bromobenzene (Surr.)	TO-14	116		%	03/14/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

American Environmental Network, Inc. (503) 684-0447 (503) 620-0393 FAX
17400 SW Upper Boones Ferry Rd., Suite 270, Portland, OR 97224

ANALYTICAL REPORT

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

03/24/1997
Job No.: 97.00762

Page: 4

Project Name: Time Oil - Des Moines Way
Date Received: 03/08/1997

Sample Number Sample Description
77647 VP-7

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
TO-14 GC/MS FULL SCAN						
Freon 12	TO-14	ND	24	ppbv	03/13/1997	
Freon 114	TO-14	ND	24	ppbv	03/13/1997	
Chloromethane	TO-14	ND	24	ppbv	03/13/1997	
Vinyl Chloride	TO-14	ND	24	ppbv	03/13/1997	
Bromomethane	TO-14	ND	24	ppbv	03/13/1997	
Chloroethane	TO-14	ND	24	ppbv	03/13/1997	
Freon 11	TO-14	ND	24	ppbv	03/13/1997	
1,1-Dichloroethylene	TO-14	ND	24	ppbv	03/13/1997	
Freon 113	TO-14	ND	24	ppbv	03/13/1997	
Methylene Chloride	TO-14	ND	24	ppbv	03/13/1997	
1,1-Dichloroethane	TO-14	ND	24	ppbv	03/13/1997	
cis-1,2-Dichloroethylene	TO-14	ND	24	ppbv	03/13/1997	
Chloroform	TO-14	ND	24	ppbv	03/13/1997	
1,1,1-Trichloroethane	TO-14	ND	24	ppbv	03/13/1997	
Carbon Tetrachloride	TO-14	ND	24	ppbv	03/13/1997	
Benzene	TO-14	54	24	ppbv	03/13/1997	
1,2-Dichloroethane	TO-14	ND	24	ppbv	03/13/1997	
Trichloroethene	TO-14	ND	24	ppbv	03/13/1997	
1,2-Dichloropropane	TO-14	ND	24	ppbv	03/13/1997	
cis-1,3-Dichloropropene	TO-14	ND	24	ppbv	03/13/1997	
Toluene	TO-14	1,900	24	ppbv	03/13/1997	
trans-1,3-Dichloropropene	TO-14	ND	24	ppbv	03/13/1997	
1,1,2-Trichloroethane	TO-14	ND	24	ppbv	03/13/1997	
Tetrachloroethene	TO-14	ND	24	ppbv	03/13/1997	
Ethylene Dibromide	TO-14	ND	24	ppbv	03/13/1997	
Chlorobenzene	TO-14	ND	24	ppbv	03/13/1997	
Ethyl Benzene	TO-14	1,200	24	ppbv	03/13/1997	
m,p-Xylene	TO-14	8,600	24	ppbv	03/13/1997	
o-Xylene	TO-14	6,700	24	ppbv	03/13/1997	
Styrene	TO-14	ND	24	ppbv	03/13/1997	
1,1,2,2-Tetrachloroethane	TO-14	ND	24	ppbv	03/13/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

American Environmental Network, Inc. (503) 684-0447 (503) 620-0393 FAX
17400 SW Upper Boones Ferry Rd., Suite 270, Portland, OR 97224

ANALYTICAL REPORT

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

03/24/1997
Job No.: 97.00762

Page: 5

Project Name: Time Oil - Des Moines Way
Date Received: 03/08/1997

Sample Number Sample Description
77647 VP-7

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
1,3,5-Trimethylbenzene	TO-14	3,100	24	ppbv	03/13/1997	
1,2,4-Trimethylbenzene	TO-14	9,300	24	ppbv	03/13/1997	
1,3-Dichlorobenzene	TO-14	ND	24	ppbv	03/13/1997	
1,4-Dichlorobenzene	TO-14	ND	24	ppbv	03/13/1997	
Chlorotoluene	TO-14	ND	24	ppbv	03/13/1997	
1,2-Dichlorobenzene	TO-14	ND	24	ppbv	03/13/1997	
1,2,4-Trichlorobenzene	TO-14	ND	24	ppbv	03/13/1997	
Hexachlorobutadiene	TO-14	ND	24	ppbv	03/13/1997	
Propylene	TO-14	ND	94	ppbv	03/13/1997	
1,3-Butadiene	TO-14	ND	94	ppbv	03/13/1997	
Acetone	TO-14	ND	94	ppbv	03/13/1997	
Carbon Disulfide	TO-14	ND	94	ppbv	03/13/1997	
2-Propanol	TO-14	ND	94	ppbv	03/13/1997	
trans-1,2-Dichloroethene	TO-14	ND	94	ppbv	03/13/1997	
Vinyl Acetate	TO-14	ND	94	ppbv	03/13/1997	
Chloroprene	TO-14	ND	94	ppbv	03/13/1997	
2-Butanone (MEK)	TO-14	ND	94	ppbv	03/13/1997	
Hexane	TO-14	ND	94	ppbv	03/13/1997	
Tetrahydrofuran	TO-14	ND	94	ppbv	03/13/1997	
Cyclohexane	TO-14	ND	94	ppbv	03/13/1997	
1,4-Dioxane	TO-14	ND	94	ppbv	03/13/1997	
Bromodichloromethane	TO-14	ND	94	ppbv	03/13/1997	
4-Methyl-2-pentanone	TO-14	ND	94	ppbv	03/13/1997	
2-Hexanone	TO-14	ND	94	ppbv	03/13/1997	
Dibromochloromethane	TO-14	ND	94	ppbv	03/13/1997	
Bromoform	TO-14	ND	94	ppbv	03/13/1997	
4-Ethyltoluene	TO-14	5,200	94	ppbv	03/13/1997	
Ethanol	TO-14	ND	94	ppbv	03/13/1997	
Methyl tert-Butyl Ether	TO-14	ND	94	ppbv	03/13/1997	
Heptane	TO-14	170	94	ppbv	03/13/1997	
TNMOC (ref. to Gasoline)	TO-14	180,000	240	ppbv	03/13/1997	
Octafluorotoluene (Surr.)	TO-14	100		%	03/13/1997	
Toluene-d8 (Surr.)	TO-14	101		%	03/13/1997	
4-Bromobenzene (Surr.)	TO-14	98		%	03/13/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

American Environmental Network, Inc. (503) 684-0447 (503) 620-0393 FAX
17400 SW Upper Boones Ferry Rd., Suite 270, Portland, OR 97224

ANALYTICAL REPORT

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

03/24/1997
Job No.: 97.00762

Page: 6

Project Name: Time Oil - Des Moines Way
Date Received: 03/08/1997

Sample Number Sample Description
77648 VP-101

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
TO-14 GC/MS FULL SCAN						
Freon 12	TO-14	ND	35	ppbv	03/14/1997	
Freon 114	TO-14	ND	35	ppbv	03/14/1997	
Chloromethane	TO-14	ND	35	ppbv	03/14/1997	
Vinyl Chloride	TO-14	ND	35	ppbv	03/14/1997	
Bromomethane	TO-14	ND	35	ppbv	03/14/1997	
Chloroethane	TO-14	ND	35	ppbv	03/14/1997	
Freon 11	TO-14	ND	35	ppbv	03/14/1997	
1,1-Dichloroethylene	TO-14	ND	35	ppbv	03/14/1997	
Freon 113	TO-14	ND	35	ppbv	03/14/1997	
Methylene Chloride	TO-14	ND	35	ppbv	03/14/1997	
1,1-Dichloroethane	TO-14	ND	35	ppbv	03/14/1997	
cis-1,2-Dichloroethylene	TO-14	ND	35	ppbv	03/14/1997	
Chloroform	TO-14	ND	35	ppbv	03/14/1997	
1,1,1-Trichloroethane	TO-14	ND	35	ppbv	03/14/1997	
Carbon Tetrachloride	TO-14	ND	35	ppbv	03/14/1997	
Benzene	TO-14	ND	35	ppbv	03/14/1997	
1,2-Dichloroethane	TO-14	ND	35	ppbv	03/14/1997	
Trichloroethene	TO-14	ND	35	ppbv	03/14/1997	
1,2-Dichloropropane	TO-14	ND	35	ppbv	03/14/1997	
cis-1,3-Dichloropropene	TO-14	ND	35	ppbv	03/14/1997	
Toluene	TO-14	84	35	ppbv	03/14/1997	
trans-1,3-Dichloropropene	TO-14	ND	35	ppbv	03/14/1997	
1,1,2-Trichloroethane	TO-14	ND	35	ppbv	03/14/1997	
Tetrachloroethene	TO-14	ND	35	ppbv	03/14/1997	
Ethylene Dibromide	TO-14	ND	35	ppbv	03/14/1997	
Chlorobenzene	TO-14	ND	35	ppbv	03/14/1997	
Ethyl Benzene	TO-14	ND	35	ppbv	03/14/1997	
m,p-Xylene	TO-14	150	35	ppbv	03/14/1997	
o-Xylene	TO-14	ND	35	ppbv	03/14/1997	
Styrene	TO-14	ND	35	ppbv	03/14/1997	
1,1,2,2-Tetrachloroethane	TO-14	ND	35	ppbv	03/14/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

American Environmental Network, Inc. (503) 684-0447 (503) 620-0393 FAX
17400 SW Upper Boones Ferry Rd., Suite 270, Portland, OR 97224

ANALYTICAL REPORT

Mr. John M. Day
Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

03/24/1997
Job No.: 97.00762

Page: 7

Project Name: Time Oil - Des Moines Way
Date Received: 03/08/1997

Sample Number Sample Description
77648 VP-101

<u>PARAMETERS</u>	<u>METHODS</u>	<u>RESULTS</u>	<u>REPORT LIMIT</u>	<u>UNITS</u>	<u>DATE ANALYZED</u>	<u>FLAG</u>
1,3,5-Trimethylbenzene	TO-14	120	35	ppbv	03/14/1997	
1,2,4-Trimethylbenzene	TO-14	210	35	ppbv	03/14/1997	
1,3-Dichlorobenzene	TO-14	ND	35	ppbv	03/14/1997	
1,4-Dichlorobenzene	TO-14	ND	35	ppbv	03/14/1997	
Chlorotoluene	TO-14	ND	35	ppbv	03/14/1997	
1,2-Dichlorobenzene	TO-14	ND	35	ppbv	03/14/1997	
1,2,4-Trichlorobenzene	TO-14	ND	35	ppbv	03/14/1997	
Hexachlorobutadiene	TO-14	ND	35	ppbv	03/14/1997	
Propylene	TO-14	ND	140	ppbv	03/14/1997	
1,3-Butadiene	TO-14	ND	140	ppbv	03/14/1997	
Acetone	TO-14	ND	140	ppbv	03/14/1997	
Carbon Disulfide	TO-14	ND	140	ppbv	03/14/1997	
2-Propanol	TO-14	ND	140	ppbv	03/14/1997	
trans-1,2-Dichloroethene	TO-14	ND	140	ppbv	03/14/1997	
Vinyl Acetate	TO-14	ND	140	ppbv	03/14/1997	
Chloroprene	TO-14	ND	140	ppbv	03/14/1997	
2-Butanone (MEK)	TO-14	ND	140	ppbv	03/14/1997	
Hexane	TO-14	ND	140	ppbv	03/14/1997	
Tetrahydrofuran	TO-14	ND	140	ppbv	03/14/1997	
Cyclohexane	TO-14	ND	140	ppbv	03/14/1997	
1,4-Dioxane	TO-14	ND	140	ppbv	03/14/1997	
Bromodichloromethane	TO-14	ND	140	ppbv	03/14/1997	
4-Methyl-2-pentanone	TO-14	ND	140	ppbv	03/14/1997	
2-Hexanone	TO-14	ND	140	ppbv	03/14/1997	
Dibromochloromethane	TO-14	ND	140	ppbv	03/14/1997	
Bromoform	TO-14	ND	140	ppbv	03/14/1997	
4-Ethyltoluene	TO-14	ND	140	ppbv	03/14/1997	
Ethanol	TO-14	ND	140	ppbv	03/14/1997	
Methyl tert-Butyl Ether	TO-14	ND	140	ppbv	03/14/1997	
Heptane	TO-14	ND	140	ppbv	03/14/1997	
TNMOC (ref. to Gasoline)	TO-14	610,000	350	ppbv	03/14/1997	
Octafluorotoluene (Surr.)	TO-14	99		%	03/14/1997	
Toluene-d8 (Surr.)	TO-14	104		%	03/14/1997	
4-Bromobenzene (Surr.)	TO-14	98		%	03/14/1997	

A sample result of ND indicates the parameter was Not Detected at the reporting limit.

QUALITY CONTROL REPORT BLANKS

Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 03/24/1997

Job Number: 97.00762

Contact: Mr. John M. Day
Project: Time Oil - Des Moines Way
Location: 20023

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
TO-14 GC/MS FULL SCAN				
Freon 12	ND	0.50	ppbv	03/13/1997
Freon 114	ND	0.50	ppbv	03/13/1997
Chloromethane	ND	0.50	ppbv	03/13/1997
Vinyl Chloride	ND	0.50	ppbv	03/13/1997
Bromomethane	ND	0.50	ppbv	03/13/1997
Chloroethane	ND	0.50	ppbv	03/13/1997
Freon 11	ND	0.50	ppbv	03/13/1997
1,1-Dichloroethene	ND	0.50	ppbv	03/13/1997
Freon 113	ND	0.50	ppbv	03/13/1997
Methylene Chloride	ND	0.50	ppbv	03/13/1997
1,1-Dichloroethane	ND	0.50	ppbv	03/13/1997
cis-1,2-Dichloroethene	ND	0.50	ppbv	03/13/1997
Chloroform	ND	0.50	ppbv	03/13/1997
1,1,1-Trichloroethane	ND	0.50	ppbv	03/13/1997
Carbon Tetrachloride	ND	0.50	ppbv	03/13/1997
Benzene	ND	0.50	ppbv	03/13/1997
1,2-Dichloroethane	ND	0.50	ppbv	03/13/1997
Trichloroethene	ND	0.50	ppbv	03/13/1997
1,2-Dichloropropane	ND	0.50	ppbv	03/13/1997
cis-1,3-Dichloropropane	ND	0.50	ppbv	03/13/1997
Toluene	ND	0.50	ppbv	03/13/1997
trans-1,3-Dichloropropene	ND	0.50	ppbv	03/13/1997
1,1,2-Trichloroethane	ND	0.50	ppbv	03/13/1997
Tetrachloroethene	ND	0.50	ppbv	03/13/1997
Ethylene Dibromide	ND	0.50	ppbv	03/13/1997
Chlorobenzene	ND	0.50	ppbv	03/13/1997
Ethyl Benzene	ND	0.50	ppbv	03/13/1997
m,p-Xylene	ND	0.50	ppbv	03/13/1997
o-Xylene	ND	0.50	ppbv	03/13/1997
Styrene	ND	0.50	ppbv	03/13/1997
1,1,2,2-Tetrachloroethane	ND	0.50	ppbv	03/13/1997
1,3,5-Trimethylbenzene	ND	0.50	ppbv	03/13/1997
1,2,4-Trimethylbenzene	ND	0.50	ppbv	03/13/1997
1,3-Dichlorobenzene	ND	0.50	ppbv	03/13/1997
1,4-Dichlorobenzene	ND	0.50	ppbv	03/13/1997

QUALITY CONTROL REPORT BLANKS

Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 03/24/1997

Job Number: 97.00762

Contact: Mr. John M. Day
Project: Time Oil - Des Moines Way
Location: 20023

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
TO-14 GC/MS FULL SCAN				
Chlorotoluene	ND	0.50	ppbv	03/13/1997
1,2-Dichlorobenzene	ND	0.50	ppbv	03/13/1997
1,2,4-Trichlorobenzene	ND	0.50	ppbv	03/13/1997
Hexachlorobutadiene	ND	0.50	ppbv	03/13/1997
Propylene	ND	2.0	ppbv	03/13/1997
1,3-Butadiene	ND	2.0	ppbv	03/13/1997
Acetone	ND	2.0	ppbv	03/13/1997
Carbon Disulfide	ND	2.0	ppbv	03/13/1997
2-Propanol	ND	2.0	ppbv	03/13/1997
trans-1,2-Dichloroethene	ND	2.0	ppbv	03/13/1997
Vinyl Acetate	ND	2.0	ppbv	03/13/1997
Chloroprene	ND	2.0	ppbv	03/13/1997
2-Butanone (MEK)	ND	2.0	ppbv	03/13/1997
Hexane	ND	2.0	ppbv	03/13/1997
Tetrahydrofuran	ND	2.0	ppbv	03/13/1997
Cyclohexane	ND	2.0	ppbv	03/13/1997
1,4-Dioxane	ND	2.0	ppbv	03/13/1997
Bromodichloromethane	ND	2.0	ppbv	03/13/1997
4-Methyl-2-pentanone	ND	2.0	ppbv	03/13/1997
2-Hexanone	ND	2.0	ppbv	03/13/1997
Dibromochloromethane	ND	2.0	ppbv	03/13/1997
Bromoform	ND	2.0	ppbv	03/13/1997
4-Ethyltoluene	ND	2.0	ppbv	03/13/1997
Ethanol	ND	2.0	ppbv	03/13/1997
Methyl tert-Butyl Ether	ND	2.0	ppbv	03/13/1997
Heptane	ND	2.0	ppbv	03/13/1997
TNMOC (ref. to Gasoline)	ND	5.0	ppbv	03/13/1997
Octafluorotoluene (Surr.)	99		%	03/13/1997
Toluene-d8 (Surr.)	101		%	03/13/1997
4-Bromobenzene (Surr.)	89		%	03/13/1997

QUALITY CONTROL REPORT BLANKS

Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 03/24/1997

Job Number: 97.00762

Contact: Mr. John M. Day
Project: Time Oil - Des Moines Way
Location: 20023

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
TO-14 GC/MS FULL SCAN				
Freon 12	ND	0.50	ppbv	03/14/1997
Freon 114	ND	0.50	ppbv	03/14/1997
Chloromethane	ND	0.50	ppbv	03/14/1997
Vinyl Chloride	ND	0.50	ppbv	03/14/1997
Bromomethane	ND	0.50	ppbv	03/14/1997
Chloroethane	ND	0.50	ppbv	03/14/1997
Freon 11	ND	0.50	ppbv	03/14/1997
1,1-Dichloroethene	ND	0.50	ppbv	03/14/1997
Freon 113	ND	0.50	ppbv	03/14/1997
Methylene Chloride	ND	0.50	ppbv	03/14/1997
1,1-Dichloroethane	ND	0.50	ppbv	03/14/1997
cis-1,2-Dichloroethene	ND	0.50	ppbv	03/14/1997
Chloroform	ND	0.50	ppbv	03/14/1997
1,1,1-Trichloroethane	ND	0.50	ppbv	03/14/1997
Carbon Tetrachloride	ND	0.50	ppbv	03/14/1997
Benzene	ND	0.50	ppbv	03/14/1997
1,2-Dichloroethane	ND	0.50	ppbv	03/14/1997
Trichloroethene	ND	0.50	ppbv	03/14/1997
1,2-Dichloropropane	ND	0.50	ppbv	03/14/1997
cis-1,3-Dichloropropane	ND	0.50	ppbv	03/14/1997
Toluene	ND	0.50	ppbv	03/14/1997
trans-1,3-Dichloropropene	ND	0.50	ppbv	03/14/1997
1,1,2-Trichloroethane	ND	0.50	ppbv	03/14/1997
Tetrachloroethene	ND	0.50	ppbv	03/14/1997
Ethylene Dibromide	ND	0.50	ppbv	03/14/1997
Chlorobenzene	ND	0.50	ppbv	03/14/1997
Ethyl Benzene	ND	0.50	ppbv	03/14/1997
m,p-Xylene	ND	0.50	ppbv	03/14/1997
o-Xylene	ND	0.50	ppbv	03/14/1997
Styrene	ND	0.50	ppbv	03/14/1997
1,1,2,2-Tetrachloroethane	ND	0.50	ppbv	03/14/1997
1,3,5-Trimethylbenzene	ND	0.50	ppbv	03/14/1997
1,2,4-Trimethylbenzene	ND	0.50	ppbv	03/14/1997
1,3-Dichlorobenzene	ND	0.50	ppbv	03/14/1997
1,4-Dichlorobenzene	ND	0.50	ppbv	03/14/1997

QUALITY CONTROL REPORT BLANKS

Alisto Engineering Group
7160 SW Hazelfern
Suite 700
Portland, OR 97224

Date: 03/24/1997

Job Number: 97.00762

Contact: Mr. John M. Day
Project: Time Oil - Des Moines Way
Location: 20023

Analyte	Blank Analysis	Report Limit	Units	Date Analyzed
TO-14 GC/MS FULL SCAN				
Chlorotoluene	ND	0.50	ppbv	03/14/1997
1,2-Dichlorobenzene	ND	0.50	ppbv	03/14/1997
1,2,4-Trichlorobenzene	ND	0.50	ppbv	03/14/1997
Hexachlorobutadiene	ND	0.50	ppbv	03/14/1997
Propylene	ND	2.0	ppbv	03/14/1997
1,3-Butadiene	ND	2.0	ppbv	03/14/1997
Acetone	ND	2.0	ppbv	03/14/1997
Carbon Disulfide	ND	2.0	ppbv	03/14/1997
2-Propanol	ND	2.0	ppbv	03/14/1997
trans-1,2-Dichloroethene	ND	2.0	ppbv	03/14/1997
Vinyl Acetate	ND	2.0	ppbv	03/14/1997
Chloroprene	ND	2.0	ppbv	03/14/1997
2-Butanone (MEK)	ND	2.0	ppbv	03/14/1997
Hexane	ND	2.0	ppbv	03/14/1997
Tetrahydrofuran	ND	2.0	ppbv	03/14/1997
Cyclohexane	ND	2.0	ppbv	03/14/1997
1,4-Dioxane	ND	2.0	ppbv	03/14/1997
Bromodichloromethane	ND	2.0	ppbv	03/14/1997
4-Methyl-2-pentanone	ND	2.0	ppbv	03/14/1997
2-Hexanone	ND	2.0	ppbv	03/14/1997
Dibromochloromethane	ND	2.0	ppbv	03/14/1997
Bromoform	ND	2.0	ppbv	03/14/1997
4-Ethyltoluene	ND	2.0	ppbv	03/14/1997
Ethanol	ND	2.0	ppbv	03/14/1997
Methyl tert-Butyl Ether	ND	2.0	ppbv	03/14/1997
Heptane	ND	2.0	ppbv	03/14/1997
TNMOC (ref. to Gasoline)	ND	5.0	ppbv	03/14/1997
Octafluorotoluene (Surr.)	103		%	03/14/1997
Toluene-d8 (Surr.)	100		%	03/14/1997
4-Bromobenzene (Surr.)	95		%	03/14/1997

American Environmental Network, Inc. (503)684-0447 (503)620-0393 FAX
17400 SW Upper Boones Ferry Rd., Portland, OR 97224

FLAG GLOSSARY

A	This sample does not have a typical gasoline pattern.
B1	This sample does not have a typical diesel pattern.
B	Analyte found in the associated blank as well as the sample.
C	The sample contains a lighter hydrocarbon than gasoline.
CS	Outside control limits or unusual matrix; see case narrative.
D	The sample extends to a heavier hydrocarbon range than gasoline.
DIL	Result was calculated from dilution.
E	The sample extends to a lighter hydrocarbon range than diesel.
F	The sample extends to a heavier hydrocarbon range than diesel.
G	The positive result for gasoline is due to single component contamination.
I	The oil pattern for this sample is not typical.
J	The result for this compound is an estimated concentration.
L	The LCS recovery exceeded control limits. See the LCS page of this report.
LM	The LCS recovery exceeded control limits; the MS/MSD were in control validating the batch.
M	MS and/or MSD percent recovery exceeds control limits.
MD	Unable to calculate MS/MSD recovery due to high amount of analyte; greater than 4 times spike level.
MR	The MS/MSD RPD is greater than 20%. The sample was re-extracted and re-analyzed with similar results indicating a non-homogeneous sample.
MM	The Matrix Spike exceeded control limits; LCS/LCS-D were in control validating the batch.
MI	Outside control limits due to matrix interference.
N	Manual integration performed on sample for quantification.
N/A	Not Applicable.
NC	Not calculable.
NO	Not Analyzed.
P	A post digestion spike was analyzed, and recoveries were within control limits.
Q	Detection limits elevated due to sample matrix.
R	The duplicate RPD was greater than 20%. The sample was re-extracted and re-analyzed with similar results. This indicates a matrix interference in the sample, likely a non-homogeneity of the sample.
RD	RPD not applicable for results less than five times the reporting limit.
SR	Surrogate recovery outside control limits. See the surrogate page of the report.
SD	Unable to quantitate surrogate due to sample dilution.
SC	Sample not provided to laboratory in proper sampling container.
V	Volatile analysis was requested, sample container received with headspace.
X1	The duplicate RPD was greater than 20%. Due to insufficient sample, re-analysis was not possible.
X	Sample was analyzed outside recommended holding times.
Y	The result for this parameter was greater than the TCLP regulatory limit.
Z	The pattern seen for the parameter being analyzed is not typical.

APPENDIX D
VAPOR EXTRACTION TEST DATA



VAPOR EXTRACTION TEST FIELD DATA

TIME OIL PROPERTY NO. 01-284
SEATTLE, WASHINGTON

PROJECT NO. 20-023-01

TIME (min)	VAPOR EXTRACTION WELL VP-101				MONITORING WELLS VACUUM		
	PID READING (ppm)	FLOW RATE (cfm)	VACUUM (in. water)	O ₂ (%)	VP-102 (in. water) (24')	VP-1 (in. water) (31')	VP-7 (in. water) (47')
0		7	10		0.10	0.20	0.01
5	6	24	11		0.35	0.30	0.04
10		24	11		0.40	0.35	0.05
15	113	107	20	18.4	1.00	0.60	0.12
25	119	97	21		2.10	1.00	0.38
30	126	97	21		2.40	1.10	0.40
40	128	90	22		2.70	1.40	0.60
55	143	90	22		2.75	1.40	0.70
65		90	22		2.80	1.50	0.75
70	147	90	22		2.95	1.65	0.90
95		90	22		3.00	1.70	0.95
110		90	22		3.10	1.80	1.00
125		90	22		3.10	1.80	1.00
140		90	22		3.05	1.80	1.00

ABBREVIATIONS:

PID Photo-ionization detector
ppm Parts per million
cfm Cubic feet per minute
in. water Inches of water column

VAPOR EXTRACTION TEST FIELD DATA

TIME OIL PROPERTY NO. 01-284
SEATTLE, WASHINGTON

PROJECT NO. 20-023-01

TIME (min)	VAPOR EXTRACTION WELL VP-1				MONITORING WELLS VACUUM		
	PID READING (ppm)	FLOW RATE (cfm)	VACUUM (in. water)	O ₂ (%)	VP-101 (in. water) (30.5')	VP-7 (in. water) (40')	VP-102 (in. water) (54')
0	38	24	10		0.50	0.00	0.00
20	230	76	21		0.50	0.30	0.20
30	238	76	23		1.00	0.60	0.50
35	352	76	23		1.00	0.80	0.60
45	380	76	23		1.10	0.90	0.85
60	385	76	23	17.6	1.15	0.94	0.90
75	443	76	23		1.20	0.95	0.90
90	460	76	23		1.20	0.95	0.90
105	465	76	23		1.20	0.95	0.90
120	465	76	23	18.1	1.20	0.95	0.80

ABBREVIATIONS:

PID Photo-ionization detector
ppm Parts per million
cfm Cubic feet per minute
in. water Inches of water column

VAPOR EXTRACTION TEST FIELD DATA

TIME OIL PROPERTY NO. 01-284
SEATTLE, WASHINGTON

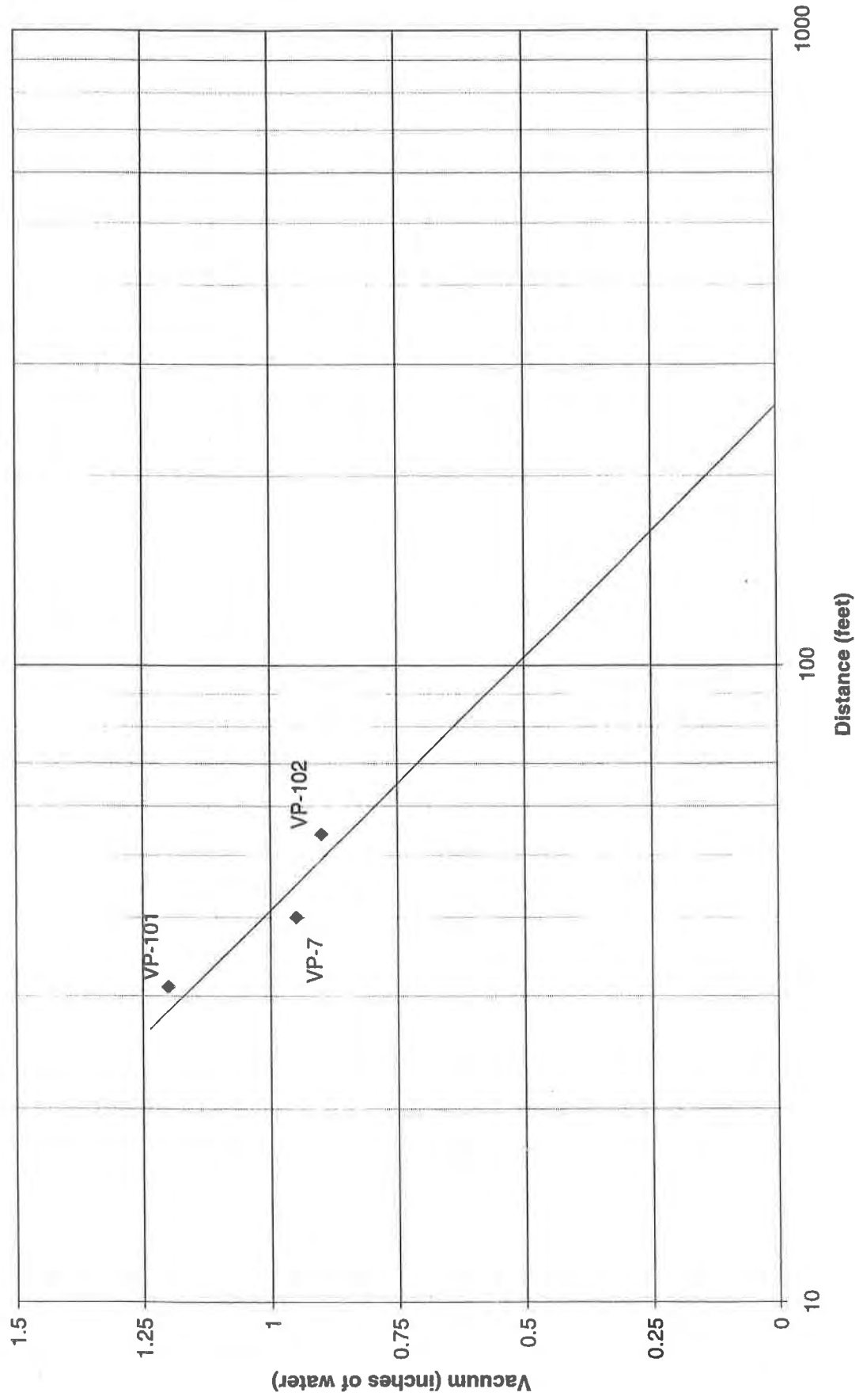
PROJECT NO. 20-023-01

TIME (min)	VAPOR EXTRACTION WELL VP-7				MONITORING WELLS VACUUM		
	PID READING (ppm)	FLOW RATE (cfm)	VACUUM (in. water)	O ₂ (%)	VP-1 (in. water) (40')	VP-101 (in. water) (47')	VP-102 (in. water) (54')
0	3	9	10	17.8	0.00	0.00	0.00
10	5	24	10		0.15	0.10	0.05
20	6	24	10		0.15	0.10	0.05
30	52	85	24		0.50	0.25	0.21
45	89	85	24		0.80	0.52	0.44
60	101	88	24		1.00	0.75	0.62
75	106	88	24		1.20	0.75	0.65
90	110	88	24		1.10	0.74	0.66
105	113	88	24	17.9	1.10	0.74	0.74
120	112	88	24		1.10	0.74	0.74

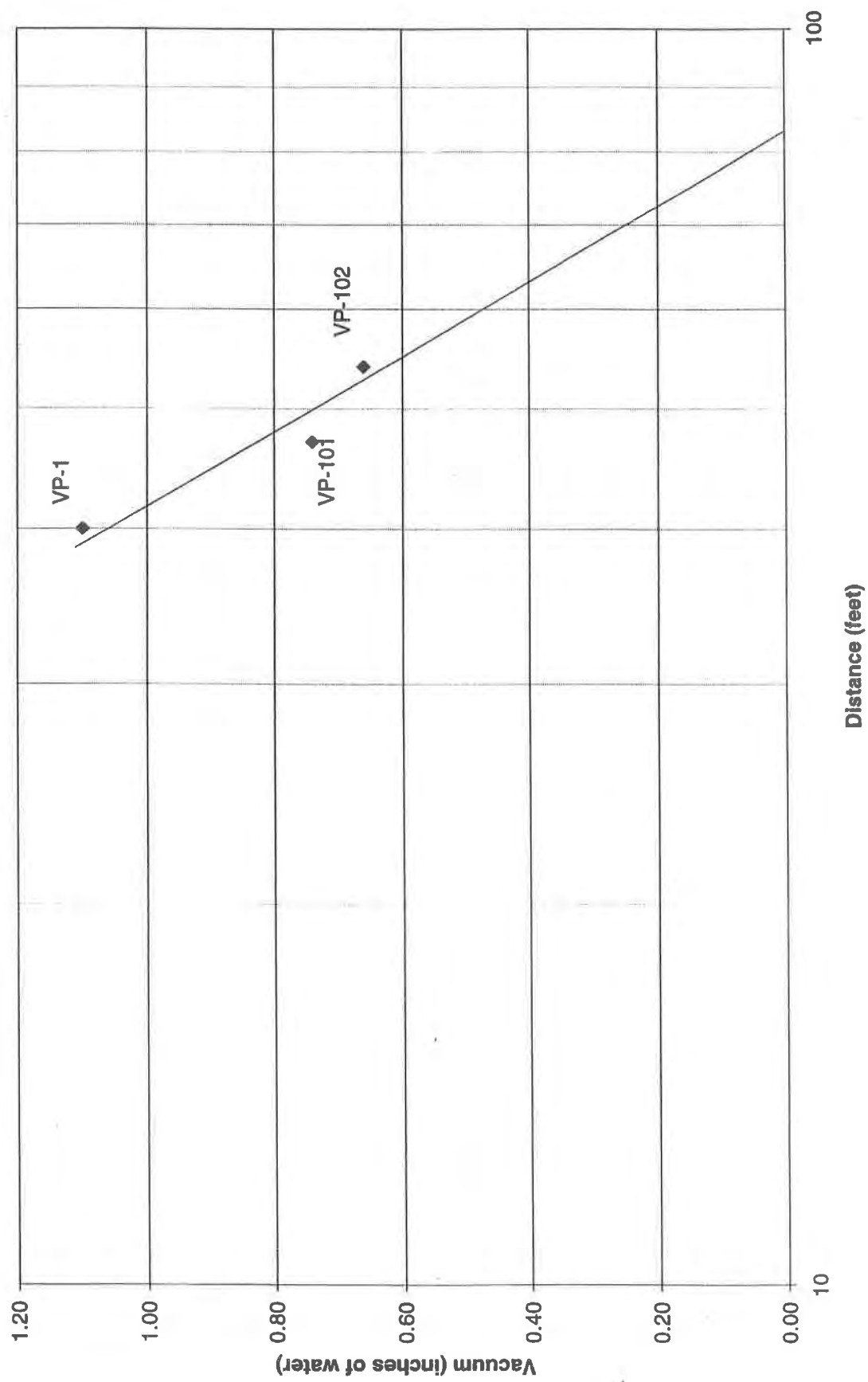
ABBREVIATIONS:

PID Photo-ionization detector
ppm Parts per million
cfm Cubic feet per minute
in. water Inches of water column

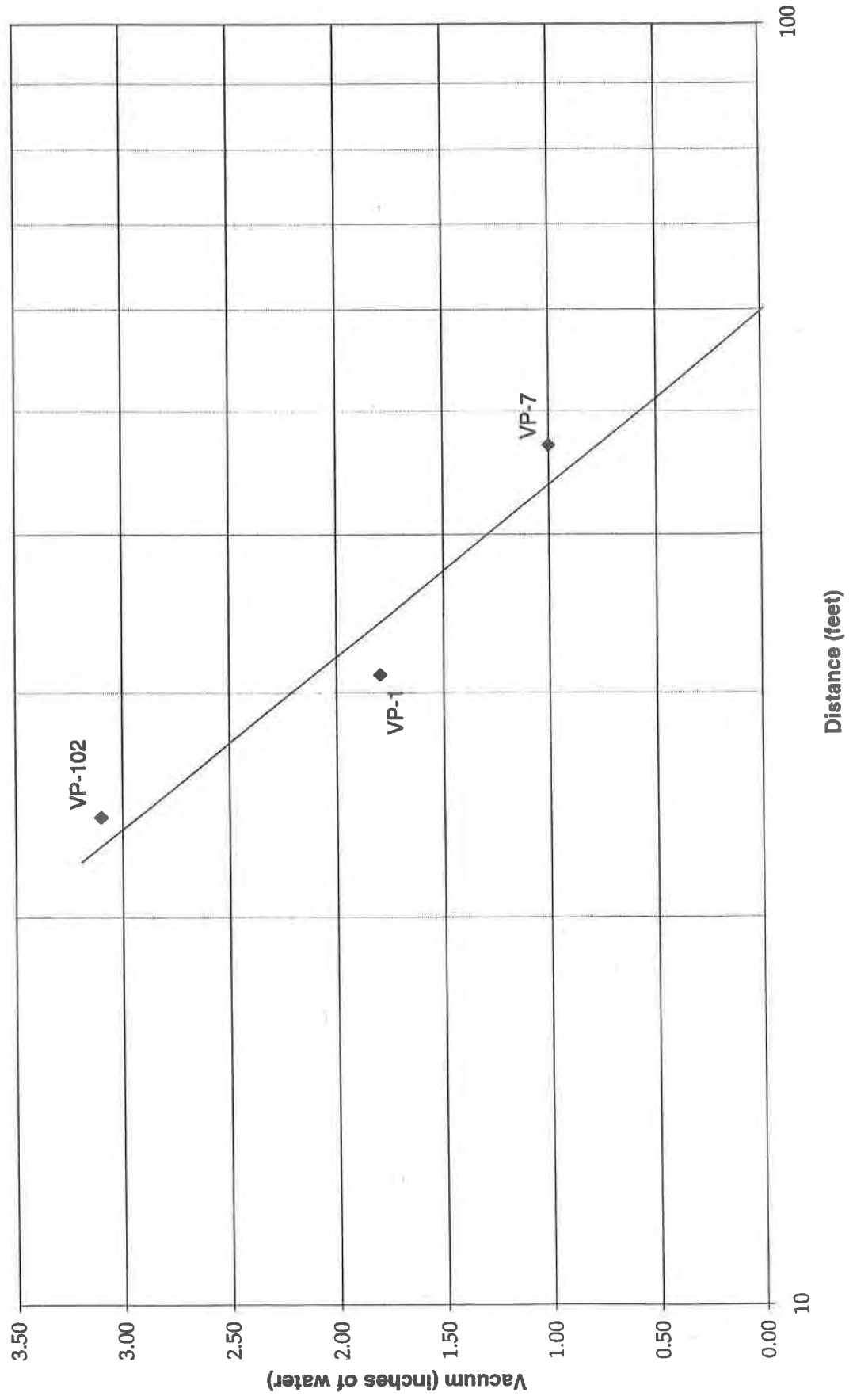
**VAPOR EXTRACTION TEST ON VP-1
RADIUS OF INFLUENCE**



**VAPOR EXTRACTION TEST ON VP-7
RADIUS OF INFLUENCE**

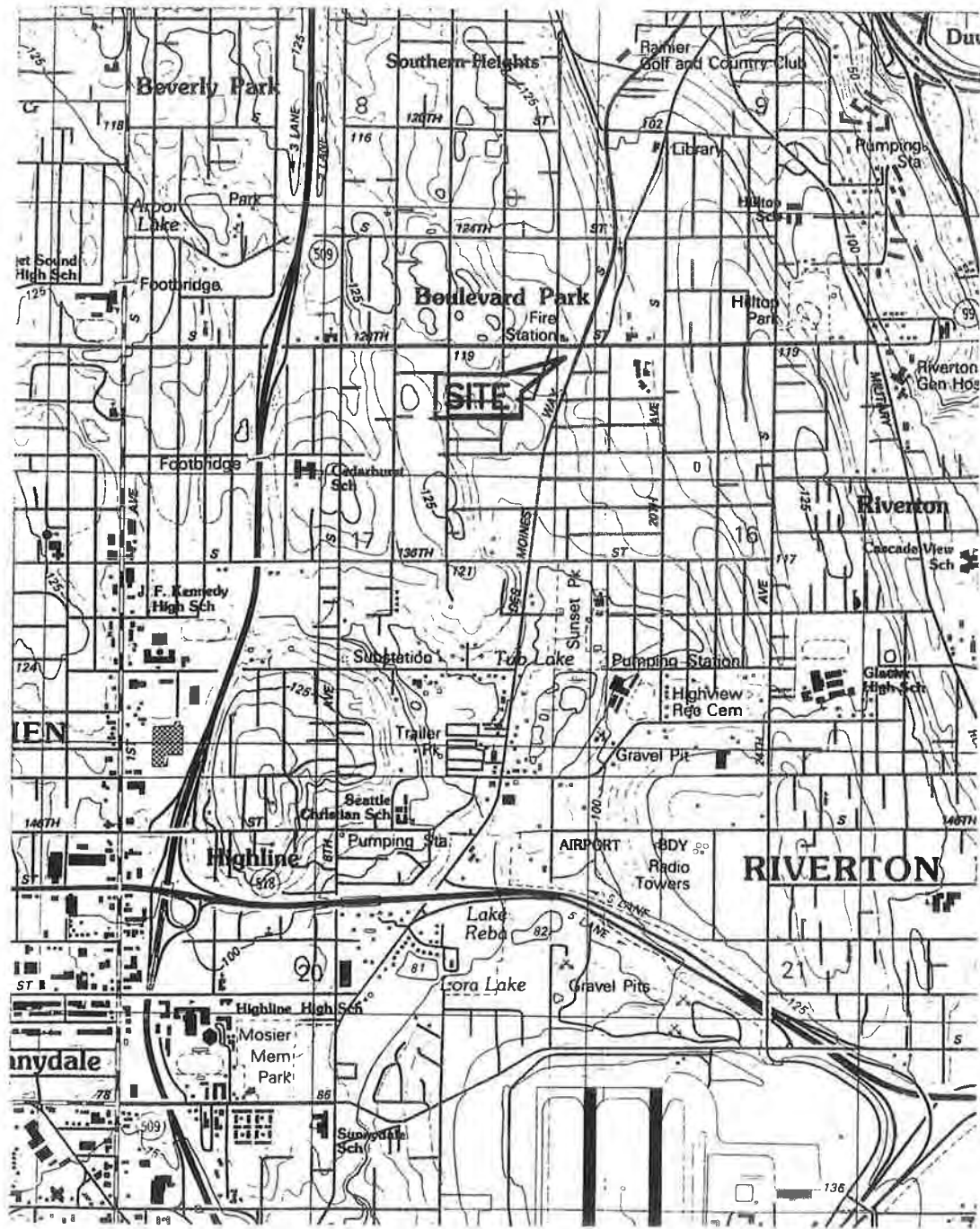


**VAPOR EXTRACTION TEST ON VP-101
RADIUS OF INFLUENCE**



APPENDIX E
REMEDIAL DESIGN DOCUMENT

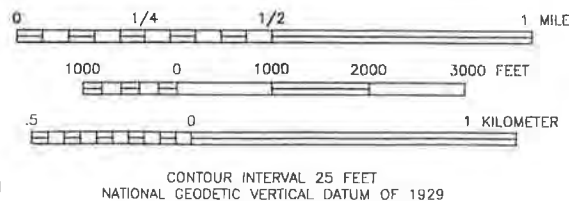




VICINITY MAP

SCALE: 1:24000

UTM GRID AND 1995 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET



DESCRIPTION OF WORK

VAPOR EXTRACTION SYSTEM INSTALLATION
TIME OIL CO. FACILITY NO. 01-284
12807 DES MOINES WAY SOUTH
SEATTLE, WASHINGTON

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE UNIFORM BUILDING CODE, 1994 EDITION, LOCAL CODES, AND APPLICABLE STATE AND FEDERAL REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FIELD DIMENSIONS AND IDENTIFYING CONFLICTING UTILITIES PRIOR TO BEGINNING WORK. AS-BUILT DRAWINGS OF EXISTING FACILITIES OR STRUCTURES ARE NOT AVAILABLE. DAMAGE TO EXISTING PIPING, CONDUIT OR OTHER ITEMS SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION BY THE CONTRACTOR.
- THE ENGINEER SHALL OBTAIN AIR DISCHARGE PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS.
- THE CONTRACTOR SHALL SECURE THE CONSTRUCTION AREA AGAINST ENTRY BY UNAUTHORIZED PERSONNEL FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS SUPPLIED BY THE OWNER OR ENGINEER FOLLOWING DELIVERY TO JOB SITE.
- OPEN TRENCHES CROSSING STATION TRAFFIC AREA SHALL REMAIN PROTECTED WITH TRENCH PLATES UNLESS WORK IS OCCURRING IN THE AREA.
- ASPHALT AND CONCRETE SURFACES SHALL BE SAWCUT IN A STRAIGHT LINE BEFORE REMOVAL FOR TRENCHING OR EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE EXCAVATED SURFACING MATERIALS AND TRENCHING SPOILS NOT USEABLE FOR BACKFILL.
- UTILITY TRENCHES SHALL BE EXCAVATED A MINIMUM OF 3 INCHES DEEPER THAN THE BOTTOM OF INSTALLED PIPES OR CONDUITS. ALL LINES SHALL HAVE A MINIMUM COVER OF 6 INCHES OF COMPACTED SAND AND A MINIMUM BURIAL DEPTH OF 18 INCHES, UNLESS NOTED OTHERWISE.
- TRENCHES SHALL BE BACKFILLED WITH CLEAN SAND, WITH A MAXIMUM LOOSE LIFT OF 8 INCHES BEFORE COMPACTION. COMPACTION SHALL BE TO A DENSITY OF NO LESS THAN 95 PERCENT OF MAXIMUM.
- FOR ASPHALT PAVING, CONTRACTOR SHALL PLACE A CLASS 2, 3/4-INCH AGGREGATE BASE TO A MINIMUM THICKNESS OF 6 INCHES PRIOR TO RESURFACING. AGGREGATE BASE SHALL HAVE A RELATIVE COMPACTION OF NOT LESS THAN 95 PERCENT. ASPHALT PAVEMENT TOP COURSE TO BE A MINIMUM OF 3 INCHES THICK.
- CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI. MINIMUM THICKNESS OF CONCRETE SHALL BE 6 INCHES. FIBER REINFORCEMENT SHALL BE USED. FINISH SHALL BE TROWEL SMOOTH OR TO MATCH SURROUNDINGS.
- SURFACING MATERIALS SHALL MATCH SURROUNDINGS UNLESS NOTED OTHERWISE. ASPHALT PAVING SHALL BE SLURRY SEALED TO MATCH EXISTING SURFACE, IF APPLICABLE.
- AIR AND LIQUID-CARRYING LINES SHALL BE PRESSURE TESTED TO 75 PSI BEFORE BACKFILL. VAPOR AND CONTAINMENT CONDUIT SHALL BE PRESSURE TESTED TO 5 PSI BEFORE BACKFILL. ENGINEER AND CITY INSPECTOR SHALL BE NOTIFIED OF AND WITNESS PRESSURE TESTING.
- CONDUIT, PIPE AND CONTAINMENT STUB-UPS SHALL BE A MINIMUM OF 18 INCHES ABOVE FINISHED GRADE.

- PVC PIPE WILL NOT BE TAPPED. MANUFACTURED THREADED FITTINGS AND ADAPTERS ONLY SHALL BE USED.
- ELECTRICAL PANELS, METERS, CONDUIT, AND PIPING IN TREATMENT AREA NOT PENETRATING THE PAD SHALL BE MOUNTED A MINIMUM OF 36 INCHES ABOVE GRADE. PANELS, METERS, PIPES, AND CONDUITS SHALL BE MOUNTED ON A BACKBOARD OF 3/4-INCH-THICK EXTERIOR PLYWOOD, MOUNTED ON UNISTRUT INSTALLED VERTICALLY ON 6-FOOT CENTERS OR ON UNISTRUT INSTALLED VERTICALLY ON 2-FOOT CENTERS.
- WOOD AND BARE STEEL SHALL BE PRIMED WITH A COMPATIBLE PRIMER AND FINISH COATED IN COLORS TO MATCH THE EXISTING STRUCTURES. THE GALVANIZED FENCE MATERIALS WILL BE SURFACE WASHED AND RINSED WITH A DETERGENT SOLUTION TO REMOVE OILY RESIDUALS.

CONSTRUCTION NOTES

- UNDERGROUND ELECTRICAL CONDUITS SHALL USE LONG SWEEPS FOR BENDS. VAULTS MAY BE USED FOR PULL BOXES AS REQUIRED BY THE ELECTRICAL CODE.
- UNDERGROUND CONTAINMENT CONDUITS SHALL USE LONG SWEEPS AND WYES FOR BENDS AND CONNECTIONS. VAULTS MAY BE USED AS JUNCTION BOXES WITH APPROVAL FROM THE ENGINEER.
- PULL ROPES SHALL BE INSTALLED IN THE ELECTRICAL AND CONTAINMENT CONDUITS.
- CAUTION TAPE SHALL BE INSTALLED IN THE TRENCH BACKFILL AT LEAST 6 INCHES ABOVE THE UPPERMOST PIPING.
- VAULTS SHALL BE SET TOTALLY IN CONCRETE. VAULTS WITH A DEPTH GREATER THAN 12 INCHES SHALL BE SET IN TWO OR MORE POURS, WITH THE UPPERMOST LIFT A MAXIMUM OF 10 INCHES THICK. TOPS OF VAULTS SHALL BE SET 1/2-INCH ABOVE GRADE IN COLLARS OF CONCRETE, WITH A MINIMUM COLLAR WIDTH OF 12 INCHES. CONCRETE SHALL BE SLOPED FROM TOP OF VAULT TO GRADE.
- A NEW 240-VOLT, 100-AMP, 3-PHASE ABOVEGROUND SERVICE AND METER SHALL BE OBTAINED FROM PUGET SOUND ENERGY. THE METER SHALL BE MOUNTED ON THE METER PANEL ENCLOSURE LOCATED ON THE TEMPORARY POWER POLE. POWER SUPPLY AND DISTRIBUTION CONDUCTORS SHALL BE THHN, STRANDED COPPER WIRE.
- THE OWNER OR ENGINEER SHALL SUPPLY FLOW SENSORS, GAUGES, VALVES, INTERNAL COMBUSTION UNIT, REGENERATIVE BLOWER, AND IF REQUIRED, CARBON CANISTERS. THE CONTRACTOR SHALL SUPPLY ALL OTHER EQUIPMENT AND MATERIALS.
- TIME OIL COMPANY'S ENVIRONMENTAL CONSTRUCTION GUIDELINES ARE CONSIDERED PART OF THIS PLAN SET AND SHALL BE FOLLOWED IN THE CASE OF ANY INCONSISTENCIES WITH THESE NOTES.

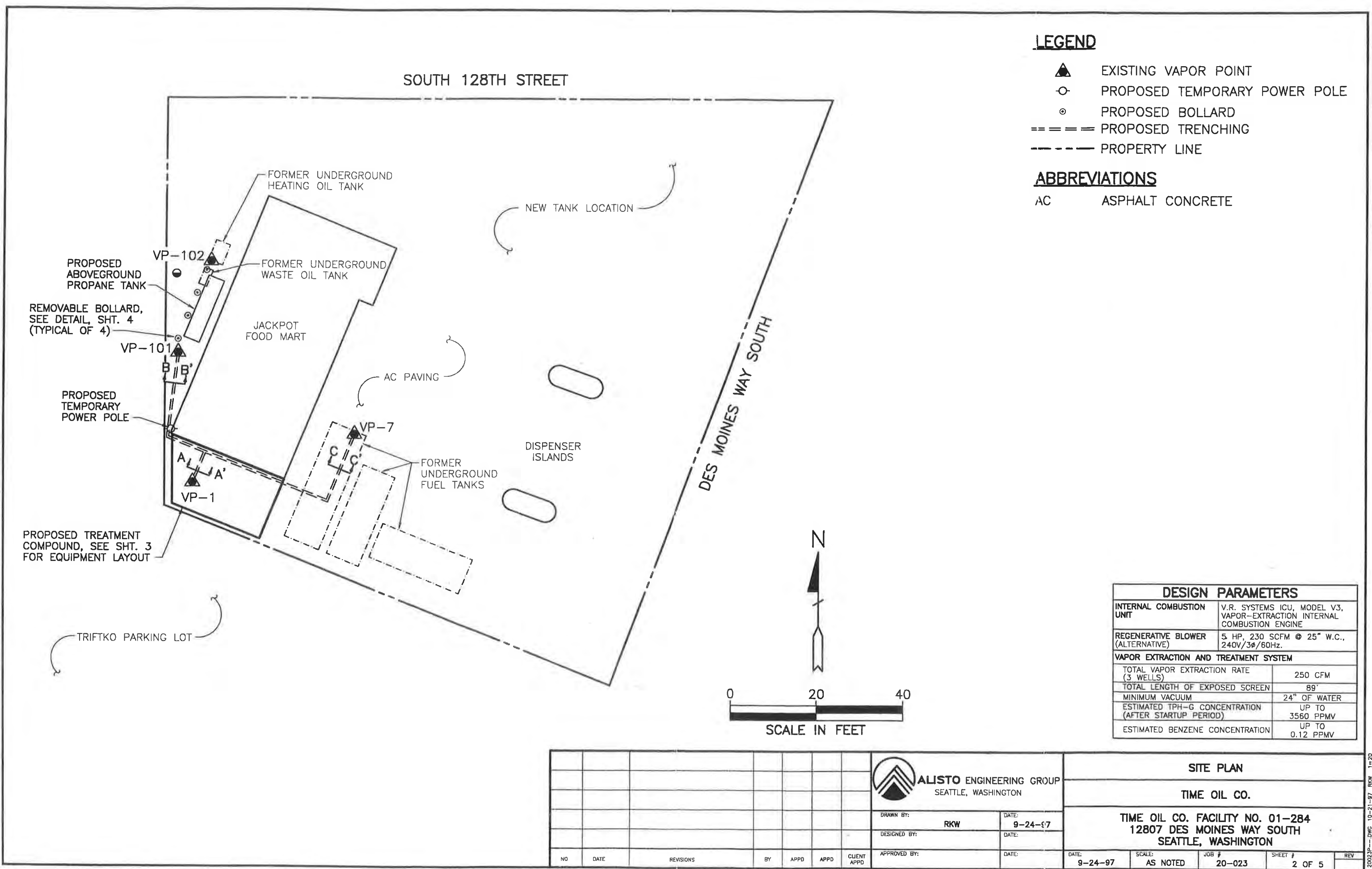
VICINITY MAP & NOTES									
TIME OIL CO.									
TIME OIL CO. FACILITY NO. 01-284 12807 DES MOINES WAY SOUTH SEATTLE, WASHINGTON									
ALISTO ENGINEERING GROUP SEATTLE, WASHINGTON									
DRAWN BY: RKW DATE: 9-24-97									
DESIGNED BY: DATE:									
APPROVED BY: DATE:									
NO	DATE	REVISIONS	BY	APPD	APPD	CLIENT	APPD	DATE	DATE
								9-24-97	9-24-97
								AS NOTED	AS NOTED
								20-023	20-023
								1 OF 5	1 OF 5

LEGEND


- ▲ EXISTING VAPOR POINT
- PROPOSED TEMPORARY POWER POLE
- ⊙ PROPOSED BOLLARD
- ===== PROPOSED TRENCHING
- PROPERTY LINE

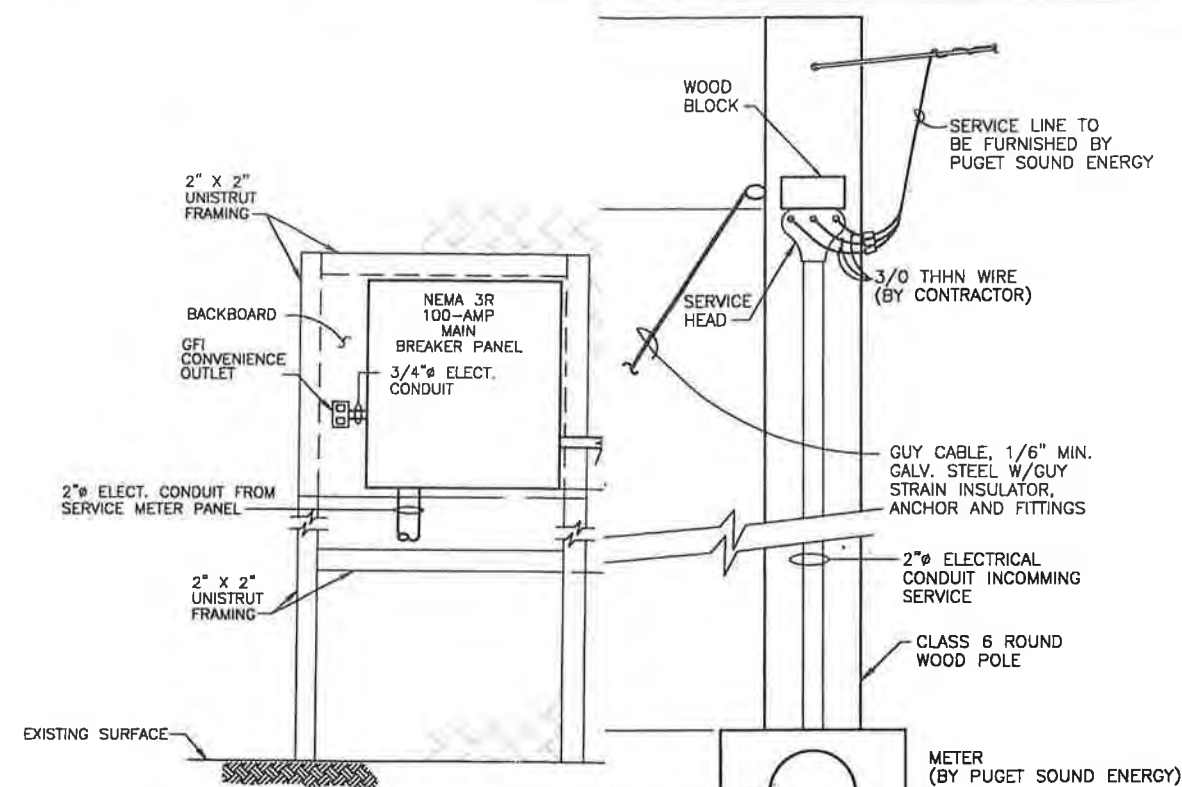
ABBREVIATIONS

AC ASPHALT CONCRETE

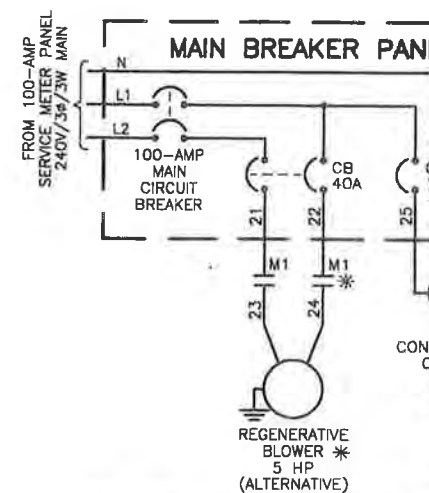


DESIGN PARAMETERS	
INTERNAL COMBUSTION UNIT	V.R. SYSTEMS ICU, MODEL V3, VAPOR-EXTRACTION INTERNAL COMBUSTION ENGINE
REGENERATIVE BLOWER (ALTERNATIVE)	5 HP, 230 SCFM @ 25" W.C., 240V/3Ø/60Hz.
VAPOR EXTRACTION AND TREATMENT SYSTEM	
TOTAL VAPOR EXTRACTION RATE (3 WELLS)	250 CFM
TOTAL LENGTH OF EXPOSED SCREEN	89'
MINIMUM VACUUM	24" OF WATER
ESTIMATED TPH-G CONCENTRATION (AFTER STARTUP PERIOD)	UP TO 3560 PPMV
ESTIMATED BENZENE CONCENTRATION	UP TO 0.12 PPMV

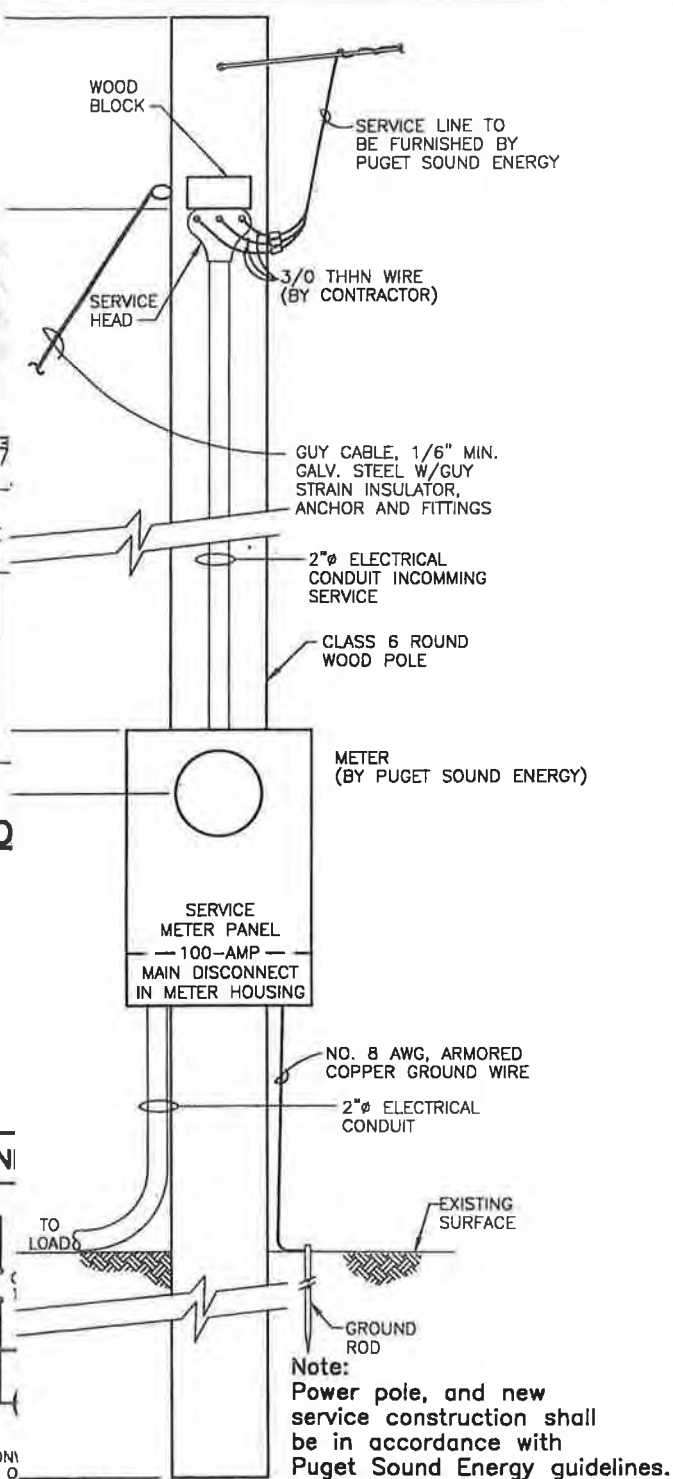
								 <div>ALISTO ENGINEERING GROUP SEATTLE, WASHINGTON</div>	SITE PLAN						
									TIME OIL CO.						
									TIME OIL CO. FACILITY NO. 01-284 12807 DES MOINES WAY SOUTH SEATTLE, WASHINGTON						
NO	DATE	REVISIONS	BY	APPD	APPD	CLIENT APPD	APPROVED BY:		DATE:	DATE:	DATE:	SCALE:	JOB #	SHEET #	REV
											9-24-97	AS NOTED	20-023	2 OF 5	



ELECTRICAL PANEL BACKBO
SCALE: 3/4" = 1'-0"



PANEL WIRING DIAGR
NOT TO SCALE



**TEMPORARY POWER POLE
WITH SERVICE PANEL
EXPOSED METER TYPE**
NOT TO SCALE

Note:
Power pole, and new
service construction shall
be in accordance with
Puget Sound Energy guidelines.

ELECTRICAL DIAGRAMS & NOTES				
TIME OIL CO.				
TIME OIL CO. FACILITY NO. 01-284 12807 DES MOINES WAY SOUTH SEATTLE, WASHINGTON				
DATE: 9-24-97	SCALE: AS NOTED	JOB # 20-023	SHEET # 5 OF 5	REV

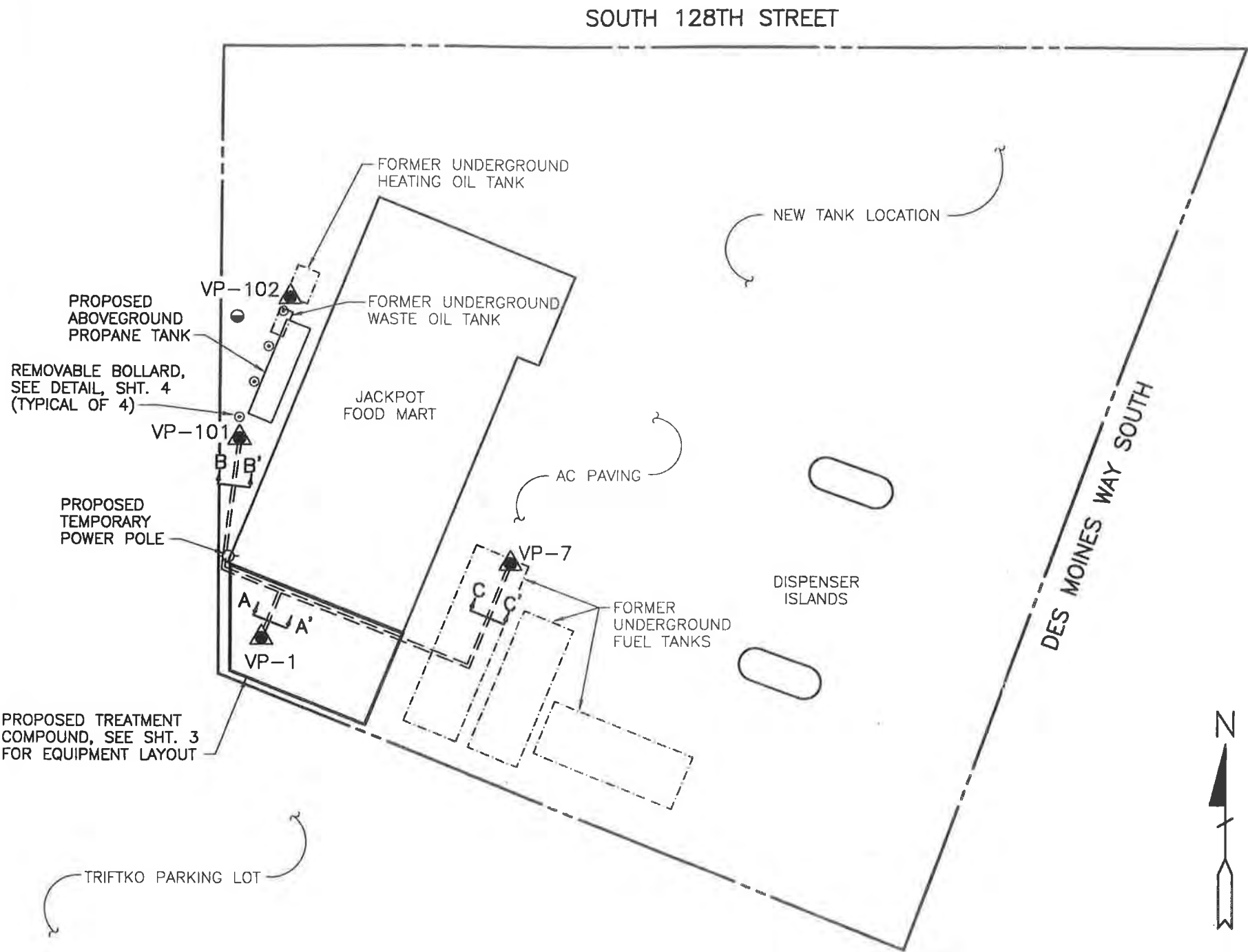
200235-1-DWG 10-2-97 RKW 1=2

LEGEND


- ▲ EXISTING VAPOR POINT
- PROPOSED TEMPORARY POWER POLE
- ⊙ PROPOSED BOLLARD
- ===== PROPOSED TRENCHING
- PROPERTY LINE

ABBREVIATIONS

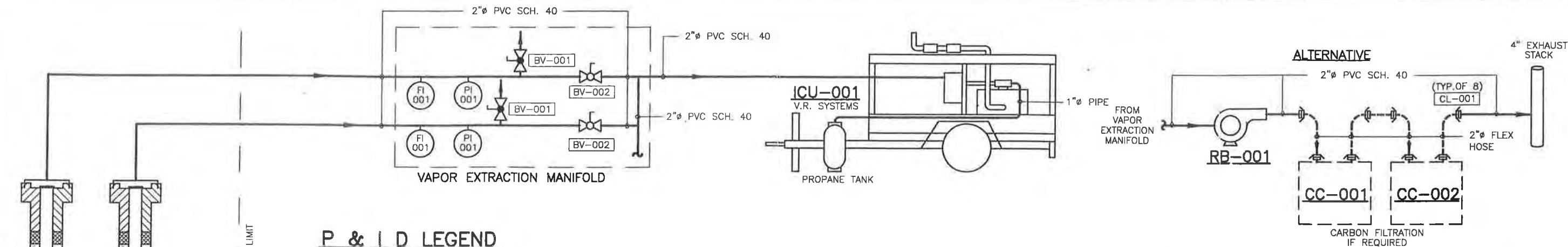
AC ASPHALT CONCRETE



DESIGN PARAMETERS	
INTERNAL COMBUSTION UNIT	V.R. SYSTEMS ICU, MODEL V3, VAPOR-EXTRACTION INTERNAL COMBUSTION ENGINE
REGENERATIVE BLOWER (ALTERNATIVE)	5 HP, 230 SCFM @ 25" W.C., 240V/3Ø/60Hz.
VAPOR EXTRACTION AND TREATMENT SYSTEM	
TOTAL VAPOR EXTRACTION RATE (3 WELLS)	250 CFM
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MINIMUM VACUUM	24" OF WATER
ESTIMATED TPH-G CONCENTRATION (AFTER STARTUP PERIOD)	UP TO 3560 PPMV
ESTIMATED BENZENE CONCENTRATION	UP TO 0.12 PPMV

								<div><div></div><div>ALISTO ENGINEERING GROUP</div><div>SEATTLE, WASHINGTON</div></div>	SITE PLAN									
									TIME OIL CO.									
									TIME OIL CO. FACILITY NO. 01-284 12807 DES MOINES WAY SOUTH SEATTLE, WASHINGTON									
									DRAWN BY:	RKW	DATE:	9-24-97						
								DESIGNED BY:		DATE:								
NO	DATE	REVISIONS	BY	APPD	APPD	CLIENT APPD	APPROVED BY:	DATE:		DATE:	9-24-97	SCALE:	AS NOTED	JOB #	20-023	SHEET #	2 OF 5	REV

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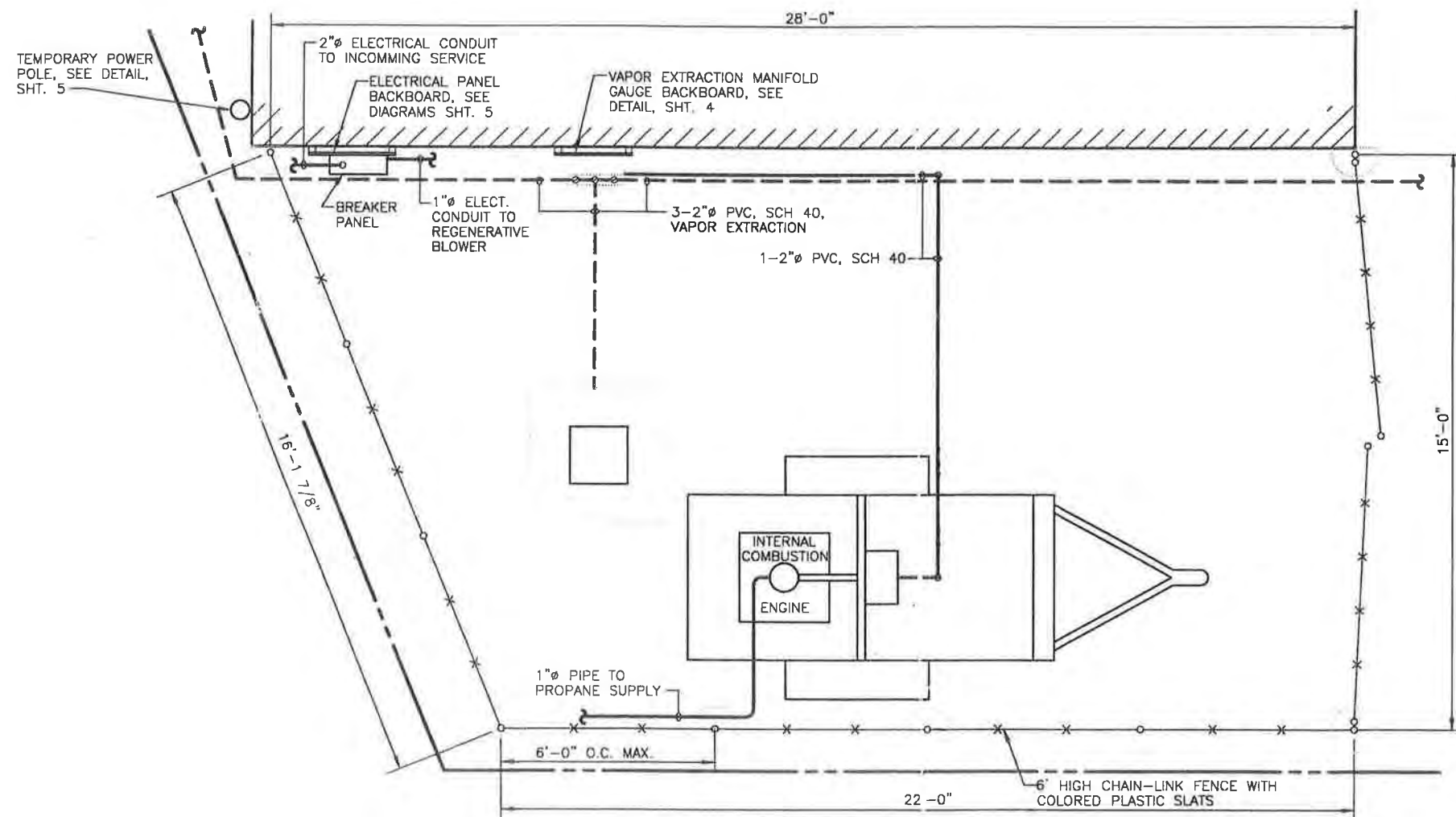
P & I D LEGEND

- NORMALLY OPEN VALVE
- NORMALLY CLOSED VALVE

PROCESS & INSTRUMENTATION DIAGRAM N.T.S.


EQUIPMENT LIST

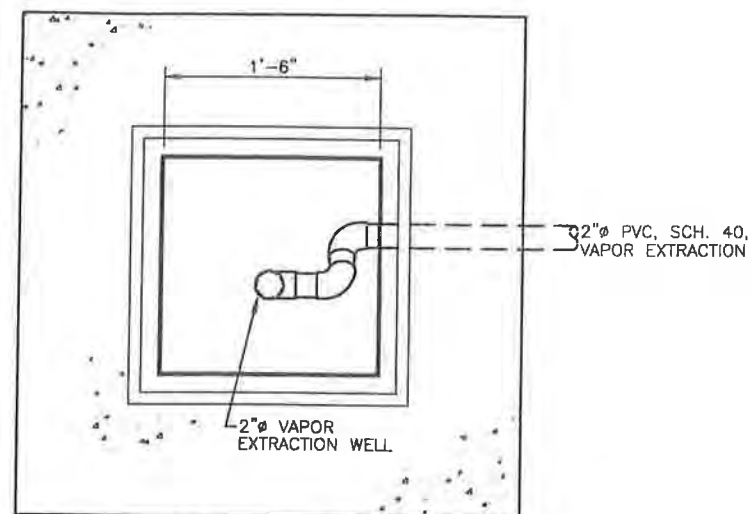
ITEM	DESCRIPTION	SPECIFICATION
BV-001 (3)	SAMPLE PORT	1/4-INCH, BRASS, BALL VALVE
BV-002 (3)	BALL VALVE	2-INCH, FULL PORT, PVC, VITON SEALS
CC-001 CC-002	ACTIVATED CARBON CANISTER (IF REQUIRED)	200 LB. CAPACITY, POLY DRUM, 12 PSI MAX.
CL-001 (8 PAIRS)	CAMLOCK (IF REQUIRED)	2-INCH FNPT, ALUMINUM HOSE BARB, MALE/FEMALE CONNECTION
FI-001 (3)	FLOW SENSOR	DWYER MODEL DS-200-2" FLOW SENSOR
	PRESSURE GAUGE	DWYER MODEL 2005, MAGNEHELIC PRESSURE GAUGE, 0-5 INCHES W.C.
ICU-001	INTERNAL COMBUSTION UNIT	V.R. SYSTEMS IC UNIT, MODEL V3, VAPOR EXTRACTION INTERNAL COMBUSTION ENGINE, POWER BY PROPANE
PI-001 (3)	PRESSURE GAUGE	DWYER MODEL 2150, MAGNEHELIC PRESSURE GAUGE, 0-150 INCHES W.C.
RB-001	AIR REGENERATIVE BLOWER (ALTERNATIVE)	5 HP, 230 SCFM, 25-INCH W.C., 230V/3Ø/60Hz



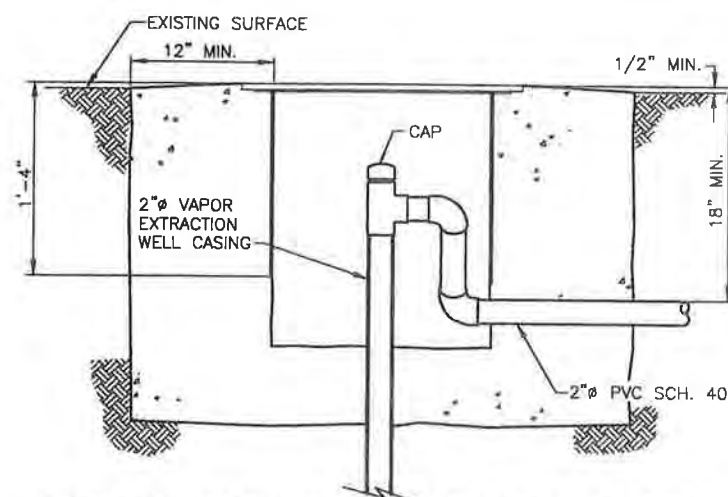
TREATMENT COMPOUND-EQUIPMENT LAYOUT

SCALE: 1/4" = 1'-0"

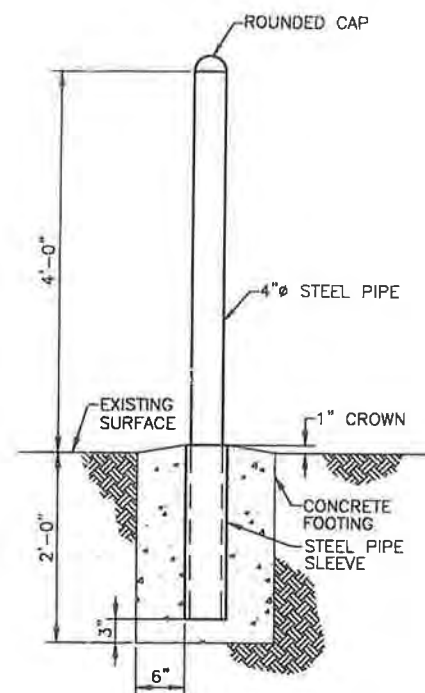
								 ALISTO ENGINEERING GROUP SEATTLE, WASHINGTON		P & I D/TREATMENT COMPOUND LAYOUT & DETAILS																			
										TIME OIL CO.																			
								DRAWN BY: RKW		DATE: 9-24-97		TIME OIL CO. FACILITY NO. 01-284 12807 DES MOINES WAY SOUTH SEATTLE, WASHINGTON																	
DESIGNED BY:		DATE:		DATE:		9-24-97		SCALE:		JOB #		SHEET #		REV															
NO		DATE		REVISIONS		BY		APPD		APPD		CLIENT		APPD		APPROVED BY:		DATE:		9-24-97		AS NOTED		20-023		3 OF 5			



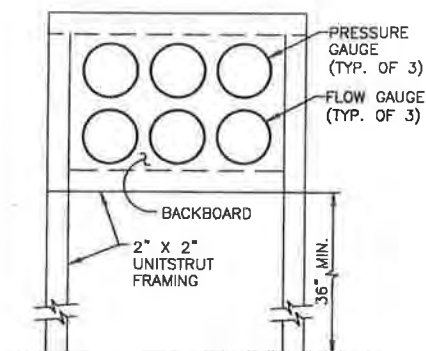
TYPICAL WELL VAULT PLAN VIEW
SCALE: 3/4" = 1'-0"



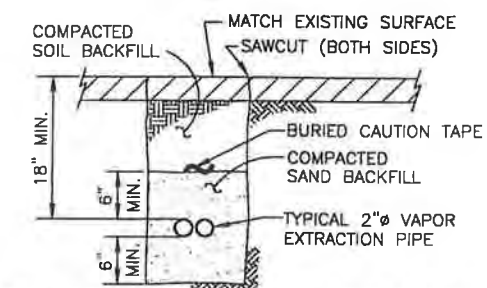
TYPICAL WELL VAULT CROSS SECTION
SCALE: 3/4" = 1'-0"



TYPICAL REMOVABLE BOLLARD DETAIL
SCALE: 1/2" = 1'-0"



VAPOR EXTRACTION MANIFOLD GAUGE BACKBOARD
SCALE: 3/4" = 1'-0"

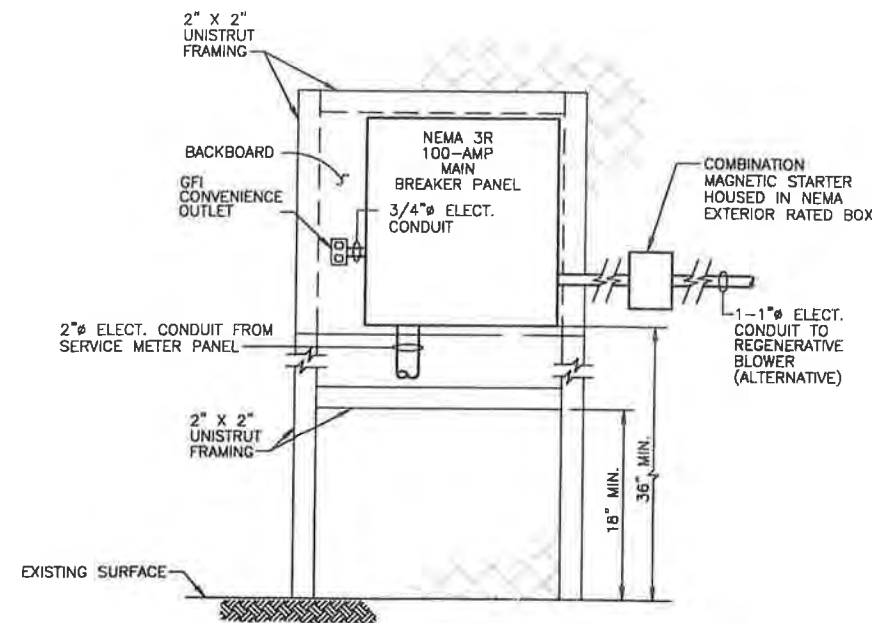


TYPICAL TRENCH SECTION
SCALE: 1/2" = 1'-0"

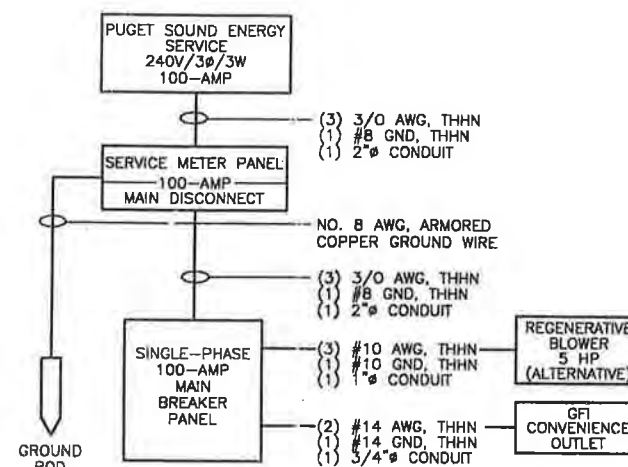
TRENCH PIPING SCHEDULE

SECTION	SECTION LENGTH	2" PVC SCH. 40 VAPOR EXTRACTION	CAUTION TAPE
A-A'	5'	1	1
B-B'	30'	1	1
C-C'	50'	1	1
LINEAL FEET	85	85	85
SUPPLIED BY	CONTRACTOR	CONT.	

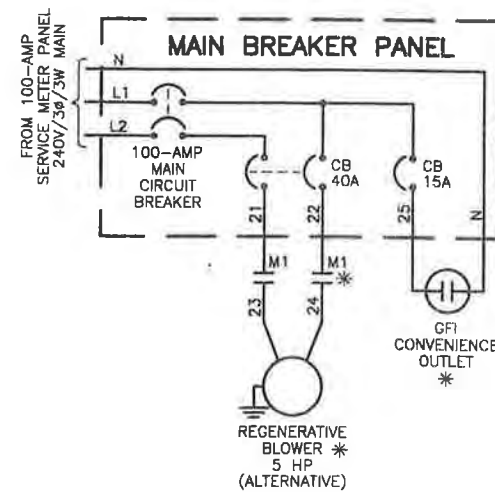
						ALISTO ENGINEERING GROUP SEATTLE, WASHINGTON	SECTIONS, DETAILS & ELEVATIONS							
							TIME OIL CO.							
							TIME OIL CO. FACILITY NO. 01-284 12807 DES MOINES WAY SOUTH SEATTLE, WASHINGTON							
NO	DATE	REVISIONS	BY	APPD	APPD	CLIENT APPD	APPROVED BY:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:



ELECTRICAL PANEL BACKBOARD
SCALE: 3/4" = 1'-0"



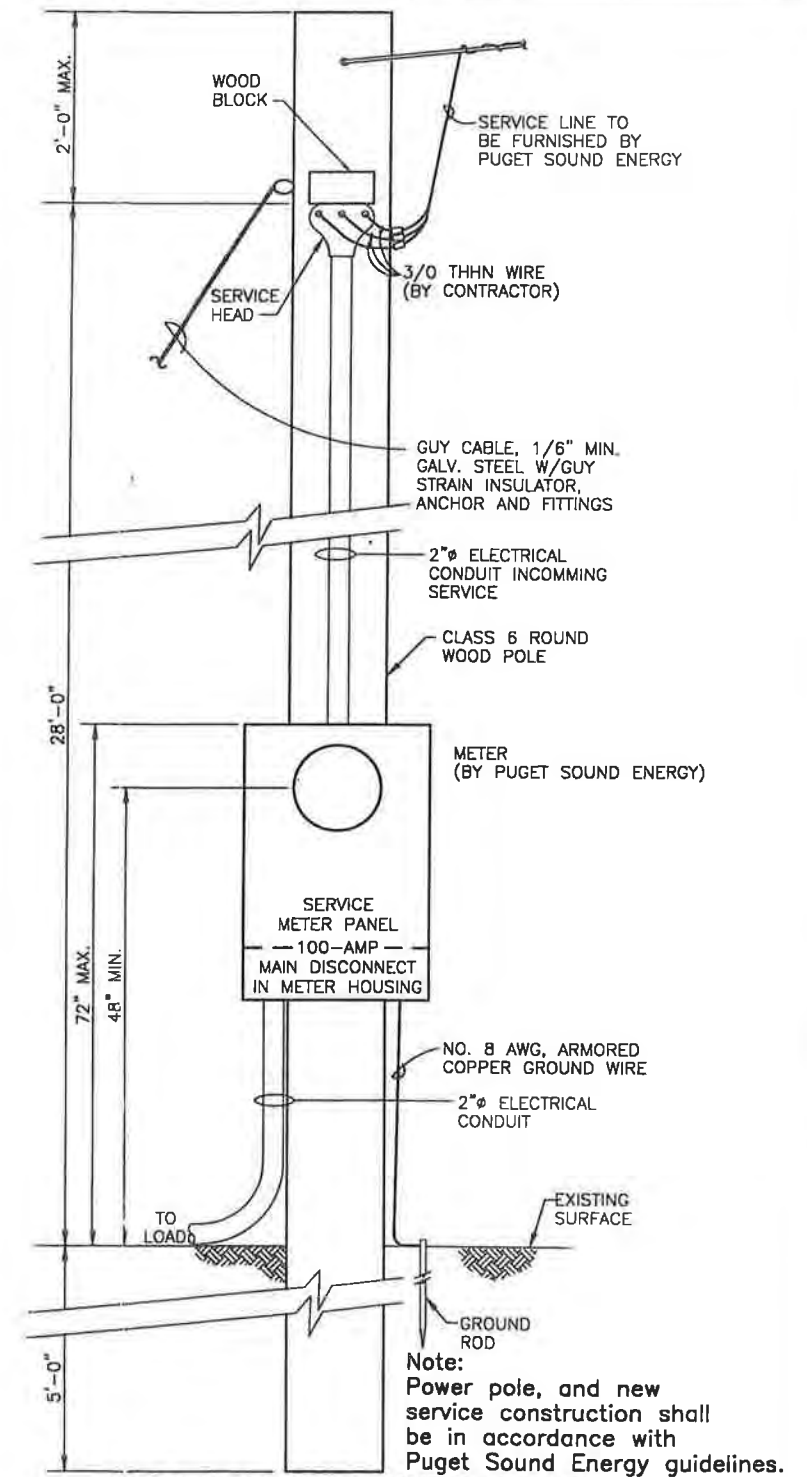
ELECTRICAL POWER DISTRIBUTION
NOT TO SCALE




PANEL WIRING DIAGRAMS
NOT TO SCALE

LEGEND

- * DENOTES REMOTE FROM PANEL
- CB CIRCUIT BREAKER
- M1 2 WIRE CONTACTOR



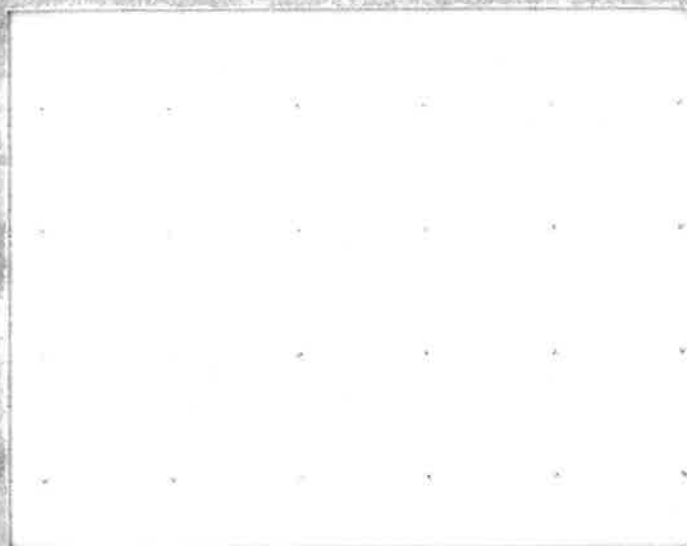
**TEMPORARY POWER POLE
WITH SERVICE PANEL
EXPOSED METER TYPE**
NOT TO SCALE

								 ALISTO ENGINEERING GROUP SEATTLE, WASHINGTON	ELECTRICAL DIAGRAMS & NOTES						
									TIME OIL CO.						
									TIME OIL CO. FACILITY NO. 01-284 12807 DES MOINES WAY SOUTH SEATTLE, WASHINGTON						
NO	DATE	REVISIONS		BY	APPD	APPD	CLIENT APPD	DRAWN BY: RKW	DATE: 9-24-97	DATE: 9-24-97		SCALE: AS NOTED	JOB # 20-023	SHEET # 5 OF 5	REV
								DESIGNED BY:	DATE:	DATE:					
								APPROVED BY:	DATE:	DATE:					

LUST # 2079
TIME OIL FOOD MARKET
KING

Engineers and Geologists

Geo  Engineers



DEPARTMENT OF ECOLOGY
NWRO/TCP TANKS UNIT

INTERIM CLEANUP REPORT
SITE CHARACTERIZATION
FINAL CLEANUP REPORT
OTHER _____

AFFECTED MEDIA: SOIL _____

OTHER _____ GW _____

INSPECTOR (IN) *[Signature]* DATE *11-4-93*



UST-II - NINE 004050

UST # 2079
Time oil (01-284)
KING

RECEIVED

OCT 27 1993

DEPT. OF ECOLOGY

**Report of Geoenvironmental Services
Subsurface Soil Explorations and
Remediation**

**Jackpot Food Mart Property No. 01-284
Seattle, Washington**

April 28, 1993

For

Time Oil Co.

SP 2/2/94 CN		DEPARTMENT OF ECOLOGY NWRO/TCP TANKS UNIT	
INTERIM CLEANUP REPORT		<input checked="" type="checkbox"/>	
SITE CHARACTERIZATION		<input type="checkbox"/>	
FINAL CLEANUP REPORT		<input type="checkbox"/>	
OTHER		<input type="checkbox"/>	
AFFECTED MEDIA:		SOIL	
OTHER		GW	
INSPECTOR (INIT.)		DATE	
JP		11-4-93	

April 28, 1993

Geotechnical,
Geoenvironmental and
Geologic Services

Time Oil Co.
2737 West Commodore Way
Seattle, Washington 98199-1233

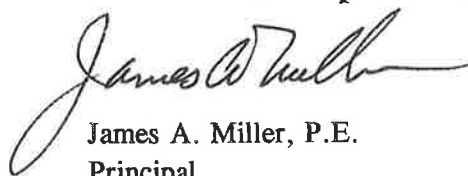
Attention: Ms. Anastasia Duarte
Environmental Toxicologist

This letter transmits two copies of our "Report of Geoenvironmental Services, Subsurface Soil Explorations and Remediation, Jackpot Food Mart Property No. 01-284." Our services were performed in accordance with the scope of services presented in our proposal dated August 3, 1992. Our services were conducted under your contract dated October 12, 1992 and the change orders 01-284-GE1 dated January 4, 1993, and 01-284-GE2 dated February 18, 1993.

We have enjoyed working with you on this project and look forward to working with you in the future. Please contact us should you have questions or comments regarding the enclosed report.

Yours very truly,

GeoEngineers, Inc.



James A. Miller, P.E.
Principal

JAM:vvv

Document ID: 1957009.R

File No. 1957-009-R04

GeoEngineers, Inc.
8410 154th Avenue N.E.
Redmond, WA 98052
Telephone (206) 861-6000
Fax (206) 861-6050

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**REPORT OF GEOENVIRONMENTAL SERVICES
SUBSURFACE SOIL EXPLORATIONS AND REMEDIATION
JACKPOT FOOD MART PROPERTY NO. 01-284
SEATTLE, WASHINGTON
FOR
TIME OIL CO.**

INTRODUCTION

This report presents the results of GeoEngineers' observations and testing during soil exploration and remedial activities conducted on and adjacent to Jackpot Food Mart Property No. 01-284. The site is located at 12807 Des Moines Way South, in Seattle, Washington, and is shown relative to surrounding physical features in Figure 1. The general layout of the site is shown in Figure 2.

BACKGROUND

We understand that Time Oil (Time Oil Co.) monitored the removal of two 8,000-gallon USTs (underground storage tanks) and one 10,000-gallon gasoline UST from the site during a facility upgrade on December 12, 1990. Time Oil reported that corrosion was observed on the tank exteriors, but obvious holes were not noted. Backfill within the excavation was reported to be contaminated with gasoline. Discolored soil reportedly was observed on the sidewalls of the excavation, and elevated concentrations of combustible vapors were detected in soil samples collected from these areas. Time Oil reported that ground water was not present within the gasoline UST excavation.

Seven soil samples were collected from the base of the gasoline UST excavation by Time Oil for chemical analysis. Benzene was detected at a concentration of 0.91 mg/kg (milligrams per kilogram) in one soil sample obtained from beneath the fill port of the eastern UST. Concentrations of fuel hydrocarbons and BETX either were not detected or were detected at concentrations less than the respective MTCA Method A cleanup levels in the other samples.

Approximately 100 feet of perforated plastic piping was placed in the UST excavation and the excavation was backfilled with the former tank backfill material and imported soil. Replacement gasoline USTs were installed in the northeast portion of the site.

On January 2, 1991, Time Oil monitored the removal of a 550-gallon heating oil UST and a 300-gallon waste oil UST from the western portion of the site. Petroleum staining was observed in the soil adjacent to the waste oil tank fill port and contamination appeared to have migrated laterally from the waste oil UST at a depth of approximately 10 feet, based on information provided by Time Oil. The excavation completed for UST removal was approximately 12 feet deep, and ground water was not observed in the excavation.

Five soil samples were obtained by Time Oil from the heating/waste oil tank excavation for analysis of petroleum-related hydrocarbons and metals. TPH (total petroleum hydrocarbons) was detected in the soil samples at concentrations ranging from 590 mg/kg to 4,700 mg/kg. Aroclor 1254 was detected at a concentration of 1 mg/kg in a sample from a depth of 10 feet. This concentration is equal to the MTCA (Model Toxics Control Act) Method A cleanup level for PCBs (polychlorinated biphenyls) in soil.

Approximately 5 cubic yards of soil from the heating oil and waste oil UST excavation was disposed of off site, based on our conversations with Ms. Anastasia Duarte of Time Oil. The remaining tank backfill was returned to the excavation during backfilling activities. Asphalt paving was not replaced following the January 1991 excavation activities.

The Jackpot Food Mart previously operated as a Hudson service station with at least one service bay, based on our conversations with Time Oil. The site is listed as site number 2079 in Ecology's (Washington State Department of Ecology) February 10, 1993 LUST (leaking underground storage tank) list.

SCOPE OF SERVICES

The purpose of the services described in this report was to (1) conduct a VES (vapor extraction system) test and monitor combustible vapor concentrations vented from the former gasoline UST excavation, (2) monitor the excavation of additional contaminated soil from the vicinity of the former heating oil and waste oil USTs, (3) observe and document subsurface soil conditions in soil borings completed in the vicinity of the former gasoline USTs, and (4) observe and document subsurface soil conditions in on- and off-site soil borings completed to assess the extent of contamination associated with the heating oil and waste oil tanks. Our services were authorized by Time Oil on October 14, 1992. The specific scope of services completed for this study is summarized below.

1. Locate USTs and associated piping on the subject property and underground pipelines or utilities near the tanks.
2. Locate subsurface utilities on site and off site prior to excavation or drilling.
3. Review available records to determine the depth to first ground water beneath the site and determine its use, if any.
4. Investigate the source of drinking water for businesses and residences within ½ mile of the site.
5. Conduct a soil venting test utilizing existing perforated piping within the former gasoline UST excavation and monitor the concentrations of combustible vapors that are withdrawn from the excavation backfill and monitor combustible vapor concentrations in the exhaust stack approximately twice weekly for approximately one month.
6. Observe and document the excavation of contaminated soil in the vicinity of the former heating oil and waste oil USTs.

7. Conduct field screening on soil samples obtained from the excavation and soil stockpiles for evidence of petroleum-related contamination using visual, water sheen and headspace vapor screening methods.
8. Obtain samples of the contaminated soil either as it is excavated or from stockpiles for characterization of contaminants in accordance with Ecology's guidelines.
9. Obtain soil samples from the limits of the excavation in accordance with Ecology's guidelines.
10. Submit soil samples from the excavation for chemical analysis of one or more of the following: petroleum hydrocarbons using Ecology Methods WTPH-HCID (hydrocarbon identification), WTPH-G (gasoline-range), WTPH-D (diesel-range), WTPH-D (extended range), and BETX (benzene, ethylbenzene, toluene and xylenes) using EPA Method 8020.
11. Submit soil samples from the stockpiles for chemical analysis using one or more of the following methods: Ecology Methods WTPH-HCID, WTPH-G, WTPH-D, WTPH-D extended range, WTPH-418.1 Modified, EPA Method 8020 for BETX, EPA Method 8240 for VOCs (volatile organic compounds), EPA Method 8270 for semivolatile organic compounds, EPA 6000 and 7000 series for total metals, and EPA Method 8080 for PCBs.
12. Coordinate disposal of petroleum-contaminated soil at the Woodworth & Company facility in Tacoma, Washington, for use in its asphalt concrete production process.
13. Obtain a sample of the backfill material to determine MDD (maximum dry density) by ASTM (American Society for Testing and Materials) D1557-78 and monitor the backfilling of the heating oil and waste oil UST excavation and compaction of imported fill material.
14. Monitor the installation of an oil/water collection sump within the heating oil and waste oil UST excavation during backfilling activities.
15. Drill five on-site borings and four off-site borings to depths ranging from approximately 14.0 to 56.5 feet below grade using hollow-stem auger drilling equipment.
16. Obtain soil samples at approximate 2.5- to 5.0-foot intervals from each boring and screen each sample in the field for evidence of petroleum-related contamination using visual, water sheen and headspace vapor screening methods.
17. Submit at least one soil sample from each boring for laboratory analysis of one or more of the following: Ecology Methods WTPH-HCID, WTPH-G, WTPH-D, WTPH-D extended range, BETX by EPA Method 8020, and total lead by EPA Method 6010.
18. Obtain one representative soil sample from the primary zone of contamination for grain-size analysis by ASTM C136-84a to allow for estimation of vertical hydraulic conductivity (by the Hazen method) and air conductivity.
19. Monitor the installation of a 2-inch-diameter vapor probe in two of the borings and protect the well casings within flush-grade, lockable surface monuments.
20. Evaluate the field and laboratory data with regard to existing regulatory concerns.

SITE CONDITIONS AND LAND USE

SURFACE CONDITIONS

Jackpot Food Mart No. 01-284, located southwest of the intersection between South 128th Street and Des Moines Way South in Seattle, Washington, is an active food mart and service station. The site measures approximately 140 feet by 110 feet in plan dimensions. The site slopes gently downward to the south and is at an approximate ground surface elevation of 375 feet above sea level. The site is situated on a relatively level plateau that lies between the Duwamish River to the east and Puget Sound to the west. The adjacent properties west and south of the site are owned by Albertsons (Albertsons, Inc.). An operating retail store (Thriftko) presently occupies the former Albertsons supermarket building. Thriftko parking areas are located immediately west and south of the Jackpot Food Mart site (Figure 2).

The facilities at the site at the time of our remedial monitoring activities included three 10,000-gallon gasoline USTs, associated product and ventilation pipelines, two service islands and the food mart building.

SUBSURFACE CONDITIONS

Soil

Subsurface soil conditions were explored at the site during remedial excavation and drilling activities, which are described in detail in subsequent sections of this report. Backfill placed after UST removal activities in January 1991 was encountered in the on-site portion of the waste oil tank excavation. The backfill consisted of light brown fine to medium sand with gravel. The backfill material extended to about 7 feet below grade. Native soil encountered in the walls of the excavation consisted of brown sand with varying amounts of silt, gravel and cobbles from the ground surface to approximately 12 feet below grade. Soil encountered from approximately 12 to 28 feet below grade consisted of light brown sand with gravel and cobbles. Soil encountered beneath approximately 28 feet consisted of tan fine to medium sand.

Fill was also encountered in borings B-1 and B-6 from the ground surface to depths ranging between 2 and 5 feet below ground surface. This fill material consisted of fine to medium sand with gravel and varying amounts of silt and brick fragments. Fill was also encountered in the vicinity of the former gasoline tanks in borings B-2, B-7 and B-8 from ground surface to depths ranging from 10 feet to 13 feet. The fill within the former gasoline tank excavation consisted of very loose to medium dense fine to medium sand with varying amounts of silt, gravel and asphalt concrete debris.

Native soil encountered in the borings consisted primarily of two separate units. The upper soil unit consisted of tan to brown silty fine to medium sand with gravel and occasional cobbles and silt lenses. The base of the silty sand unit ranged in depth from just below the ground surface to 27 feet below ground surface. The second major soil unit, encountered in borings B-1, B-3, B-4, B-5, B-6, B-7 and B-9, consisted of tan fine to medium sand with silt. The fine to

medium sand unit generally was encountered beneath the silty sand unit to the completed depths of the borings. Sand with varying amounts of silt was interbedded with silty gravel from approximately 2 feet to 23 feet below ground surface in B-6.

Ground Water

Ground water was not encountered in any of the borings. However, a thin layer of perched ground water was observed in the remedial excavation at about 9 feet below ground surface. Water with a heavy sheen was observed seeping from the eastern wall of the remedial excavation at a depth of approximately 9 feet below grade. It appears that the source of the perched water was surface water that percolated into the heating and waste oil tank excavation, which was not paved following January 1991 tank removal activities.

GeoEngineers reviewed well logs on file with the Northwest Regional Office of Ecology to evaluate the approximate depth to ground water beneath the site. Ecology's records indicated that the Seattle Water Department drilled and installed one test well and one municipal well approximately 750 feet east of the site in 1985, based on the township and range coordinates reported on the well logs. However, Seattle Water Department personnel indicated that the wells are located more than 1/2 mile from the Time Oil site. It is possible that wells exist within a 1/2-mile radius of the site that are not in the public record. Ground water beneath the site probably exists between 60 and 100 feet below the ground surface, based on the Seattle Water Department well logs and the elevations of surface water in this region. We learned, in our phone conversations with King County Water District personnel, that the site and the surrounding area within a 1/2-mile radius of the site are served by municipal water provided by King County Water District No. 20, which obtains its water from the Tolt and Cedar rivers.

SOIL VENTING TEST

Glacier (Glacier Environmental Services, Inc.) installed a temporary VES at the site on December 8, 1992 to test combustible vapor concentrations within the former gasoline tank excavation. The VES equipment was installed within the storage enclosure along the south side of the food mart building (Figure 2). The VES was attached to the vent line, which is connected to the perforated plastic piping within the former gasoline tank excavation. The temporary VES consisted of a Rotron 454 regenerative blower, an in-line particulate filter, a water condensate drum, a high-water shutdown switch and an exhaust stack. The system operated continuously from December 8, 1992 through January 15, 1993, with the exception of short-term shutdowns for system modifications. The system was removed on January 15, 1993. GeoEngineers monitored vapor concentrations in the exhaust stack, system vacuum and system flow approximately twice weekly for the duration of the VES test. The results of our monitoring are presented in Table 1. Emissions, in pounds per day as gasoline, were calculated from our monitoring data. System emissions generally showed a decreasing trend and ranged from 8.7 to 0.87 pounds per day.

REMEDIAL EXCAVATION ACTIVITIES

GENERAL

Glacier conducted soil excavation activities in the vicinity of the former heating oil and waste oil USTs between December 8 and December 21, 1992. A GeoEngineers representative was present to observe the excavation activities and to obtain soil samples for field screening and chemical analysis. Field screening methods were used to help identify possible petroleum-contaminated soil encountered during excavation operations. A description of the field screening methods is presented in Appendix A. The results of field screening and chemical analytical data for soil samples obtained from the excavation are summarized in Table 2. The approximate locations of soil samples obtained from the excavation are shown in Figure 2. The laboratory reports, chain-of-custody records and our review of the laboratory QC (quality control) documentation are included in Appendix B.

During excavation of contaminated soil from the locations of the former heating oil and waste oil USTs on December 8, 1992, we found, based on field screening results, that a zone of contaminated soil originating at the location of the waste oil UST extended laterally to the west beneath the adjacent parking lot owned by Albertsons. On December 8, Albertsons granted Time Oil permission to extend the remedial excavation into the parking lot. It was agreed to that Time Oil would stockpile soil removed from the excavation on Albertsons' property, with the understanding that the parking lot would be restored to its previous condition by January 1, 1993. Excavation of contaminated soil was extended off site on December 8 at the request of Time Oil.

The excavation extended to a maximum depth of 28 feet below grade. Perched ground water was encountered in the excavation at a depth of approximately 9 feet below grade. Water exhibiting a heavy, colorful sheen was observed seeping from the east wall of the excavation, adjacent to the Food Mart building at a depth of about 9 feet below ground surface. Approximately 3,700 gallons of water were removed from the excavation on December 16, 1992 by Coastal Tank Cleaning for treatment and disposal at its facility in Seattle. The excavation could not be extended further to the east because of the presence of the Food Mart building and a sewer pipe. Although field screening indicated that contamination may still exist in the southern wall of the excavation, the excavation was not extended further to the south because of time constraints.

Contaminated soil in the vicinity of the former USTs ranged in depth from about 9 to 19 feet in the northern portion of the excavation and between approximately 15 and 23 feet in the southern portion of the excavation. The base of the contaminated soil zone in the eastern wall of the excavation appeared to dip downward to the south. Headspace vapor screening indicated the presence of more volatile contamination in the eastern and southern portions of the remedial excavation.

Approximately 200 cubic yards (stockpile volume) of overburden soil were removed from the excavation and stockpiled separately on site, as discussed later in this report. This overburden soil appeared to be noncontaminated based on field screening. Approximately 720 cubic yards (stockpile volume) of probable contaminated soil were removed from the excavation and stockpiled separately on the Albertsons property, as discussed later in this report.

CHEMICAL ANALYSIS

Fourteen soil samples (HW-1 through HW-14) obtained from the walls and base of the final limits of the excavation were submitted to ATI (Analytical Technologies, Inc.) for chemical analysis. Soil samples were analyzed using Ecology Method WTPH-D extended for diesel-range and heavy oil-range hydrocarbons. Selected soil samples were analyzed using Ecology Method WTPH-G for gasoline-range hydrocarbons and EPA Method 8020 for volatile aromatic hydrocarbons (benzene, ethylbenzene, toluene and total xylenes) because field screening of the soil samples indicated that volatile contaminants might be present. Sample HW-10 was analyzed only by Ecology Method WTPH-HCID for hydrocarbon identification. Excavation samples were not tested for PCBs or VOCs; however, contaminated soil removed from the excavation was tested for PCBs and VOCs for disposal characterization, as discussed in a subsequent section of this report. The sample analytical results are summarized in Table 2.

Diesel- and oil-range hydrocarbons were detected samples HW-3, HW-4, HW-12 and HW-14 (obtained from the base of the excavation in the vicinity of the former waste oil tank, the south wall of the excavation, and the east wall of the excavation, respectively) at concentrations exceeding the MTCA Method A cleanup levels. Gasoline-range hydrocarbons also were detected in the samples from the east and south walls of the excavation at concentrations greater than the MTCA Method A cleanup level. The removal of additional contaminated soil to the east would have endangered the stability of the Food Mart building and a sewer pipe than parallels the west side of the building. Soil contaminated with gasoline- and oil-range hydrocarbons may be present beneath the Food Mart building at depths ranging from about 9 feet to at least 14 feet below ground surface, based on the chemical analytical results. Gasoline- and oil-range contamination also remains beneath the Albertsons property, at a depth of 16 feet below ground surface, in the location of sample HW-12.

Although diesel-range hydrocarbons were detected, it appears that most of the contamination detected in the excavation samples is within the gasoline- and oil-ranges, based on our interpretation of the chromatograms provided with the analytical reports. Diesel-range concentrations detected in the samples appear to be related to overlap of relatively high concentrations of gasoline- and oil-range contaminants. Chromatograms are presented in Appendix B.

OIL/WATER COLLECTION SUMP INSTALLATION

An oil/water collection sump was installed by Glacier on December 29, 1992 in the excavation at the approximate location shown in Figure 2. The design of the sump was agreed upon by GeoEngineers and Mr. Scott Sloan of Time Oil. The sump was designed to capture contaminated perched ground water or product which might continue to migrate from the east wall of the remedial excavation toward the Albertsons property. The sump extends from near the ground surface to a depth of approximately 15.5 feet below grade. The sump consists of 10-inch-diameter CMP (corrugated metal pipe) that is welded closed on the lower end and slotted from approximately 8 feet to 11 feet below grade. A 40-mil HDPE (high-density polyethylene) liner measuring approximately 25 feet square was placed surrounding the sump near the base of the slotted interval of the CMP. The contact between the liner and the sump was sealed with hydrated bentonite. Approximately 3 feet of pea gravel was used to fill around the slotted section of the sump, above the liner. Imported sand and gravel fill was placed from the top of the pea gravel to the pavement subgrade level. The liner and pea gravel were placed in such a manner that oil or water moving from beneath the food mart building at depths less than 11 feet would be captured in the sump. Details of the sump construction are shown in Figure 3.

The sump was checked on January 12, 1993 for the presence of water and/or free (floating) product using an interface probe. Free product was not detected, but about 4 feet of water was present in the sump. Glacier removed approximately 110 gallons of water from the sump on January 15, 1993 and transported the water to Coastal Tank Company's facility in Seattle for treatment and disposal.

BACKFILLING ACTIVITIES

GeoEngineers conducted laboratory testing by Modified ASTM D1557-78 (reapproved: 1990) to determine the MDD (maximum dry density) of imported soil prior to its use as fill in the excavation. A GeoEngineers representative monitored the backfill placement using a nuclear density gauge. A summary of in-place density tests conducted during backfilling is presented in Table 3. The backfill was placed in 12- to 18-inch-thick uncompacted lifts. Each lift was compacted with a backhoe-mounted vibratory plate. Fill placed from the base of the excavation to within 5 feet of the ground surface was compacted to at least 90 percent of the MDD. Fill placed within the upper 5 feet was compacted to at least 95 percent of the MDD. The upper 3 inches of the backfill consisted of 5/8-inch-minus crushed rock. The remedial excavation area was then paved with 2 inches of asphalt concrete on December 31, 1992.

SUBSURFACE EXPLORATIONS

GENERAL

Nine borings (B-1 through B-9) were drilled on site and off site by Holt Testing between February 1 and 4, 1993 at the approximate locations shown in Figure 2. The subsurface soil conditions encountered during drilling are discussed in the "Subsurface Conditions" section of

this report. Vapor probes were installed in two of the borings (VP-1 and VP-7). The other borings were backfilled with bentonite chips and the pavement was patched with concrete after sampling was completed. Details of the field exploration program, the boring logs and vapor probe construction details are presented in Appendix A.

Borings B-2, B-7 and B-8 were drilled after the VES test to evaluate the potential for contamination remaining in the backfill and underlying shallow native soil in the vicinity of the former gasoline USTs. Borings B-1 and B-4 through B-6 were drilled to evaluate the lateral and vertical extent of soil contamination south, southwest and southeast of the heating oil and waste oil UST excavation. Boring B-3 was drilled to confirm that contaminated soil had been successfully removed from the base of the south end of the remedial excavation. Boring B-9 was drilled to assess whether the new gasoline USTs, located in the northeast portion of the site, were contributing to the soil contamination encountered in the heating oil and waste oil UST excavation and borings B-1 and B-7.

Water used for decontaminating drilling and sampling equipment was stored temporarily on site in 55-gallon drums. Glacier transported approximately 380 gallons of water to Coastal Tank Company's facility in Tacoma and disposed of the drums on February 16, 1993. Soil cuttings generated during drilling were stored temporarily on site in drums prior to removal and disposal. Disposal of soil cuttings is discussed in a later section of this report.

SOIL HYDRAULIC CONDUCTIVITY AND AIR CONDUCTIVITY

Hydraulic conductivity and air conductivity were evaluated using grain-size analysis data from the soil sample obtained from boring B-4 at 29 feet below grade. The grain-size distribution curve is included in Figure A-12. The soil tested consisted of fine to medium sand with silt. The vertical hydraulic conductivity of the soil was estimated to be approximately 8.3×10^{-3} cm/sec (centimeters per second) using the Hazen method. The air conductivity of this soil was estimated to be approximately 7.8×10^{-4} cm/sec. The Hazen method and the relationship between hydraulic conductivity and air conductivity are described in Appendix A.

CHEMICAL ANALYSIS

The possible presence of petroleum-related contamination in the borings was evaluated by field screening and chemical analysis of soil samples. Soil samples were selected for analysis based on field screening results. Generally, samples from the most contaminated zones within each boring, based on field screening, were chosen for analysis, as well as samples from below the zone of contamination. Samples were analyzed using one or more of the following methods: Ecology Methods WTPH-HCID, WTPH-G, WTPH-D, EPA Method 8020 for BETX, and EPA Method 6010 for total lead. Chemical analytical results for soil samples from the borings are summarized in Table 4. Laboratory reports are contained in Appendix B.

Gasoline-range hydrocarbons and BETX either were not detected or were detected at concentrations less than the respective MTCA Method A cleanup levels in the soil samples obtained from the vicinity of the former gasoline UST excavation, (borings B-2, B-7 and B-8). Gasoline-range hydrocarbons were detected, however, in sample B-7-7, obtained from 34.5 feet below ground surface.

Gasoline- and oil-range hydrocarbons and xylenes were detected at concentrations greater than the respective MTCA Method A cleanup levels in soil samples B-1-12 and B-1-21 from boring B-1, obtained from 31 and 46 feet below ground surface, respectively. Although diesel-range hydrocarbons were detected in these samples by WTPH-D, it appears that most of the contamination detected in the two samples is concentrated within the gasoline-range. The chromatograms for these samples exhibit distinctly different patterns within the gasoline- and oil-ranges. Diesel-range concentrations detected in the two samples appear to be related to overlap from gasoline- and oil-range hydrocarbons, not from the actual presence of diesel, based on our review of the chromatograms for these samples. The gasoline-range contamination in these samples appears either to be heavily degraded gasoline or a Stoddard-type solvent based on our review of the chromatograms for these samples.

Petroleum-related hydrocarbons either were not detected or were detected at concentrations less than the respective MTCA Method A cleanup levels in soil samples obtained from borings B-3 through B-6 and B-9.

SOIL DISPOSAL

Soil was segregated during excavation activities based on the apparent degree of contamination as evidenced by field screening. Soil was stockpiled on plastic sheeting and was covered and secured by plastic sheeting and straw bales. Discrete or composite soil samples were obtained from the soil as it was being excavated or from the stockpiles. Our field procedures are described in Appendix A. Soil sampling was performed to evaluate end use or disposal options for the soil stockpiles. The results of field screening and chemical analytical data for soil samples obtained from the stockpiles are summarized in Table 5. The laboratory reports, chain-of-custody records and our review of the laboratory QC (quality control) documentation are included in Appendix B.

Approximately 200 cubic yards (stockpile volume) of overburden soil were removed from the excavation. Five soil samples (CSP-1 through CSP-5) were obtained from the overburden stockpile for chemical analysis. Diesel- and oil-range hydrocarbons were detected in samples CS-3 and CS-2, at concentrations exceeding the respective MTCA cleanup levels.

Approximately 720 cubic yards (stockpile volume) of probable contaminated soil were removed from the excavation. Four soil samples (DSP-1 through DSP-4) were obtained from the stockpile for chemical analysis for disposal characterization. Diesel- and oil-range hydrocarbons and TPH were detected in samples from this stockpile at concentrations exceeding the respective MTCA cleanup levels.

On behalf of Time Oil, GeoEngineers obtained clearance from TPCHD (Tacoma-Pierce County Health Department) for disposal of approximately 920 cubic yards (stockpile volume) of contaminated soil (overburden and contaminated soil stockpiles) at the Woodworth & Company facility in Tacoma, Washington, for use in its asphalt concrete production process. The soil was transported to the Woodworth facility between December 28 and December 30, 1992 by Glacier.

Soil cuttings generated during our subsurface exploration study were temporarily stored on site in twenty-six 55-gallon drums. GeoEngineers obtained authorization from TPCHD on February 4, 1993 to transport the soil cuttings to the Woodworth facility. Approximately 7 cubic yards of soil cuttings were transported to the Woodworth facility on February 16, 1993 by Glacier. Copies of the disposal request letter, waste disposal authorizations from TPCHD, the landfill certificate and an example bill of lading are provided in Appendix C.

CONCLUSIONS

The conclusions presented below are based on field observations and measurements made of the site, laboratory results, data provided to us by Time Oil and our experience in conducting remedial investigations.

- Regional ground water in the area of the site occurs at depths between 60 and 100 feet below ground surface based on our review of ground water well logs. Perched water encountered in the remedial excavation appears to be from surface water runoff entering the former excavation backfill.
- Concentrations of combustible vapors measured in the exhaust stack during the vapor extraction test of the former gasoline UST area decreased to half of the initial concentrations over a period of approximately one month.
- Gasoline and BETX contamination detected in soil samples collected by Time Oil in the area of boring B-3 appears to have been mitigated during the vent test.
- ✓ • Approximately 920 cubic yards of petroleum-contaminated soil were removed from the area of the former waste oil and heating oil tanks. This soil was transported to the Woodworth & Company Facility in Tacoma for incorporation into asphaltic concrete.
- Residual petroleum-contaminated soil remains beneath the western portion of the Food Mart building and to the south and east of the adjacent remedial excavation. The petroleum in the soil was quantified as oil-range and gasoline-range hydrocarbons. Evaluation of the chromatogram for the gasoline-range hydrocarbons indicates that the petroleum is probably either degraded gasoline or a Stoddard-type solvent. This type of solvent is often used to clean automobile parts during servicing.
- Gasoline-range hydrocarbons detected in soil samples from B-1 and B-7 appear to be either degraded gasoline or a Stoddard-type solvent. The hydrocarbons appear to occur in a unit of dense, fine to medium sand at depths between 26 feet and 46 feet below ground surface.
- Diesel-range hydrocarbons reported in soil samples from B-1 are attributed to overlap from the gasoline-range portion of the chromatogram. Hydrocarbons related to a release of diesel were not detected at this site.

- The result of the grain-size analysis, performed on sample of fine to medium sand that contains the major portion of the residual hydrocarbons, indicates that the sand is moderately permeable to air. Vapor extraction may be a feasible option for in-situ removal of the gasoline-range contaminants.
- In-situ remediation of oil-range hydrocarbons is not a practical option for this site using current technologies.

RECOMMENDATIONS

Based on the results of our study, we offer the following recommendations.

- Evaluate the use of vapor extraction for remediation of gasoline-range hydrocarbons. Conduct an in-situ air permeability test utilizing VP-1 and VP-7 to evaluate the effective radius of influence for these extraction wells. We recommend that this be completed before conducting additional subsurface explorations.
- Evaluate the possible use of Ecology's Petroleum-Contaminated Soils Rating Matrix at this site, particularly as this may relate to oil-range hydrocarbons that are not amenable to in-situ treatment.
- Investigate actual depth to ground water beneath the site and obtain a sample or samples of the ground water to verify that it has not been affected by petroleum-related contamination from this site.

LIMITATIONS

This report has been prepared for use by Time Oil and may be made available to the adjacent property owner and to regulatory agencies. This report is not intended for use by others and the information contained herein is not applicable to other sites.

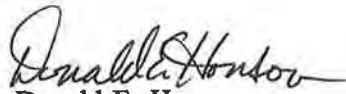
Our interpretations of soil conditions during exploration activities are based on field observations and chemical analytical data. It is always possible that contamination may exist in portions of the site that were not explored or analyzed.



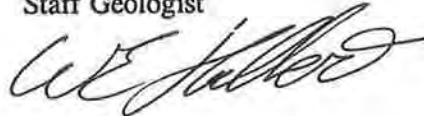
Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted practices in this area at the time this report was prepared. No other conditions, express or implied, should be understood.

Respectfully submitted,

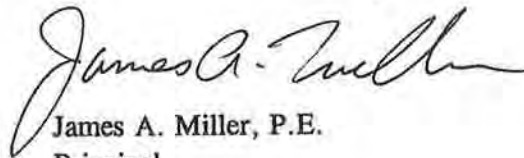
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TABLE 1
SUMMARY OF VES TEST RESULTS
FORMER GASOLINE UST EXCAVATION

Date	System Vacuum (inches of water column)	Flow ¹ (cfm)	Combustible Vapor Concentrations ² (ppm)	Emission Rate ³ (lbs/day)
12/08/92	22	60.0	150	8.7
12/09/92	22	67.4	65	4.2
12/14/92	22	54.5	60	3.1
12/15/92	22	58.9	50	2.8
12/16/92	21	62.2	70	4.2
12/17/92	22	52.4	45	2.3
12/22/92	24	58.9	35	2.0
12/28/92	25	55.9	50	2.7
12/31/92	23	60.0	15	0.87
01/12/93	23	60.0	65	3.8

Notes:

¹Measured with an Omega HHF-40 airflow meter.

²Measured with a Bacharach TLV Sniffer calibrated to hexane. The TLV is designed to quantify combustible gas concentrations in the range between 100 and 10,000 ppm. The Sniffer is less accurate in determining concentrations less than 100 ppm.

³Calculated using the flow, combustible vapor concentrations and the mass of the assumed contaminant (gasoline).

cfm = cubic feet per minute

lbs/day = pounds per cubic feet

ppm = parts per million

TABLE 2
SUMMARY OF SOIL FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS¹
HEATING OIL AND WASTE OIL UST EXCAVATION

Sample Number	Date Sampled	Sample Location ²	Depth of Sample (feet)	Field Screening Results ³		Volatile Aromatic Hydrocarbons ⁴ (EPA Method 8020) (mg/kg)				Gasoline-range Hydrocarbons (Ecology Method WTPH-G) (mg/kg)	Diesel- and Oil-range Hydrocarbons (Ecology Method WTPH-D [extended]) (mg/kg)	
				Headspace Vapors (ppm)	Sheen	B	E	T	X		Diesel-range	Oil-range
HW-1	12/08/92	Base	12	<100	SS	-	-	-	-	-	<29	150
HW-2	12/08/92	North wall	10	<100	NS	-	-	-	-	-	<28	<110
HW-3 ⁵	12/08/92	Base	14	<100	SS	<0.029	0.11	<0.029	1.6	68	280	2,400
HW-4 ⁵	12/08/92	East wall	10	-	HS	-	-	-	-	-	1,200	6,600
HW-5	12/14/92	Base	16	-	SS	-	-	-	-	-	<27	<110
HW-6	12/14/92	West wall	14	-	SS	-	-	-	-	-	<27	<110
HW-7	12/16/92	North wall	14	<100	SS	-	-	-	-	-	<27	<110
HW-8	12/17/92	Base	19	<100	SS	-	-	-	-	-	<27	<110
HW-9	12/17/92	Base	23	<100	SS	-	-	-	-	-	<27	<110
HW-10 ⁶	12/18/92	Base	28	<100	SS	-	-	-	-	-	-	-
HW-11	12/18/92	Base	16	<100	SS	-	-	-	-	<6	<28	<110
HW-12 ⁷	12/18/92	South wall	16	800	HS	<0.027	0.64	0.076	3.1	2,700	410	640
HW-13	12/18/92	West wall	25	110	MS	-	-	-	-	32	34	<110
HW-14 ⁷	12/29/92	East wall	10	320	HS	<0.027	0.18	<0.027	1.3	1,300	470	1,400
MTCA (Model Toxics Control Act) Method A Soil Cleanup Levels						0.5	20.0	40.0	20.0	100.0	200.0	200.0

Notes:

- ¹Laboratory reports are presented in Appendix B. Chemical analyses performed by ATI (Analytical Technologies, Inc.) of Renton, Washington.
- ²Approximate sample locations are shown in Figure 2.
- ³Field screening procedures are described in Appendix A. NS = no sheen, SS = slight sheen, MS = moderate sheen, HS = heavy sheen.
- ⁴B = benzene, E = ethylbenzene, T = toluene, X = xylenes
- ⁵Hydrocarbons detected in this sample were primarily in the heavy oil-range based on our interpretation of the sample chromatogram.
- ⁶Sample analyzed for hydrocarbon identification by Ecology Method WTPH-HCID. Gasoline-, diesel-, and oil-range hydrocarbons were not detected.
- ⁷Hydrocarbons detected in this sample were primarily in the gasoline- and heavy oil-ranges based on our interpretation of the sample chromatogram.

ppm = parts per million

mg/kg = milligrams per kilogram

"-" = not tested

Shaded areas indicate concentrations that exceed MTCA Method A soil cleanup levels.

TABLE 3
SUMMARY OF IN-PLACE COMPACTION TESTS
REMEDIAL EXCAVATION BACKFILL

Test Date	General Location	Feet Below Grade	Field Moisture (%)	Dry Density ¹ (pounds/cubic foot)		% Compaction	
				Field	Maximum	Field	Specification
12/28/92	Center	15.0	6.0	138.0	137	100.7	90
12/28/92	Center	14.0	5.5	134.9	137	98.5	90
12/29/92	Center	12.0	4.7	136.5	137	98.6	90
12/29/92	Center	10.0	6.2	132.7	137	96.9	90
12/29/92	Center	7.5	7.5	137.5	137	100.4	90
12/29/92	North	5.5	6.6	129.5	137	94.5	90
12/29/92	South end (ramp)	5.5	6.1	135.0	137	98.5	90
12/29/92	North	6.0	5.7	129.6	137	94.6	90
12/29/92	North	6.0	6.2	136.9	137	100.0	90
12/29/92	South (ramp)	4.0	5.9	136.6	137	99.7	95
12/30/92	South (ramp)	4.0	6.9	134.9	137	98.5	95
12/30/92	North/center	5.0	6.6	136.8	137	99.9	90
12/30/92	North	3.0	7.2	136.0	137	98.5	95
12/30/92	North	2.5	6.8	131.7	137	96.2	95
12/30/92	Center	2.5	6.1	134.7	137	98.3	95
12/30/92	South (ramp)	2.5	7.0	136.8	137	99.5	95
12/30/92	North	1.0	7.9	130.3	137	95.1	95
12/30/92 ²	South	1.0	6.4	127.2	137	92.9	95
12/30/92 ²	South	1.0	8.7	128.5	137	93.8	95
12/30/92	South	1.0	6.4	136.5	137	99.6	95
12/30/92	South	0.25	11.8	130.2	137	95.0	95
12/30/92	Center	0.25	8.5	138.8	137	101.3	95
12/30/92	North	0.25	6.1	135.8	137	99.1	95

Notes:

¹Maximum dry density determined by GeoEngineers in accordance with ASTM D-1557 test procedure

²Retested after additional compactive effort.

Tests were performed by a GeoEngineers representative using a nuclear density gauge.

TABLE 4 (Page 1 of 2)
SUMMARY OF SOIL FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS¹
SOIL BORINGS

Sample Number ²	Date Sampled	Depth of Sample (feet)	Field Screening Results ³		Volatile Aromatic Hydrocarbons ⁴ (mg/kg)					WTPH-HCID ⁵			Gasoline-range Hydrocarbons ⁶ (mg/kg)	Diesel-range Hydrocarbons ⁷ (mg/kg)	Oil-range Hydrocarbons ⁸ (mg/kg)	Total Lead ⁹ (mg/kg)
			Headspace Vapors (ppm)	Sheen	B	E	T	X	Gasoline	Diesel	Heavy Oil					
B-1-7	02/01/93	23.5	<100	NS	<0.027	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	<11	<43	-
B-1-12	02/01/93	31.0	500	HS	<1.4	3.5	2.1	30	Detected	Detected	Detected	-	13,000	1,100	720	-
B-1-18	02/01/93	46.0	900	MS	<1.3	1.5	<1.3	23	Detected	Detected	Detected	-	7,700	1,100	580	-
B-1-21	02/01/93	53.0	<100	SS	<0.026	<0.026	<0.026	<0.026	<0.026	-	-	-	<5	<11	<42	-
B-2-3	02/01/93	11.5	<100	SS	<0.027	<0.027	0.072	0.076	0.076	-	-	-	6	-	-	-
B-3-3	02/02/93	18.5	<100	SS	<0.027	<0.027	0.052	0.033	0.033	-	-	-	<5	<11	<44	-
B-3-5	02/02/93	29.0	<100	SS	<0.027	<0.027	0.037	0.033	0.033	-	-	-	-	<11	<43	-
B-4-7	02/02/93	34.0	<100	NS	<0.027	<0.027	<0.027	<0.027	<0.027	-	-	-	13	<11	<43	-
B-5-7	02/02/93	34.0	<100	SS	<0.027	<0.027	<0.027	<0.027	<0.027	-	-	-	11	<11	<43	-
B-6-6	02/03/93	29.0	<100	SS	<0.027	<0.027	<0.027	<0.027	<0.027	-	-	-	8	<11	<43	-
B-7-2	02/03/93	9.5	<100	SS	<0.027	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	-	-	2.0
B-7-3	02/03/93	14.5	<100	SS	<0.027	<0.027	0.032	0.039	0.039	-	-	-	15	-	-	-
B-7-7	02/03/93	34.5	1,000	HS	0.034	0.69	1.1	5.1	5.1	-	-	-	120	<11	<42	-
B-7-9	02/03/93	44.5	<100	SS	<0.026	<0.026	<0.026	<0.026	<0.026	-	-	-	<5	<11	<42	-
B-8-2	02/04/93	9.0	<100	SS	<0.027	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	-	-	14
B-8-4	02/04/93	13.5	<100	SS	<0.027	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	<11	<44	3.5
B-9-6	02/04/93	29.0	<100	SS	<0.026	<0.026	<0.026	<0.026	<0.026	-	-	-	<5	<11	<42	-
MTCA ¹⁰ Method A Soil Cleanup Levels																
					0.50	20	40	20	20				100	200	200	250.0

Notes appear on page 2 of 2.

TABLE 4 (Page 2 of 2)

Notes:

¹ Chemical analyses conducted by ATI (Analytical Technologies, Inc.) of Renton, Washington. Laboratory reports, sample chromatograms and our lab QC review are presented in Appendix B.

² Approximate boring locations are shown on Figure 2.

³ Field screening procedures are described in Appendix A. NS = no sheen, SS = slight sheen, MS = moderate sheen, HS = heavy sheen.

⁴ B = benzene, E = ethylbenzene, T = toluene, X = total xylenes, by EPA Method 8020.

⁵ WTPH-HCID = Washington's total petroleum hydrocarbons - hydrocarbon identification.

⁶ Gasoline-range hydrocarbons analyzed by Ecology Method WTPH-G.

⁷ Diesel-range hydrocarbons analyzed by Ecology Method WTPH-D.

⁸ Oil-range hydrocarbons analyzed by Ecology Method WTPH-D (extended range).

⁹ Total lead by EPA Method 6010.

¹⁰ Model Toxics Control Act

ppm = parts per million; mg/kg = milligrams per kilogram, * = not tested

Shaded areas indicate concentrations that exceed the MTCA Method A soil cleanup levels.

N/A = not applicable

TABLE 5
SUMMARY OF SOIL FIELD SCREENING RESULTS AND CHEMICAL ANALYTICAL RESULTS¹
SOIL STOCKPILES

Sample Number	Date Sampled	Field Screening Results ²		Diesel- and Oil-range Hydrocarbons ³ (mg/kg)		Total Petroleum Hydrocarbons ⁴ (mg/kg)	Volatile Organic Compounds ⁵ (mg/kg)	Semi-volatile Organic Compounds ⁶ (mg/kg)	Metals ⁷ (mg/kg)							
		Headspace Vapors	Sheen (ppm)	Diesel-range	Oil-range				As	Ba	Cd	Cr	Cu	Pb	Ni	Zn
Overburden Soil Stockpile																
CSP-1	12/09/92	<100	NS	<30	<120	-	-	-	-	-	-	-	-	-	-	
CSP-2	12/09/92	<100	SS	55	470	-	-	-	-	-	-	-	-	-	-	
CSP-3	12/15/92	<100	SS	260	<110	-	-	-	-	-	-	-	-	-	-	
CSP-4	12/15/92	<100	SS	100	<110	-	-	-	-	-	-	-	-	-	-	
CSP-5	12/16/92	<100	SS	190	120	-	-	-	-	-	-	-	-	-	-	
Diesel- and Oil-contaminated Soil Stockpile																
DSP-1	12/08/92	<100	HS	220	1,700	-	-	-	-	-	-	-	-	-	-	
DSP-2	12/08/92	-	HS	1,300	8,100	-	-	-	-	-	-	-	-	-	-	
DSP-3	12/09/92	1,100	HS	5,900	37,000	-	-	-	-	-	-	-	-	-	-	
DSP-4	12/14/92	-	HS	660	1,600	-	-	-	-	-	-	-	-	-	-	
DSP-5 ⁸	12/15/92	400	HS	-	-	6,500	xylenes 1.5	naphthalene 0.54 bis(2-ethylhexyl)phthalate 0.71 2-methylnaphthalene 1.1 phenanthrene 0.19 pyrene 0.30	1.5	42	0.35	19	13	17	28	
DSP-6 ⁸	12/15/92	240	HS	-	-	860	xylenes 0.94	pyrene 0.040 bis(2-ethylhexyl)phthalate 0.20	2.3	48	0.34	17	15	4.7	28	
DSP-7 ⁸	12/15/92	140	HS	-	-	4,400	xylenes 0.58	pyrene 0.24 bis(2-ethylhexyl)phthalate 0.52	1.4	55	0.40	22	14	13	34	

Notes:

¹Laboratory reports are presented in Appendix B. Chemical analyses performed by ATI (Analytical Technologies, Inc.) of Renton, Washington.

²Field screening procedures are described in Appendix A. NS = no sheen, SS = slight sheen, HS = heavy sheen.

³Diesel- and oil-range hydrocarbons analyzed by Ecology Method WTPH-D (extended range).

⁴Total petroleum hydrocarbons analyzed by Ecology Method WTPH-418.1 modified.

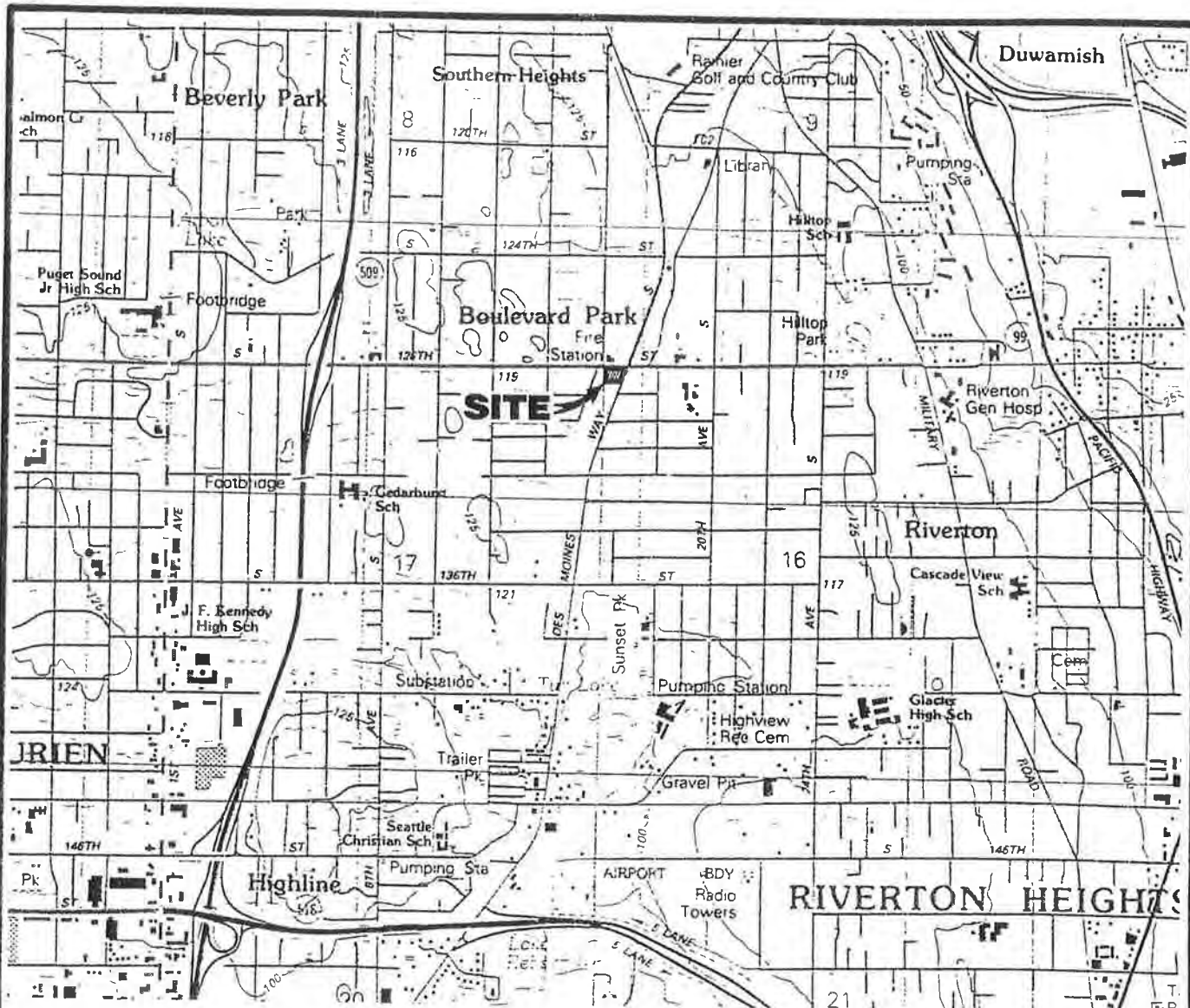
⁵Volatile organic compounds analyzed by EPA Method 8240.

⁶Semivolatile organic compounds analyzed by EPA Method 8270.

⁷Metals analyzed by EPA 8000 and 7000 series methodologies. As = arsenic, Ba = barium, Cd = cadmium, Cr = chromium, Cu = copper, Pb = lead, Ni = nickel, Zn = zinc. Only those metals that were detected are listed.

⁸Analyses required by Tacoma-Pierce County Health Department disposal criteria. Only those compounds that were detected are listed. Sample also analyzed for PCBs (polychlorinated biphenyls) by EPA Method 8080. PCBs were not detected.

ppm = parts per million; mg/kg = milligrams per kilogram; * = not tested
Shaded areas indicate concentrations that exceed MTCA Method A soil cleanup levels.

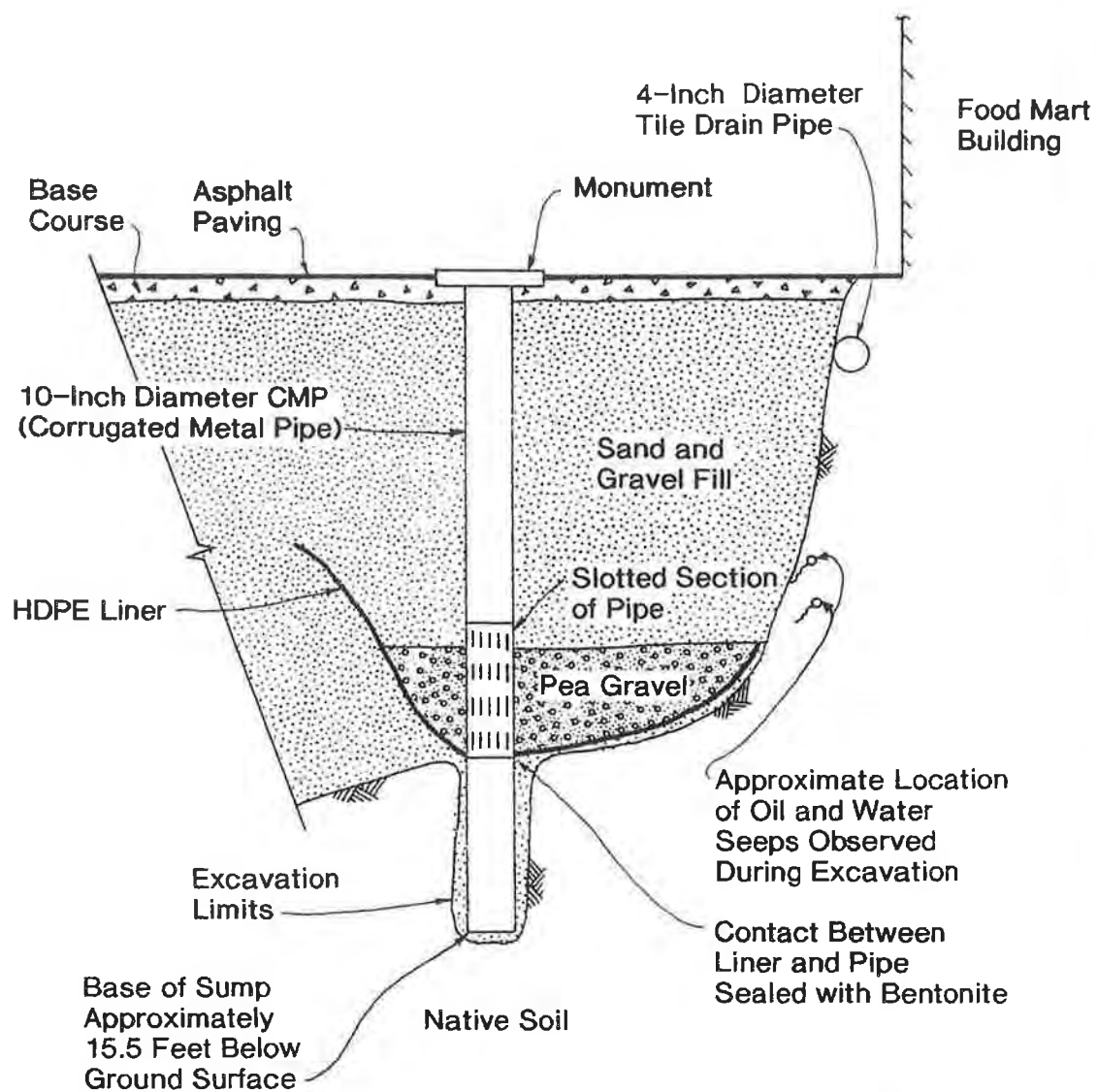


Note: Contours and elevations are in meters.

Reference: USGS 7.5' x 15' topographic-bathymetric quadrangle map "Burien, Washington," dated 1983.

202-1612 HEN 361 195-38

1857 009 RO-4 DELIBDCH 4/14/95(B)



APPENDIX A

APPENDIX A

FIELD METHODS

VES TEST MONITORING

The VES test was monitored approximately twice weekly between December 8, 1992 and January 12, 1993. Concentrations of combustible vapors exhausted from the mound venting system were measured with our Bacharach TLV Sniffer. The readings were obtained from a 13/16-inch borehole installed in the exhaust stack. Exhaust air velocity was measured using an Omega HHF-40 air flow meter. System vacuum was read from a pressure gauge on the VES.

DRILLING AND SOIL SAMPLING PROCEDURES

Subsurface conditions at and near Jackpot Food Mart Property No. 01-284 were explored in part by drilling nine borings (VP-1, B-2 through B-6, VP-7, B-8 and B-9). The borings were drilled at the approximate locations shown in Figure 2 using truck-mounted, hollow-stem auger drilling equipment. The borings were drilled from February 1 to 4, 1993 to depths ranging from approximately 14.0 to 56.5 feet using drilling equipment owned and operated by Holt Testing. The drilling and soil sampling equipment was cleaned with a hot-water pressure washer prior to drilling each boring. The soil sampling equipment was decontaminated before each sampling attempt with a Liquinox solution wash, potable water rinse, and a distilled water rinse.

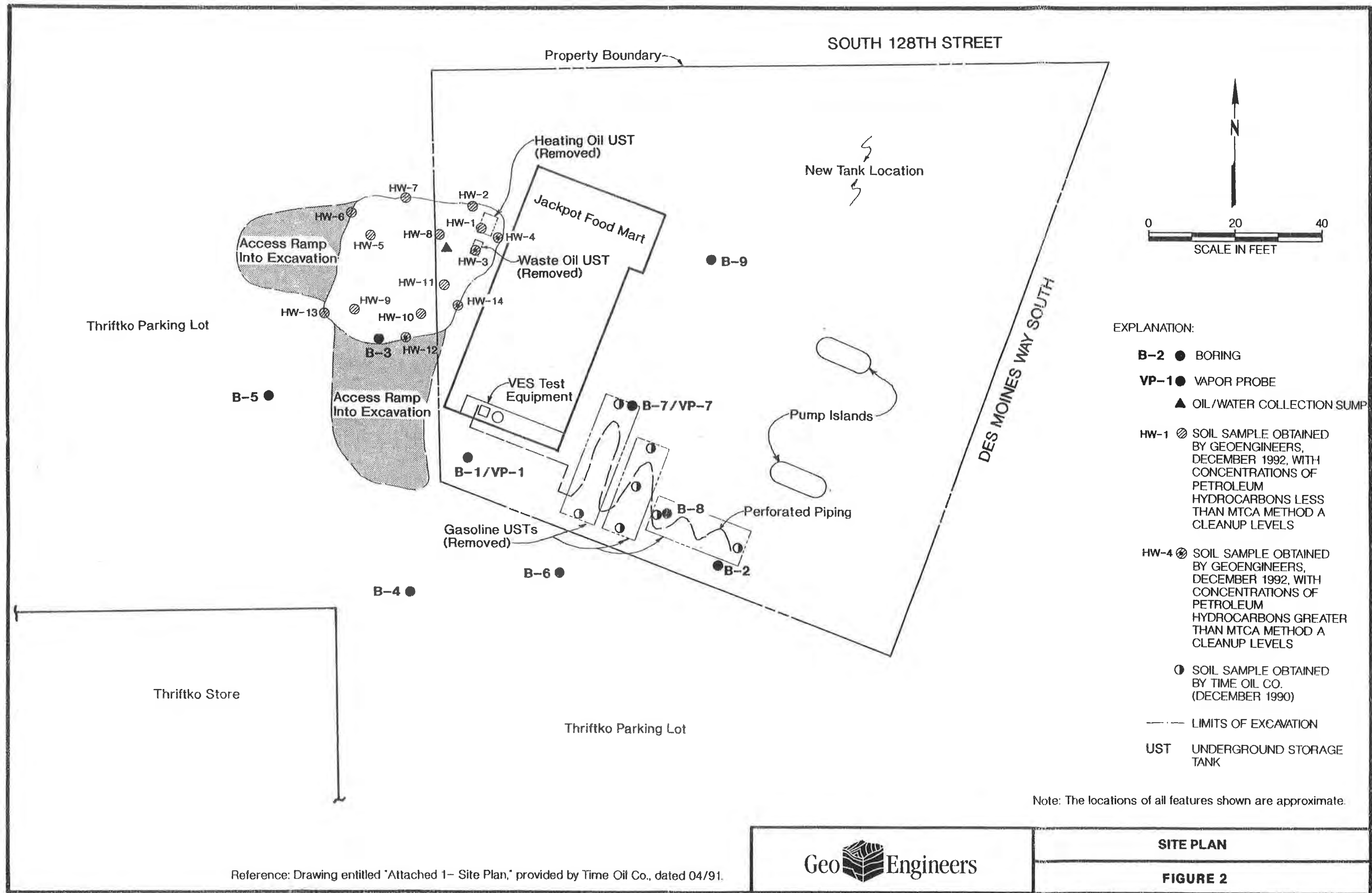
A representative of our staff assisted Time Oil in establishing the boring locations, observed and classified the soils encountered, and prepared a detailed log of each boring. Soils encountered were classified visually in general accordance with ASTM D-2488-90, described in Figure A-1. An explanation of the boring log symbols is presented in Figure A-2. The boring logs are given in Figures A-3 through A-11.

Soil samples were obtained from each boring using a Dames & Moore split-barrel sampler (2.4-inch inside diameter) lined with precleaned stainless steel sleeves. The sampler was driven 18 inches by either a 300-pound or 140-pound weight falling a 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.

Each soil sample was separated into two portions. The first portion was removed from the stainless steel sleeve and placed in a plastic sample bag for field screening. The second portion was left in the sleeve, capped and placed in a cooler with ice.

At least one soil sample was selected from each boring for chemical analysis of petroleum-related compounds. Samples that were tested are denoted in our boring logs with a "CA."

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A steel trowel or stainless steel spoon was used to collect soil samples from the excavation and stockpiles. Samples obtained from the excavation were collected from soil within but not touching the excavator bucket with the trowel or spoon. The trowel or spoon was decontaminated before each sampling attempt with a Liquinox solution wash and a distilled water rinse.

Each sample obtained from the excavation or stockpile was separated into two portions. The first portion was placed in a plastic sample bag for field screening. The second portion was transferred to a laboratory-prepared sample container. The sample containers were filled completely to eliminate headspace, then sealed and placed in a cooler with ice.

All soil samples obtained from borings, excavation or stockpiles which were selected for laboratory testing were held in a refrigerator or a cooler with ice. The samples were kept cool during transport to the testing laboratory. Chain-of-custody procedures were followed.

The soil cuttings generated during drilling were collected in twenty-six 55-gallon drums. The decontamination water generated during drilling was collected in seven 55-gallon drums.

FIELD SCREENING OF SOIL SAMPLES

Soil samples obtained from the borings, excavation and stockpiles were split into two portions. One portion of each sample was retained to be field screened for fuel-related contamination using (1) visual screening, (2) sheen screening, and/or (3) headspace vapor screening using a Bacharach TLV Sniffer calibrated to hexane. Field screening results are used as a general guideline to delineate areas of possible petroleum-related contamination. In addition, field screening results are used to aid in the selection of soil samples for chemical analysis. The results of headspace and/or sheen screening are included in Tables 2, 4 and 5.

Water sheen screening and headspace vapor screening are more sensitive methods that have been effective in detecting contamination at concentrations less than regulatory cleanup guidelines. Water sheen screening involves placing soil in water and observing the water surface for signs of sheen. Sheen classifications are as follows:

- | | |
|---------------------|--|
| No Sheen (NS) | No visible sheen on the water surface. |
| Slight Sheen (SS) | Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly. |
| Moderate Sheen (MS) | Light to heavy sheen, may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface. |
| Heavy Sheen (HS) | Heavy sheen with color/ iridescence; spread is rapid; 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 measures the concentration of combustible vapor in the air removed from the sample headspace. The TLV

Sniffer measures concentrations in ppm (parts per million) 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 sample location-specific. The results vary with temperature, soil type, soil moisture content and type of contaminant.

VAPOR PROBE CONSTRUCTION

Two-inch-diameter Schedule 40 PVC (polyvinyl chloride) pipe was installed in borings B-1/VP-1 and B-7/VP-7 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 into the well casings. Medium sand was placed in the borehole annulus surrounding the slotted portion of the PVC pipe. Vapor probe construction is shown in Figures A-3 and A-9.

GRAIN-SIZE ANALYSIS-HAZEN METHOD

One soil sample from a depth of 29 feet in boring B-4 was submitted for grain-size analysis in GeoEngineers' soils laboratory using ASTM Methods C 136-84a and D4959-89. The grain-size gradation curve for this analysis is shown in Figure A-12. The Hazen method can be used to estimate the hydraulic conductivity of sandy sediments where the effective grain size is between 0.1 and 3 millimeters. The Hazen approximation is as follows:

$$K_w = C(D_{10})^2$$

where: K_w = vertical hydraulic conductivity in centimeters per second

C = dimensionless coefficient for fine sand with silt having a value of approximately 80

D_{10} = effective grain size in centimeters

therefore, $K_w = (80)(0.0102 \text{ cm})^2 = 8.32 \times 10^{-3} \text{ cm/sec.}$

The relationship between hydraulic conductivity and air conductivity in soil is as follows:

$$K_A = \frac{K_w \gamma_A \mu_w}{\mu_A \gamma_w}$$

where: K_A = air conductivity in centimeters per second
 K_w = hydraulic conductivity in centimeters per second
 γ_A = density of air in pounds per cubic foot
 μ_w = dynamic viscosity of water in pounds-second per square foot
 μ_A = dynamic viscosity of air in pounds-second per square foot
 γ_w = density of water in pounds per cubic foot

therefore, $K_A = \frac{(8.32 \times 10^{-3} \text{ cm/sec}) (0.0785 \text{ lb/ft}^3) (2.74 \times 10^{-5} \text{ lb sec/ft}^2)}{(3.68 \times 10^{-7} \text{ lb sec/ft}^2) (62.4 \text{ lb/ft}^3)} = 7.8 \times 10^{-4} \text{ cm/sec}$

Source: EPA 540/2-91/003, Soil Vapor Extraction Technology, February 1991.

OIL/WATER SUMP MONITORING

The oil/water sump was monitored on December 30, 1992 and January 12, 1993 to determine the amount of oil or water collected in the sump. An ORS interface probe was used to measure the depth of water and to determine if oil was present on the water surface.

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		

NOTES:

1. Field classification is based on visual examination of soil in general accordance with ASTM D2488-90.
2. Soil classification using laboratory tests is based on ASTM D2487-90.
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

LABORATORY TESTS:

CA Chemical Analysis
GS Grain Size 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

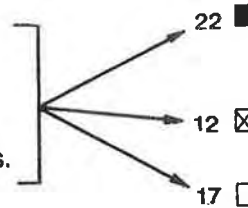
Gradual or Approximate
Location of Change
Between Soil Strata

▽ 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.

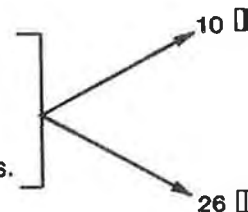


Location of relatively
undisturbed sample

Location of disturbed sample

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.



Location of sample obtained
in general accordance with
Standard Penetration Test
(ASTM D-1586) procedures

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.

VAPOR PROBE NO. B-1/VP-1

WELL SCHEMATIC

Casing Elevation (ft.):

Casing Stickup (ft.):

Vapor
Conc.(ppm)
Sheen

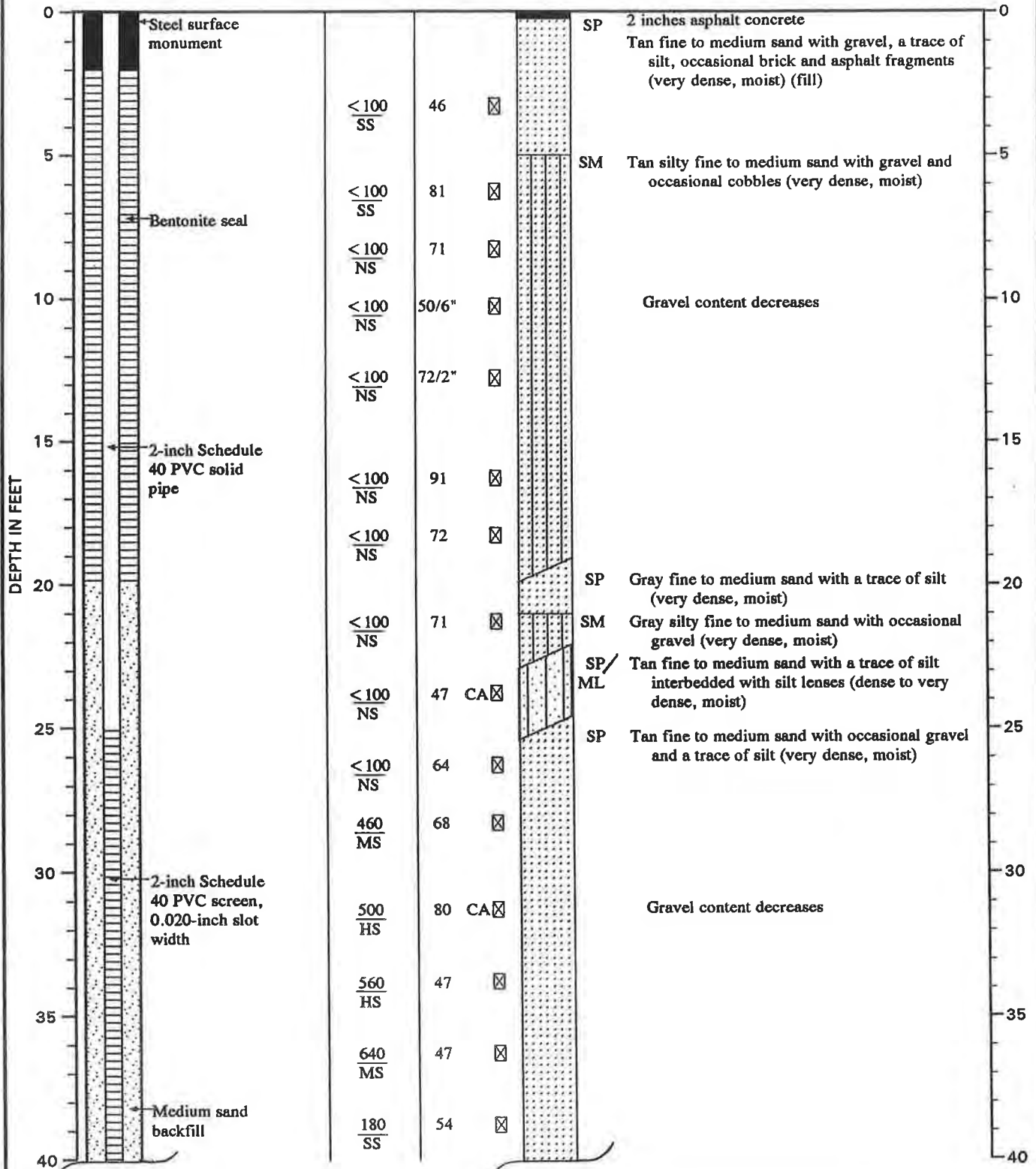
Blow-
Count

Samples

Group
Symbol

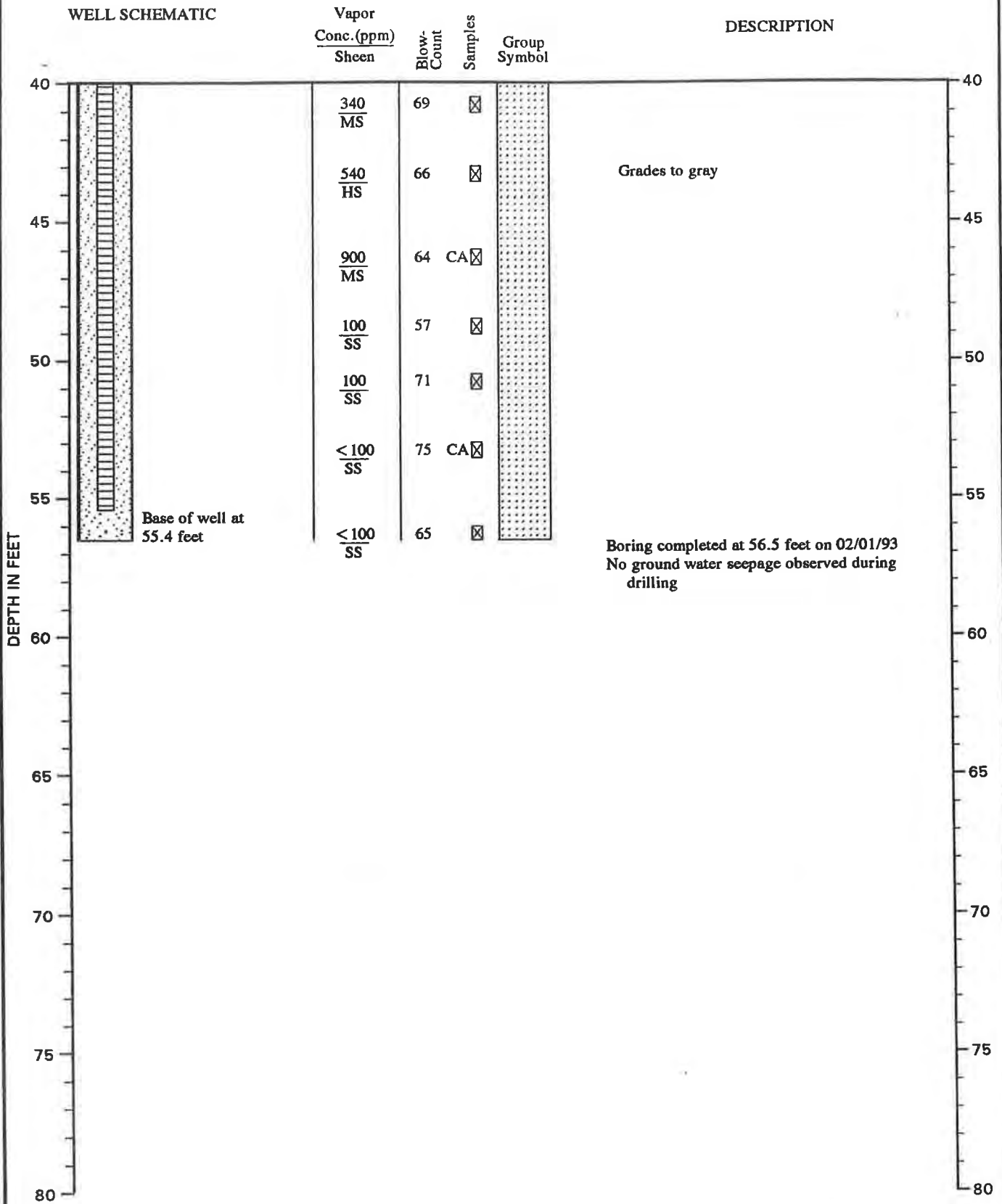
DESCRIPTION

Surface Elevation (ft.):



Note: See Figure A-2 for explanation of symbols

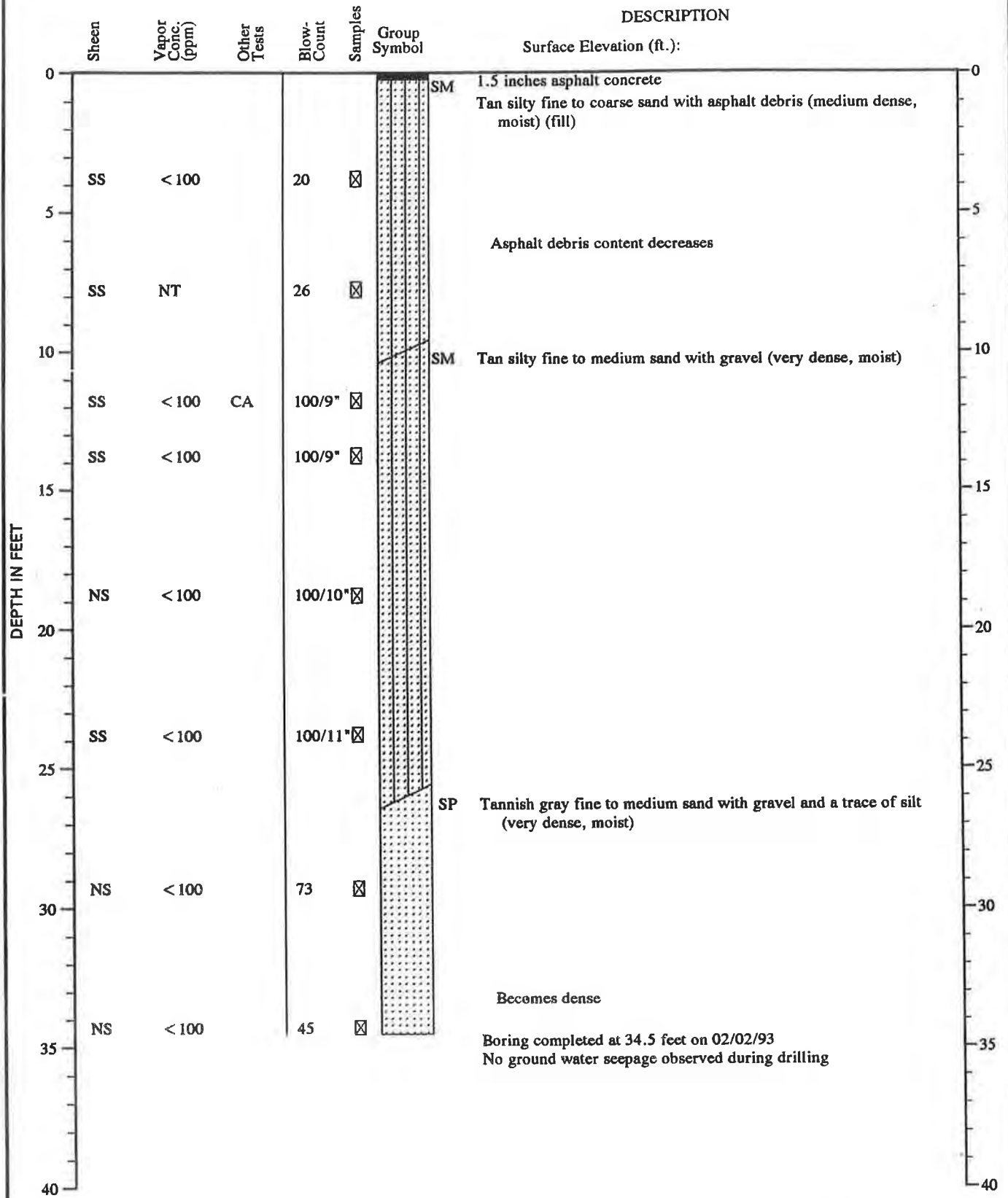
**VAPOR PROBE NO. B-1/VP-1
(Continued)**



Note: See Figure A-2 for explanation of symbols

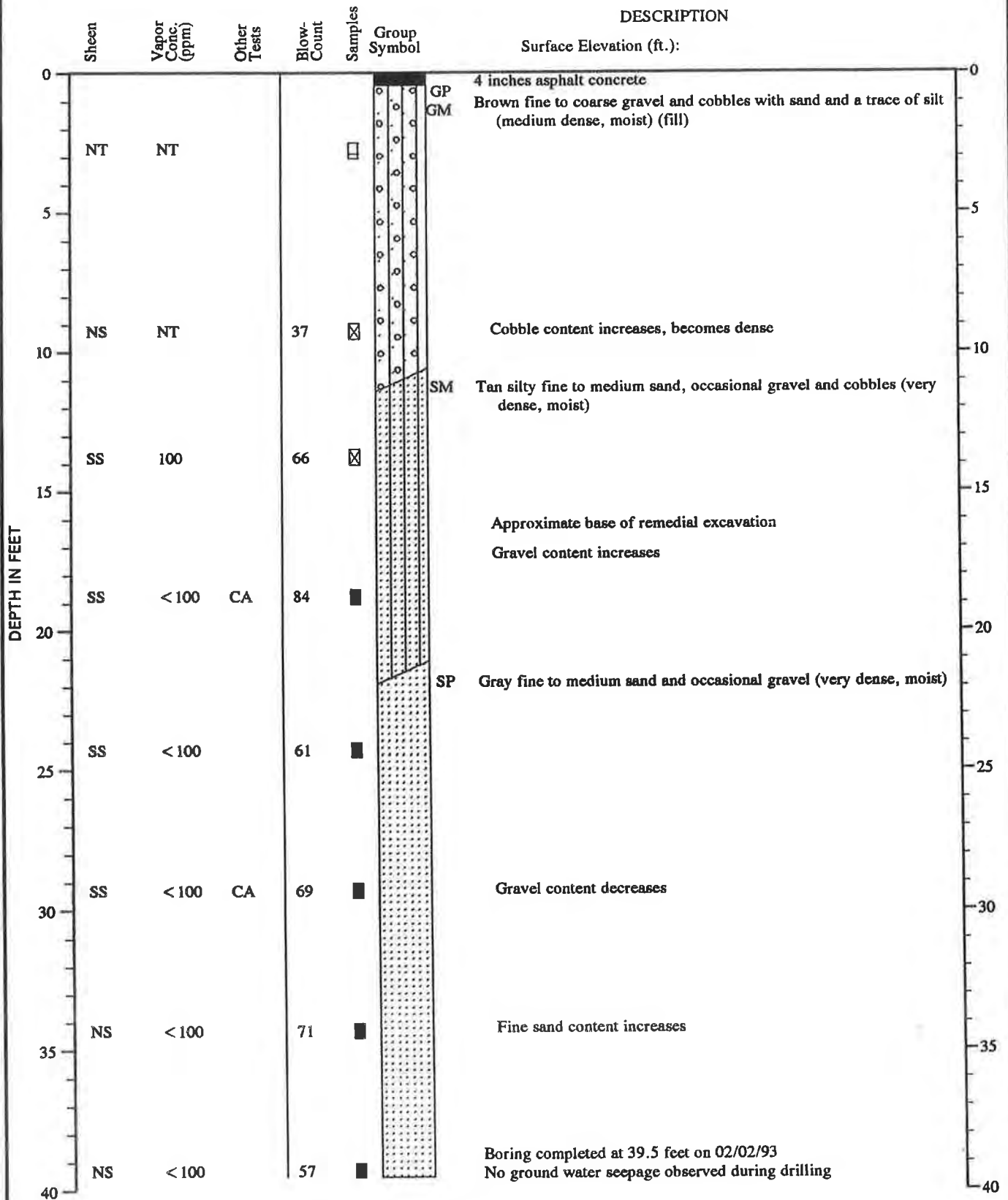
TEST DATA

BORING B-2



TEST DATA

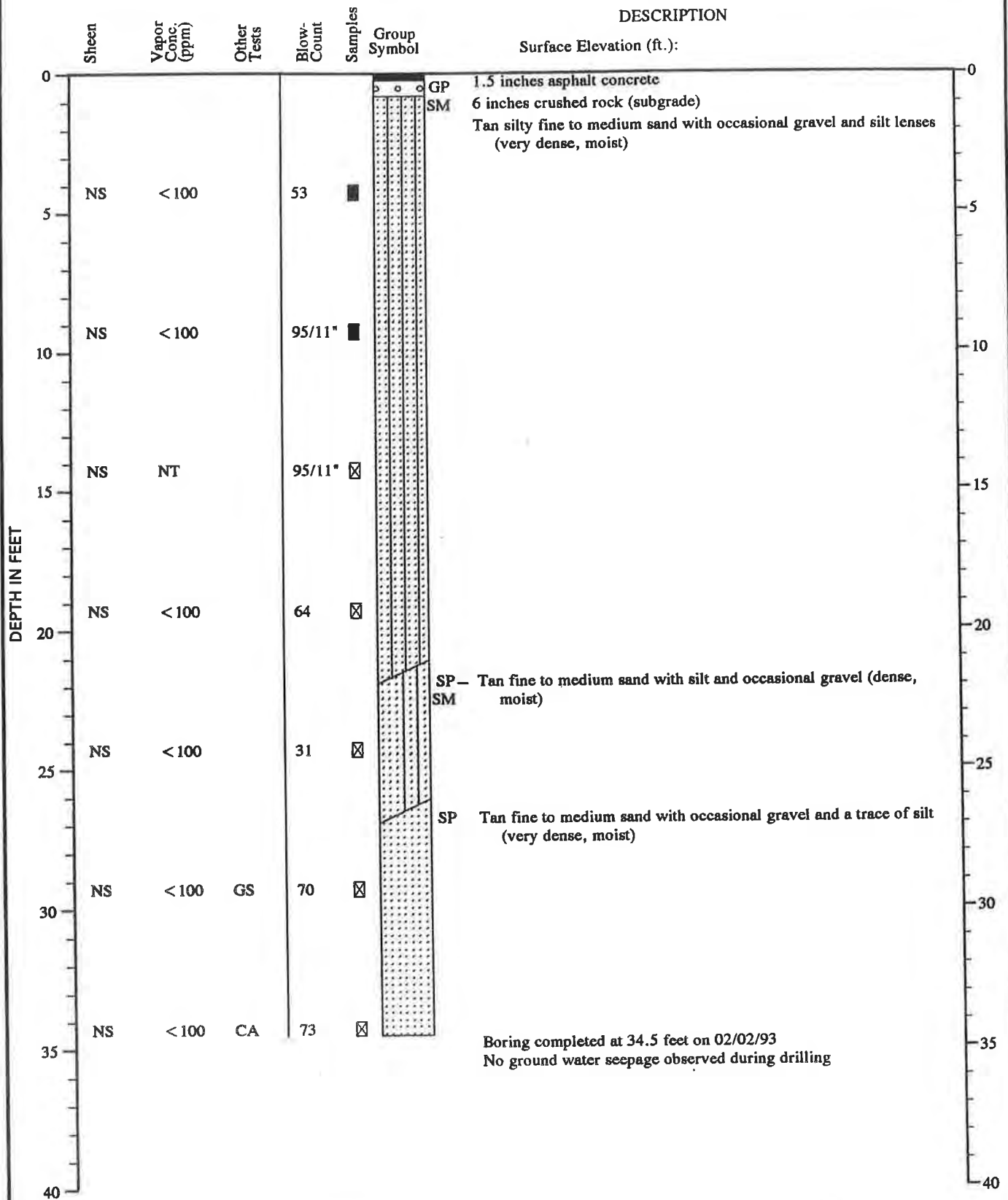
BORING B-3



Note: See Figure A-2 for explanation of symbols

TEST DATA

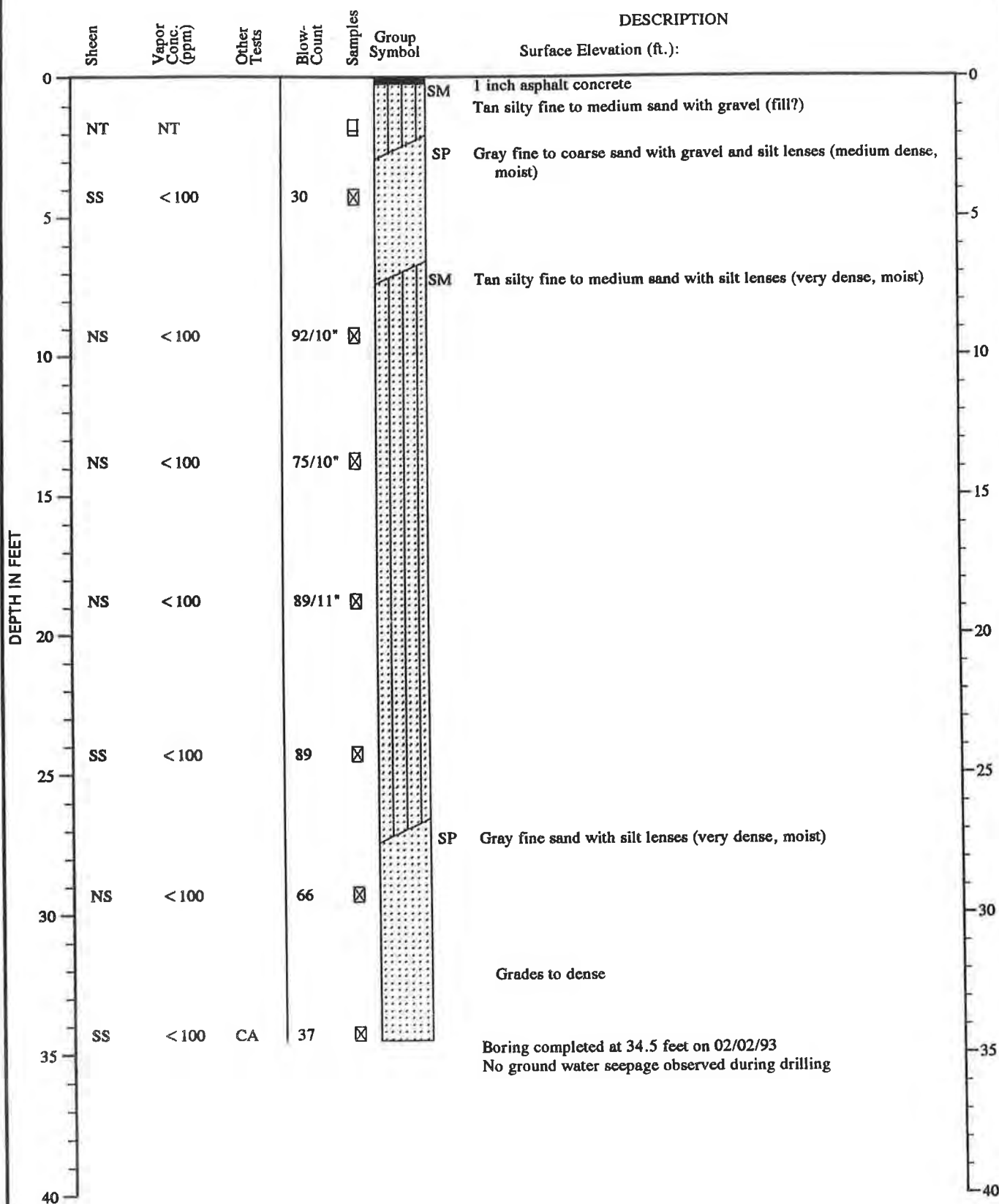
BORING B-4



Note: See Figure A-2 for explanation of symbols

TEST DATA

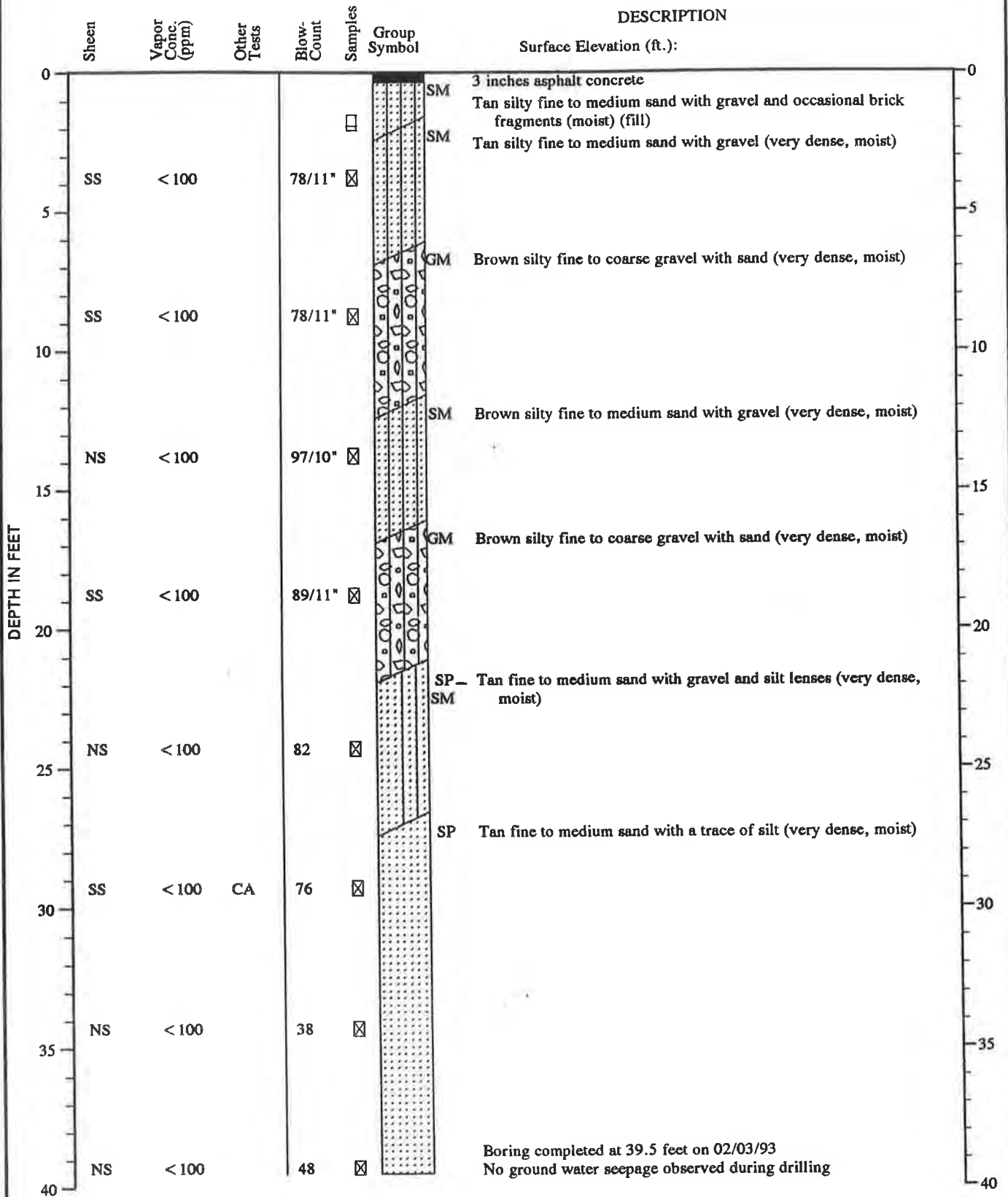
BORING B-5



Note: See Figure A-2 for explanation of symbols

TEST DATA

BORING B-6



Note: See Figure A-2 for explanation of symbols

VAPOR PROBE NO. B-7/VP-7

WELL SCHEMATIC

Casing Elevation (ft.):

Casing Stickup (ft.):

Vapor
Conc.(ppm)
Sheen

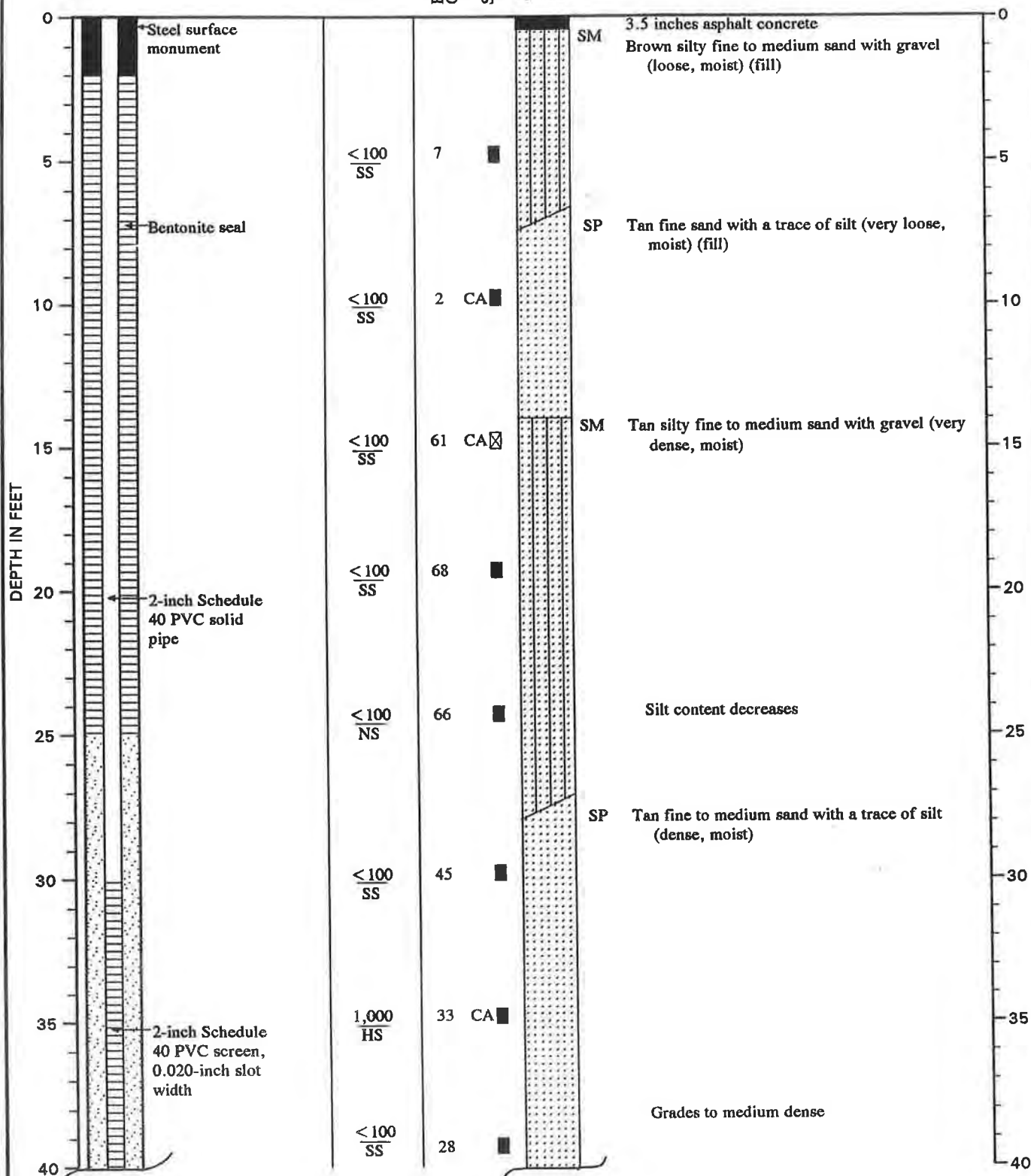
Blow-
Count

Samples

Group
Symbol

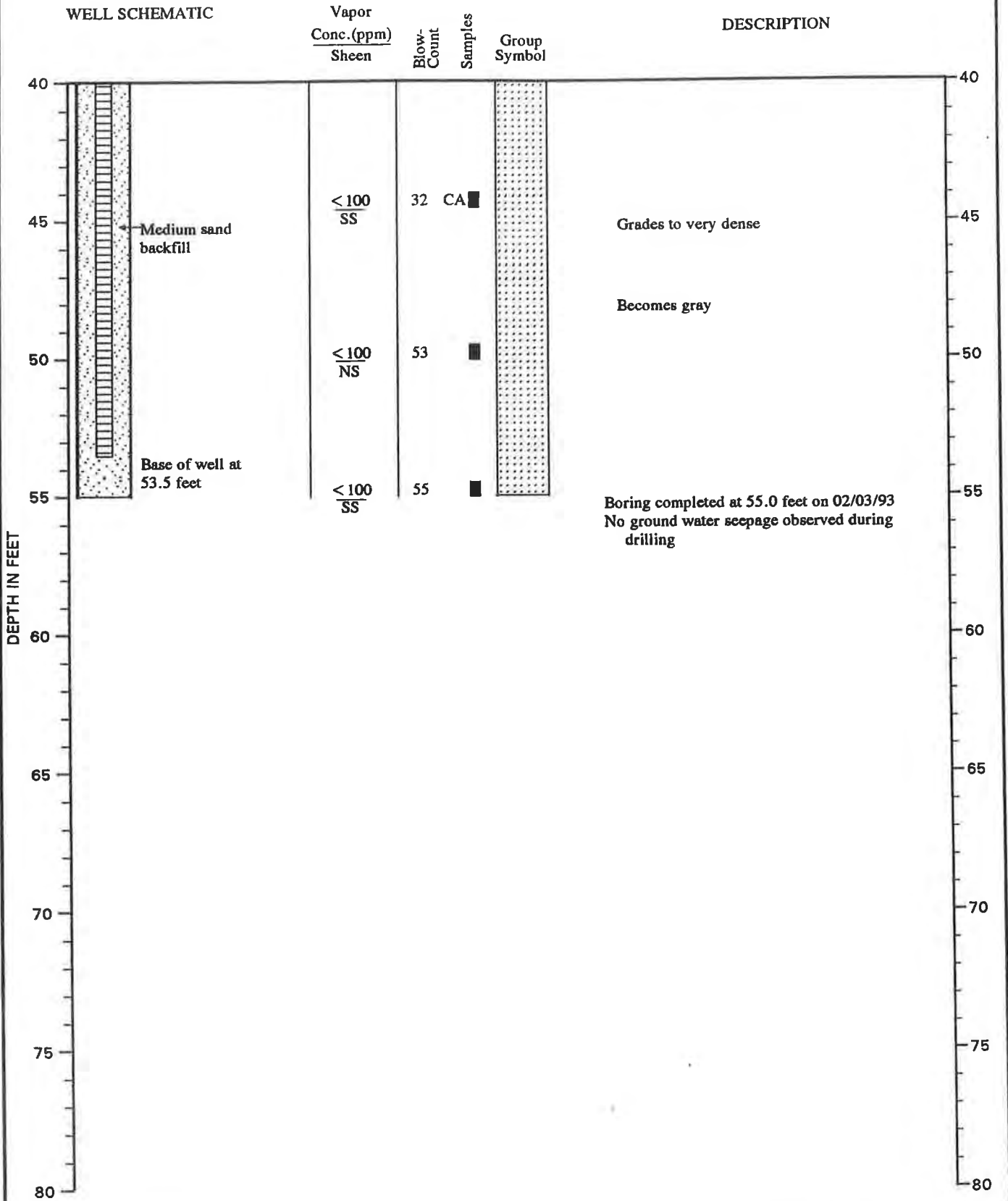
DESCRIPTION

Surface Elevation (ft.):



Note: See Figure A-2 for explanation of symbols

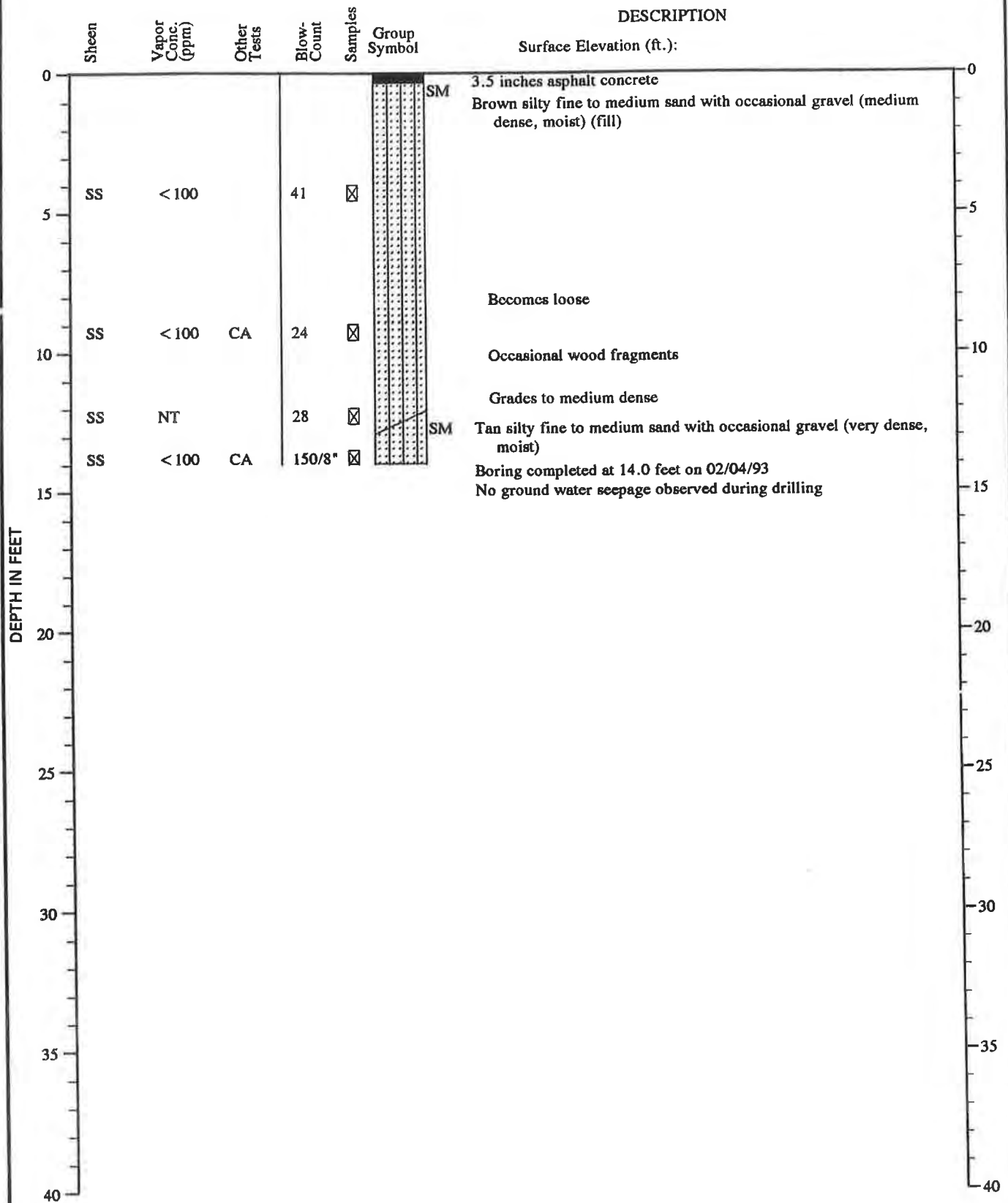
VAPOR PROBE NO. B-7/VP-7
(Continued)



Note: See Figure A-2 for explanation of symbols

TEST DATA

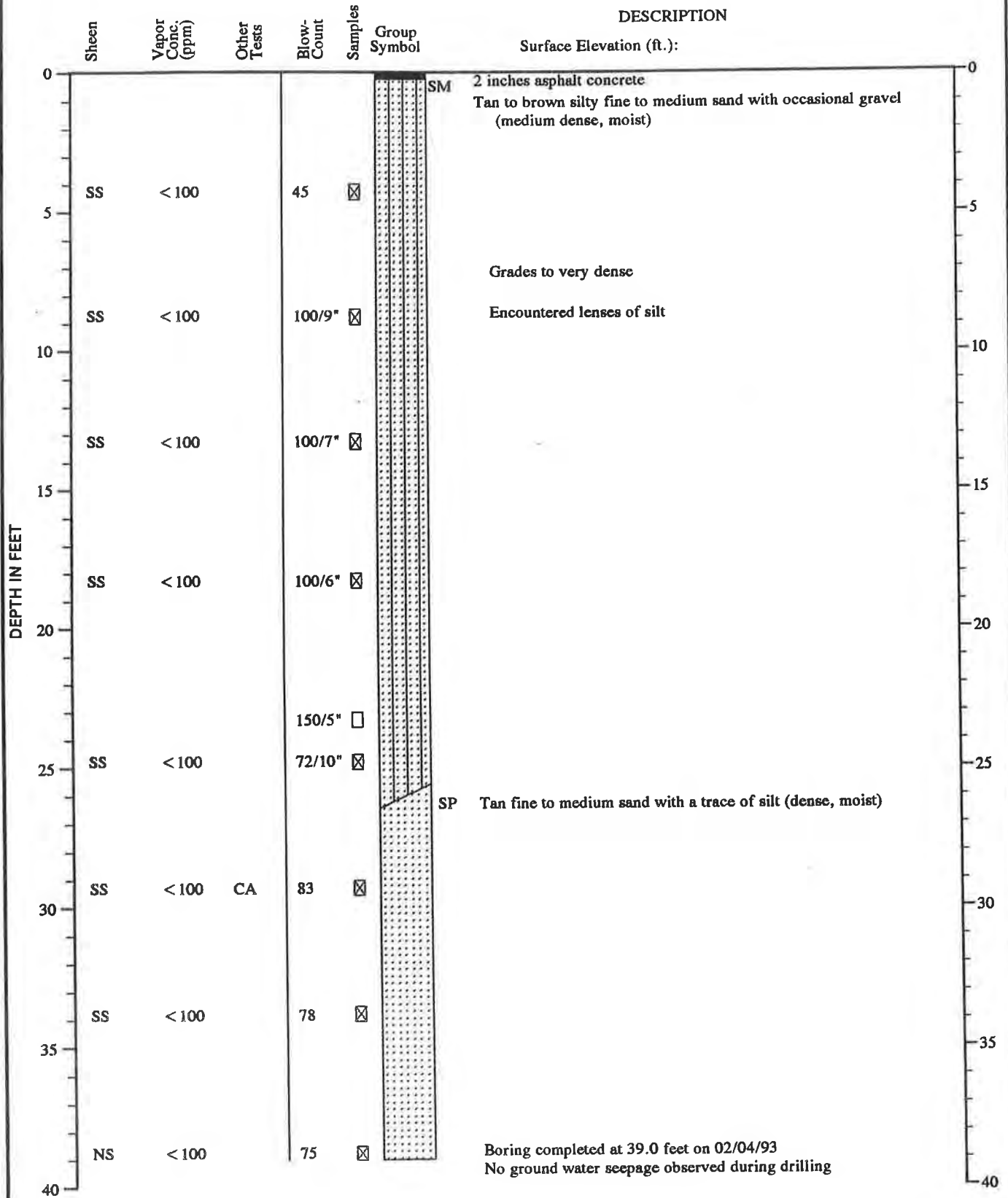
BORING B-8



Note: See Figure A-2 for explanation of symbols

TEST DATA

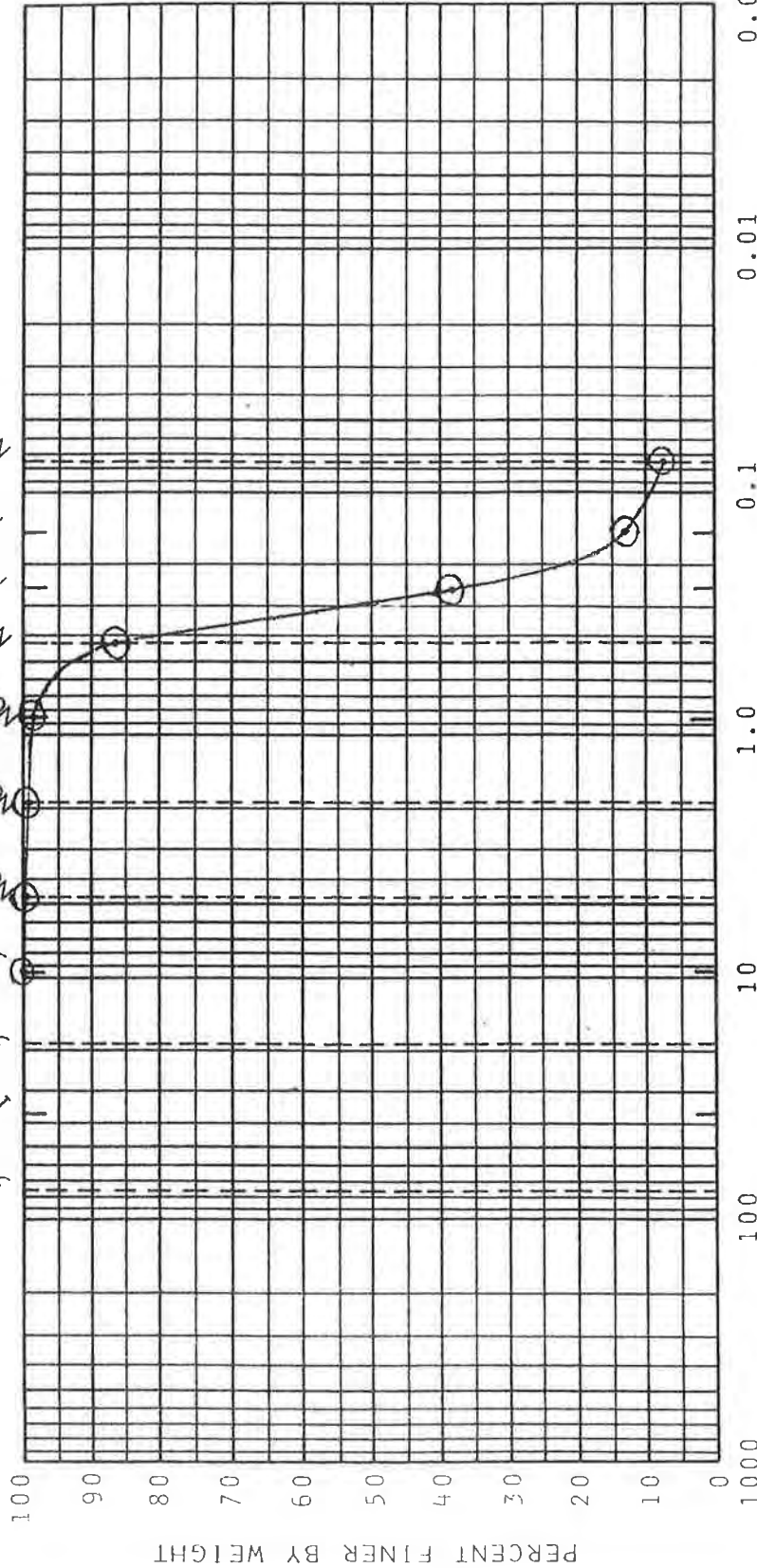
BORING B-9



1957-009-R04 T 01.1

U.S. STANDARD SIEVE SIZE

3 IN. 1.5 IN. 3/4 IN. 3/8 IN. NO. 4 NO. 10 NO. 20 NO. 40 NO. 60 NO. 100 NO. 200



GRAIN SIZE IN MILLIMETERS

COBBLES	GRAVEL		SAND		SILT OR CLAY
	COARSE	FINE	COARSE	FINE	

SYMBOL	EXPLORATION NUMBER	SAMPLE DEPTH	SOIL DESCRIPTION
①	B-4 S-6	29	medium yellow brown fine to medium sand w/ silt (sp-sm)

APPENDIX B

APPENDIX B

CHEMICAL ANALYTICAL PROGRAM

ANALYTICAL METHODS

Chain-of-custody procedures were followed during transport of 43 soil samples to the analytical laboratory. The samples were held in cold storage pending extraction and/or analysis. The soil samples were analyzed by ATI (Analytical Technologies, Inc.) of Renton, Washington, using one or more of the following methods:

<u>Analyte</u>	<u>Technique/Equipment</u>	<u>Method</u>
Hydrocarbon Identification	Gas Chromatography/ Flame Ionization Detector	Ecology WTPH-HCID
Gasoline-range Hydrocarbons	Gas Chromatography/ Flame Ionization Detector	Ecology WTPH-G
Diesel-range Hydrocarbons	Gas Chromatography/ Flame Ionization Detector	Ecology WTPH-D
Oil-range Hydrocarbons	Gas Chromatography/ Flame Ionization Detector	Ecology WTPH-D (Extended Range)
Heavy Petroleum Hydrocarbons	Infrared Spectrophotometry	Ecology WTPH-418.1 Modified
Aromatic Volatile Organic Compounds	Gas Chromatography/ Photoionization Detector	EPA 8020
Volatile Organic Compounds	Gas Chromatography/ Mass Spectrometry	EPA 8240
Semivolatile Organic Compounds	Gas Chromatography/ Mass Spectrometry	EPA 8270
PCBs	Gas Chromatography/ Electron Capture Detector	EPA 8080
Arsenic	Graphite Furnace/Atomic Absorption Spectroscopy	EPA 7060
Mercury	Cold Vapor/Atomic Absorption Spectroscopy	EPA 7471

<u>Analyte</u>	<u>Technique/Equipment</u>	<u>Method</u>
Selenium	Graphite Furnace/Atomic Absorption Spectroscopy	EPA 7740
Barium	Inductively Coupled	EPA 6010
Cadmium	Argon Plasma/Emission	
Chromium	Spectroscopy	
Copper		
Lead		
Nickel		
Silver		
Zinc		
Percent solids	Gravimetric	CLP SOW ILM01.0

Analytical results and laboratory QA/QC (quality assurance/quality control) records are included in this appendix. The analytical results are also summarized in the text and Tables 2, 4 and 5 of the report.

ANALYTICAL DATA REVIEW

Data Quality Goals

ATI maintains an internal quality assurance program as documented in its laboratory quality assurance manual. ATI uses a combination of blanks, surrogate percent recovery, duplicates, matrix spike recovery and matrix spike duplicate recovery to evaluate the validity of analytical results. ATI also uses data quality goals for individual chemicals or groups of chemicals based on the long-term performance of the test methods. The data quality goals were supplied by the laboratory. Each group of samples was compared with the existing data quality goals for the laboratory and evaluated using data validation guidelines from the following documents: "Guidance Document for the Assessment of RCRA Environmental Data Quality," draft dated 1988; "National Functional Guidelines for Organic Data Review," draft dated 1991; and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses," dated 1988. The data quality review is presented below.

Data Quality Review

Surrogates. Surrogates were added to all soil samples prior to extraction and analysis for organic compounds to monitor sample handling procedures, matrix effects and purging efficiency. Any surrogate recoveries that were outside the control limits are summarized below.

Matrix Spike/Matrix Spike Duplicates (MS/MSD). Matrix spikes and matrix spike duplicates were analyzed during most of the organic tests to monitor matrix effects. The laboratory also provided blank spike/blank spike duplicates (BS/BSD) for most analyses. Any MS/MSD or BS/BSD recoveries that were outside the control limits are summarized below.

Duplicates. Duplicates were analyzed during the inorganic tests and some of the hydrocarbon analyses to monitor matrix effects on method reproducibility. All relative percent differences (RPDs) were within the control limits.

Holding Times. All soil samples were extracted and analyzed within the recommended holding times.

Blanks. Laboratory blanks were analyzed for contaminants that may have been introduced during sample analysis. Di-n-octylphthalate was detected in the blank of the 8270 analysis. No other contaminants were detected in the remaining blanks.

Data Quality Exceptions

The following is the list of nonconformances noted during the data quality review:

<u>Analyte/Sample Number</u>	<u>Data Quality Problem</u>	<u>Evaluation</u>
8020 HW-3	MS/MSD and BS recoveries above control limits.	Laboratory attributed problem to systematic error introduced on the addition of the matrix spiking procedure. Problem was later found and corrected. Acceptable method performance was demonstrated through sample surrogate recovery and MSD RPD within control limits.
WTPH-D DSP-2 HW-1 HW-2 HW-3 HW-4	Surrogate recovery below limits for blank.	Detection limits or values presented for these samples may be biased low and should be qualified as estimated.

<u>Analyte/Sample Number</u>	<u>Data Quality Problem</u>	<u>Evaluation</u>
8270 DSP-5 DSP-6 DSP-7	Di-n-octylphthalate found in blank.	Compound not found in field samples.
8270 DSP-5 DSP-6 DSP-7	1,2,4-trichlorobenzene MSD recovery outside control limits.	Acceptable method performance was demonstrated through sample surrogate and MS recovery within control limits.
6000 and 7000 series DSP-5 DSP-6 DSP-7	Arsenic MS recovery outside control limits.	Laboratory attributed problem to matrix interference. Acceptable method performance was demonstrated through blank spike recovery within control limits.
8020 HW-12	Surrogate recovery outside control limits.	Values presented for this sample should be qualified as estimated.
8020 HW-14	Surrogate recovery outside control limits.	Matrix interference was confirmed to be a result of the presence of petroleum hydrocarbons. Data are acceptable for use.
8020 HW-14	Toluene MS recovery outside control limits.	QC sample not from project set. Acceptable method performance demonstrated through MSD and BS recoveries within control limits.

<u>Analyte/Sample Number</u>	<u>Data Quality Problem</u>	<u>Evaluation</u>
WTPH-D HW-14	MS/MSD recoveries outside control limits.	QC sample not from project set. Acceptable method performance demonstrated through sample surrogate and BS recoveries within control limits.
8020 B-1-12, 31' B-1-18, 46'	Surrogate recovery outside control limits.	Matrix interference was confirmed to be the result of the presence of high concentrations of petroleum hydrocarbons. Data are acceptable for use.

SUMMARY

The analytical results for this project were reviewed for conformance with the data quality goals. Data quality problems were encountered for eight of the samples from this project.

A laboratory contaminant was detected in the 8270 analysis. The compound was not detected in the samples. Other problems included surrogate, matrix spike and matrix spike duplicate recoveries outside of control limits. Recovery or reproducibility problems were often confirmed to be the result of matrix interference, and acceptable method performance was demonstrated through other satisfactory QC parameters, as described above. For these cases, the associated data are acceptable for semiquantitative use. Of the samples with associated QC problems, several were obtained from the limits of the excavation: HW-1, HW-2, HW-4, HW-12 and HW-14. The remaining samples with associated QC problems were either obtained from areas where the soil was removed by subsequent excavation, or from soil stockpiles that were later disposed of at Woodworth and Company.

It is our opinion that the quality of chemical analytical data used to form conclusions in this report is acceptable based on our review of the ATI results and associated quality control parameters.



Analytical**Technologies**, Inc.

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John H. Taylor, Jr., Laboratory Manager
Frederick W. Grothkopp, Technical Director

ATI I.D. # 9212-092

December 17, 1992

GeoEngineers

DEC 28 1992

GeoEngineers, Inc.
8410 154th Ave. N.E.
Redmond, WA 98052

Routing DEH ☐ ☐ ☐
File ☐ ☐ ☐

Attention : Don Hanson

Project Number : 1957-009-R04

Project Name : Time Oil Jackpot

On December 14, 1992, Analytical Technologies, Inc., received three 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 FOR:
Mary C. Silva
Senior Project Manager

MCS/hal/ff

ATI I.D. # 9212-092

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9212-092-1	DSP-4	12/14/92	SOIL
9212-092-2	HW-5	12/14/92	SOIL
9212-092-3	HW-6	12/14/92	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	3

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



ATI I.D. # 9212-092

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ANALYSIS	TECHNIQUE	REFERENCE	LAB
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
MOISTURE	GRAVIMETRIC	CLP SOW ILM01.0	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

ATI I.D. # 9212-092

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/15/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/16/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND	RESULT
FUEL HYDROCARBONS	<25
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	88	50 - 150
-------------	----	----------



ATI I.D. # 9212-092-1

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : DSP-4
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/14/92
DATE RECEIVED : 12/14/92
DATE EXTRACTED : 12/15/92
DATE ANALYZED : 12/16/92
UNITS : mg/Kg
DILUTION FACTOR : 5

COMPOUNDRESULT

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

660
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

1,600
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

112

50 - 150

ATI I.D. # 9212-092-2

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/14/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/14/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/15/92
CLIENT I.D.	: HW-5	DATE ANALYZED	: 12/16/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND	RESULT
FUEL HYDROCARBONS	<27
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<110
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	83 50 - 150



ATI I.D. # 9212-092

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : 500 PPM CCV
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-D

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED : N/A
DATE ANALYZED : 12/15/92
UNITS : %
DILUTION FACTOR : 1

COMPOUND% DIFFERENCE

FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL 8

FUEL HYDROCARBONS QUANTITATED USING DIESEL 11

ATI I.D. # 9212-092

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: N/A
CLIENT I.D.	: 500 PPM CCV	DATE ANALYZED	: 12/16/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND	% DIFFERENCE
----------	--------------

FUEL HYDROCARBONS QUANTITATED USING DIESEL	4
--	---



ATI I.D. # 9212-092

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : 9212-092-3
DATE EXTRACTED : 12/15/92
DATE ANALYZED : 12/15/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (MOTOR OIL)	<100	<100	NC	N/A	N/A	N/A	N/A	N/A	N/A

RPD

MOTOR OIL

20

SURROGATE RECOVERIES

SAMPLE

SAMPLE DUP.

LIMITS

O-TERPHENYL

88

90

50 - 150

NC = Not Calculable.

ATI I.D. # 9212-092

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-092-3
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/15/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	<25	NC	200	172	86	183	92	6
	CONTROL LIMITS					% REC.			RPD
DIESEL						63 - 131			20
	SURROGATE RECOVERIES			SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL				88		90		50 - 150	

NC = Not Calculable.



Analytical Technologies, Inc.

ATI I.D. # 9212-092

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/15/92
DATE ANALYZED : 12/15/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	200	200	100	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		N/A		N/A		50 - 150	

Analytical**Technologies**, Inc.

ATI I.D. # 9212-092

GENERAL CHEMISTRY ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

PARAMETERDATE ANALYZED

MOISTURE

12/15/92



Analytical Technologies, Inc.

ATI I.D. # 9212-092

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9212-092-1	DSP-4	9.1
9212-092-2	HW-5	8.6
9212-092-3	HW-6	8.7

ATI I.D. # 9212-092

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9212-080-6	85	85	0	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

9212092-31

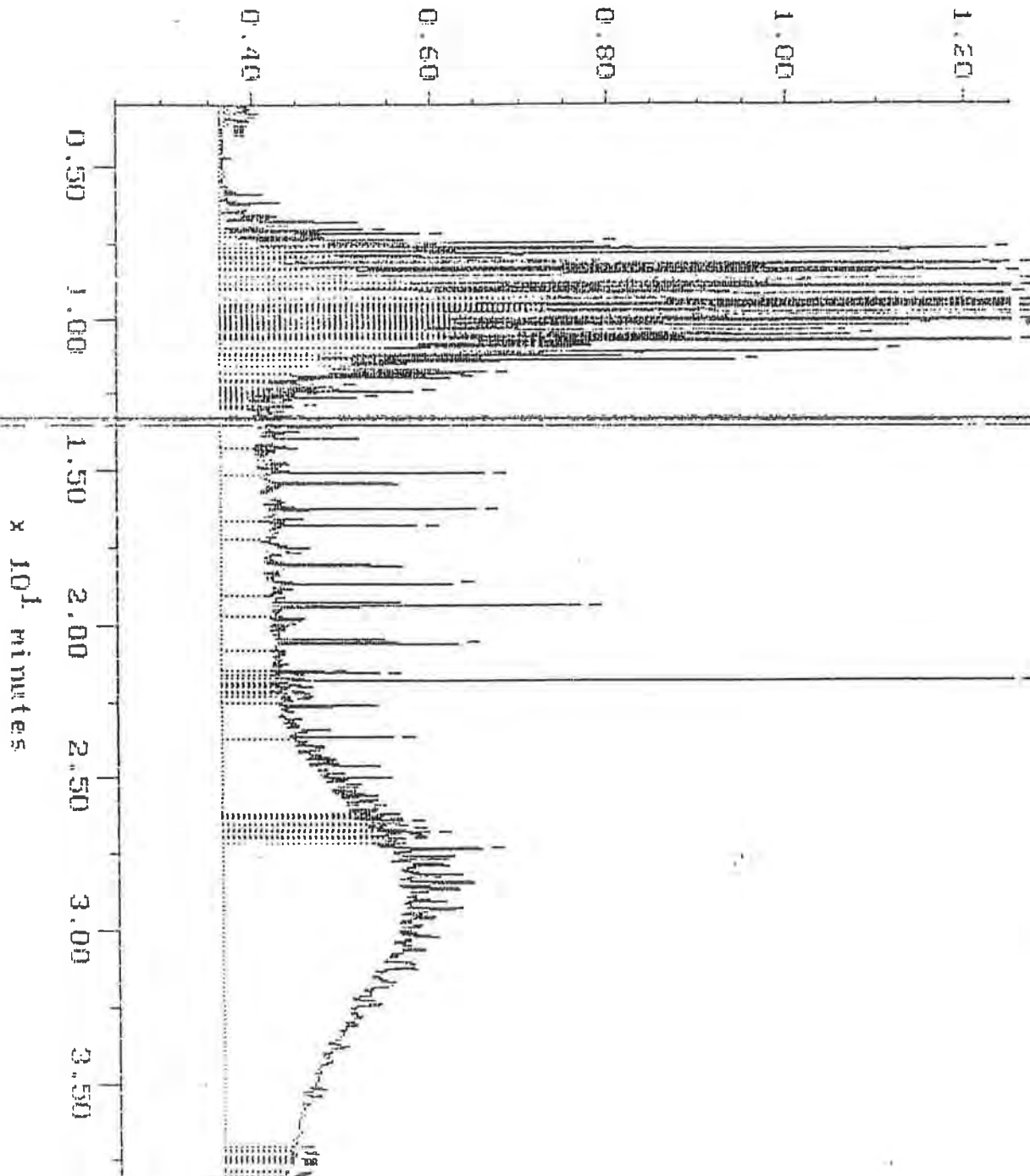
Acq#001: 281222-221011:33
Dilution: 1 : 5.000

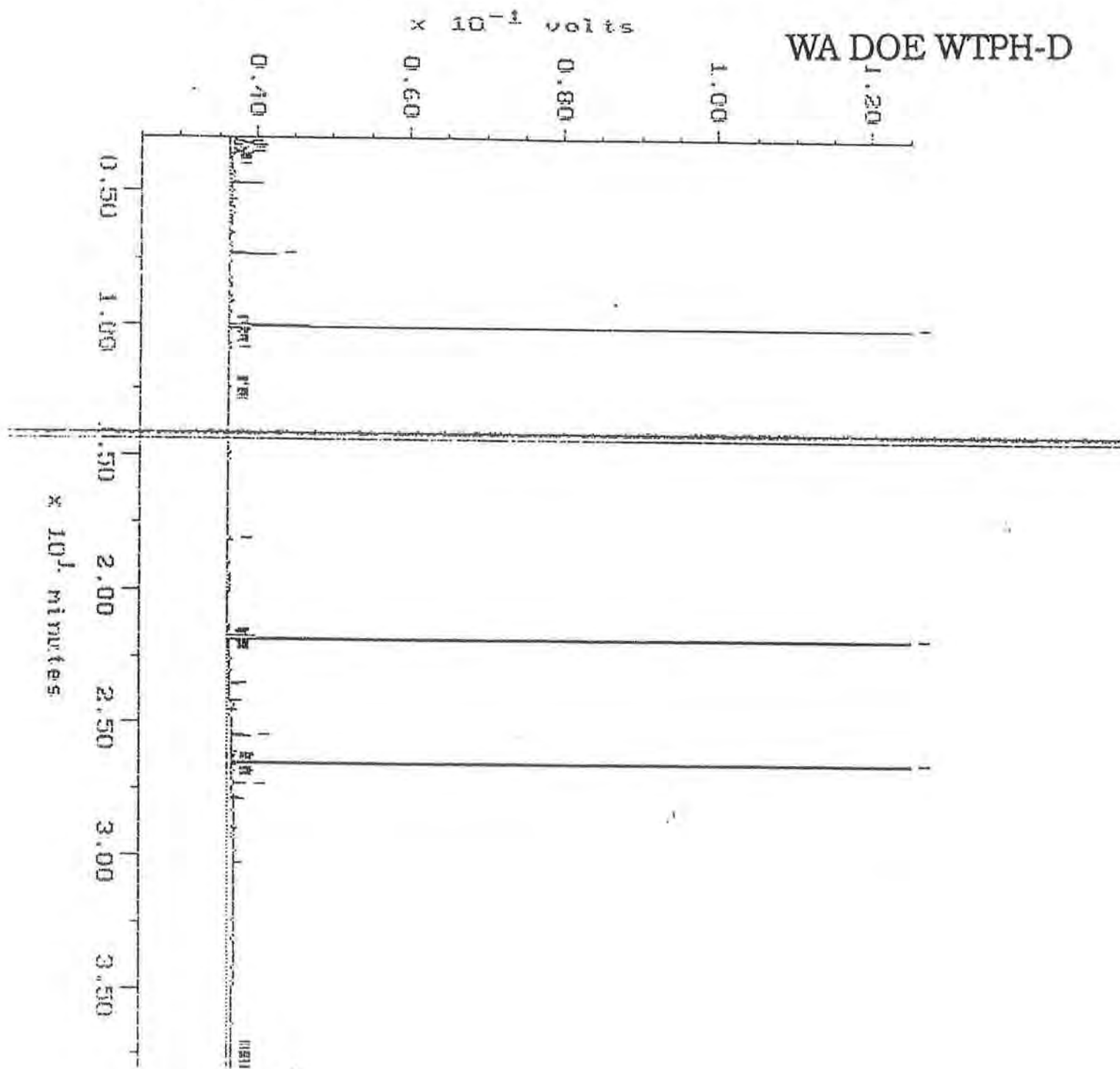
Method: 9212201\MAXDATA\SERG1-0\FILE1213
Inj Vol: 1.00

01122001 2120533

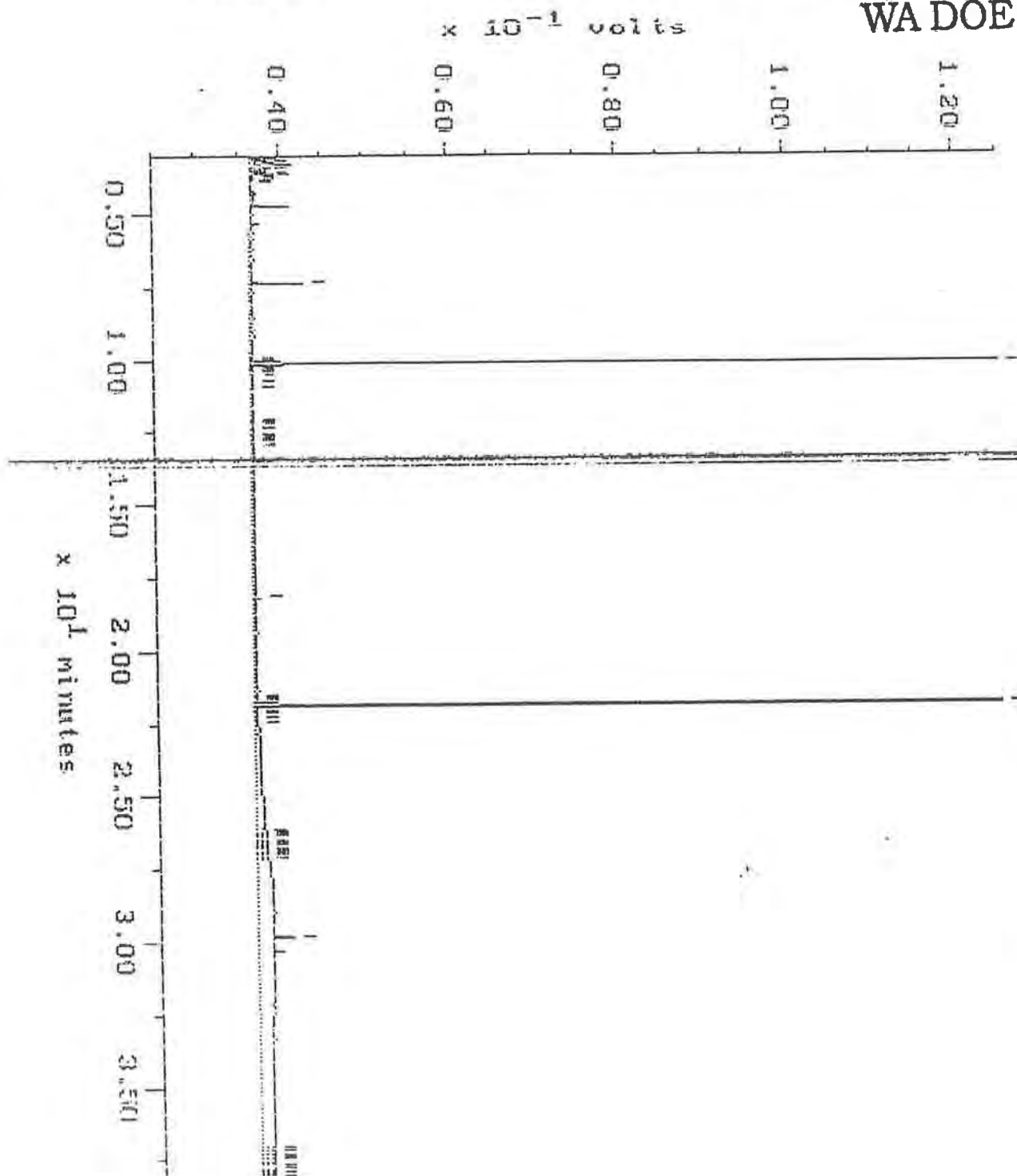
WA DOE WTPH-D

$\times 10^{-1}$ Volts





WA DOE WTPH-D

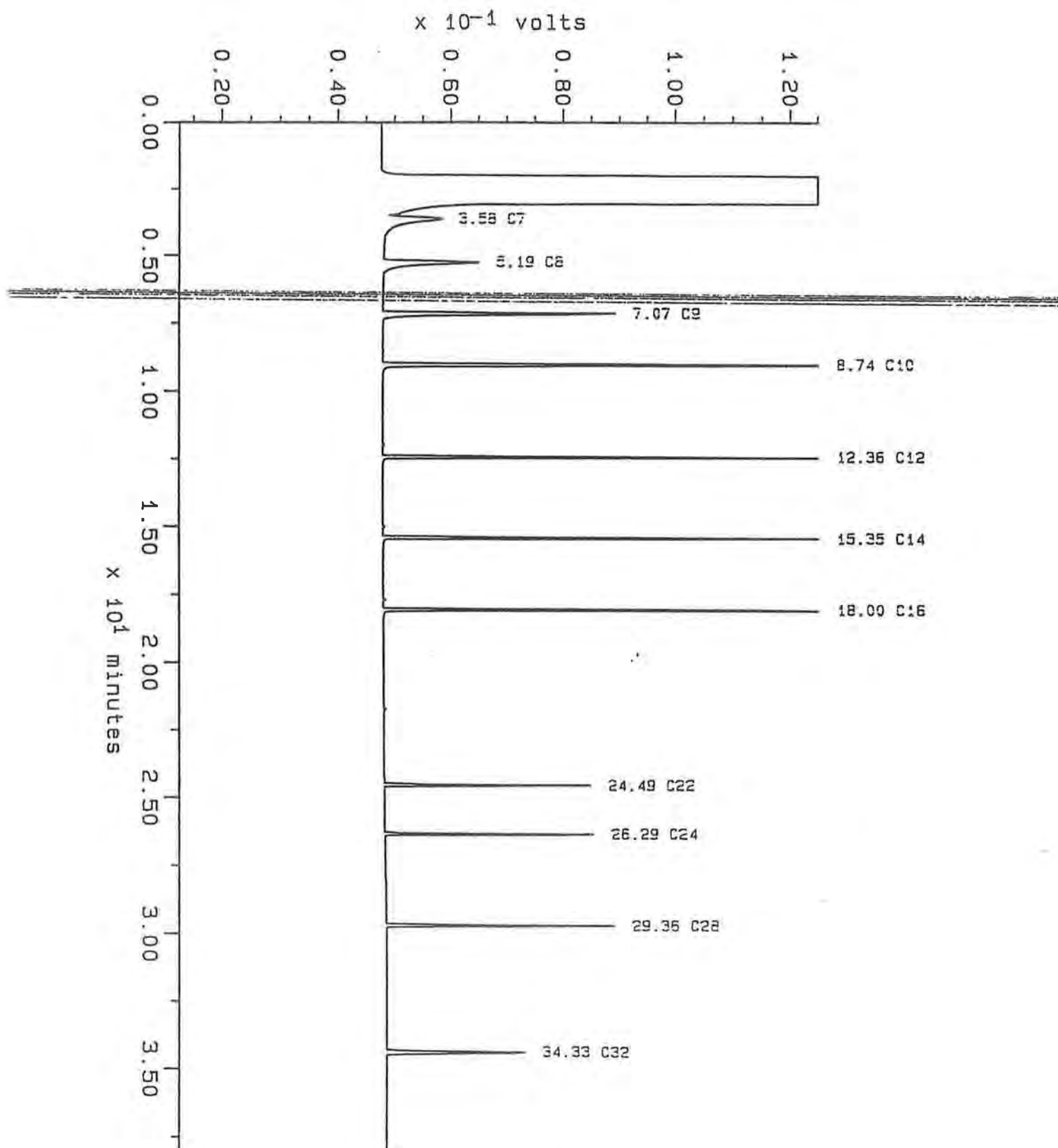


Alkane

Sample: ALKANE
Acquired: CLOCK NOT SET
Inj Vol: 1.00

Channel: CLARENCE
Method: H:\BR02\MAXDATA\SERGE-C\FUEL1005

Filename: 10C8SC40
Operator: ATI

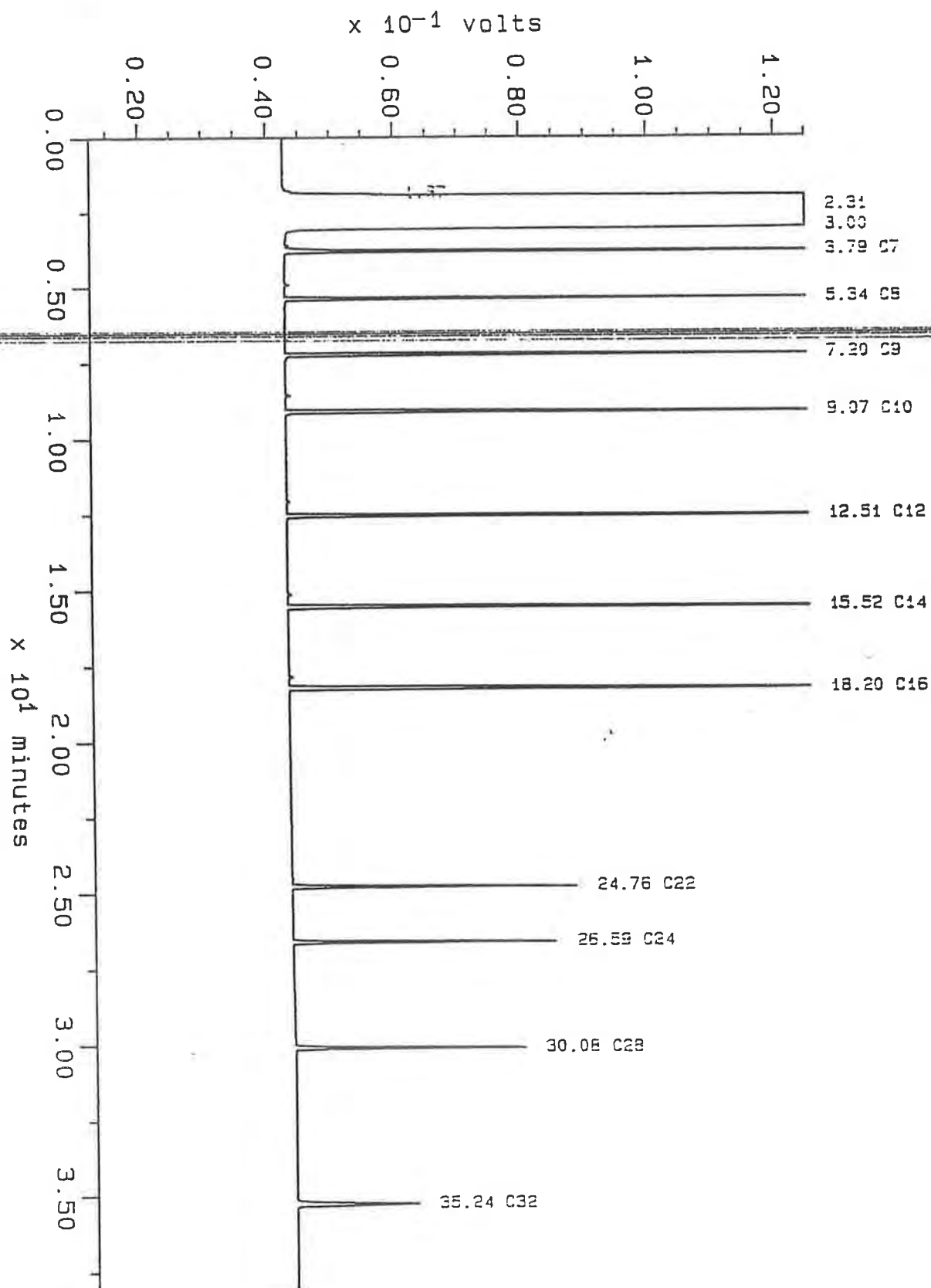


Alkane

Sample: ALKANE
Acquired: 02-NOV-92 12: 49
Inj Vol: 1.00

Channel: DEMITRI
Method: L:\BRO2\MAXDATA\SERGE-D\FUEL0902

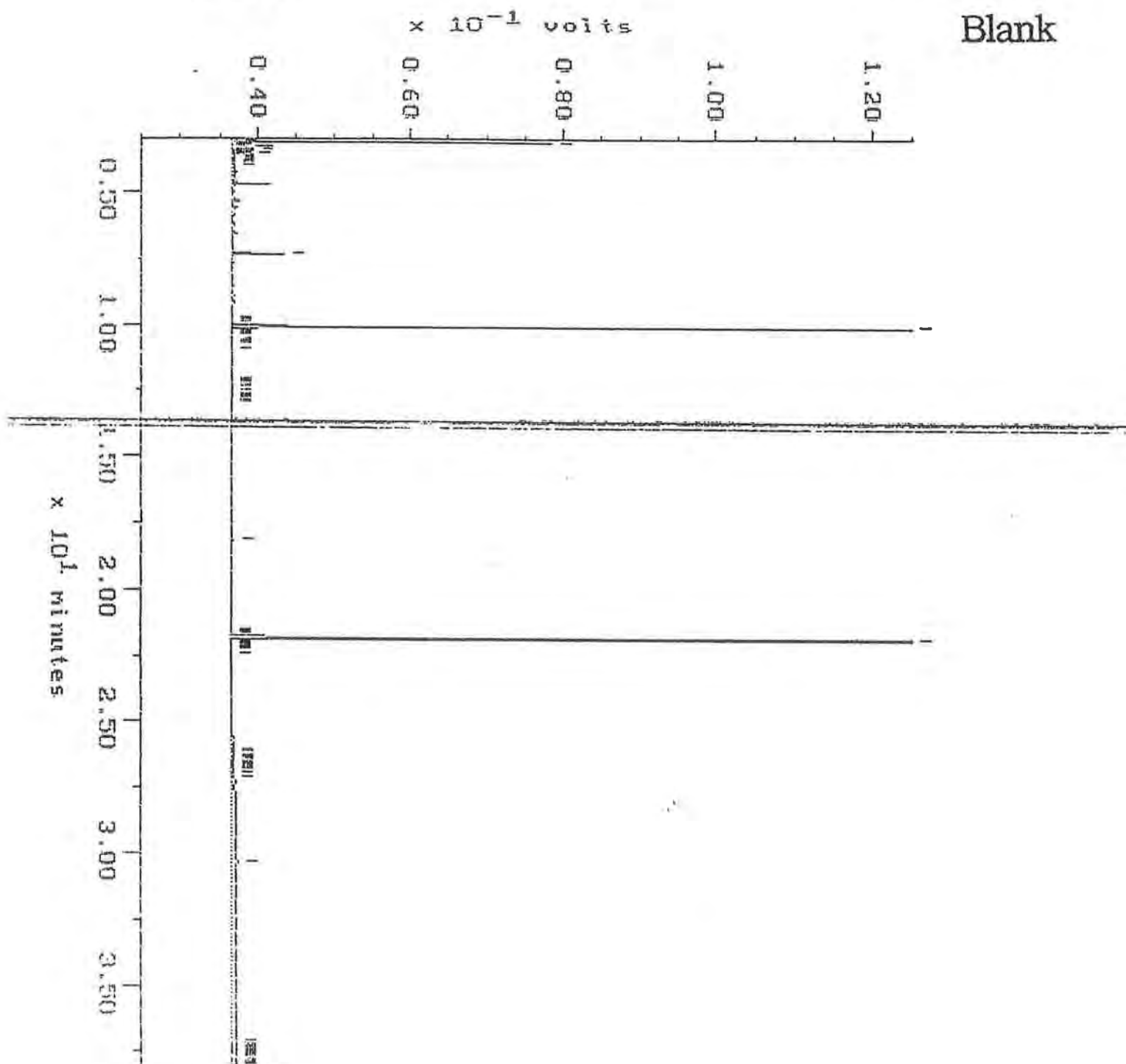
Filename: 1102SD02
Operator: ATI



Sample: SRB 12-15
Acquired: 16-DEC-92
Inj Vol: 1.00

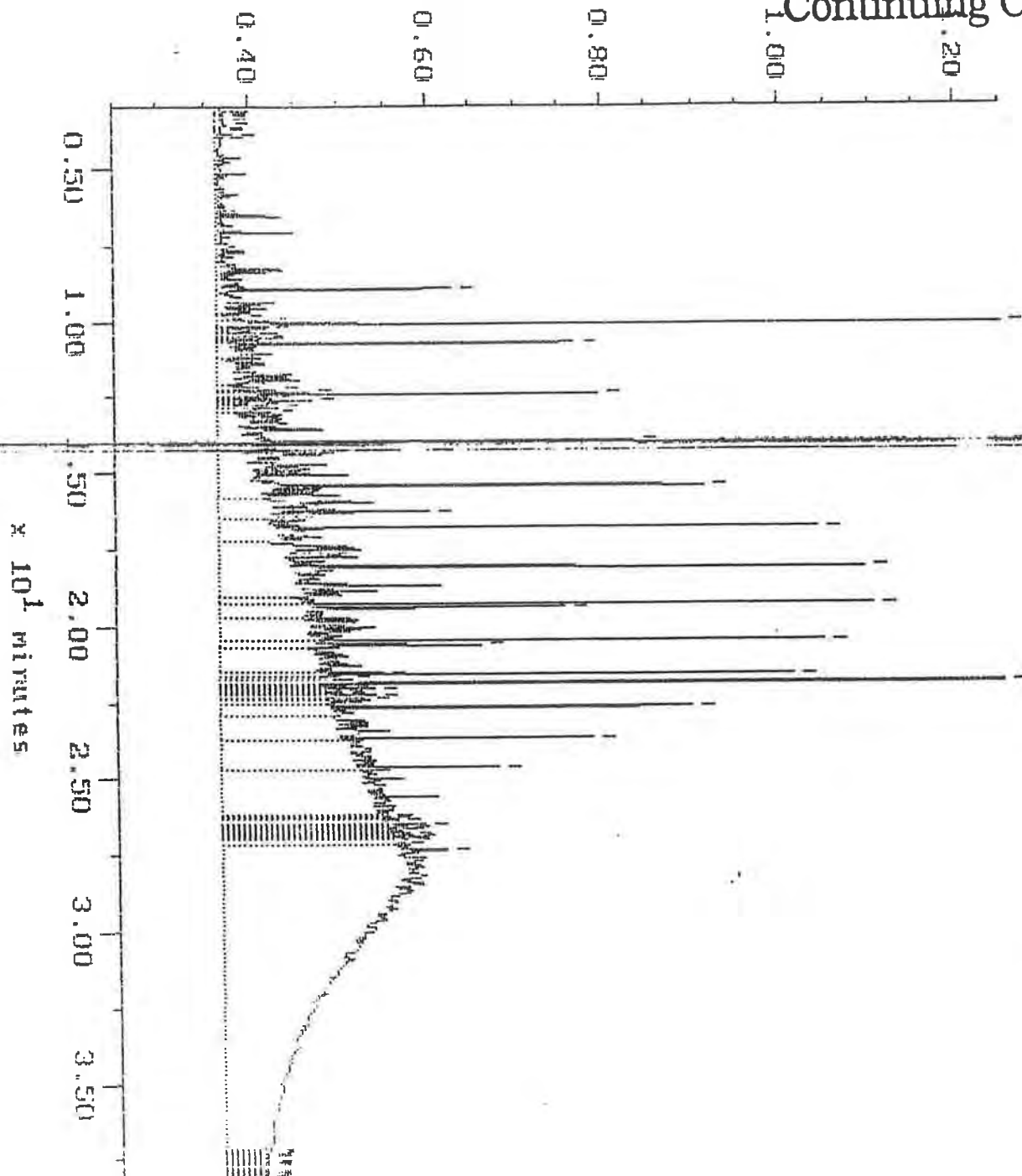
Channel: DEM171
Method: H:\BRO2\MAXDATA\SENSE-DV\FRL1215

Filename: 12153030
Operator: AFI



$\times 10^{-1}$ volts

Continuing Calibration

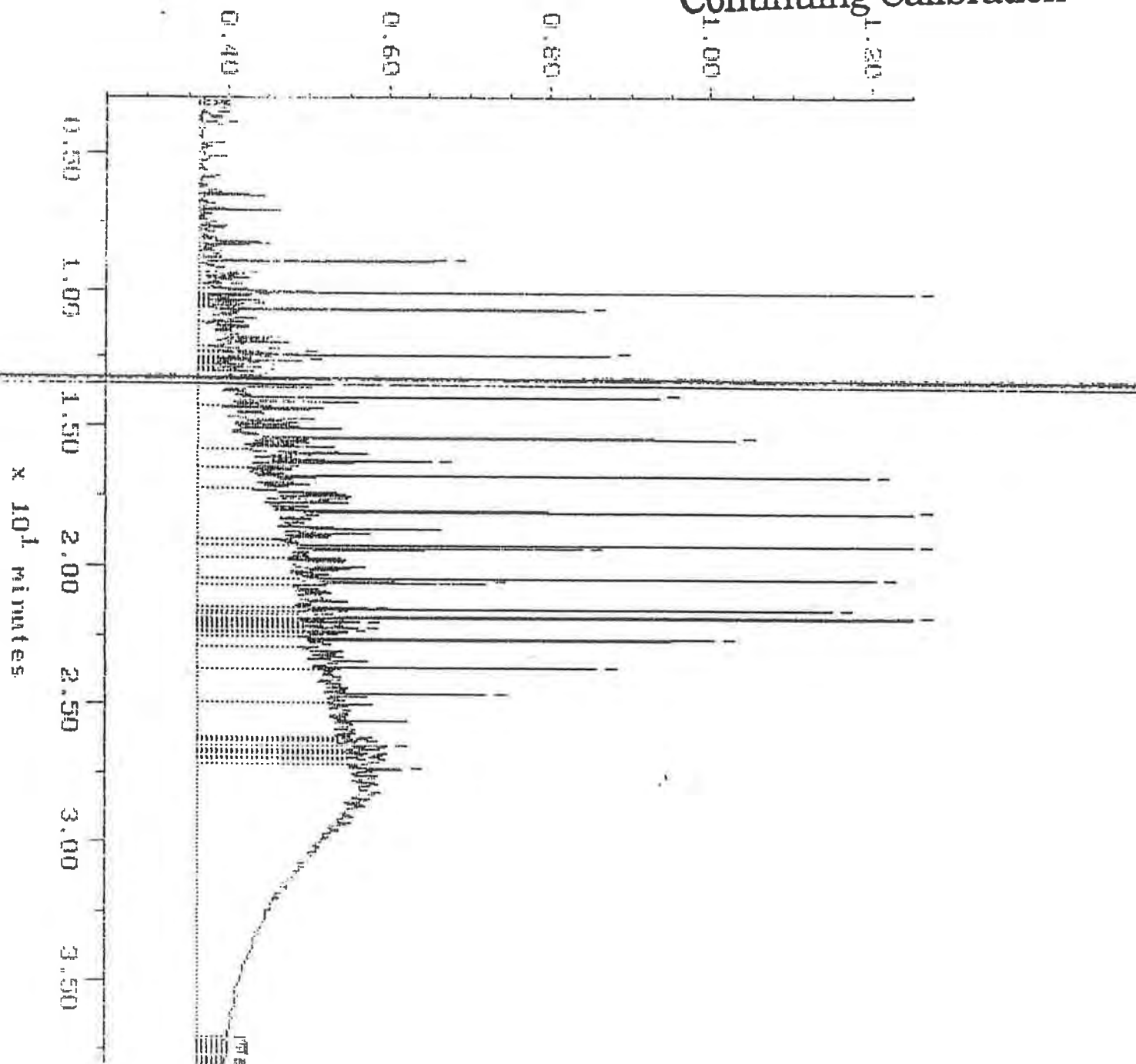


Sample: 18-522-12 13:07 Channel: 05M1781
Acquired: 18-522-12 13:07 Method: HPLC-MS/MS
Inj Vol: 1.00

Filepath: 18130030
Operator: AT

$\times 10^{-1}$ volts

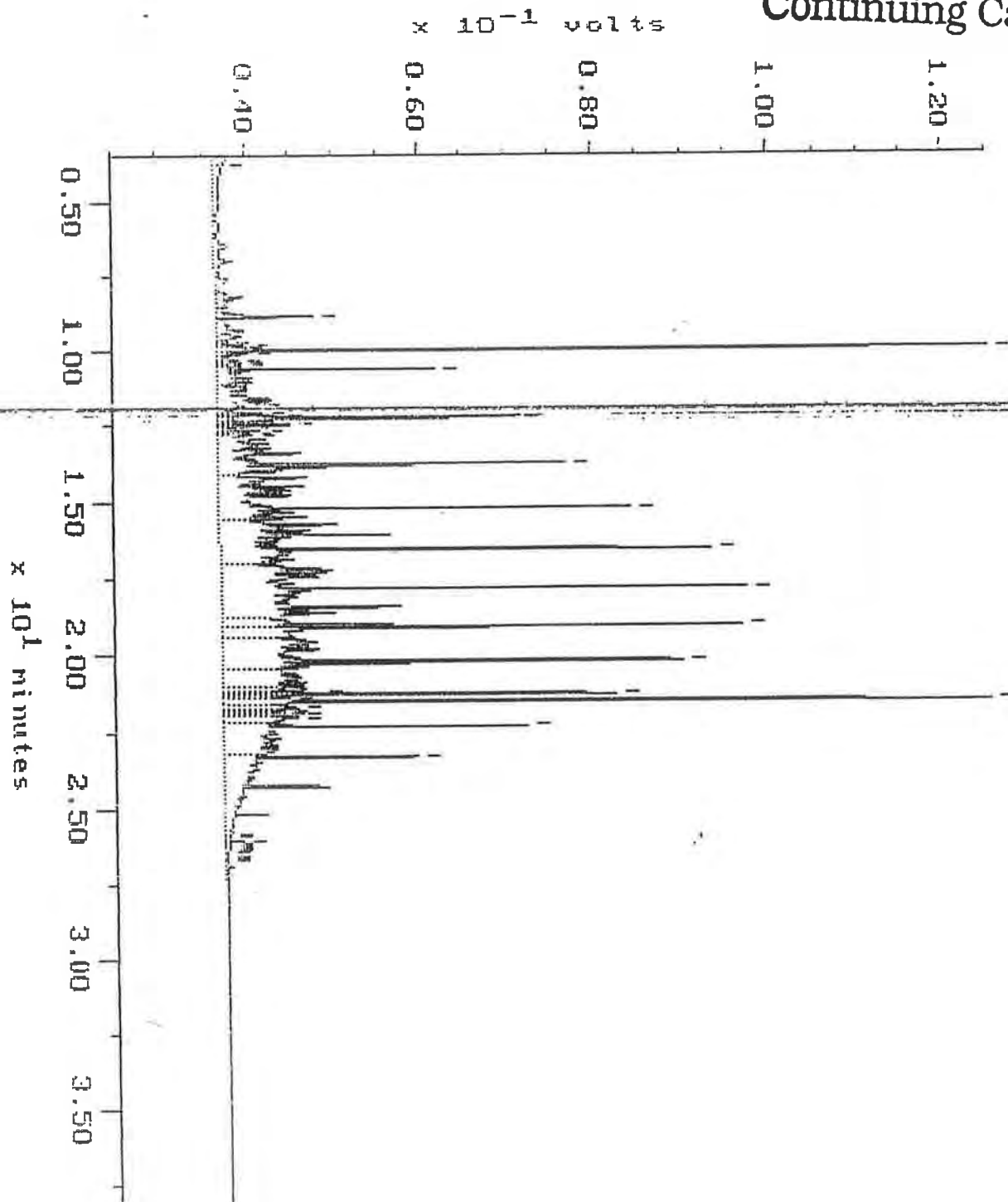
Continuing Calibration



Sample: D-500
Acquired: 15-DEC-92 9:24 Channel: CLARENCE
Inj Vol: 1.00 Method: H:\BRO2\MAXDATA\SERGE-C\FUEL1215
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

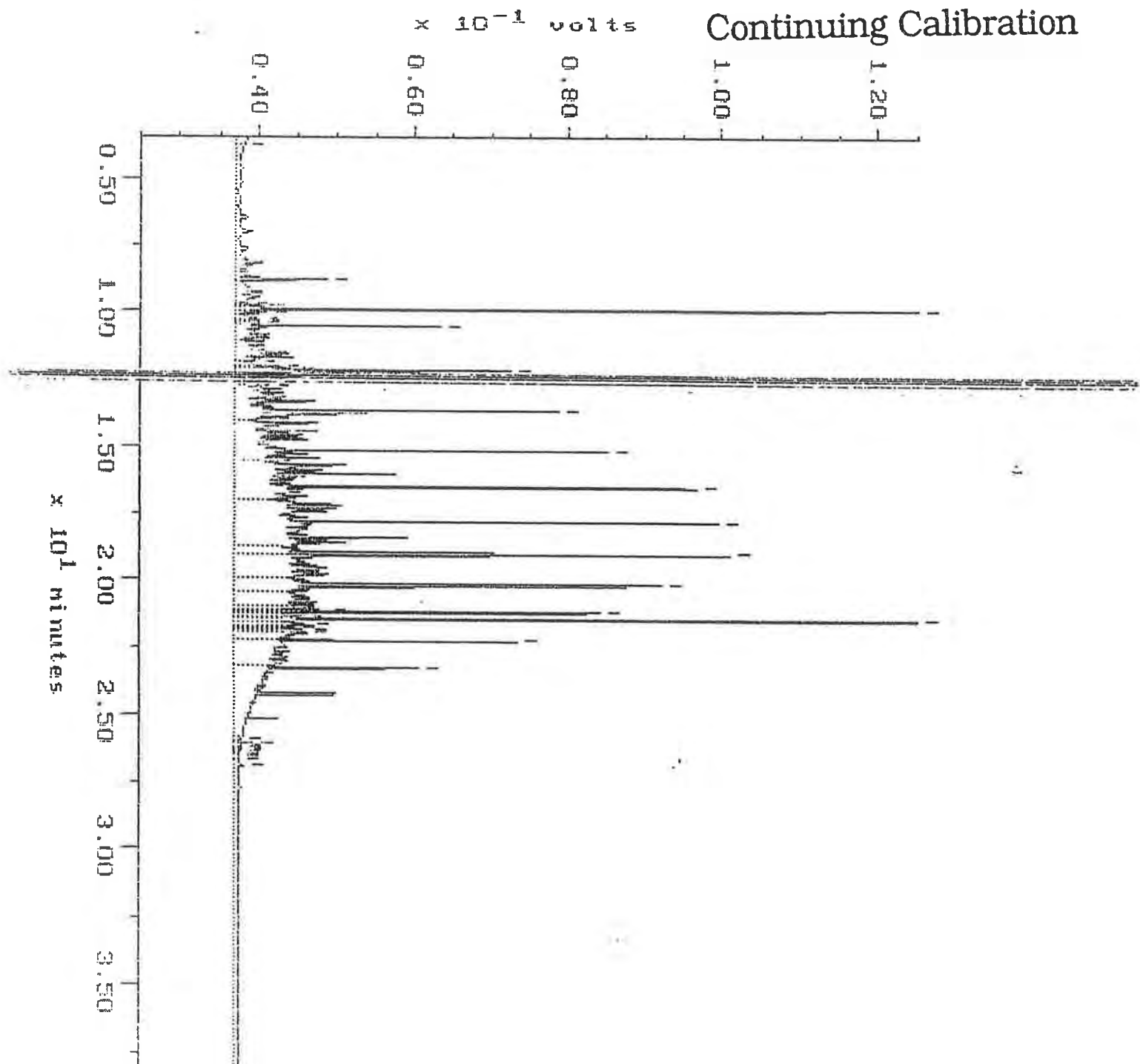
Filename: 1215SC01
Operator: ATI

Continuing Calibration



Sample: 0000
Acquired: 16-DEC-92 15:27 Channel: CLARENCE
Inj Vol: 1.00 Method: H:\BROU\MAXDATA\SERGE-C\FUEL1215
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 12130028
Operator: ARI





Analytical Technologies, Inc.

560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

DATE: 12/11/92 PAGE 1 OF 1

Chain of Custody LABORATORY NUMBER: 1010-092

PROJECT INFORMATION				SAMPLE RECEIPT		RELINQUISHED BY:		RELINQUISHED BY:																							
PROJECT NUMBER:	PROJECT NAME:	PURCHASE ORDER NUMBER:	ONGOING PROJECT?	YES	NO	SIGNATURE:	TIME:	SIGNATURE:	TIME:																						
1157-0001-001	1157-0001-001	1157-0001-001				12/11/92	16:35																								
COC SEALS/INTACT? Y/N/A																															
RECEIVED GOOD COND./COLD																															
RECEIVED VIA:				11/11/92																											
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS																															
TAT: (NORMAL) <input type="checkbox"/> 2WKS (RUSH) <input type="checkbox"/> 24HR <input type="checkbox"/> 48 HRS <input type="checkbox"/> 72 HRS <input type="checkbox"/> 1 WK																															
GREATER THAN 24 HR. NOTICE? YES <input type="checkbox"/> NO <input type="checkbox"/> (LAB USE ONLY)																															
SPECIAL INSTRUCTIONS:																															
3 1/2" x 1/4" x 1/8" 11/11/92 HW-5																															
2 1/2" x 1/4" x 1/8" 11/11/92																															
PROJECT MANAGER: _____																															
COMPANY: _____																															
ADDRESS: _____																															
PHONE: _____ SAMPLED BY: _____																															
SAMPLE DISPOSAL INSTRUCTIONS																															
<input checked="" type="checkbox"/> ATI Disposal @ \$5.00 each <input type="checkbox"/> Return																															
SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	8020 BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	8080 PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAH/HWAC 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)	8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (6)	NUMBER OF CONTAINERS		
1157-0001-001	12/11/92	11:50	soil	1																										1	
1157-0001-001	12/11/92	11:50	soil	2																										1	
1157-0001-001	12/11/92	11:50	soil	3																										1	
ANALYSIS REQUEST																															
TCLP ONLY																															
8080 Pesticide (4)																															
8240 ZH-EXT																															
8270																															
8150 Herbicides (2)																															
Metals (6)																															
WDOE PAH/HWAC 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)																															
8080 Pesticide (4)																															
8240 ZH-EXT																															
8270																															
8150 Herbicides (2)																															
Metals (6)																															
NUMBER OF CONTAINERS																															



Analytical Technologies, Inc.

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John H. Taylor, Jr., Laboratory Manager
Frederick W. Grothkopp, Technical Director

ATI I.D. # 9212-123

December 22, 1992

GeoEngineers

DEC 29 1992

GeoEngineers, Inc.
8410 154th Ave. N.E.
Redmond, WA 98052

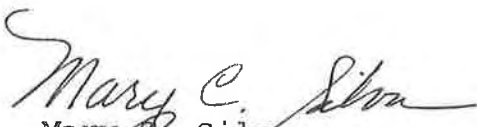
Routing DEH ☐ ☐ ☐
File

Attention : Don Hanson

Project Number : 1957-009-R04

Project Name : Time Oil Jackpot

On December 17, 1992, Analytical Technologies, Inc., received two 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
MCS/hal/ff

ATI I.D. # 9212-123

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9212-123-1	HW-8	12/17/92	SOIL
9212-123-2	HW-9	12/17/92	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 the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



ATI I.D. # 9212-123

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ANALYSIS	TECHNIQUE	REFERENCE	LAB
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
MOISTURE	GRAVIMETRIC	CLP SOW ILMO1.0	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract



ATI I.D. # 9212-123

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/19/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND

RESULT

FUEL HYDROCARBONS	<25
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL

FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	90	50 - 150
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ATI I.D. # 9212-123-1

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/17/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/17/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: HW-8	DATE ANALYZED	: 12/19/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND	RESULT
FUEL HYDROCARBONS	<27
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<110
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	90 50 - 150

ATI I.D. # 9212-123-2

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : HW-9
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-D
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/17/92
 DATE RECEIVED : 12/17/92
 DATE EXTRACTED : 12/18/92
 DATE ANALYZED : 12/19/92
 UNITS : mg/Kg
 DILUTION FACTOR : 1

 COMPOUND

RESULT

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

<27
 C12 - C24
 DIESEL

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

<110
 C24 - C34
 MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

94

50 - 150



ATI I.D. # 9212-123

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: N/A
CLIENT I.D.	: 500 PPM CCV	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND% DIFFERENCE

FUEL HYDROCARBONS QUANTITATED USING DIESEL 3

FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL 1

ATI I.D. # 9212-123

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-123-1
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/18/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/18/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (MOTOR OIL)	<100	<100	NC	N/A	N/A	N/A	N/A	N/A	N/A
	CONTROL LIMITS					% REC.			RPD
MOTOR OIL						N/A			20
	SURROGATE RECOVERIES			SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				90		83		50 - 150	

NC = Not Calculable.



ATI I.D. # 9212-123

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-134-2
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/18/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/18/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (MOTOR OIL)	<100	<100	NC	N/A	N/A	N/A	N/A	N/A	N/A
	CONTROL LIMITS					% REC.			RPD
MOTOR OIL						N/A			20
	SURROGATE RECOVERIES			SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				98		92		50 - 150	

NC = Not Calculable.



Analytical Technologies, Inc.

ATI I.D. # 9212-123

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.	SAMPLE I.D. # : 9212-123-1
PROJECT # : 1957-009-R04	DATE EXTRACTED : 12/18/92
PROJECT NAME : TIME OIL JACKPOT	DATE ANALYZED : 12/18/92
METHOD : WA DOE WTPH-D	UNITS : mg/Kg
SAMPLE MATRIX : SOIL	

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	<25	NC	200	183	92	172	86	6
	CONTROL LIMITS					% REC.			RPD
DIESEL						63 - 131			20
	SURROGATE RECOVERIES			SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL				94		94		50 - 150	

NC = Not Calculable.



ATI I.D. # 9212-123

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : 9212-134-2
DATE EXTRACTED : 12/18/92
DATE ANALYZED : 12/18/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	<25	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
DIESEL						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				98		92		50 - 150	

NC = Not Calculable.

ATI I.D. # 9212-123

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/18/92
DATE ANALYZED : 12/19/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	200	186	93	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		91		N/A		50 - 150	

Analytical**Technologies**, Inc.

ATI I.D. # 9212-123

GENERAL CHEMISTRY ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

PARAMETERDATE ANALYZED

MOISTURE

12/18/92



Analytical Technologies, Inc.

ATI I.D. # 9212-123

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9212-123-1	HW-8	8.7
9212-123-2	HW-9	6.1



ATI I.D. # 9212-123

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9212-116-4	18	19	5	N/A	N/A	N/A

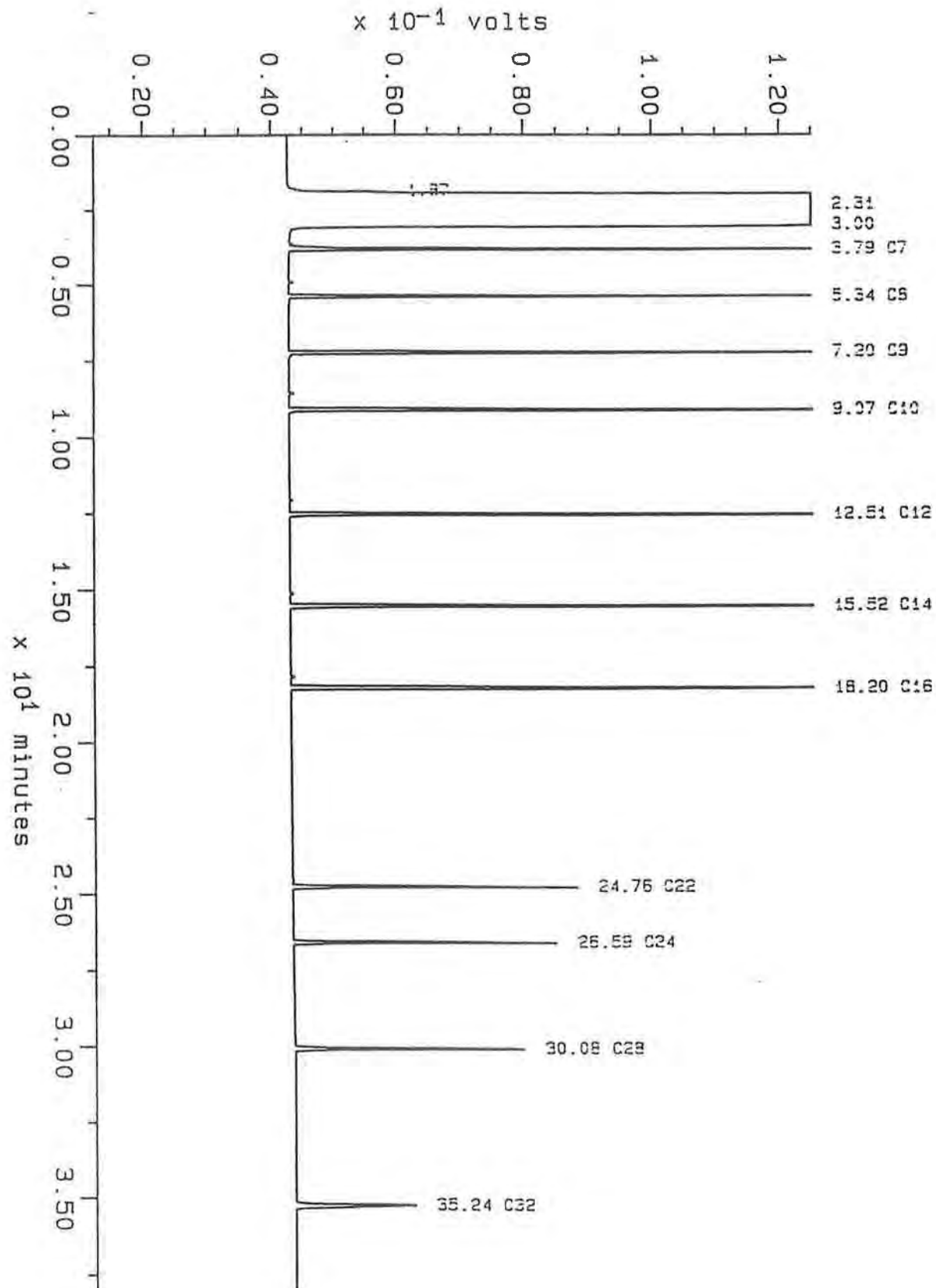
$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Sample: ALKANE
Acquired: C2-NCV-92 12: 49
Inj Vol: 1.00

Channel: DEMITRI
Method: L:\BR02\MAXDATA\SERGE-D\FUEL0902

Filename: 1102SD02
Operator: ATI

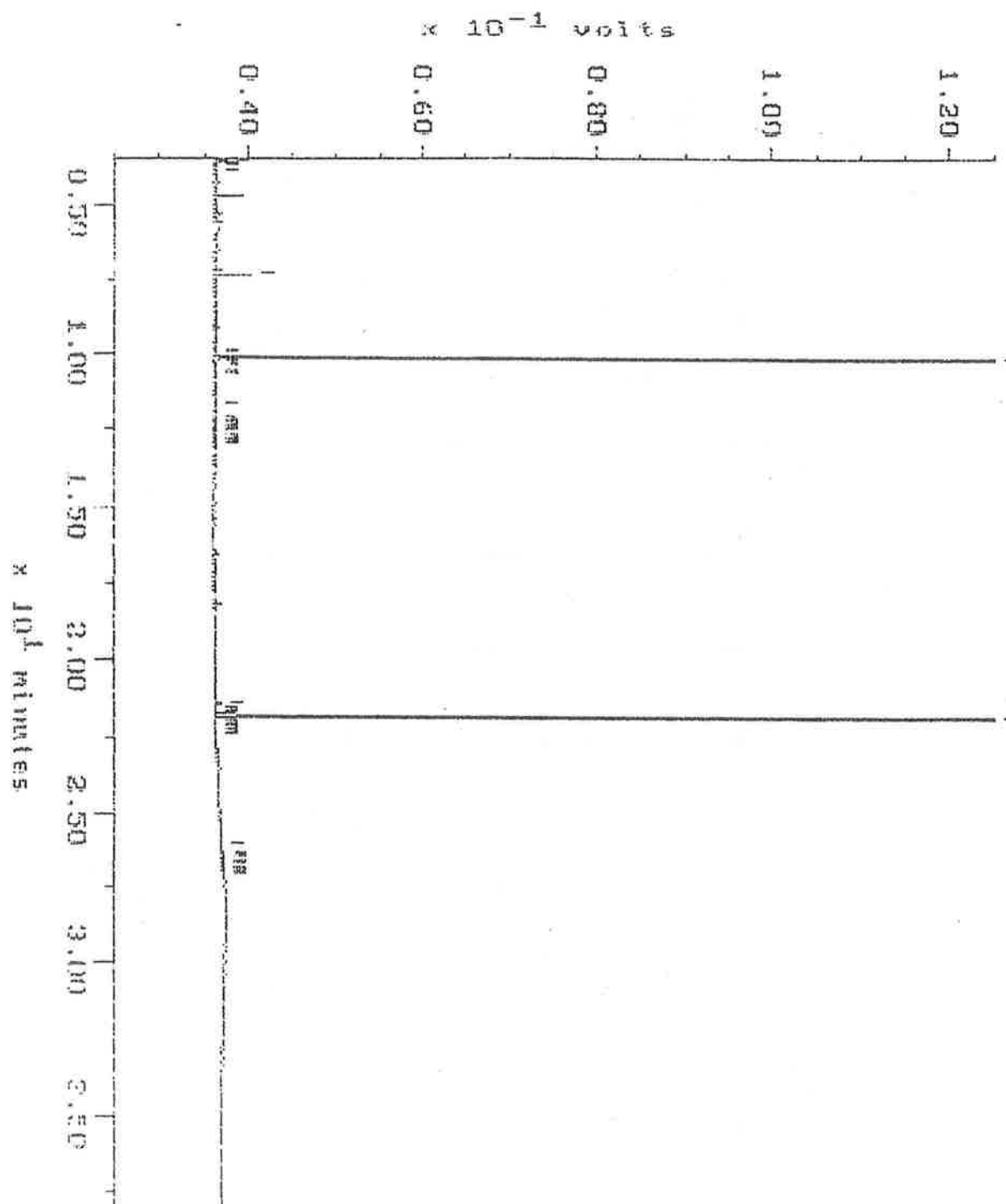


Blank

Sample: 388 12-18
Acquired: 19-DEC-92 2:47
Inj Vol: 1.20

Channel: GENITHI
Method: 9.13802\MAXDATA\SERGE-DW\FRL1218

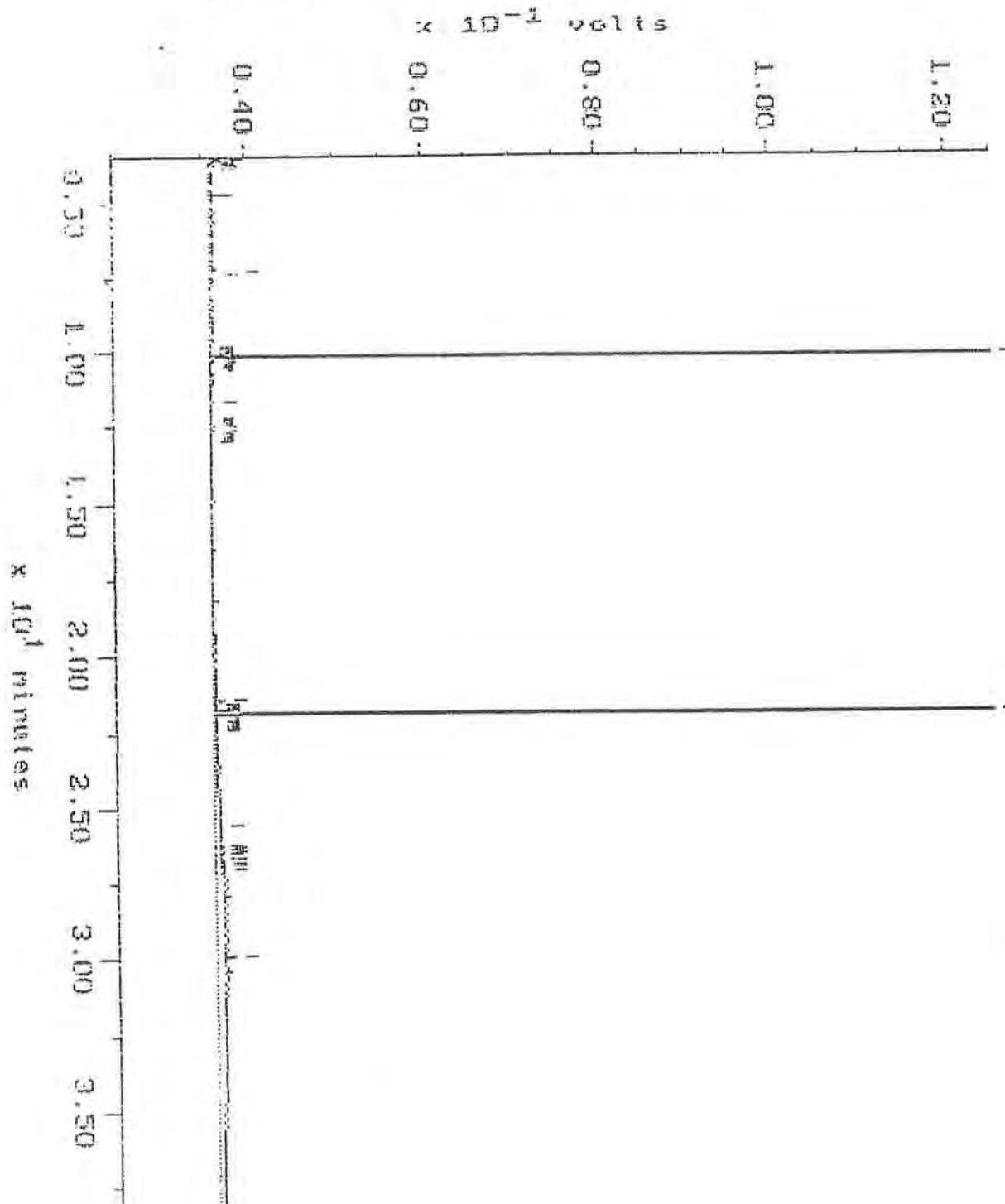
Filename: 1218016
Operator: AFI



Sample: 9412-123-1
 Acquired: 19-DEC-92 0:18
 Inj Vol: 1.00

Channel: DEM101
 Method: H:\BRO2\MAXDATA\BARGE-D\FUEL1213

Filename: 1213013
 Operator: AFI



WA DOE WTPH-D

Sample: 9212-123-2

Channel: CENITRI

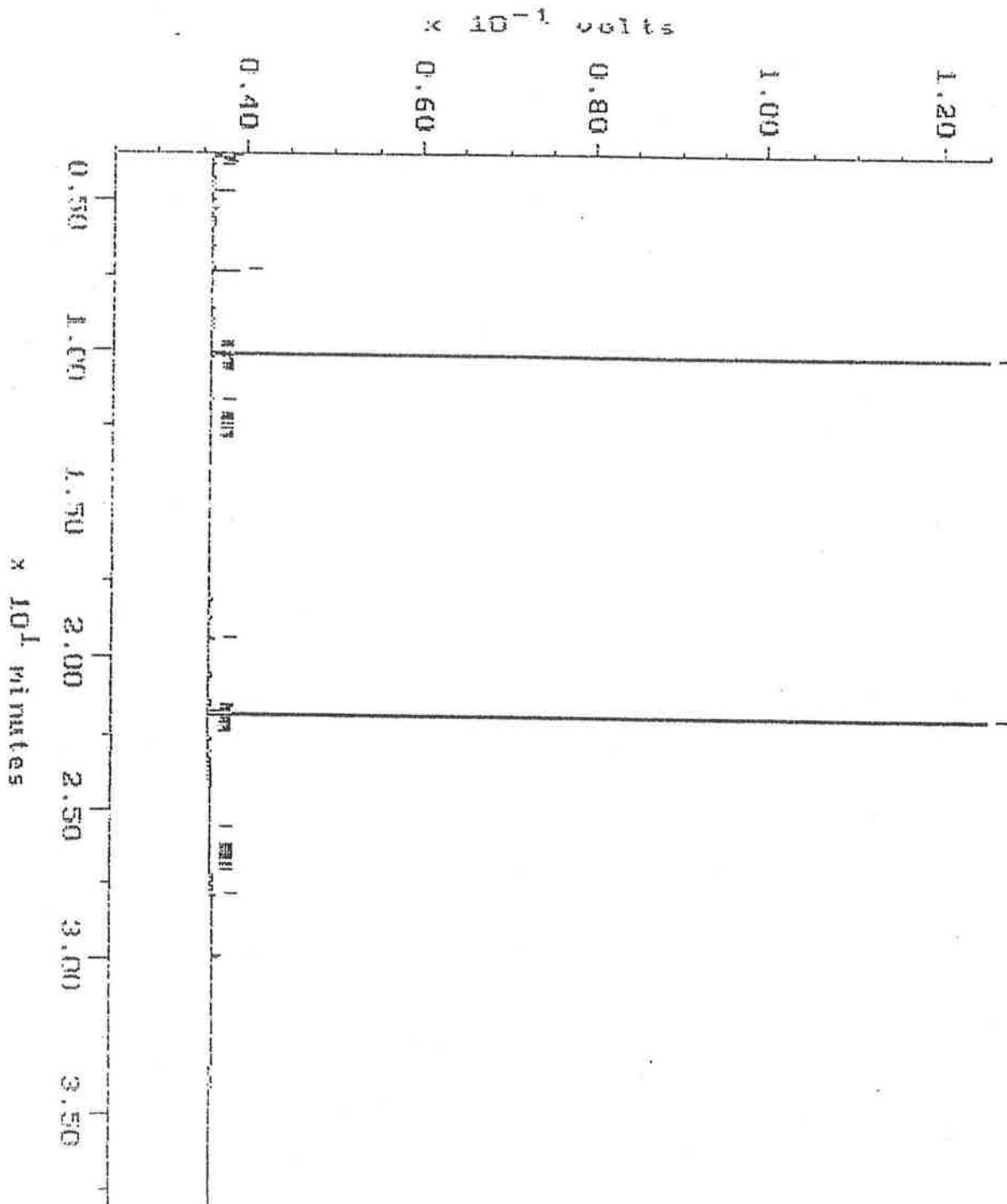
Filename: 12180002

Acquired: 19-DEC-92 8:19

Method: 9:\BROE\MAXDATA\SERIES-D\FK21218

Operator: AFI

Inj Vol: 1.00

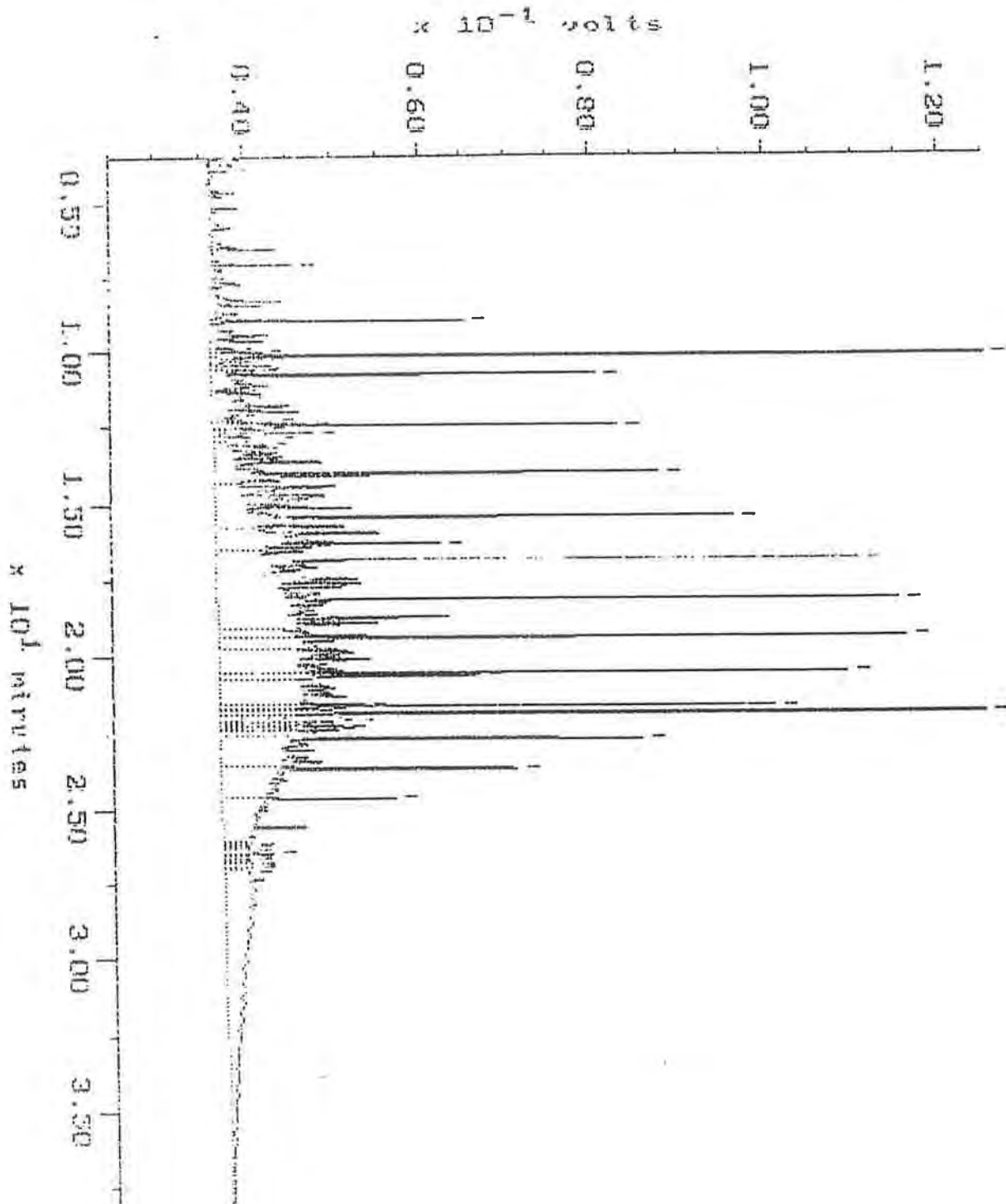


Continuing Calibration

Sample: 0100
Acquired: 11/11/84 8:16
Inj Vol: 1.00

Channel: DEM101
Method: M:\BIO\DATA\AVERAGE-DAT\GL1213

Filename: 12180014
Operator: A11

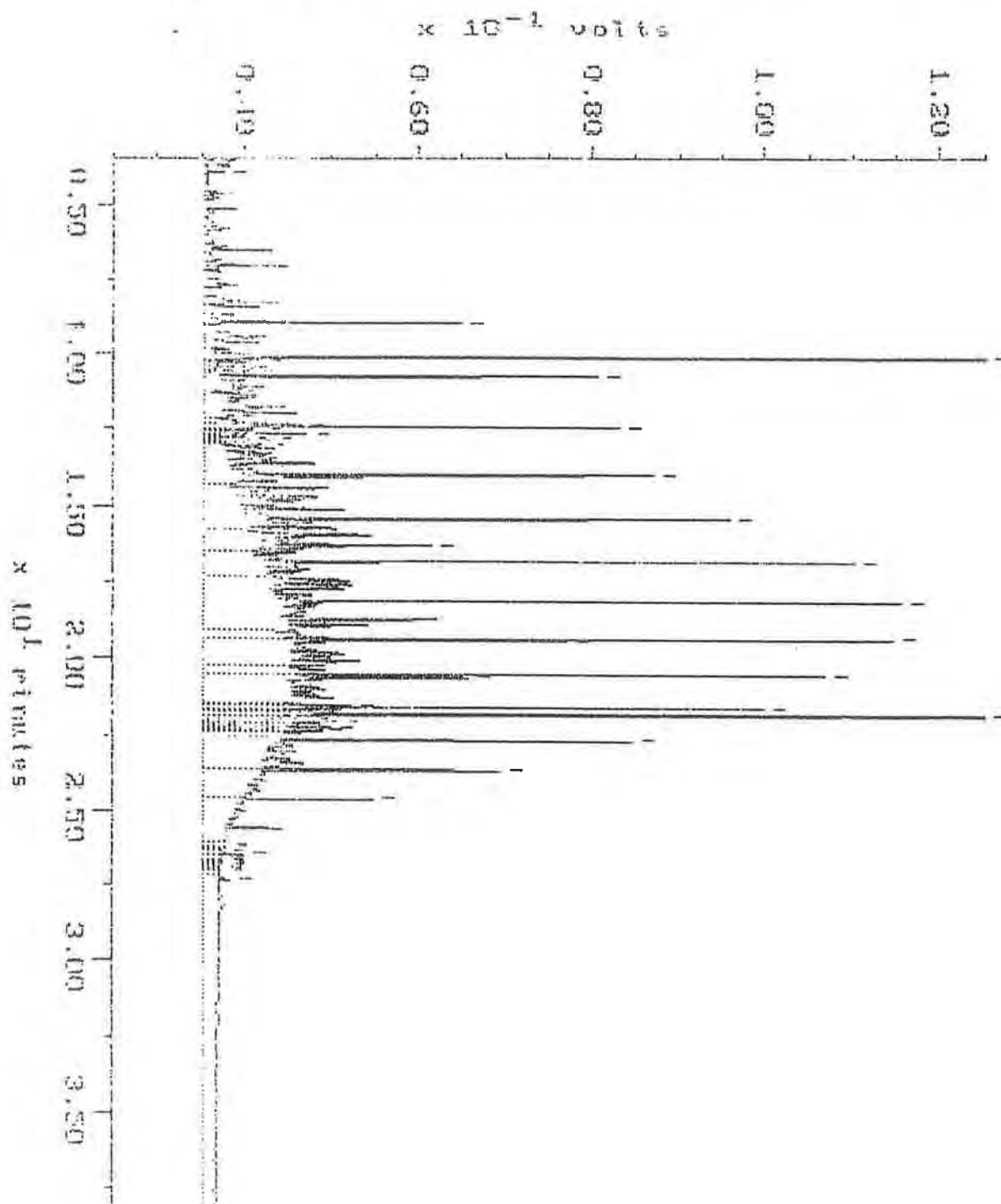


Continuing Calibration

Sample: 1000
Acquired: 12-15-92 18:10
Inj Vol: 1.00

Channel: SEM101
Method: AMERICA/MAXDATA/MS-POWER/1218

Filename: 12180035
Operator: Rfl

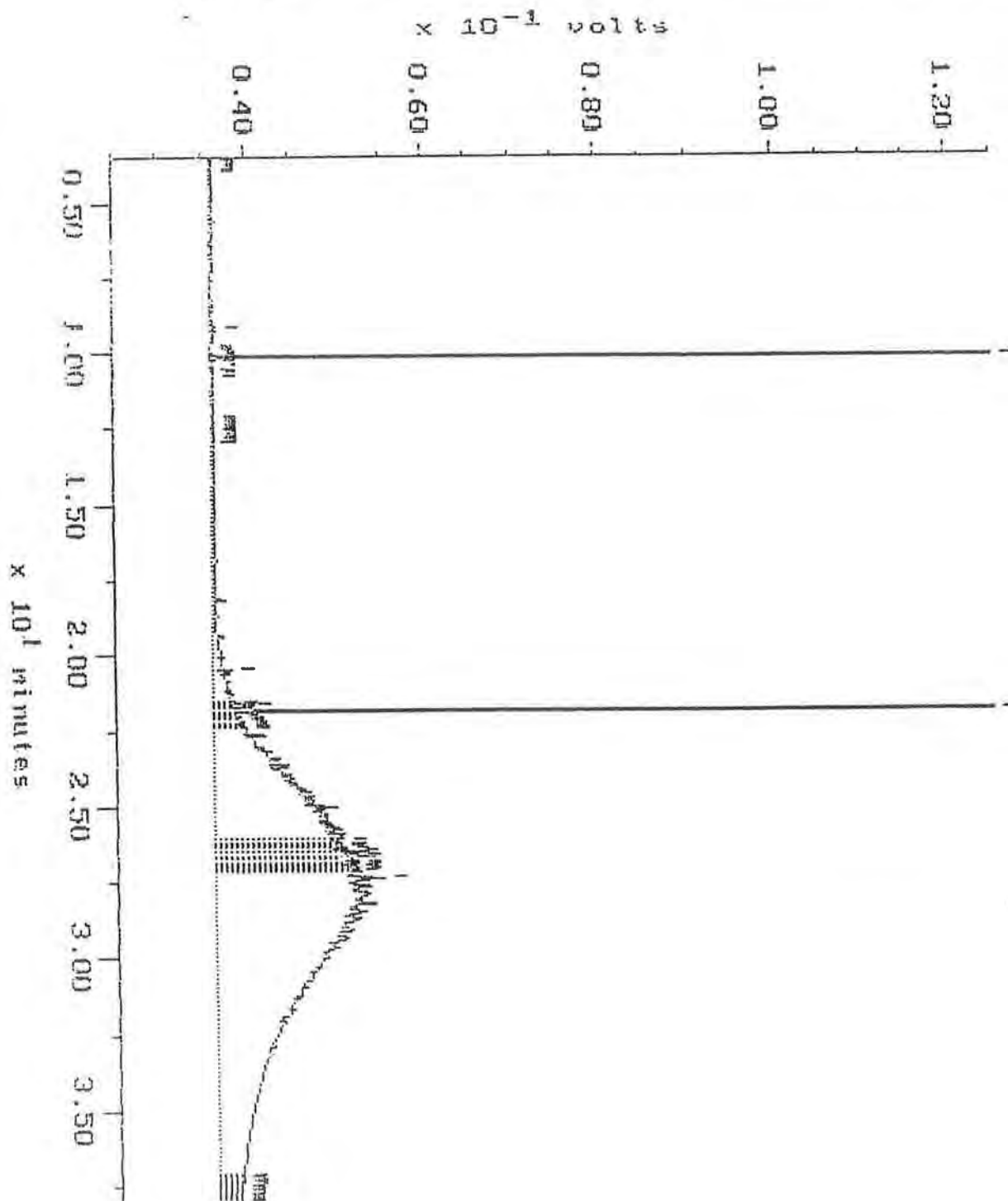


Continuing Calibration

Sample: M0508
Acquired: 19-DEC-92 3:01
Inj Vol: 1.00

Channel: DENITRI
Method: H:\PRO2\MAXDATA\SERGE-D\FUEL1218

Filename: 12183015
Operator: ATZ

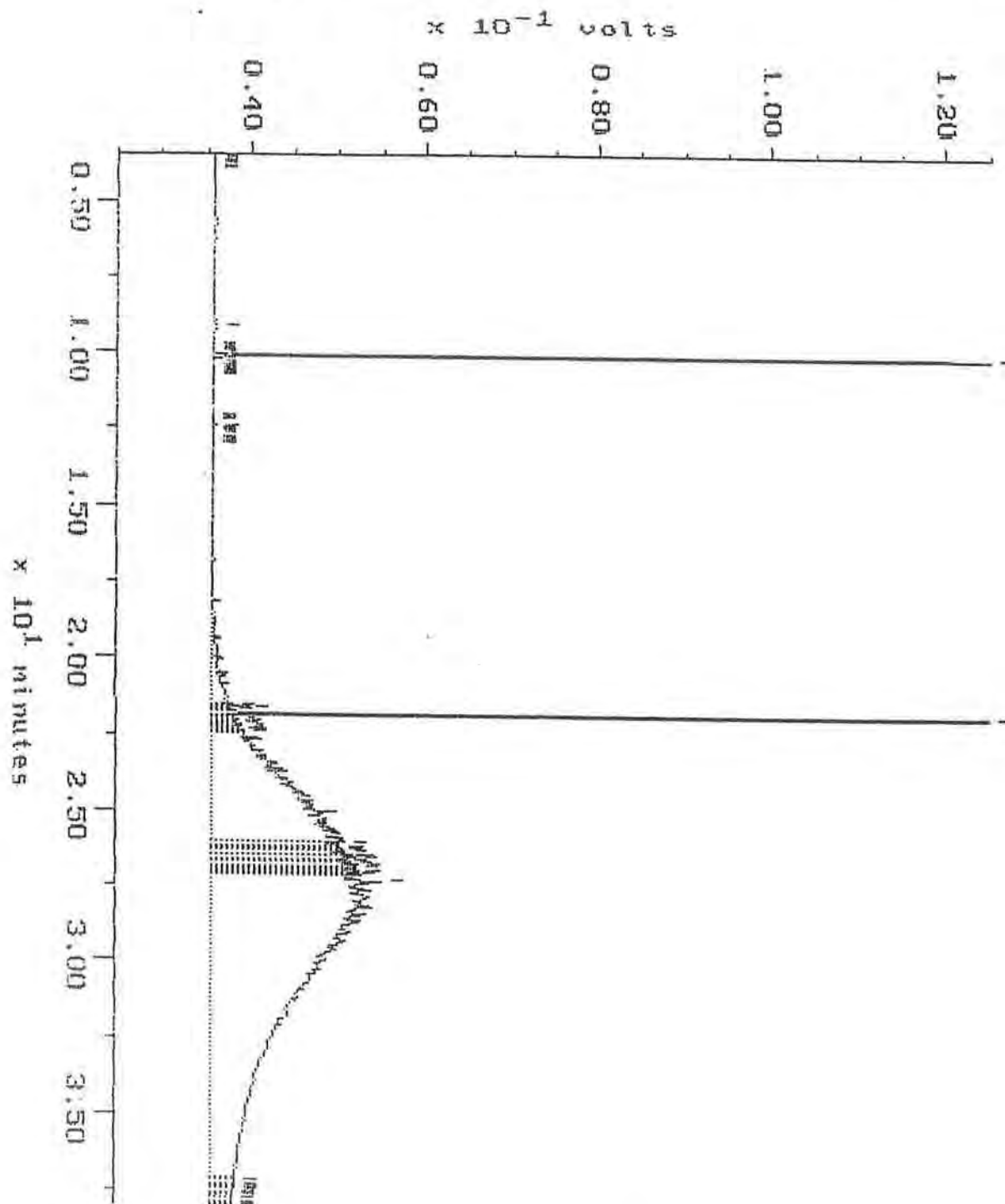


Continuing Calibration

Sample: M0592
Acquired: 12-DEC-92 19:55
Inj Vol: 1.90

Channel: DEMITRI
Method: H:\3802\MAXDATA\SERGE-D\FUEL1218

Filename: 12183036
Operator: AT1





Analytical Technologies, Inc.

560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

Chain of Custody

LABORATORY NUMBER: 9212-123

DATE 12/17/99 PAGE 1 OF 1

PROJECT INFORMATION				SAMPLE RECEIPT		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:	
PROJECT NUMBER: 1-157-09-204		TOTAL NUMBER OF CONTAINERS 2		SIGNATURE: [Signature]		SIGNATURE: [Signature]		SIGNATURE: [Signature]		SIGNATURE: [Signature]	
PROJECT NAME: [Blank]		COC SEALS/INTACT? Y/N/A		DATE: 12/17/99		DATE: 12/17/99		DATE: 12/17/99		DATE: 12/17/99	
PURCHASE ORDER NUMBER: [Blank]		RECEIVED GOOD COND./COLD		PRINTED NAME: [Blank]		PRINTED NAME: [Blank]		PRINTED NAME: [Blank]		PRINTED NAME: [Blank]	
ONGOING PROJECT? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		RECEIVED VIA: [Blank]		COMPANY: [Blank]		COMPANY: [Blank]		COMPANY: [Blank]		COMPANY: [Blank]	
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS											
TAT: (NORMAL) <input type="checkbox"/> 2WKS (RUSH) <input type="checkbox"/> 24HR <input type="checkbox"/> 48 HRS <input type="checkbox"/> 72 HRS <input type="checkbox"/> 1 WK											
GREATER THAN 24 HR. NOTICE? YES <input type="checkbox"/> NO <input type="checkbox"/> (LAB USE ONLY)											
SPECIAL INSTRUCTIONS: [Blank]											

ANALYSIS REQUEST																														
SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	8020 BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	8080 PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAHHH (WAC 173)	418.1 (TPH)	413.2 Grease & Oil	8015 (Modified)	TOC 9060	TOX 9020	% Moisture	EP TOX Metals (6) EP EXT	Priority Pollutant Metals (13)	8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (6)	NUMBER OF CONTAINERS	
1	12/17/99	11:00	1	1																										1
2	12/17/99	14:50	2	2																										1



Analytical Technologies, Inc.

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John H. Taylor, Jr., Laboratory Manager
Frederick W. Grothkopp, Technical Director

ATI I.D. # 9212-048

December 23, 1992

GeoEngineers

DEC 23 1992

Routing

File

GeoEngineers, Inc.
8410 154th Ave. N.E.
Redmond, WA 98052

Attention : Don Hanson

Project Number : 1957-009-R04

Project Name : Time Oil Jackpot

On December 9, 1992, Analytical Technologies, Inc., received three 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
Mary C. Silva
Senior Project Manager

MCS/hal/dmc

ATI I.D. # 9212-048

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9212-048-1	DSP-3	12/09/92	SOIL
9212-048-2	CSP-1	12/09/92	SOIL
9212-048-3	CSP-2	12/09/92	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	3

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ATI I.D. # 9212-048

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ANALYSIS	TECHNIQUE	REFERENCE	LAB
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
MOISTURE	GRAVIMETRIC	CLP SOW ILM01.0	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract



ATI I.D. # 9212-048

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : N/A
PROJECT # : 1957-009-R04	DATE RECEIVED : N/A
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/10/92
CLIENT I.D. : METHOD BLANK	DATE ANALYZED : 12/11/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND	RESULT
FUEL HYDROCARBONS	<25
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
 FUEL HYDROCARBONS	 <100
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	73 50 - 150



ATI I.D. # 9212-048

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/16/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/16/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND

RESULT

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<25
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION

<100
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

81

50 - 150



ATI I.D. # 9212-048-1

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 12/09/92
PROJECT # : 1957-009-R04	DATE RECEIVED : 12/09/92
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/10/92
CLIENT I.D. : DSP-3	DATE ANALYZED : 12/11/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 200
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND	RESULT
FUEL HYDROCARBONS	5,900
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	37,000
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	128	50 - 150
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ATI I.D. # 9212-048-2

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/09/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/09/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/10/92
CLIENT I.D.	: CSP-1	DATE ANALYZED	: 12/11/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND	RESULT
FUEL HYDROCARBONS	<30
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<120
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	83 50 - 150

ATI I.D. # 9212-048-3

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/09/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/09/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/16/92
CLIENT I.D.	: CSP-2	DATE ANALYZED	: 12/16/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDRESULT

FUEL HYDROCARBONS	55
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	470
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	95	50 - 150
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ATI I.D. # 9212-048

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: N/A
CLIENT I.D.	: 500 PPM CCV	DATE ANALYZED	: 12/11/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND	% DIFFERENCE
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FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL	4
---	---

FUEL HYDROCARBONS QUANTITATED USING DIESEL	3
--	---

ATI I.D. # 9212-048

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : N/A
PROJECT # : 1957-009-R04	DATE RECEIVED : N/A
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : N/A
CLIENT I.D. : 500 PPM CCV	DATE ANALYZED : 12/15/92
SAMPLE MATRIX : WATER	UNITS : %
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1

COMPOUND% DIFFERENCE

FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL 4

FUEL HYDROCARBONS QUANTITATED USING DIESEL 2

ATI I.D. # 9212-048

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: N/A
CLIENT I.D.	: 500 PPM CCV	DATE ANALYZED	: 12/16/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND	% DIFFERENCE
----------	--------------

FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL	9
---	---

FUEL HYDROCARBONS QUANTITATED USING DIESEL	2
--	---



ATI I.D. # 9212-048

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : 9212-054-3
DATE EXTRACTED : 12/10/92
DATE ANALYZED : 12/11/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	<25	NC	200	181	91	179	90	1
	CONTROL LIMITS					% REC.			RPD
DIESEL						63 - 131			20
	SURROGATE RECOVERIES			SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL				87		86		50 - 150	

NC = Not Calculable.

ATI I.D. # 9212-048

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-097-1
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/16/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/16/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	47	54	14	200	231	92	237	95	3
	CONTROL LIMITS					% REC.			RPD
DIESEL						63 - 131			20
	SURROGATE RECOVERIES			SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL				85		81		50 - 150	

ATI I.D. # 9212-048

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/10/92
DATE ANALYZED : 12/11/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	200	180	90	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		87		N/A		50 - 150	

ATI I.D. # 9212-048

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: BLANK SPIKE
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/16/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/16/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	200	185	93	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		85		N/A		50 - 150	

ATI I.D. # 9212-048

GENERAL CHEMISTRY ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

PARAMETER DATE ANALYZED

MOISTURE (SAMPLES -1 12/10/92
AND -2)

MOISTURE (SAMPLE -3) 12/16/92



Analytical Technologies, Inc.

ATI I.D. # 9212-048

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

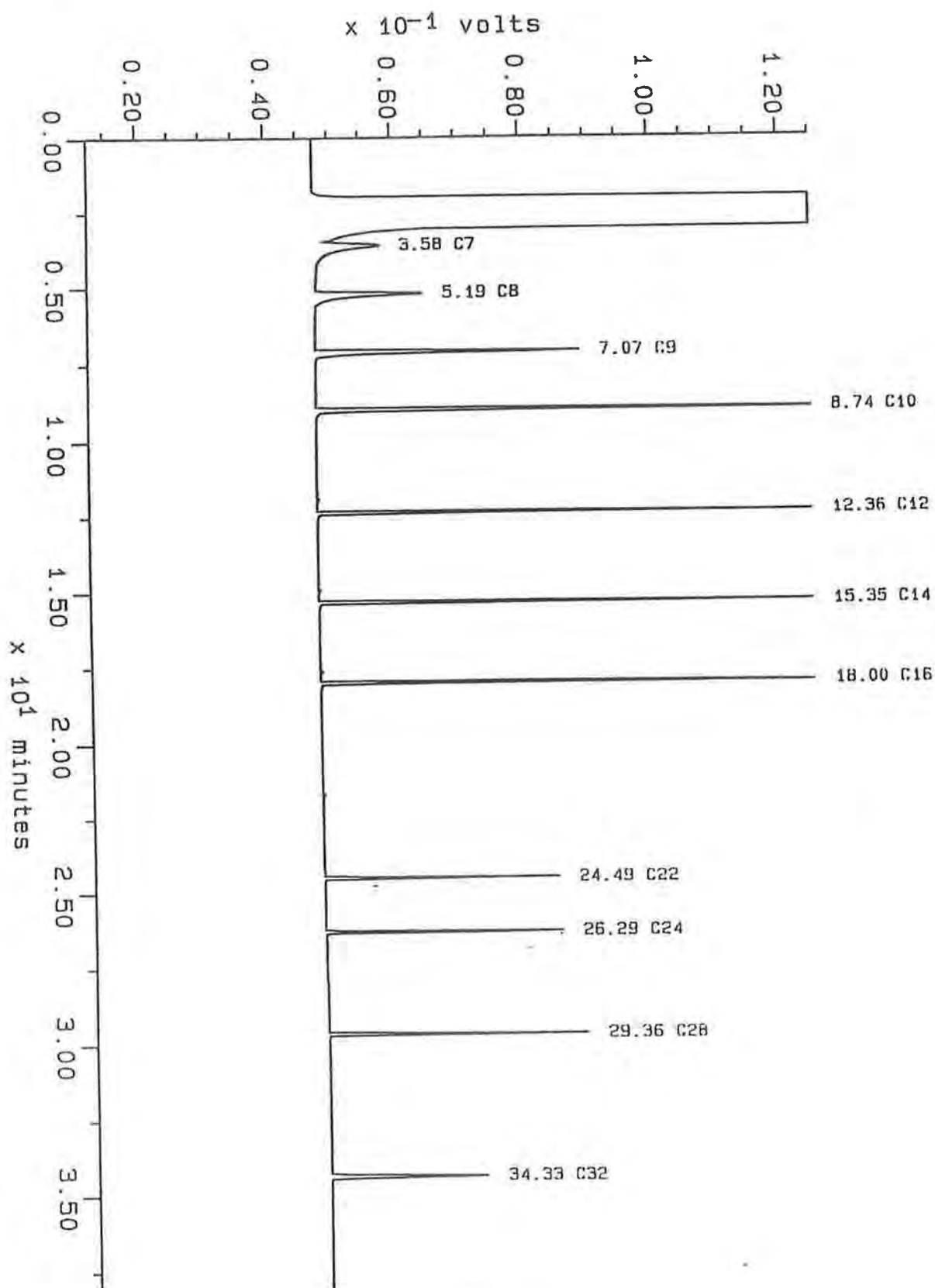
ATI I.D. #	CLIENT I.D.	MOISTURE
9212-048-1	DSP-3	7.2
9212-048-2	CSP-1	16
9212-048-3	CSP-2	8.4

Alkane

Sample: ALKANE
Acquired: CLOCK NOT SET
Inj Vol: 1.00

Channel: CLARENCE
Method: H: \BR02\MAXDATA\SERGE-C\FUEL1008

Filename: 1008SC40
Operator: ATI

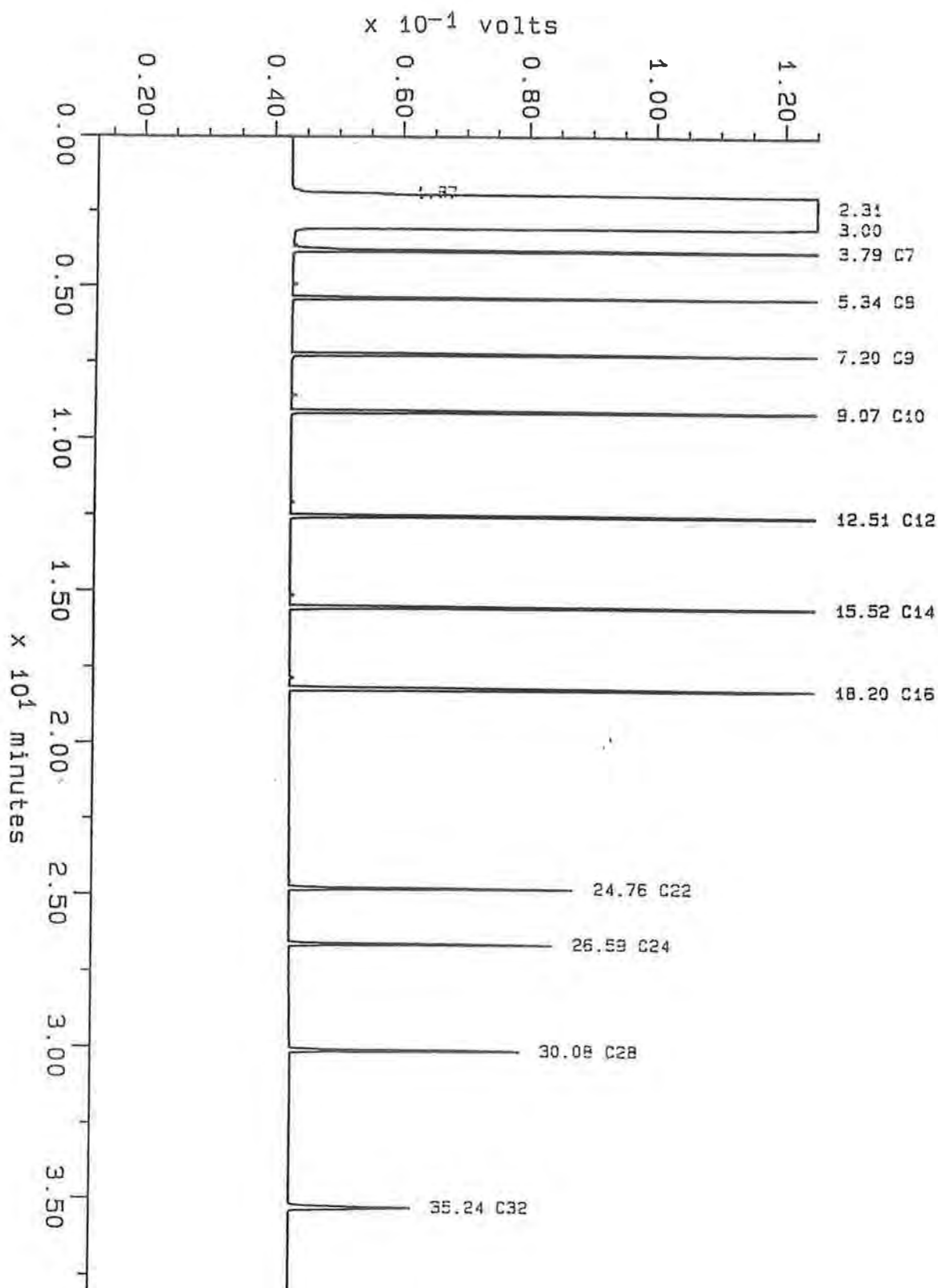


Alkane

Sample: ALKANE
Acquired: 02-NOV-92 12:49
Inj Vol: 1.00

Channel: DEMITRI
Method: L:\BR02\MAXDATA\SERGE-D\FUEL0902

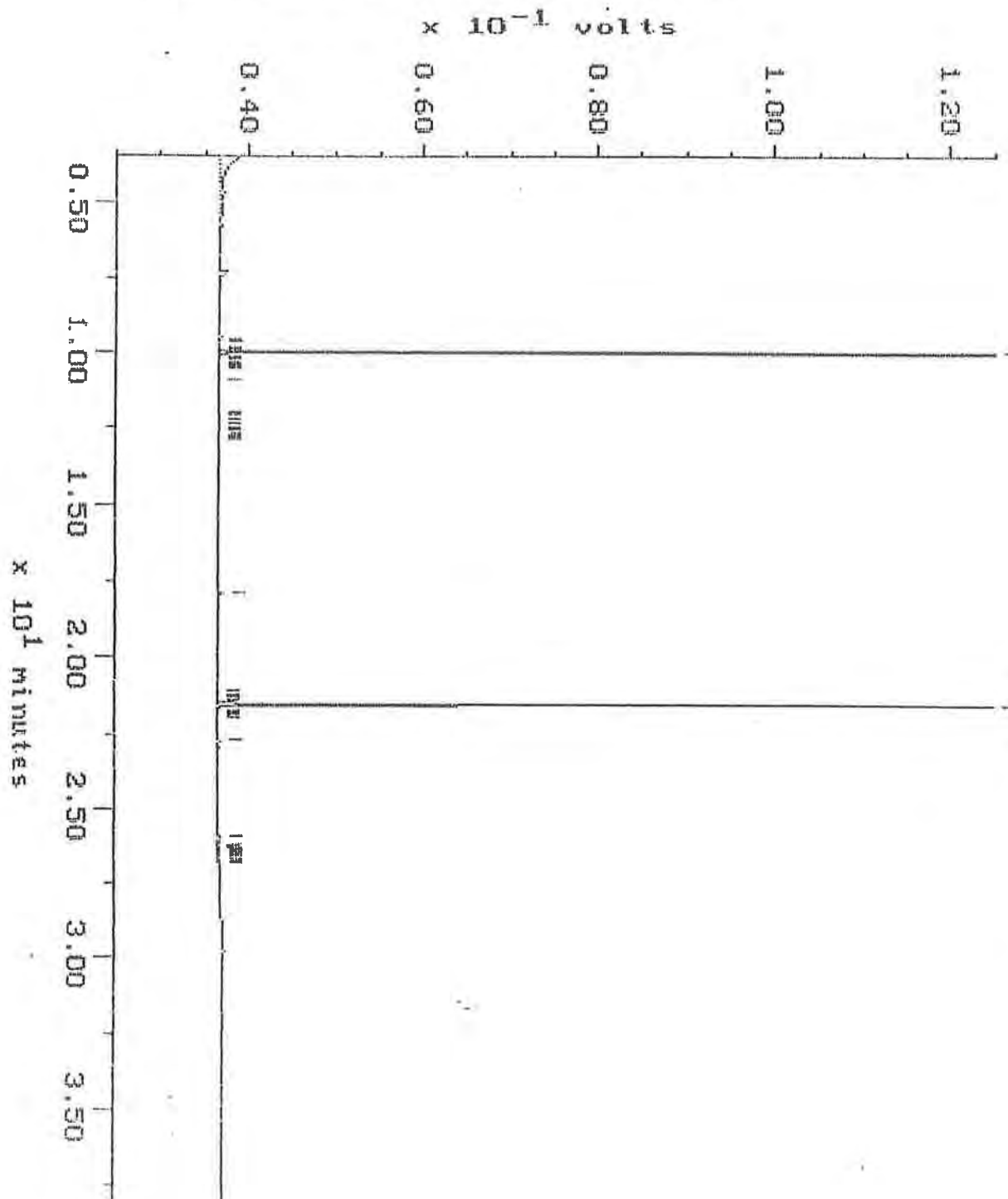
Filename: 1102SD02
Operator: ATI



Sample: SRB 12-10 Channel: CLARENCE
Acquired: 11-DEC-92 13:34 Method: H:\BRO2\MAXDATA\SERGE-CV\FUEL1211
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 1211SC02
Operator: AFI

Blank

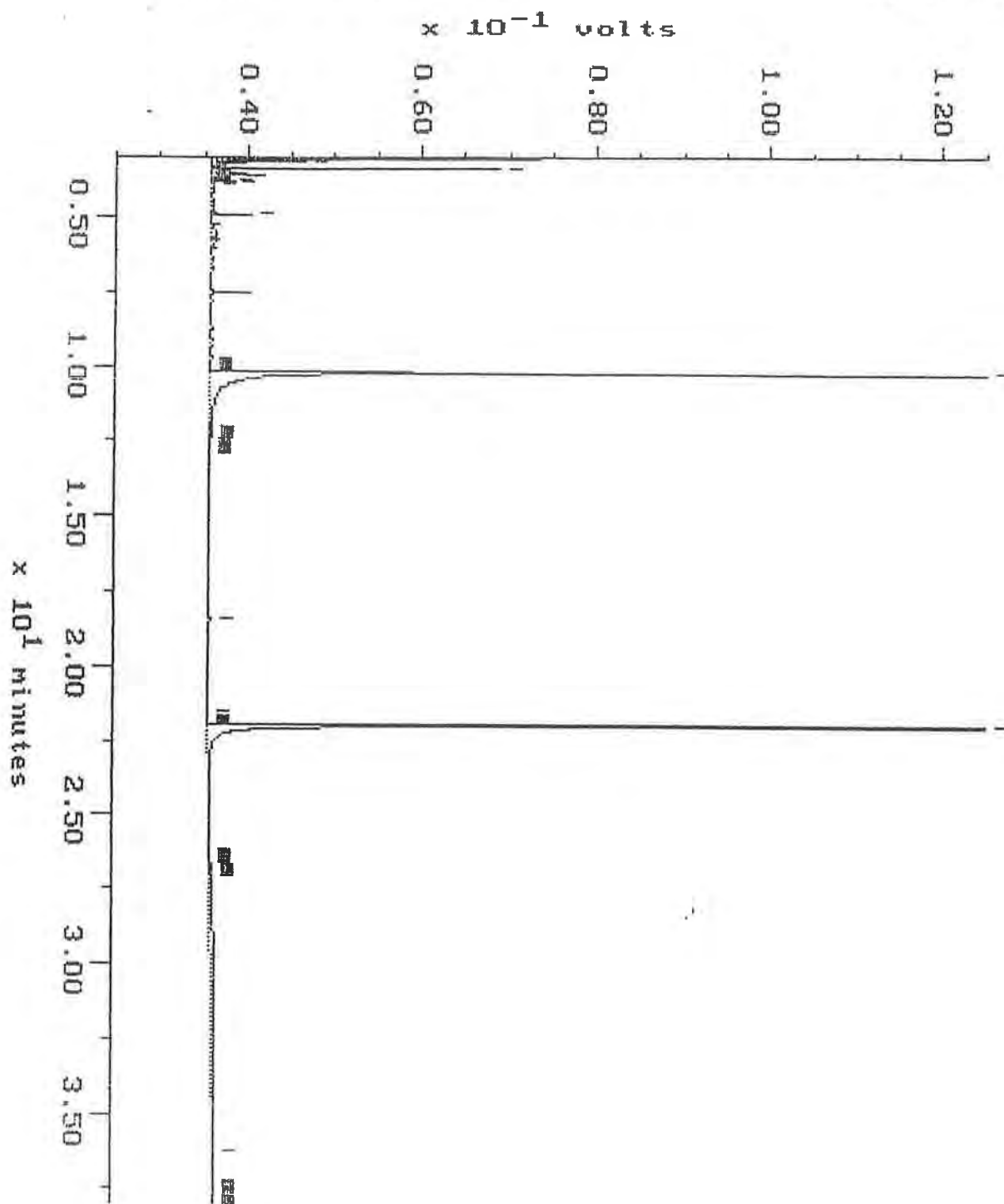


Sample: SRB12-10
Acquired: 11-DEC-92 15:07

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1211

Filename: 1211SD05
Operator: ATI

Blank



Sample: D500
Acquired: 11-DEC-92 20:31
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

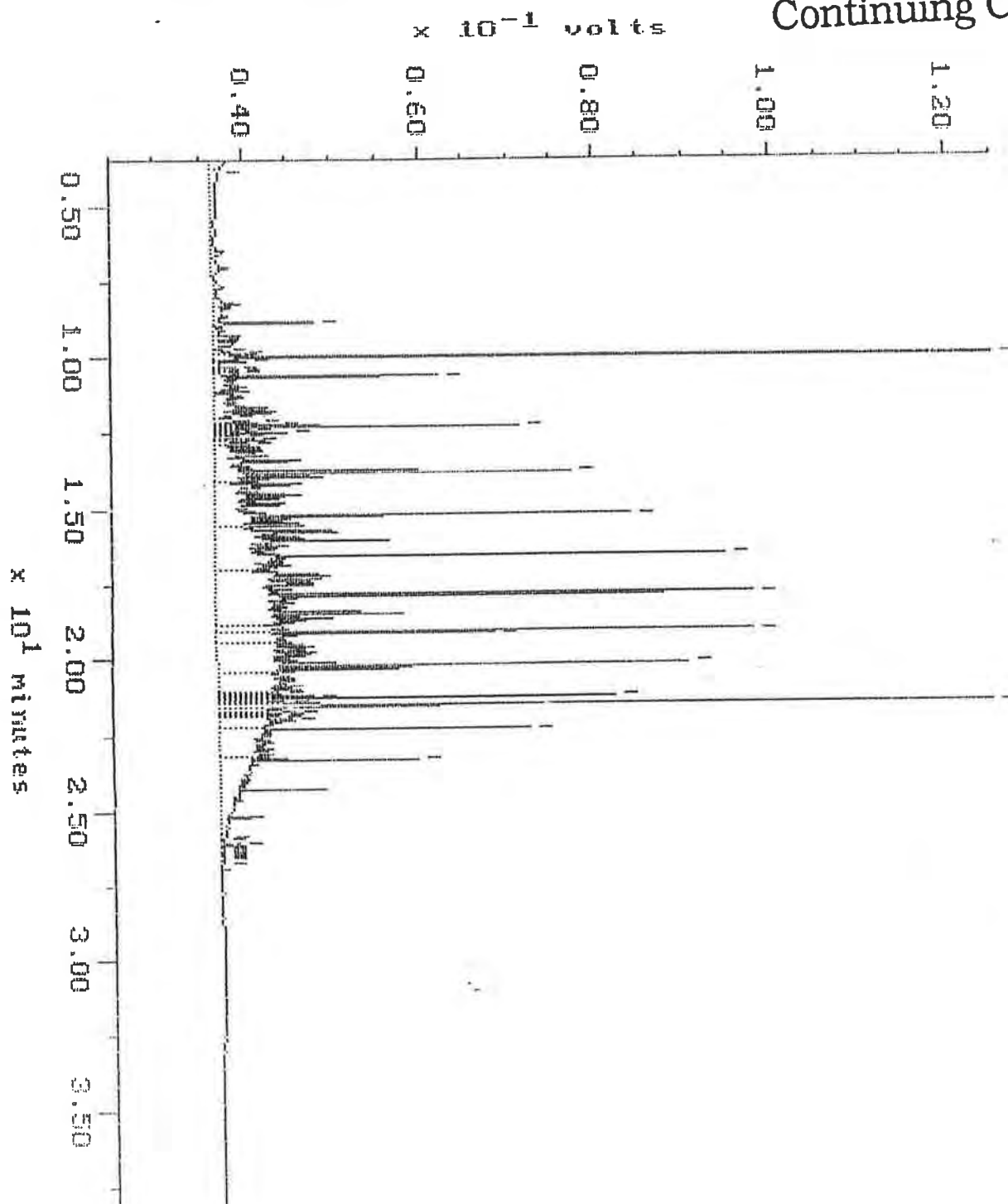
Channel: CLARENCE

Method: H:\BRO2\MAXDATA\SENSE-CN\FUEL1211

Filename: 1211SC11

Operator: ATI

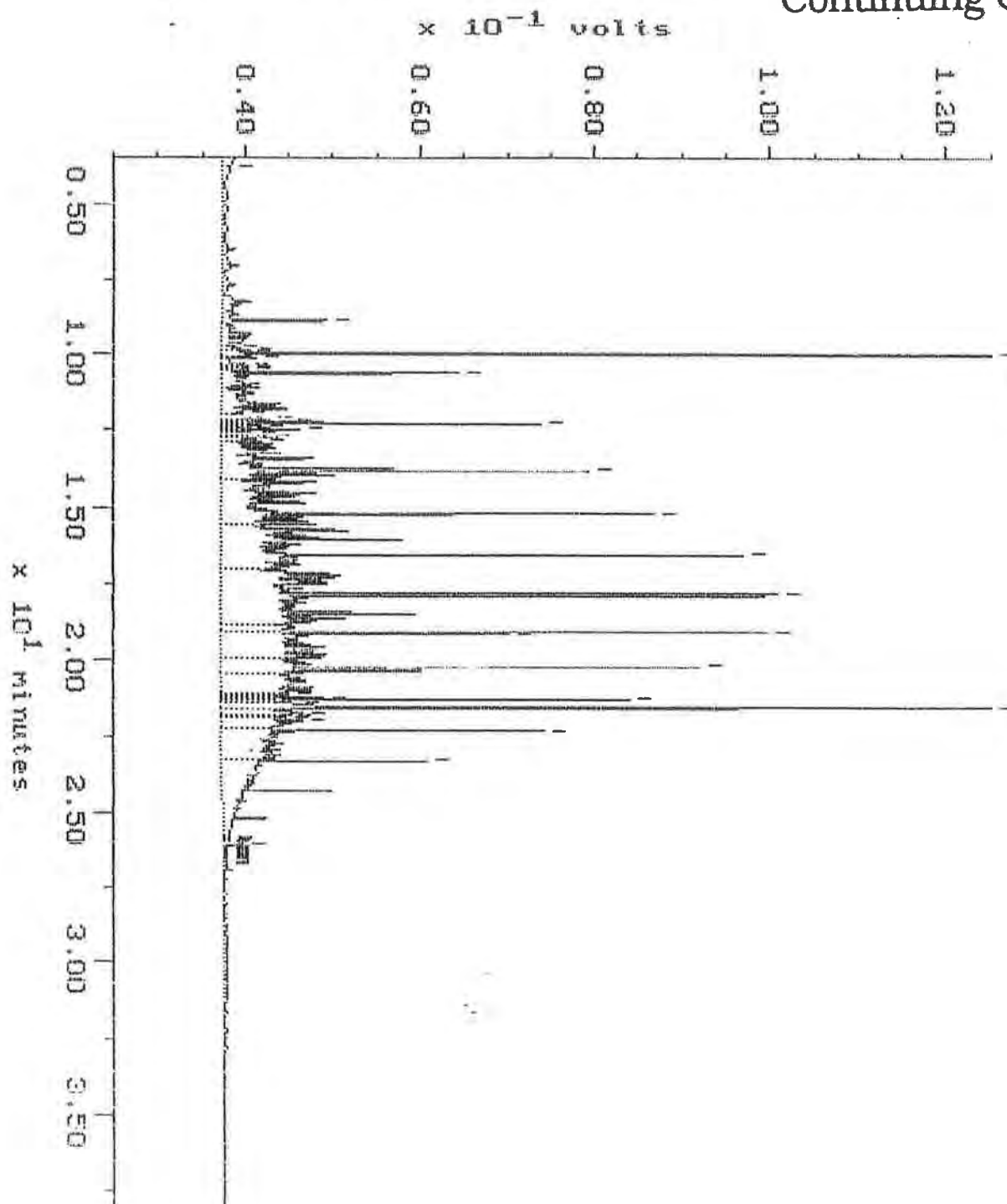
Continuing Calibration

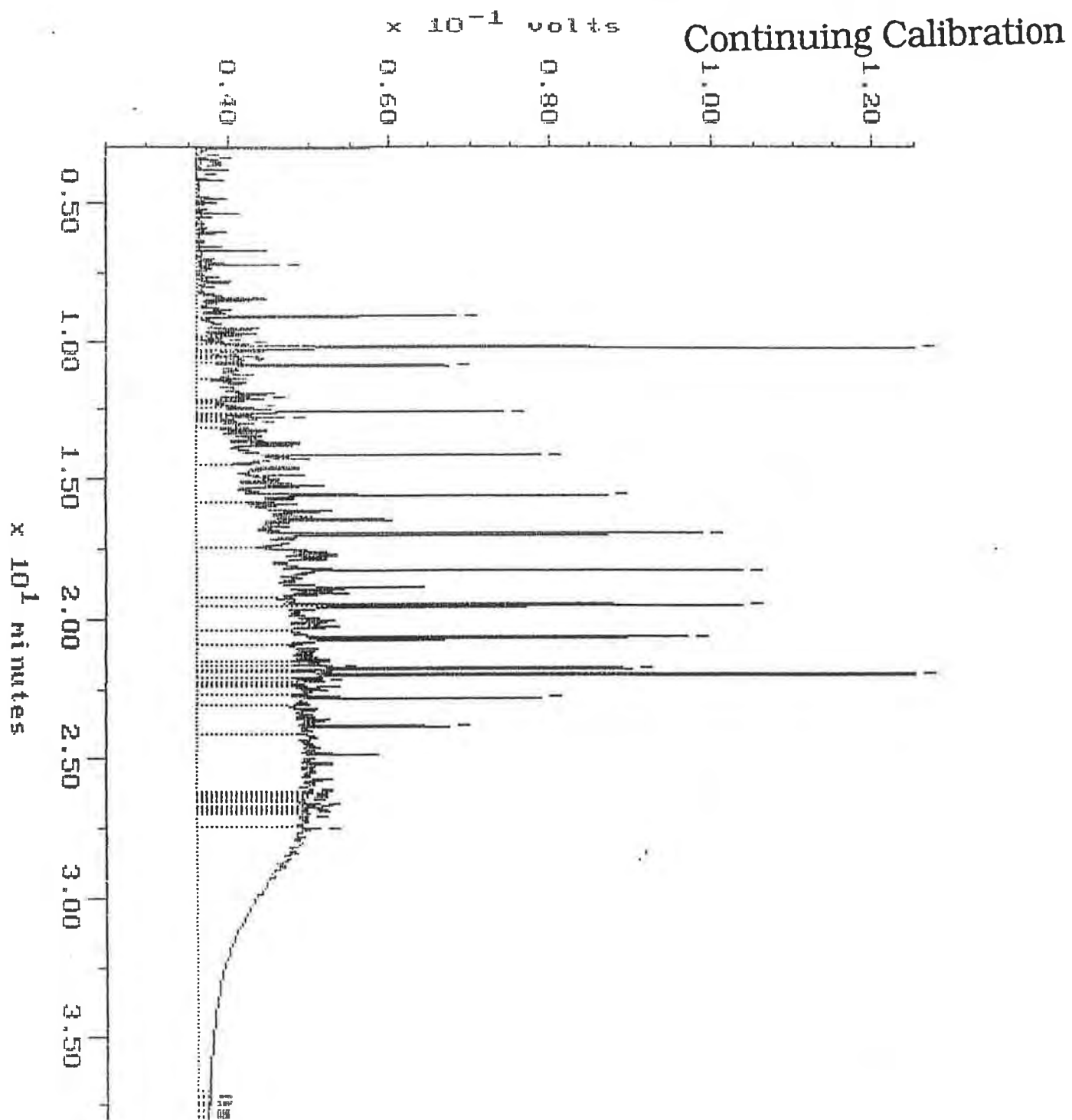


Sample: D300 Channel: CLARENCE
Acquired: 11-DEC-92 10:35 Method: H:\BRO2\MAXDATA\SENSE-CA\FUEL1211
Inj Vol: 1.00
Comments: ATL RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 1211001
Operator: AFI

Continuing Calibration

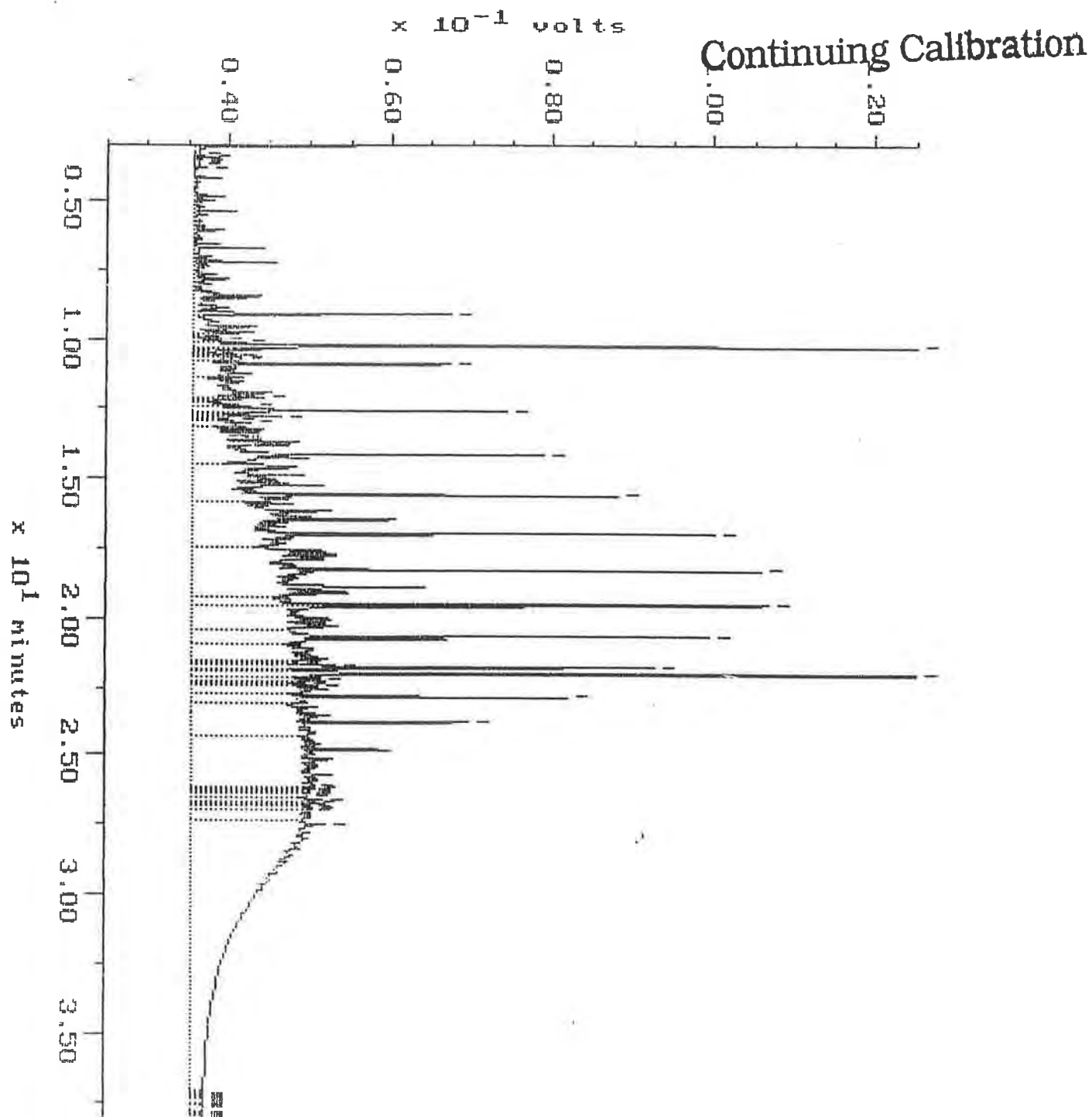




Sample: DM 530
Acquired: 11-DEC-92 18:12

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1211

Filename: 1211SD09
Operator: ATI

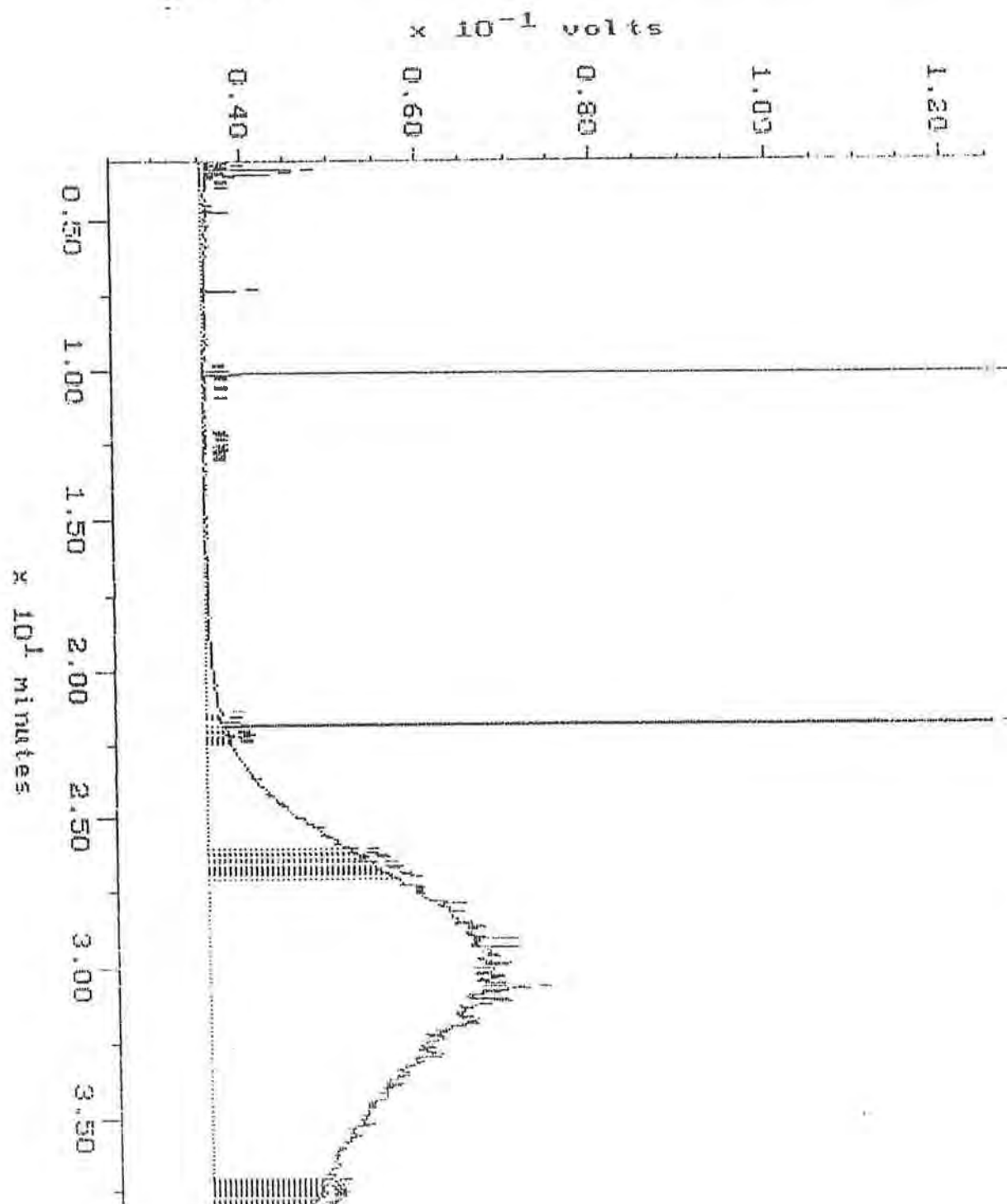


WA DOE WTPH-D

Sample: 9212-048-3
Acquired: 16-DEC-92 19:24
Inj Vol: 1.00

Channel: DEMIRM
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1216

Filename: 12160604
Operator: AFI

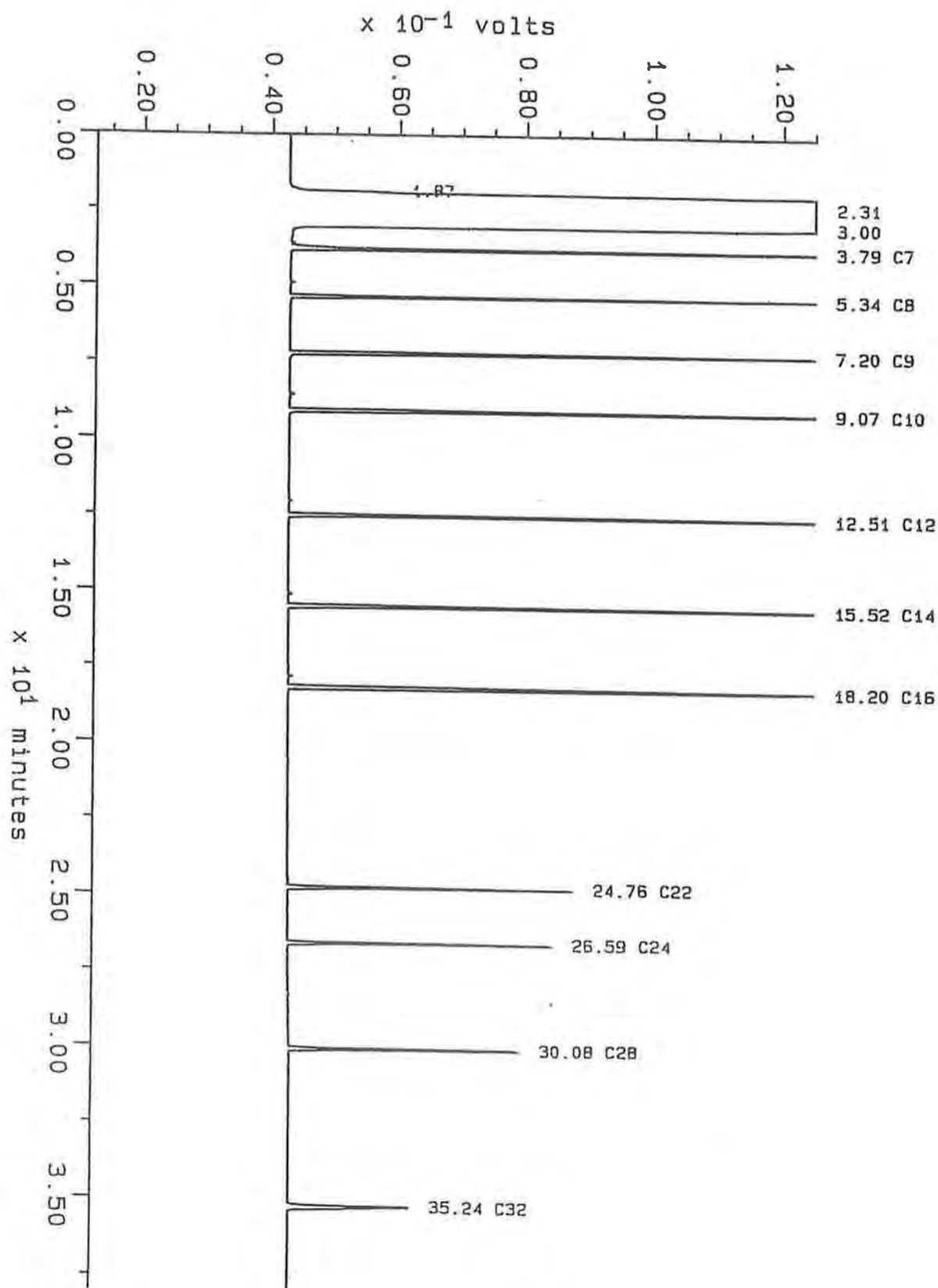


Alkane

Sample: ALKANE
Acquired: 02-NOV-92 12:49
Inj Vol: 1.00

Channel: DFMITRI
Method: L:\BR02\MAXDATA\SERGE-D\FUEL0902

Filename: 1102SD02
Operator: ATI

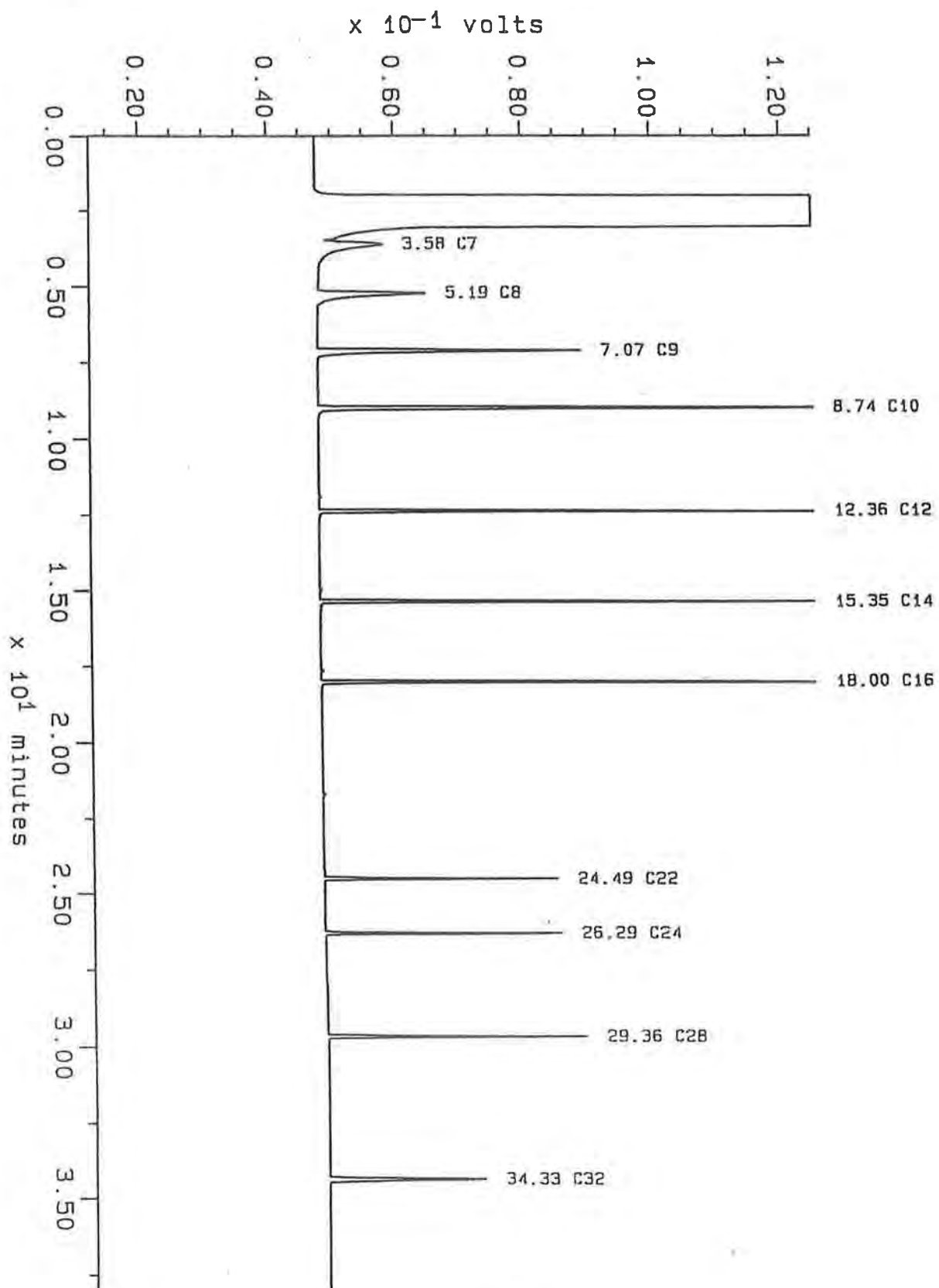


Alkane

Sample: ALKANF
Acquired: CLOCK NOT SET
Inj Vol: 1.00

Channel: CLARENCE
Method: H: \BRO2\MAXDATA\SERGE-C\FUEL1009

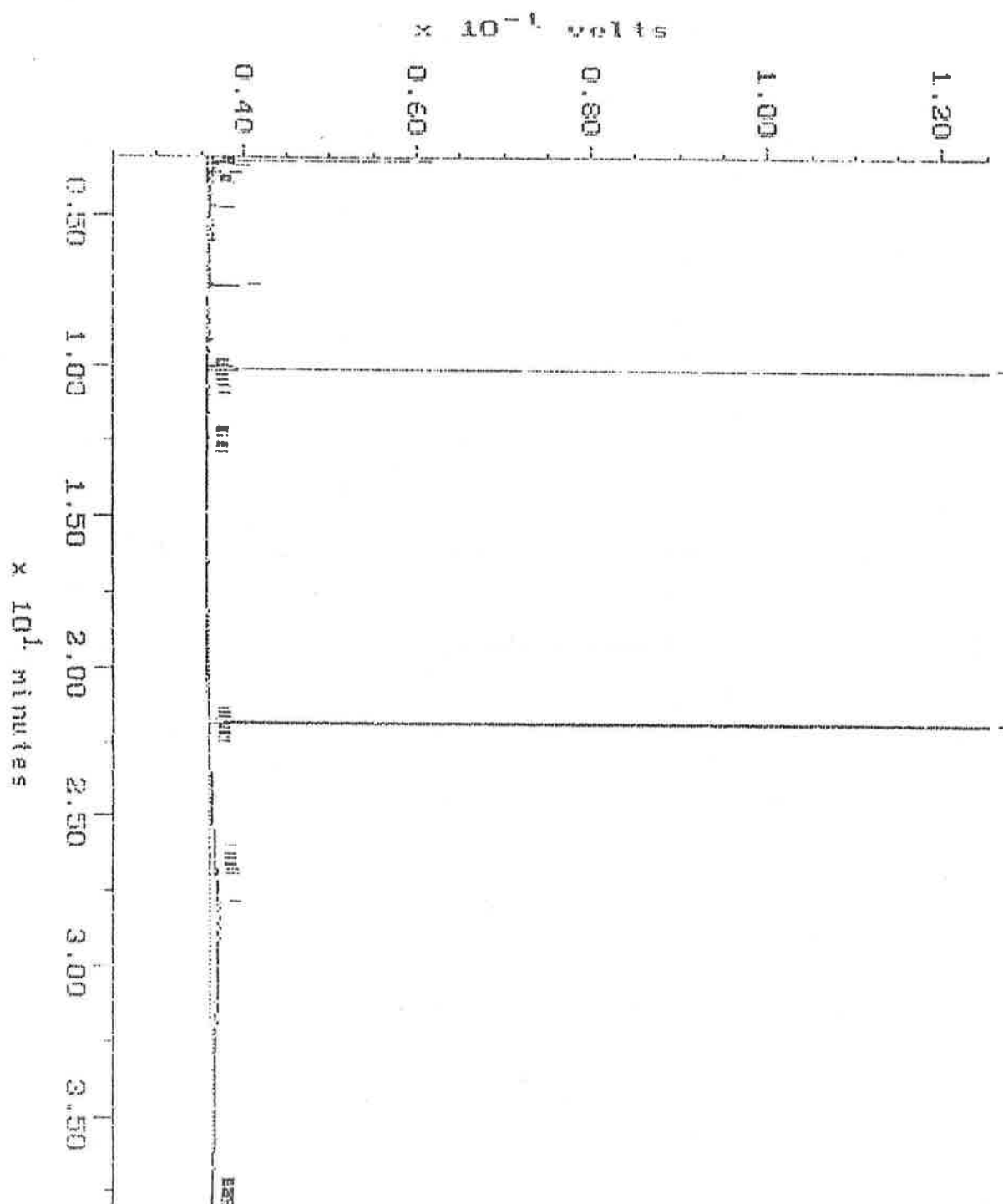
Filename: 1008SC40
Operator: ATI



Sample: GRB 12 16
Acquired: 16-DEC-92 18:37
Inj Vol: 1.00

Channel: DEMIRI
Method: H:\8802\MAXDATA\SERIAL-DATA\1216

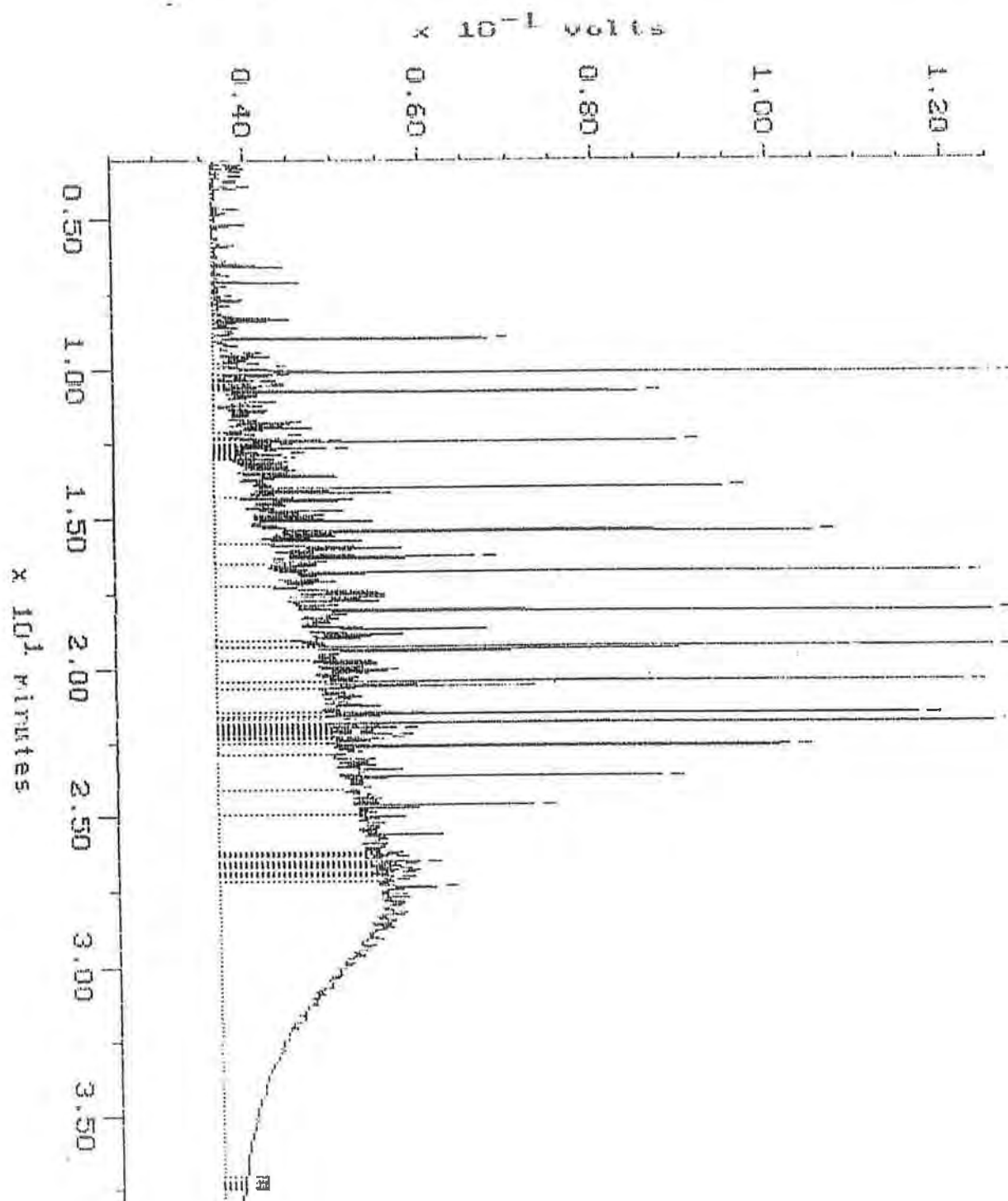
Filename: 12163003
Operator: AII



Sample: DMSO
Acquired: 16-DEC-92 17:50
Inj Vol: 1.00

Channel: GEMITRI
Method: H:\BR02\MAXDATA\3LRCG-DV\FUEL1216

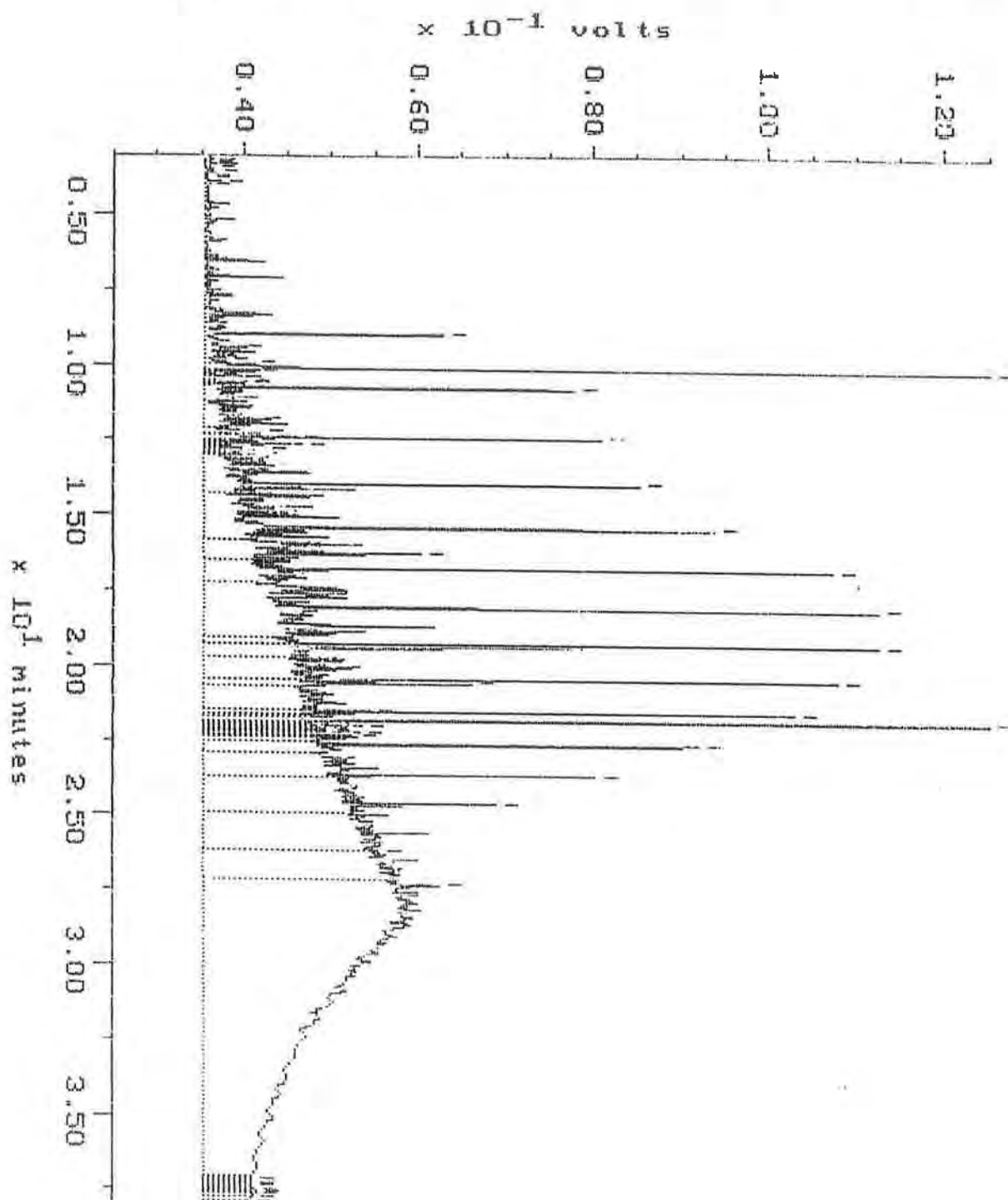
Filename: 12160002
Operator: AFI



Sample: DM339
Acquired: 16-DEC-92 20:11
Inj Vol: 1.00

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1216

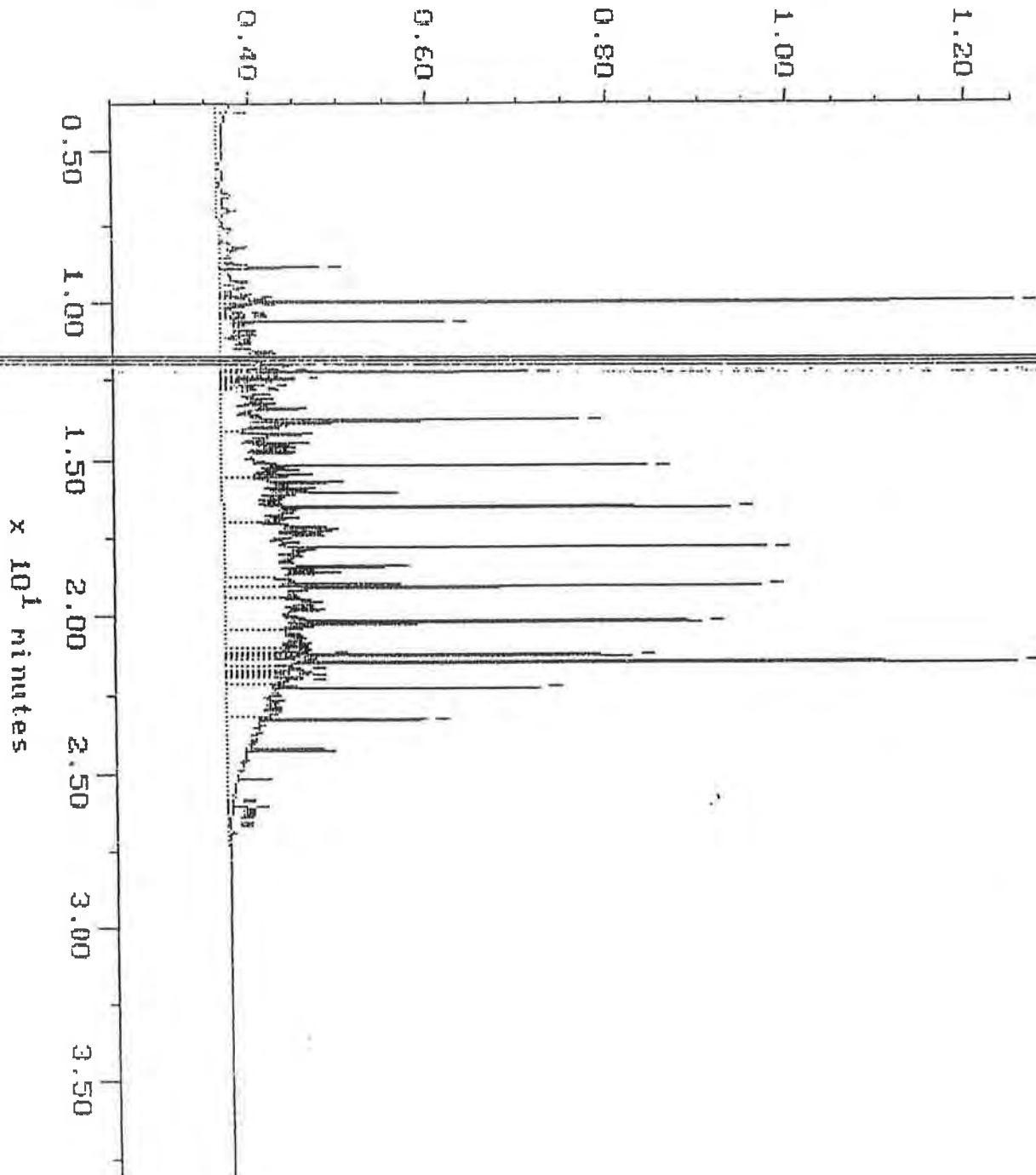
Filename: 12165005
Operator: AII



Sample: D-520 Channel: CLARENCE
Acquired: 15-DEC-92 9:24 Method: H:\BRO2\MAXDATA\SERGE-C\FUEL1215 File: 1215SC01
Inj Vol: 1.00 Operator: ATI
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Continuing Calibration

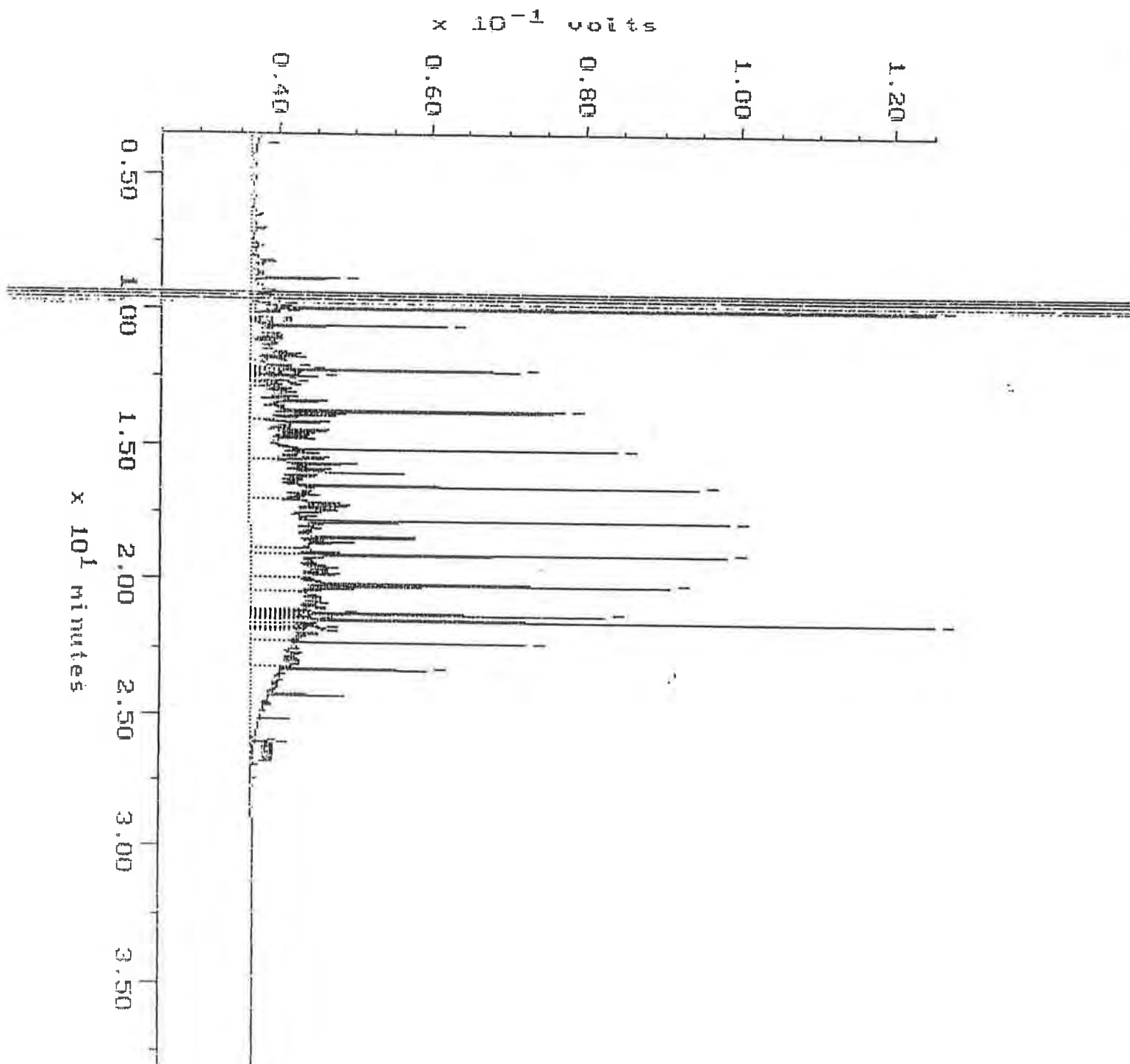
$\times 10^{-1}$ volts



Continuing Calibration

Sample: D 500
Acquired: 17-DEC-92 8:42
Inj Vol: 1.00
Channel: CLARENCE
Method: H:\BRO2\MAXDATA\SERGE-C\FUEL1215
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 1215SC50
Operator: ATI



Turnaround Time		Sample Receipt		Relinquished By:		Relinquished By:		Relinquished By:	
STANDARD TAT	DATE	TOTAL # CONTAINERS REC'D	DATE	DATE	DATE	DATE	DATE	DATE	DATE
1 WEEK TAT	12-1-12	3	12-1-12	12-1-12	12-1-12	12-1-12	12-1-12	12-1-12	12-1-12
4 WORK DAY TAT	12-4-12	NA	12-4-12	12-4-12	12-4-12	12-4-12	12-4-12	12-4-12	12-4-12
3 WORK DAY TAT	12-3-12	NA	12-3-12	12-3-12	12-3-12	12-3-12	12-3-12	12-3-12	12-3-12
2 WORK DAY TAT	12-2-12	NA	12-2-12	12-2-12	12-2-12	12-2-12	12-2-12	12-2-12	12-2-12
24 HOUR TAT	12-1-12	NA	12-1-12	12-1-12	12-1-12	12-1-12	12-1-12	12-1-12	12-1-12

FUELS		ORGANIC COMPOUNDS										METALS		TCLP		OTHER													
TPH-HCID	TPH-G	TPH-D (Excluded)	8015 modified	418.1	413.2	AK-GRO	AK-DRO	8240 GCMS Volatiles	8270 GCMS Semi-volatiles	8080 Pesticides/PCBs	PCB only (by 8080) STD/10 level	8010 Halogenated VOCs	8020 Aromatic VOCs	8310 HPLC PAHs	8040 Phenols	8140 OP Pesticides	8150 OC Herbicides	Metals (Indicate below *)	Total Lead	Priority Pollutant Metals (13)	TAL Metals (23)	TCLP-Volatiles (ZHE-8240)	TCLP-Semi-volatiles (8270)	TCLP-Pesticides (8080)	TCLP-Herbicides (8150)	TCLP-Metals (8 metals)	% Moisture (please indicate)	Total # of Containers/sample	
WA/OR	WA/OR	WA/OR	WA/OR	WA/OR	WA/OR	WA/OR	WA/OR																						
BETX/TPH-G combo	BETX (by 8020)	TPH-G	TPH-D (Excluded)	8015 modified	418.1	413.2	AK-GRO	AK-DRO	8240 GCMS Volatiles	8270 GCMS Semi-volatiles	8080 Pesticides/PCBs	PCB only (by 8080) STD/10 level	8010 Halogenated VOCs	8020 Aromatic VOCs	8310 HPLC PAHs	8040 Phenols	8140 OP Pesticides	8150 OC Herbicides	Metals (Indicate below *)	Total Lead	Priority Pollutant Metals (13)	TAL Metals (23)	TCLP-Volatiles (ZHE-8240)	TCLP-Semi-volatiles (8270)	TCLP-Pesticides (8080)	TCLP-Herbicides (8150)	TCLP-Metals (8 metals)	% Moisture (please indicate)	Total # of Containers/sample
WA/OR	WA/OR	WA/OR	WA/OR	WA/OR	WA/OR	WA/OR	WA/OR	WA/OR																					

Sample ID	Date	Time	Matrix	Lab ID
DSP-3	12-1-12	0920	SOIL	11
DSP-1	12-1-12	0900	SOIL	2
DSP-2	12-1-12	0910	SOIL	3

Special Instructions:	
ATI will DISPOSE / RETURN samples (circle one)	
PROJECT NAME: Time Oil Jack pot	
PROJECT NUMBER: 1157-009-204	
PROJECT MANAGER: Den Hagan	
PHONE: (505) 561-6050 FAX: (505) 561-6050	
ADDRESS: 1157-009-204	
REPORT TO: 1157-009-204	
COMPANY: 1157-009-204	

Sample Receipt	
TOTAL # CONTAINERS REC'D	3
COC SEALS PRESENT?	NA
COC SEALS INTACT?	NA
RECEIVED COLD?	NA
RECEIVED INTACT?	NA
RECEIVED VIA:	NA

Special Instructions:	
ATI will DISPOSE / RETURN samples (circle one)	
PROJECT NAME: Time Oil Jack pot	
PROJECT NUMBER: 1157-009-204	
PROJECT MANAGER: Den Hagan	
PHONE: (505) 561-6050 FAX: (505) 561-6050	
ADDRESS: 1157-009-204	
REPORT TO: 1157-009-204	
COMPANY: 1157-009-204	



Analytical **Technologies, Inc.**

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John H. Taylor, Jr., Laboratory Manager
Frederick W. Grothkopp, Technical Director

ATI I.D. # 9212-040

GeoEngineers

DEC 23 1992

Routing

File

December 23, 1992

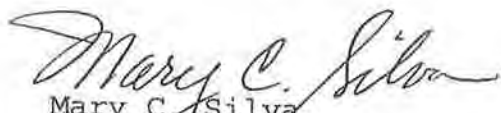
GeoEngineers, Inc.
8410 154th Ave. N.E.
Redmond, WA 98052

Attention : Don Hanson

Project Number : 1957-009-R04

Project Name : Time Oil Jackpot

On December 9, 1992, Analytical Technologies, Inc., received six 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
MCS/hal/elf



Analytical Technologies, Inc.

ATI I.D. # 9212-040

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9212-040-1	DSP-1	12/08/92	SOIL
9212-040-2	DSP-2	12/08/92	SOIL
9212-040-3	HW-1	12/08/92	SOIL
9212-040-4	HW-2	12/08/92	SOIL
9212-040-5	HW-3	12/08/92	SOIL
9212-040-6	HW-4	12/08/92	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	6

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ATI I.D. # 9212-040

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-G	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
MOISTURE	GRAVIMETRIC	CLP SOW ILMO1.0	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

ATI I.D. # 9212-040

CASE NARRATIVE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

CASE NARRATIVE: VOLATILE ORGANICS (BETX) ANALYSIS

A systematic error was introduced on the addition of the matrix spiking procedure. This error gives a slightly high percent recovery for the target analytes in the blank spike, the matrix spike and the matrix spike duplicate (MS/MSD). The MS/MSD show acceptable relative percent differences (RPDs). This systematic error has been found and corrected.

ATI I.D. # 9212-040

VOLATILE ORGANIC ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/09/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/10/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY	LIMITS
BROMOFLUOROBENZENE	96 52 - 116



ATI I.D. # 9212-040-5

VOLATILE ORGANIC ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : HW-3
SAMPLE MATRIX : SOIL
EPA METHOD : 8020 (BETX)
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/08/92
DATE RECEIVED : 12/09/92
DATE EXTRACTED : 12/09/92
DATE ANALYZED : 12/09/92
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUND	RESULT
BENZENE	<0.029
ETHYLBENZENE	0.11
TOLUENE	<0.029
TOTAL XYLENES	1.6

SURROGATE PERCENT RECOVERY	LIMITS
BROMOFLUOROBENZENE	94 52 - 116

ATI I.D. # 9212-040

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.	SAMPLE I.D. # : 9212-034-1
PROJECT # : 1957-009-R04	DATE EXTRACTED : 12/09/92
PROJECT NAME : TIME OIL JACKPOT	DATE ANALYZED : 12/09/92
EPA METHOD : 8020 (BETX)	UNITS : mg/Kg
SAMPLE MATRIX : SOIL	

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	<0.025	1.00	1.13	113	1.14	114H	1
TOLUENE	0.0275	1.00	1.24	121H	1.25	122H	1
TOTAL XYLENES	0.0340	2.00	2.47	122H	2.52	124H	2

CONTROL LIMITS	% REC.	RPD
BENZENE	35 - 113	20
TOLUENE	43 - 107	20
TOTAL XYLENES	46 - 114	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	87	91	52 - 116

H = Out of limits.



ATI I.D. # 9212-040

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
EPA METHOD : 8020 (BETX)
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/09/92
DATE ANALYZED : 12/10/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	<0.025	1.00	1.17	117H	N/A	N/A	N/A
TOLUENE	<0.025	1.00	1.21	121H	N/A	N/A	N/A
TOTAL XYLENES	<0.025	2.00	2.43	122H	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
BENZENE	63 - 115	20
TOLUENE	75 - 110	20
TOTAL XYLENES	79 - 109	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	98	N/A	52 - 116

H = Out of limits.

ATI I.D. # 9212-040

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : N/A
PROJECT # : 1957-009-R04	DATE RECEIVED : N/A
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/09/92
CLIENT I.D. : METHOD BLANK	DATE ANALYZED : 12/09/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-G	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND-----
RESULT

FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

TRIFLUOROTOLUENE	91	50 - 150
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Analytical Technologies, Inc.

ATI I.D. # 9212-040-5

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 12/08/92
PROJECT # : 1957-009-R04	DATE RECEIVED : 12/09/92
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/09/92
CLIENT I.D. : HW-3	DATE ANALYZED : 12/09/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-G	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND	RESULT
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FUEL HYDROCARBONS	68
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY	LIMITS
TRIFLUOROTOLUENE	75 50 - 150

ATI I.D. # 9212-040

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-034-1
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/09/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/09/92
METHOD	: WA DOE WTPH-G	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (GASOLINE)	<5	<5	NC	100	93.7	94	93.3	93	0
CONTROL LIMITS						% REC.	RPD		
GASOLINE						50 - 112	20		
SURROGATE RECOVERIES				SPIKE	DUP. SPIKE		LIMITS		
TRIFLUOROTOLUENE				71	76		50 - 150		

NC = Not Calculable.



Analytical Technologies, Inc.

ATI I.D. # 9212-040

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-G
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/09/92
DATE ANALYZED : 12/09/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (GASOLINE)	<5	100	98.5	99	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
GASOLINE				80 - 119			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
TRIFLUOROTOLUENE		93		N/A		50 - 150	

ATI I.D. # 9212-040

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/09/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/09/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUND	RESULT
FUEL HYDROCARBONS	<25
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	19H 50 - 150

H = Out of limits.



ATI I.D. # 9212-040

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : N/A
PROJECT # : 1957-009-R04	DATE RECEIVED : N/A
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/10/92
CLIENT I.D. : METHOD BLANK	DATE ANALYZED : 12/11/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND	RESULT
FUEL HYDROCARBONS	<25
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

	SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	73	50 - 150

ATI I.D. # 9212-040-1

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/08/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/09/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/10/92
CLIENT I.D.	: DSP-1	DATE ANALYZED	: 12/11/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 5
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND

RESULT

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

220
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

1,700
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

81

50 - 150



ATI I.D. # 9212-040-2

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 12/08/92
PROJECT # : 1957-009-R04	DATE RECEIVED : 12/09/92
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/09/92
CLIENT I.D. : DSP-2	DATE ANALYZED : 12/10/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 20
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND	RESULT
FUEL HYDROCARBONS	1,300
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
 FUEL HYDROCARBONS	 8,100
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	92 50 - 150

ATI I.D. # 9212-040-3

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/08/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/09/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/09/92
CLIENT I.D.	: HW-1	DATE ANALYZED	: 12/10/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND	RESULT
FUEL HYDROCARBONS	<28
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	150
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	86 50 - 150



ATI I.D. # 9212-040-4

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : HW-2
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-D
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/08/92
 DATE RECEIVED : 12/09/92
 DATE EXTRACTED : 12/09/92
 DATE ANALYZED : 12/09/92
 UNITS : mg/Kg
 DILUTION FACTOR : 1

COMPOUND	RESULT
FUEL HYDROCARBONS	<28
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<110
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	78 50 - 150

ATI I.D. # 9212-040-5

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 12/08/92
PROJECT # : 1957-009-R04	DATE RECEIVED : 12/09/92
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/09/92
CLIENT I.D. : HW-3	DATE ANALYZED : 12/10/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND	RESULT
FUEL HYDROCARBONS	280
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	2,400 D4
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	100 50 - 150

D4 = Value from a ten fold diluted analysis.



Analytical Technologies, Inc.

ATI I.D. # 9212-040-6

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : HW-4
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-D
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/08/92
 DATE RECEIVED : 12/09/92
 DATE EXTRACTED : 12/09/92
 DATE ANALYZED : 12/10/92
 UNITS : mg/Kg
 DILUTION FACTOR : 10

COMPOUND	RESULT
FUEL HYDROCARBONS	1,200
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	6,600 D6
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	101 50 - 150

D6 = Value from a 50 fold diluted analysis.

ATI I.D. # 9212-040

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: N/A
CLIENT I.D.	: 500 PPM CCV	DATE ANALYZED	: 12/09/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND	% DIFFERENCE
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FUEL HYDROCARBONS QUANTITATED USING DIESEL	10
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FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL	2
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ATI I.D. # 9212-040

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: N/A
CLIENT I.D.	: 500 PPM CCV	DATE ANALYZED	: 12/11/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND% DIFFERENCE

FUEL HYDROCARBONS QUANTITATED USING DIESEL 3

FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL 4



ATI I.D. # 9212-040

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-040-4
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/09/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/09/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	<25	NC	200	196	98	178	89	10
	CONTROL LIMITS					% REC.			RPD
DIESEL						63 - 131			20
	SURROGATE RECOVERIES			SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL				92		92		50 - 150	

NC = Not Calculable.



ATI I.D. # 9212-040

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : 9212-040-4
DATE EXTRACTED : 12/09/92
DATE ANALYZED : 12/09/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (MOTOR OIL)	<100	<100	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
MOTOR OIL						63 - 131			20
SURROGATE RECOVERIES				SPIKE		DUP. SPIKE	LIMITS		
O-TERPHENYL				75		75		50 - 150	

NC = Not Calculable.



ATI I.D. # 9212-040

 TOTAL PETROLEUM HYDROCARBON ANALYSIS
 QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-054-3
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/10/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/11/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	<25	NC	200	181	91	179	90	1
CONTROL LIMITS						% REC.	RPD		
DIESEL						63 - 131	20		
SURROGATE RECOVERIES				SPIKE	DUP. SPIKE		LIMITS		
O-TERPHENYL				87	86		50 - 150		

NC = Not Calculable.



Analytical Technologies, Inc.

ATI I.D. # 9212-040

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: BLANK SPIKE
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/09/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/09/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	200	196	98	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		96		N/A		50 - 150	



ATI I.D. # 9212-040

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: BLANK SPIKE
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/10/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/11/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	200	180	90	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		87		N/A		50 - 100	

Analytical**Technologies**, Inc.

ATI I.D. # 9212-040

GENERAL CHEMISTRY ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

PARAMETERDATE ANALYZED

MOISTURE

12/10/92



ATI I.D. # 9212-040

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9212-040-1	DSP-1	15
9212-040-2	DSP-2	11
9212-040-3	HW-1	10
9212-040-4	HW-2	10
9212-040-5	HW-3	13
9212-040-6	HW-4	13



ATI I.D. # 9212-040

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9212-041-3	8.3	7.7	8	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

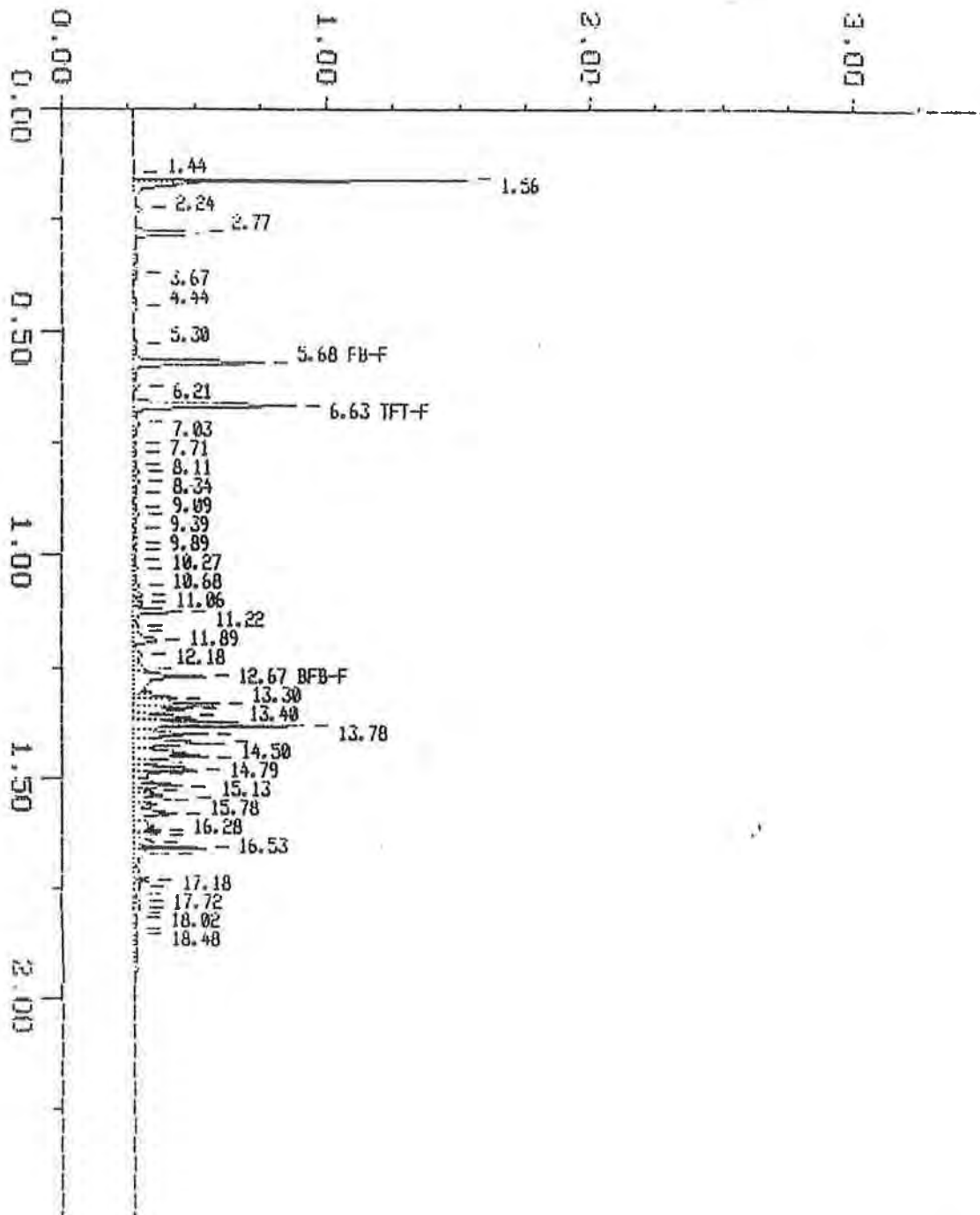
$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

WA DOE WTPH-G

Sample: 9212-040-5 Channel: FID
 Acquired: 09-DEC-92 21:11 Method: N:\BRO2\MAXDATA\GLAD\120992G3
 Comments: ATI : A COMMITMENT TO QUALITY

Filename: 120992G3
 Operator: RII

$\times 10^{-1}$ volts

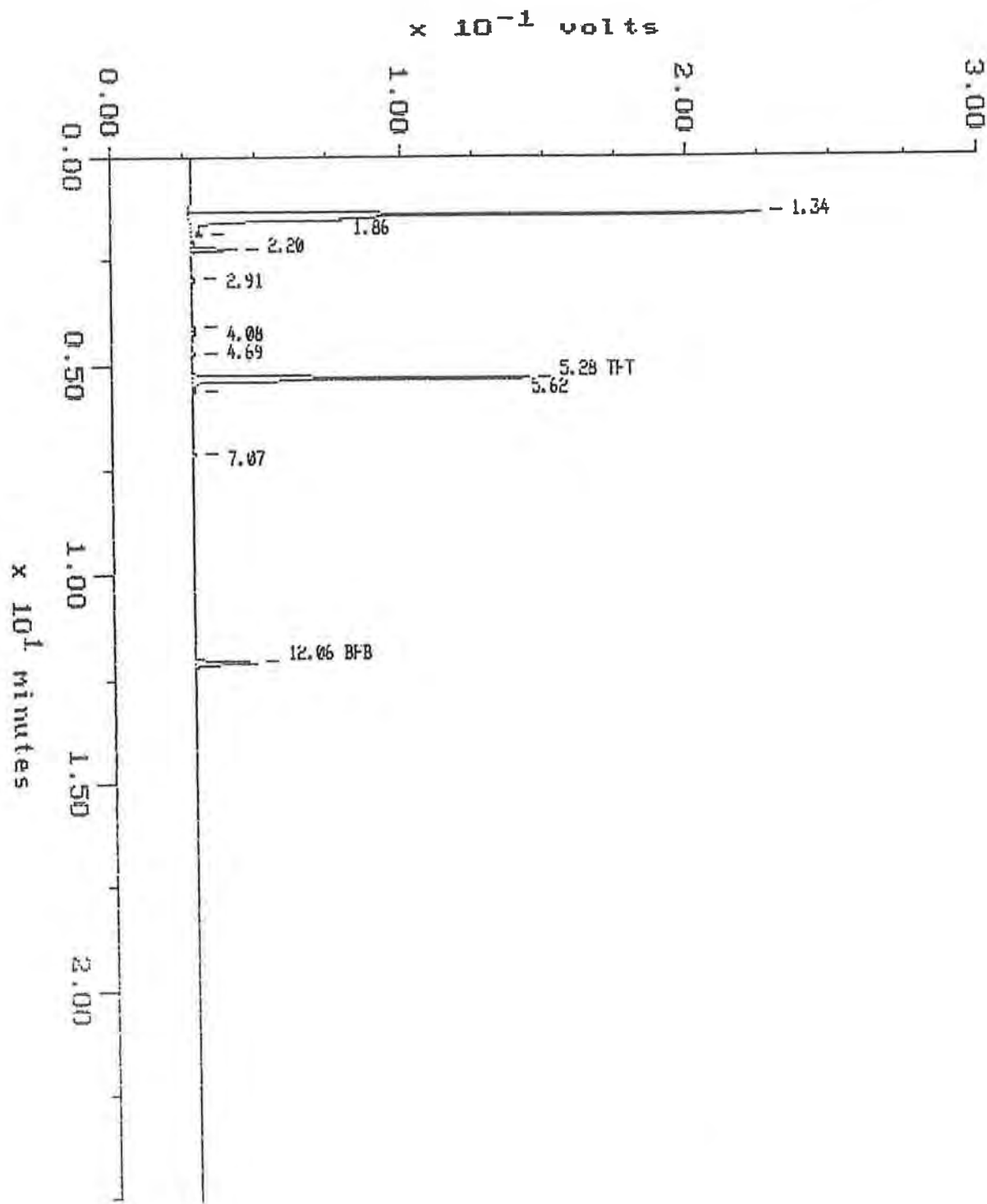


WA DOE WTPH-G

Blank

Sample: SRB 1209 Channel: PRISCILLA
Acquired: 09-DEC-92 13:57 Method: N:\BRD2\MAXDATA\ELVIS-P\120992EP
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

Filename: 1209EP03
Operator: ATI

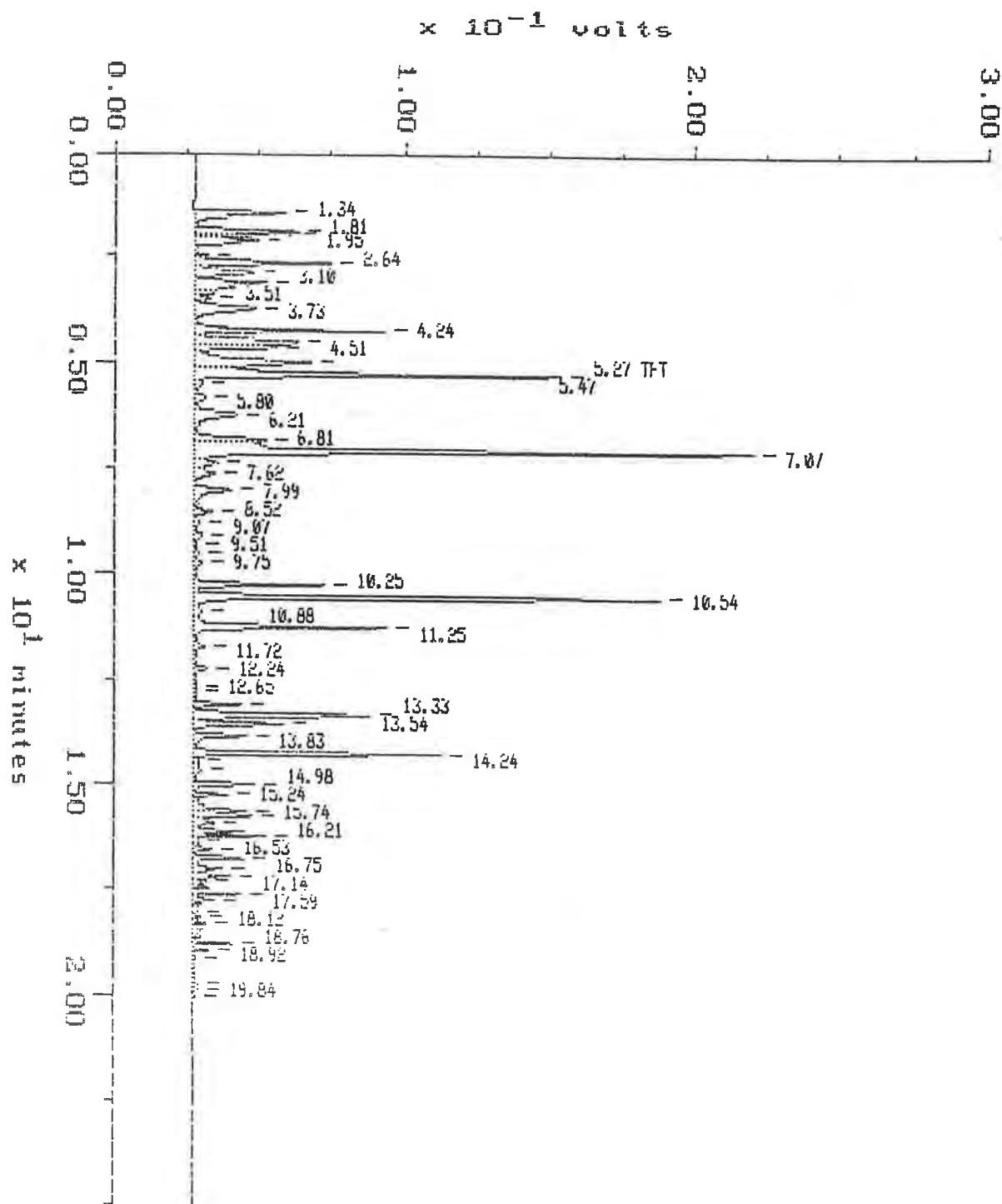


WA DOE WTPH-G

Continuing Calibration

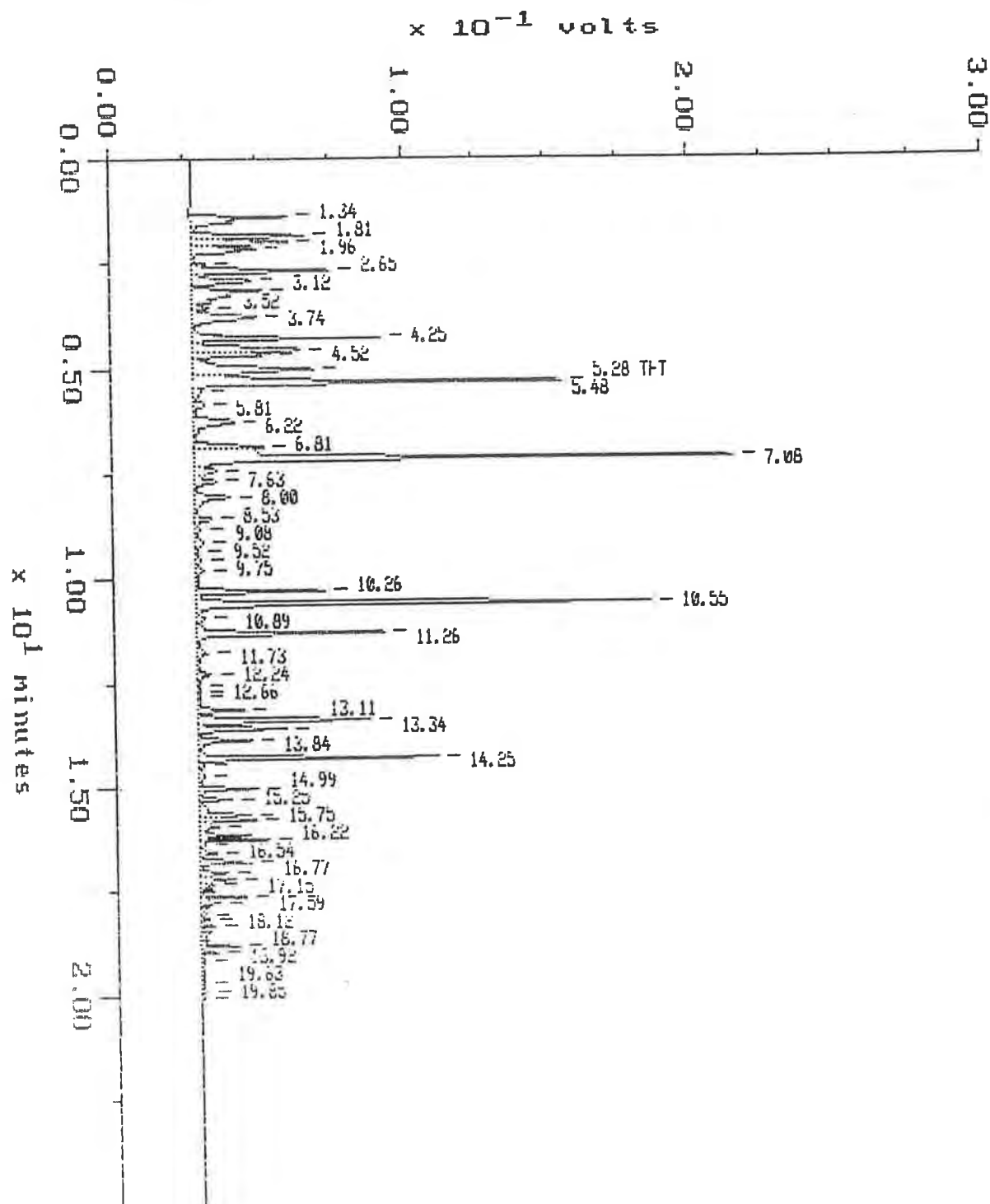
Sample: WMS 1209 Channel: PRISCILLA
 Acquired: 09-DEC-92 12:30 Method: N:\BR02\MAXDATA\ELVIS-P\120992EP
 Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

Filename: 1209EP01
 Operator: AFI



Sample: CC 2 PPM Channel: PRISCILLA
Acquired: 09-DEC-92 17:46 Method: N:\BRO2\MAXDATA\ELVIS-PA120992EP
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

Filename: 1209EP10
Operator: ATI

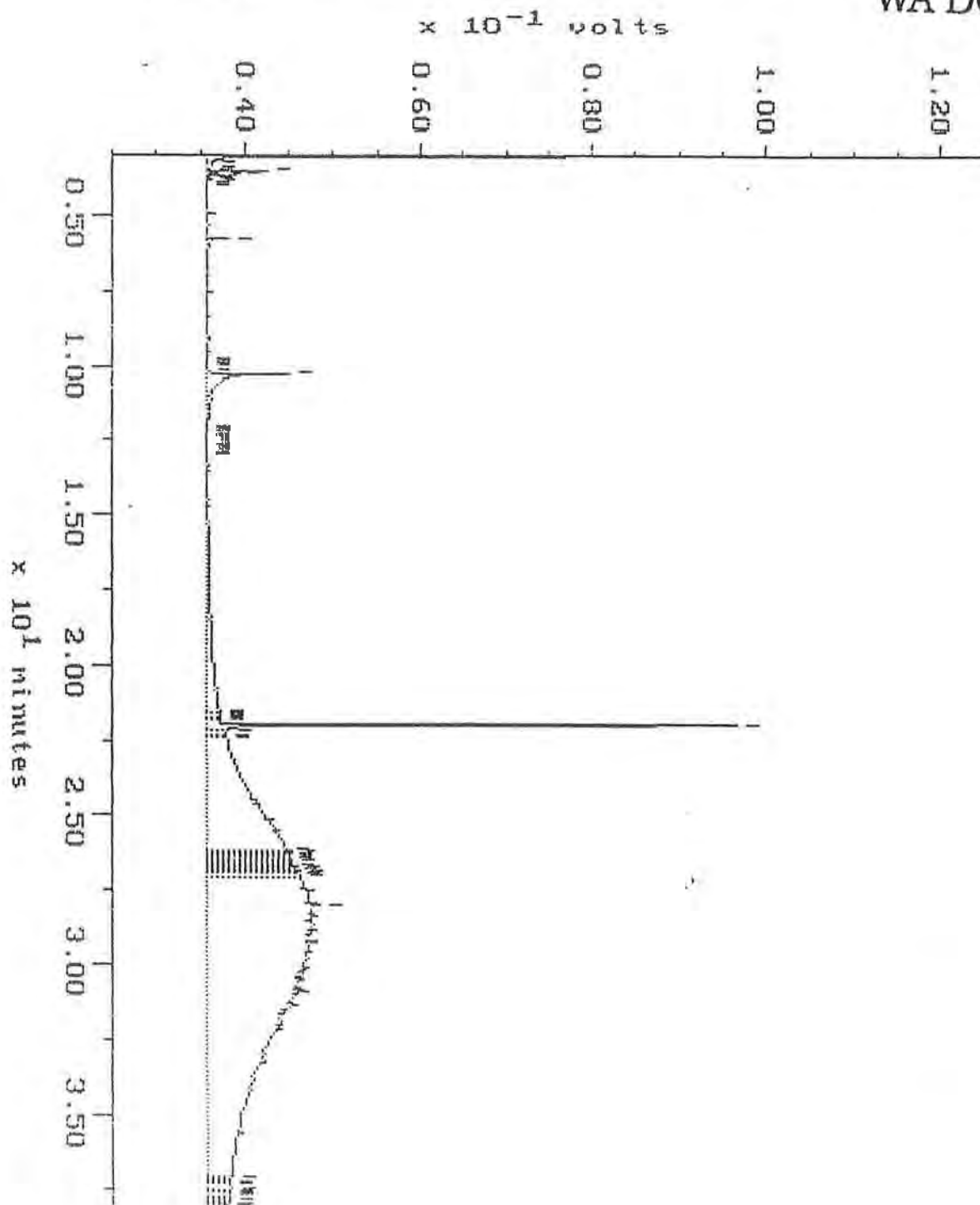


Sample: 9212-040-1DIL
Acquired: 11-DEC-92 17:26
Dilution: 1 : 5.000

Channel: DENITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1211

Filename: 1211SD08
Operator: ATI

WA DOE WTPH-D

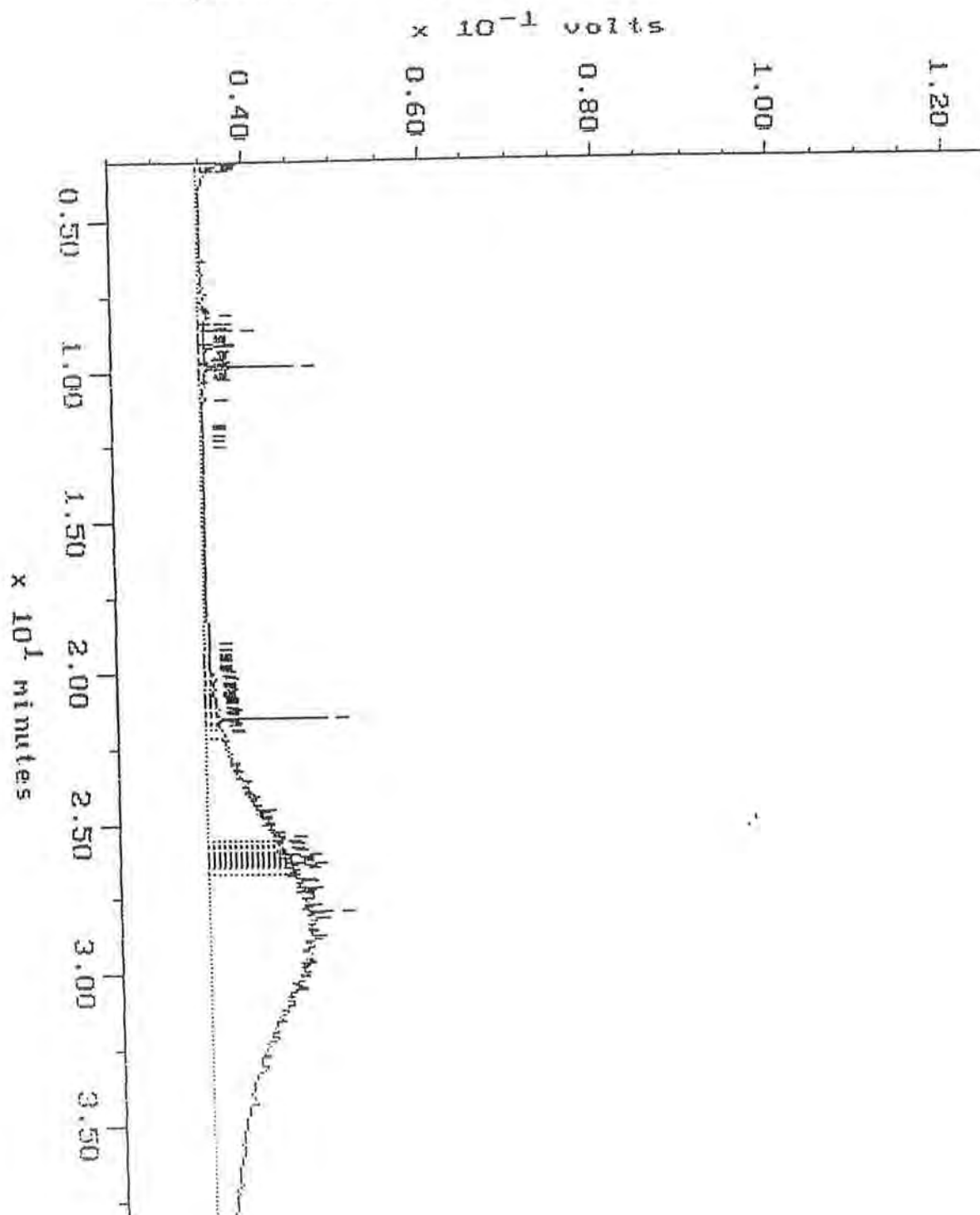


WA DOE WTPH-D

Sample: 9212-040-2
Acquired: 10-DEC-92 2:53
Dilution: 1 : 20.000

Channel: ERNIE
Method: L:\BK02\MAXDATA\ERNIE\FUEL1209
Inj Vol: 1.00

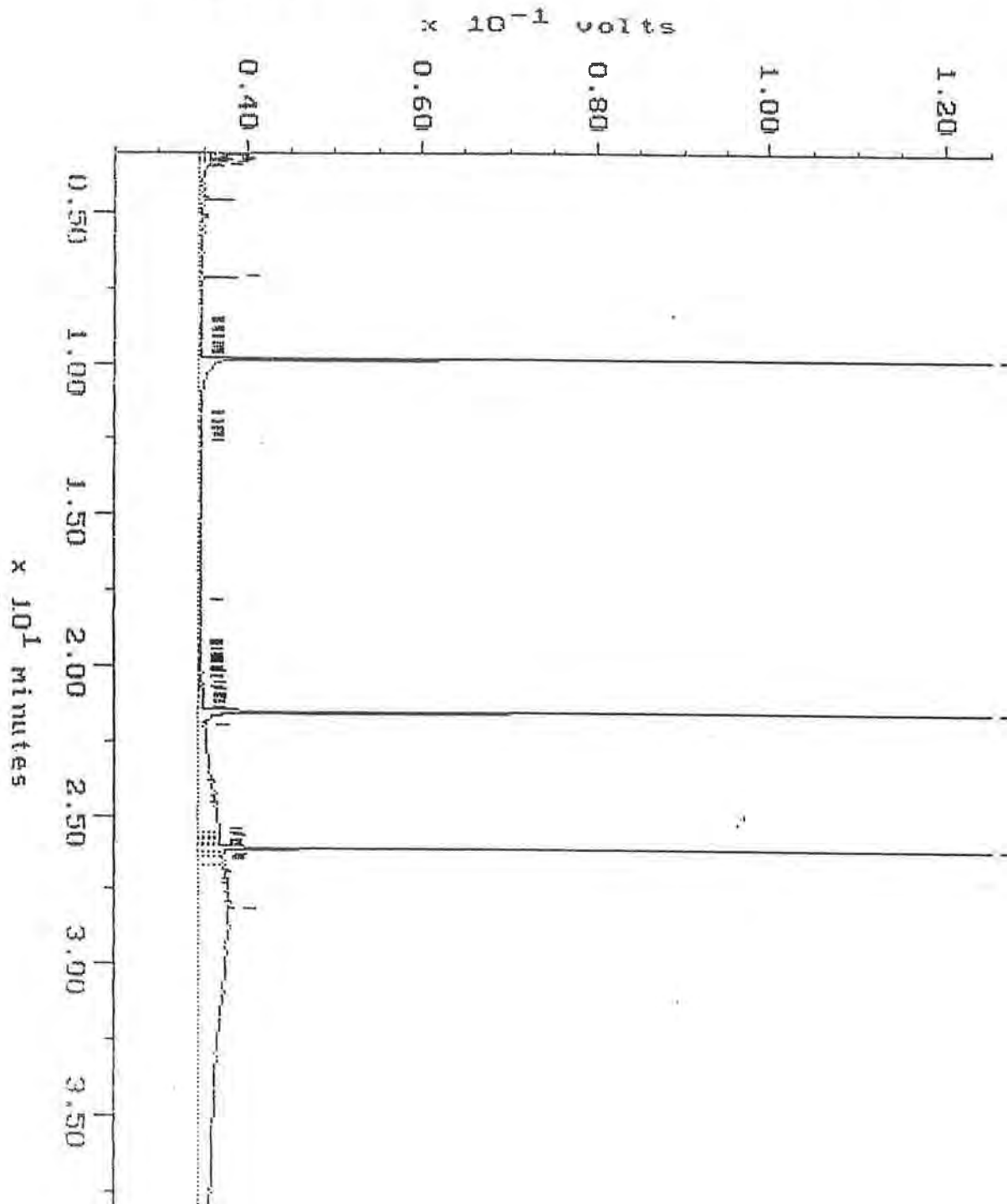
Filename: 1209ER18
Operator:



WA DOE WTPH-D

Sample: 9212-040-3 Channel: ERNIE
 Acquired: 10-DEC-92 3:39 Method: L:\BRO2\MAXDATA\ERNIE\FUEL1209
 Inj Vol: 1.00

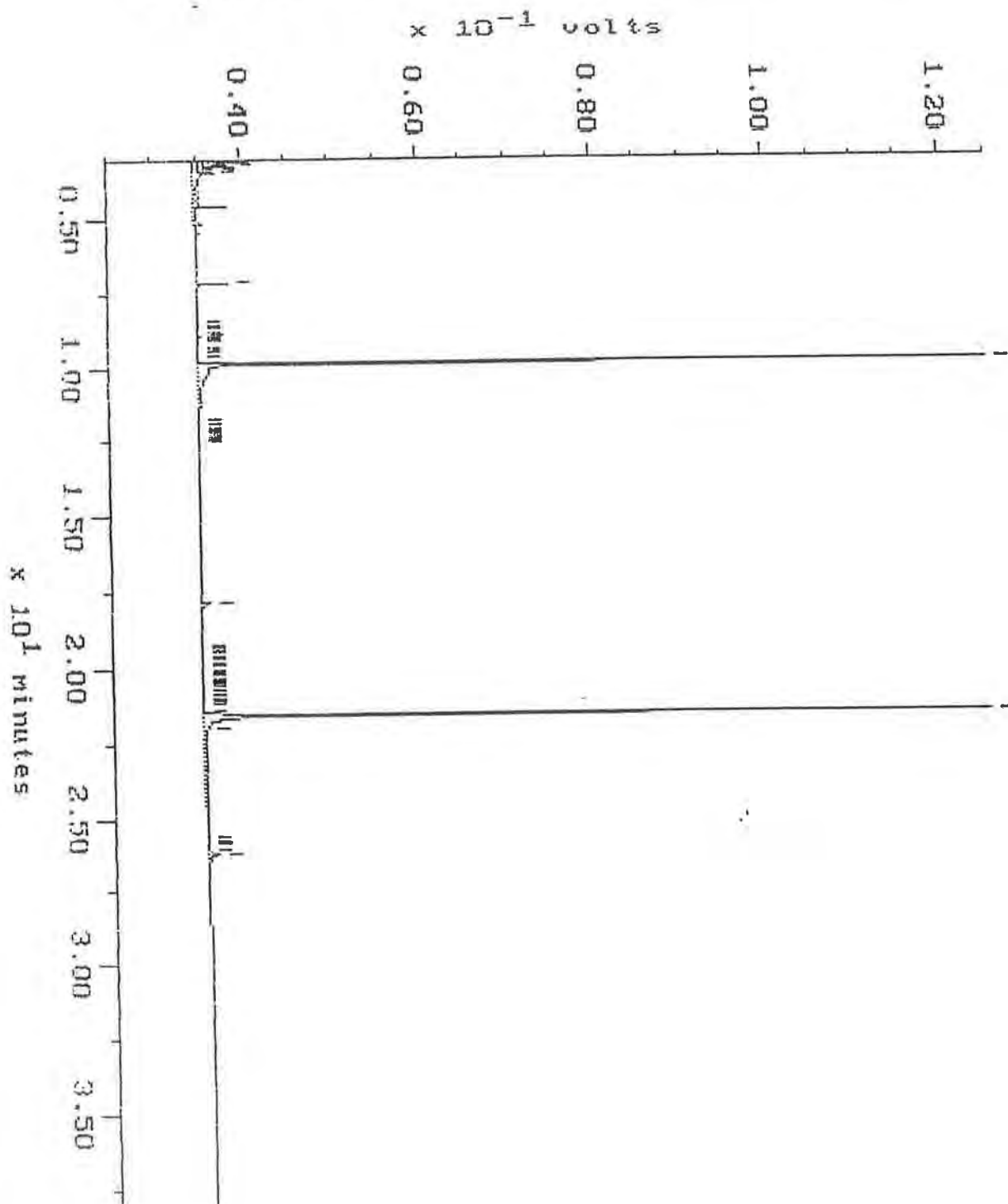
Filename: 1209ER19
 Operator:



Sample: 9212-040-4
 Acquired: 89-DEC-92 23:02
 Inj Vol: 1.00

Channel: ERNIE
 Method: L:\8R02\MAXDATA\ERNIE\FUEL1209

Filename: 1209ER13
 Operator:

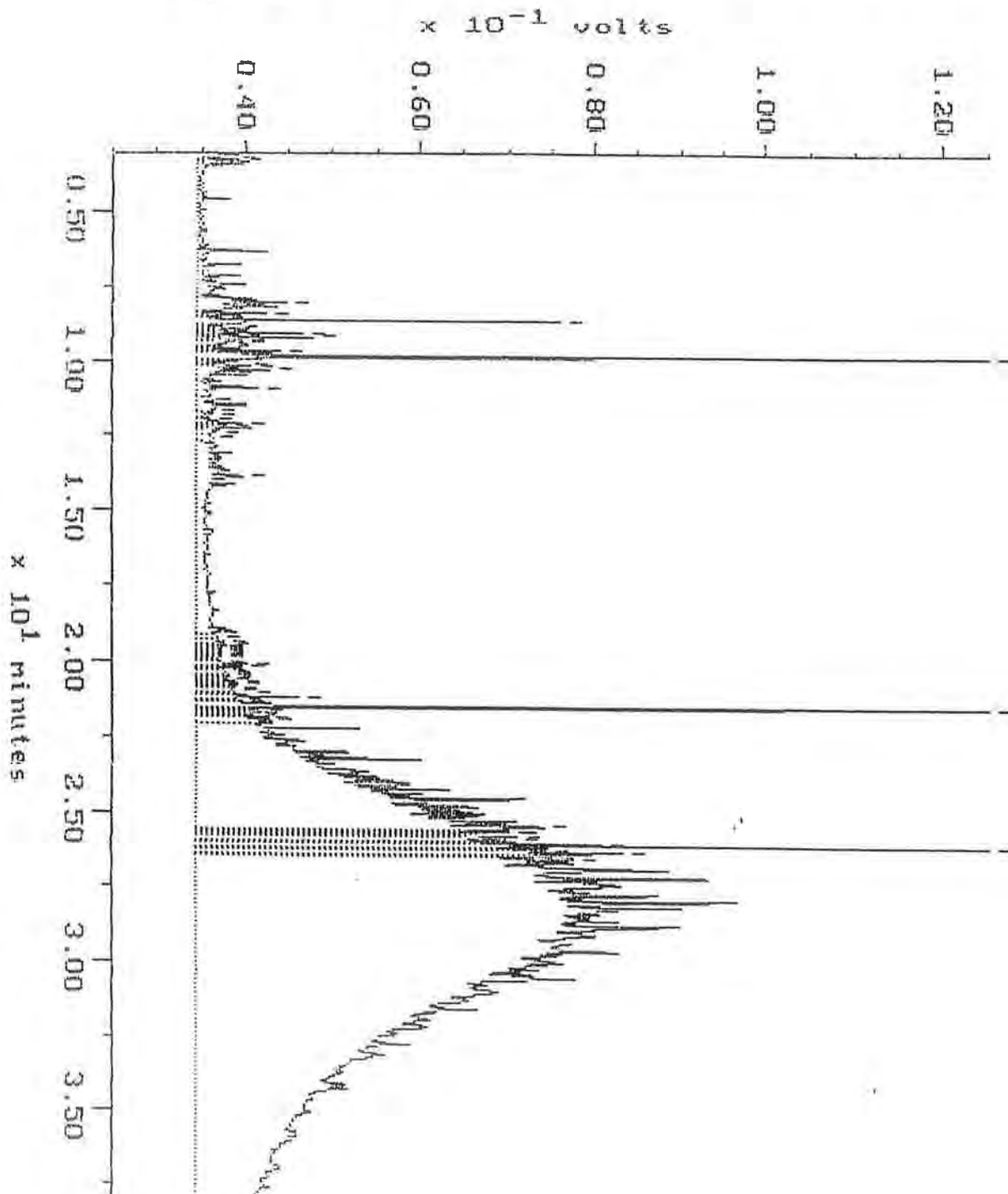


WA DOE WTPH-D

Sample: 9212-940-5
Acquired: 10-DEC-92 4:25
Inj Vol: 1.00

Channel: ERNIE
Method: L:\8802\MAXDATA\ERNIE\FUEL1203

Filename: 1203ER20
Operator:

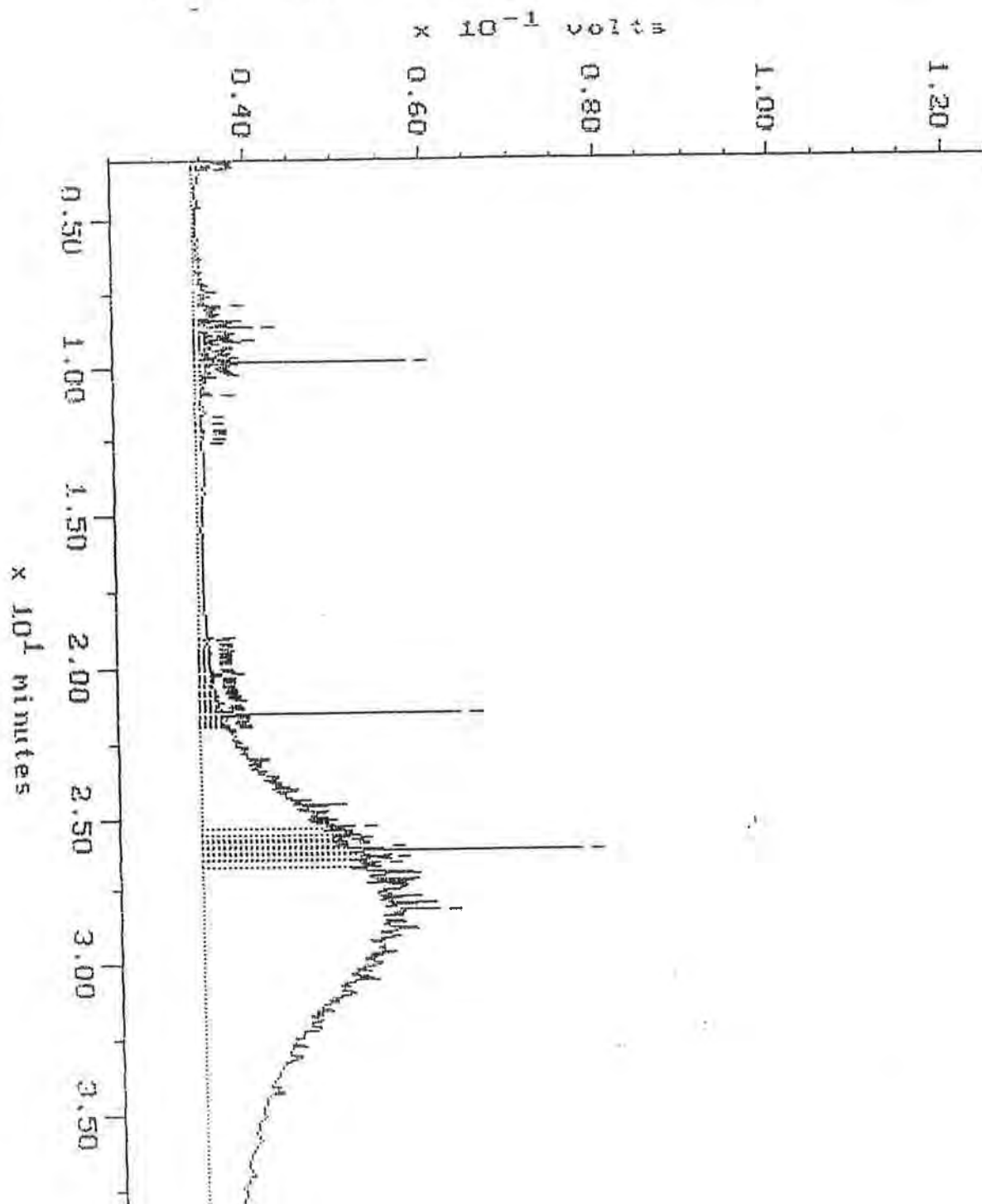


WA DOE WTPH-D

Sample: 9212-040-5
Acquired: 18-DEC-92 6:44
Situation: 1 : 10.000

Channel: ERNIE
Method: L:\6R02\MAXDATA\ERNIE\FUEL1209
Inj Vol: 1.00

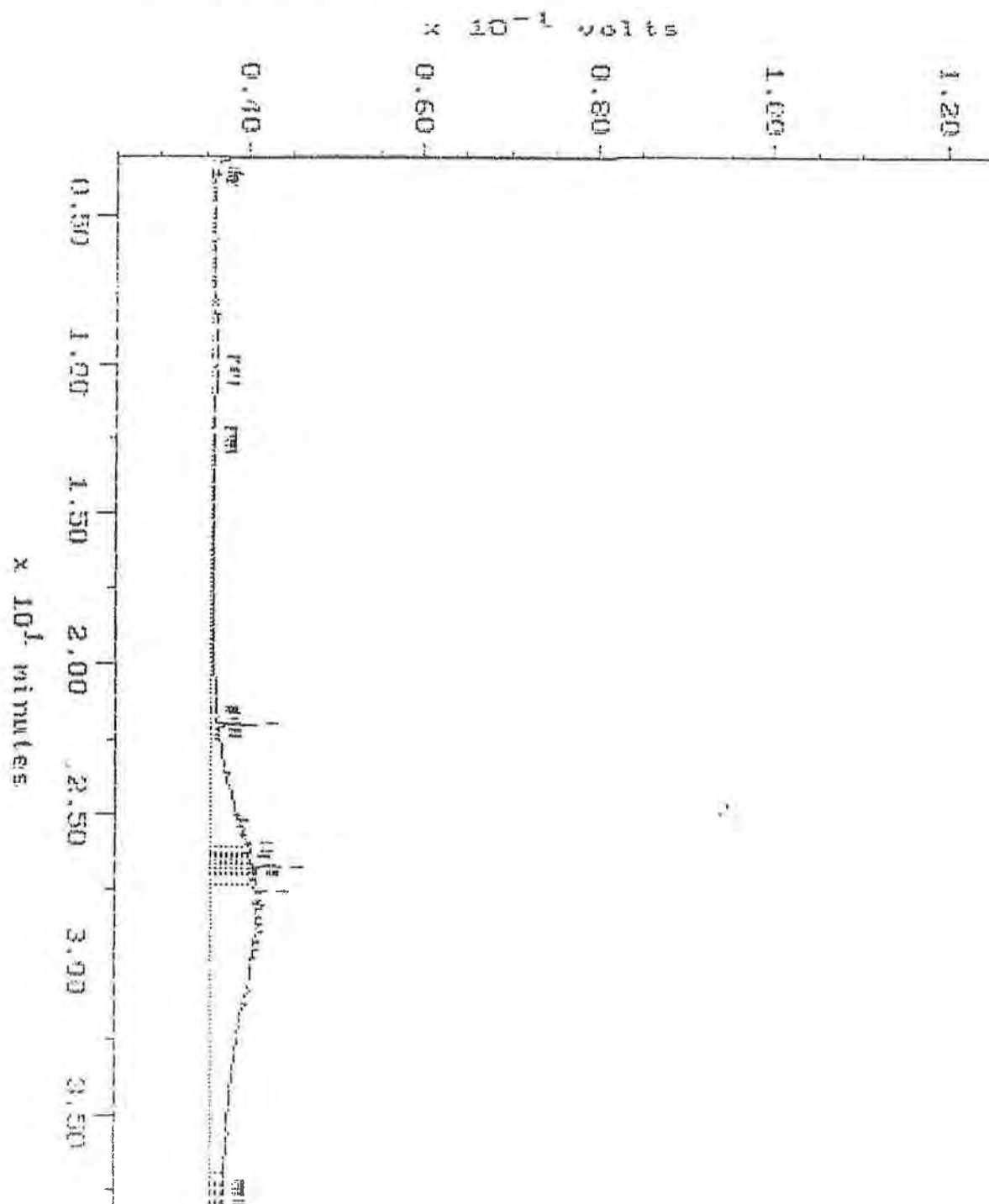
Filename: 1209ER23
Operator:



Sample: 9210-000-001
 Acquired: 11-DEC-88 14:28
 Dilution: 1 : 50.000

Channel: CEN1701
 Method: H: (C:\G2\DATA\SENSE-DATA\EL1211

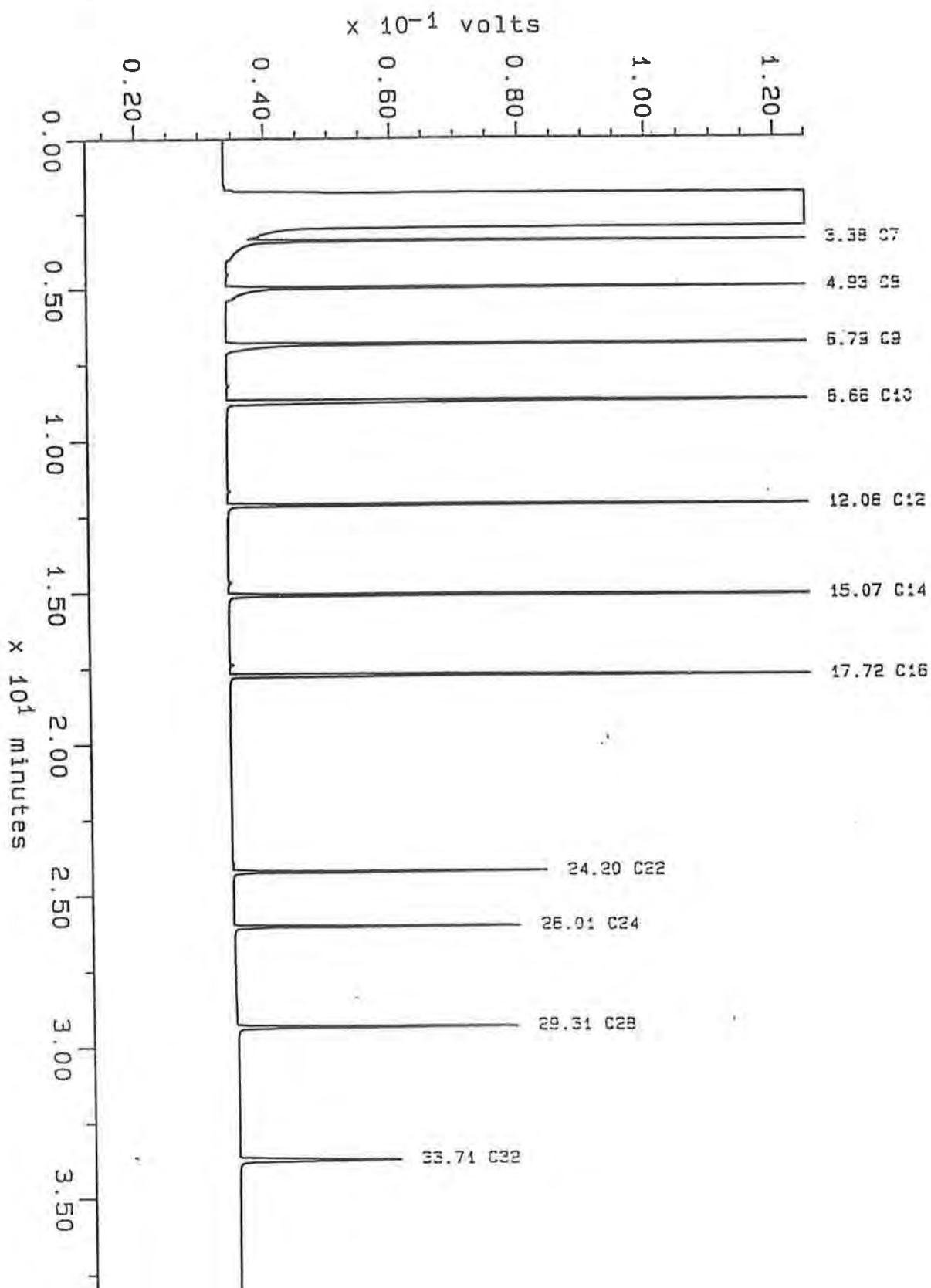
Filename: 1211000
 Operator: Afi



Sample: ALKANE
Acquired: 29-OCT-92 16:39
Inj Vol: 1.00

Channel: ERNIE
Method: L:\ER02\MAXDATA\ERNIE\FUEL1020

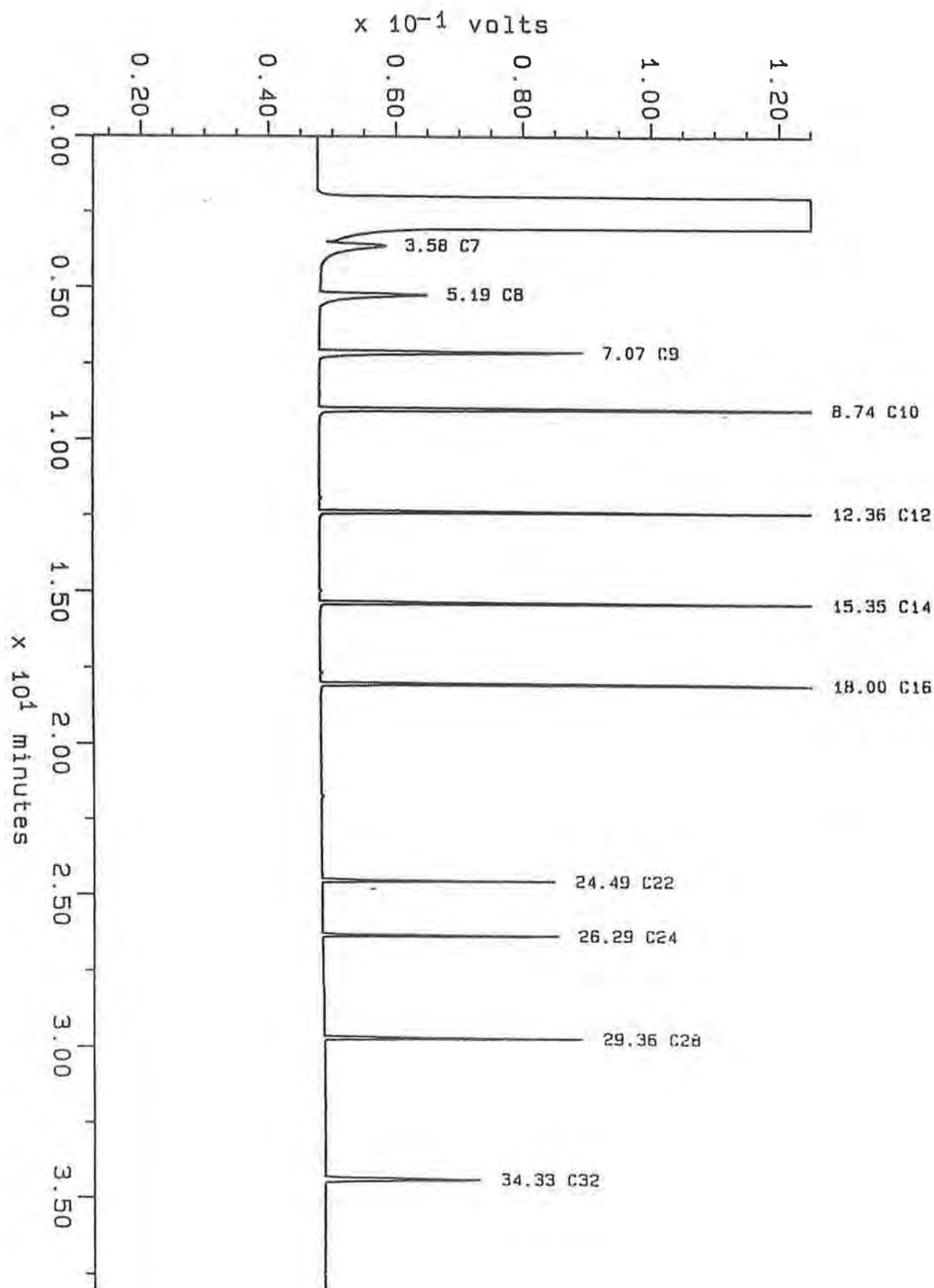
Filename: 1020ER02
Operator:



Sample: ALKANE
Acquired: CLOCK NOT SET
Inj Vol: 1.00

Channel: CLARENCE
Method: H: \BR02\MAXDATA\SERGE-C\FUEL1008

Filename: 1008SC40
Operator: ATI

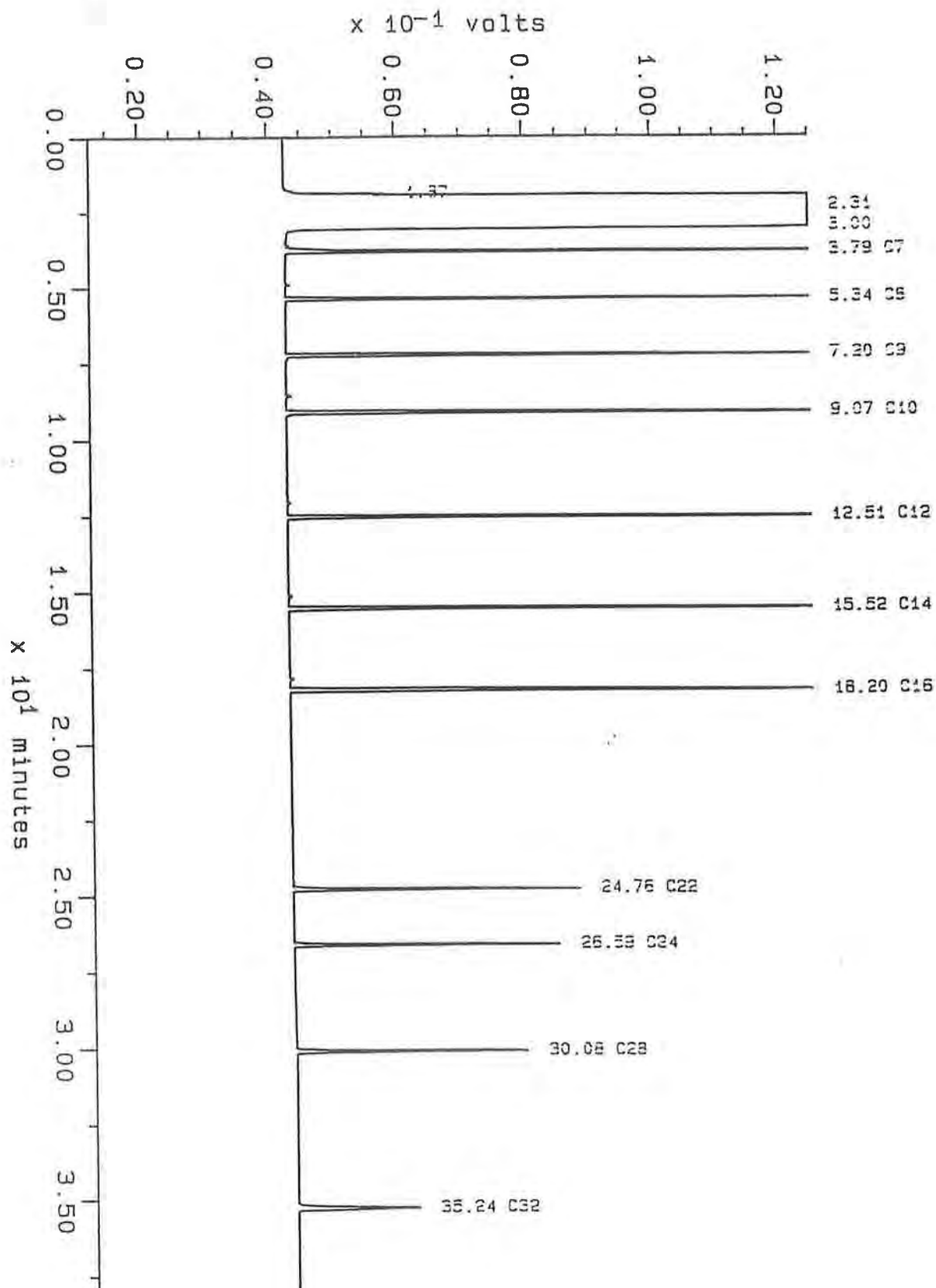


Alkane

Sample: ALKANE
Acquired: 02-NOV-92 12: 49
Inj Vol: 1.00

Channel: DEMITRI
Method: L:\BRC2\MAXDATA\SERGE-D\FUEL0902

Filename: 1102SD02
Operator: ATI

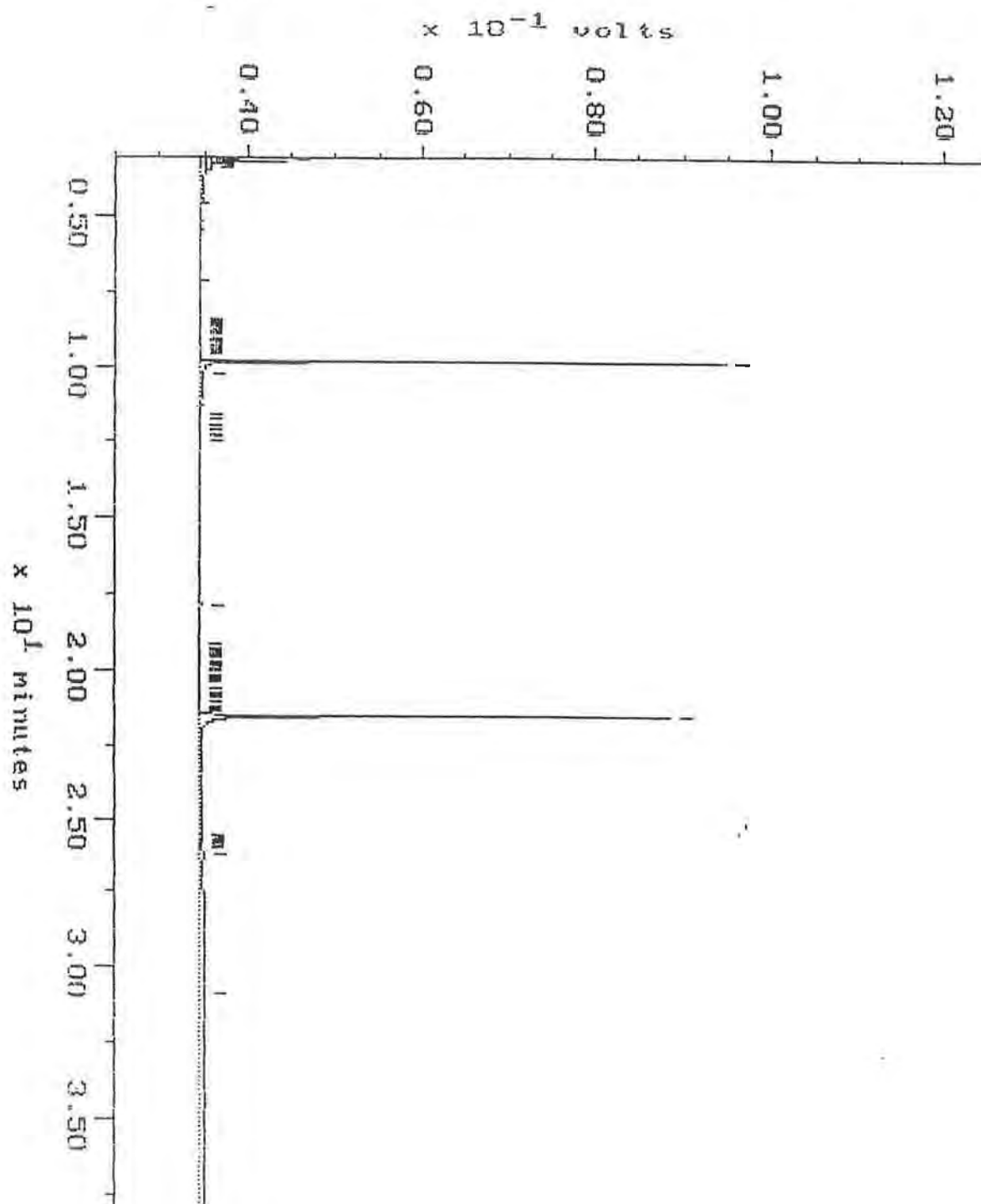


Blank

Sample: SRB 12-9
Acquired: 89-DEC-92 21:29
Inj Vol: 1.00

Channel: ERNIE
Method: L:\BR02\MAXDATA\ERNIE\FUEL1209

Filename: 1209ER11
Operator:

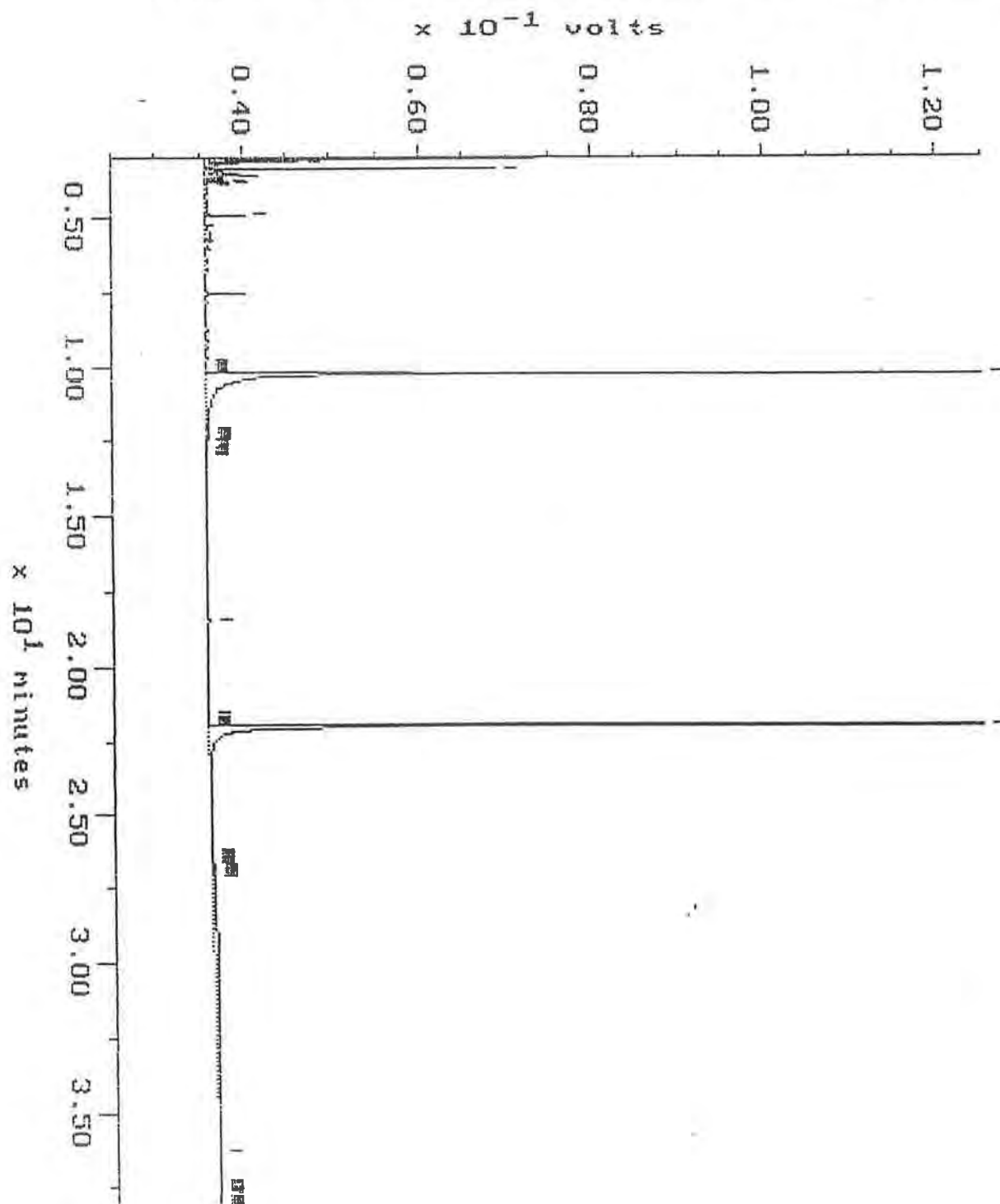


Sample: SRB12-10
Acquired: 11-DEC-92 15:07

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1211

Filename: 1211SD05
Operator: ATI

Blank

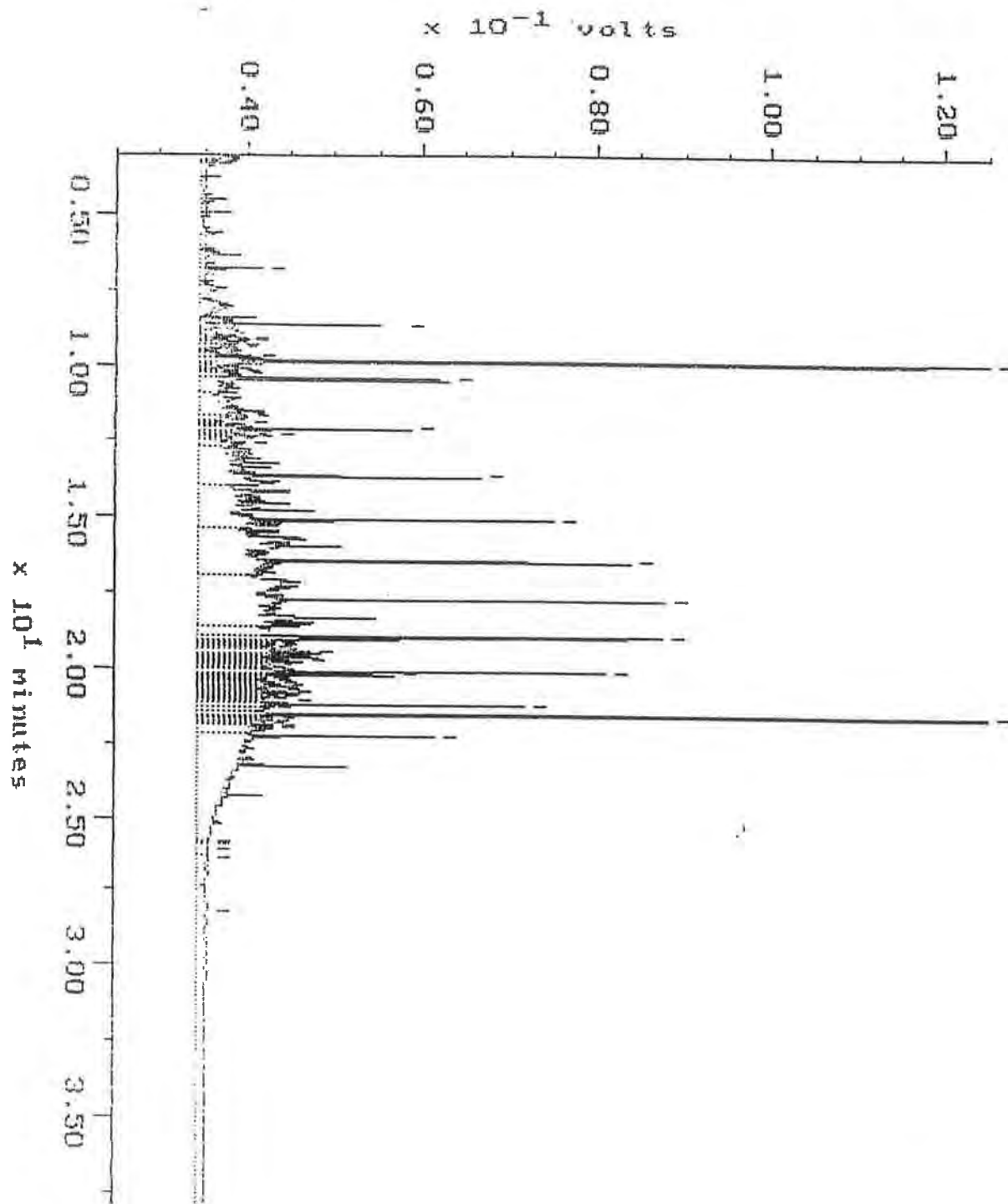


Continuing Calibration

Sample: D500
Acquired: 09-DEC-92 19:55
Inj vol: 1.00

Channel: ERNIE
Method: L:\BK02\MAXDATA\ERNIE\FUEL1209

Filename: 1209ER09
Operator:

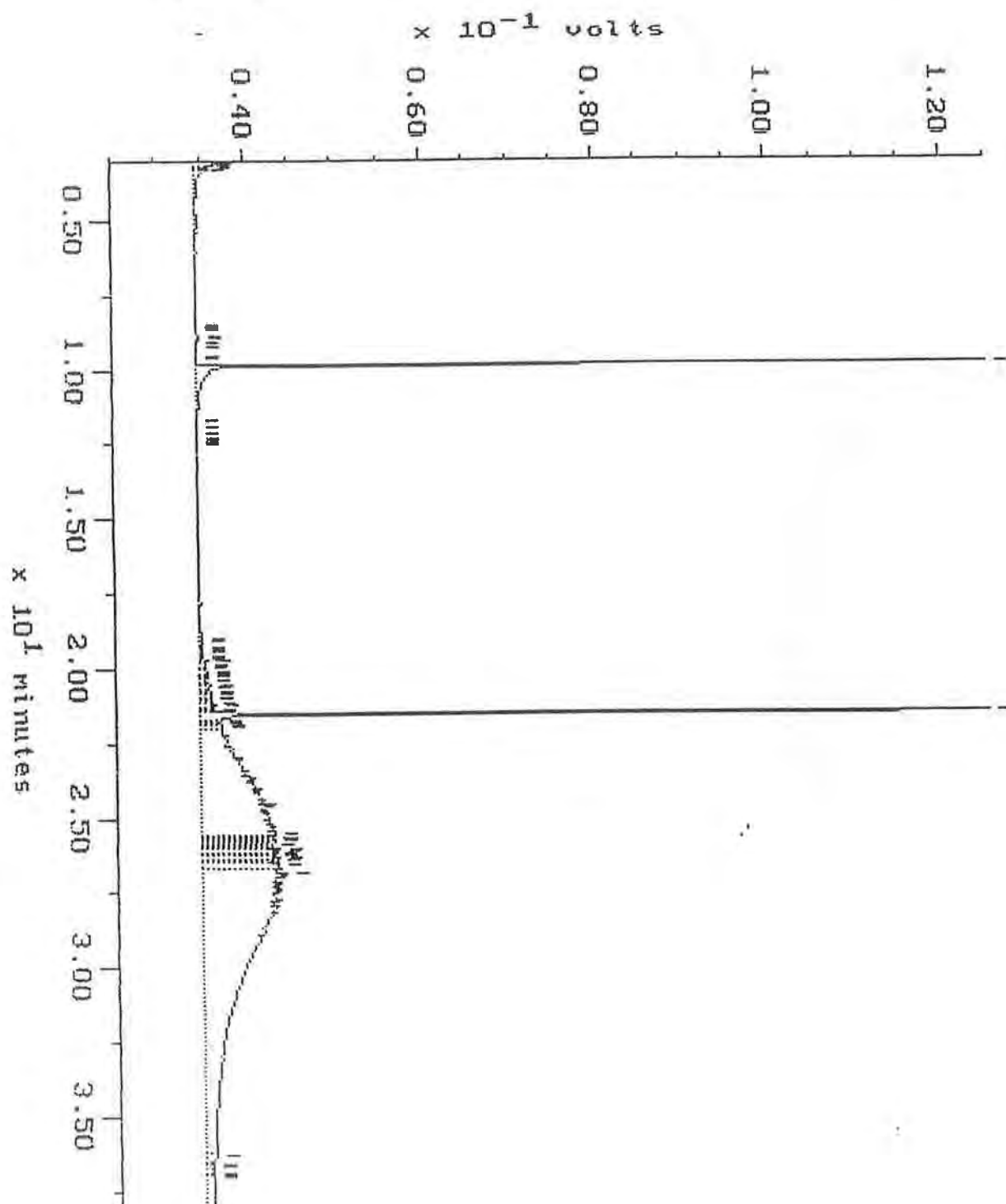


Continuing Calibration

Sample: M0500
Acquired: 89-DEC-92 20:42
Inj Vol: 1.00

Channel: ERNIE
Method: L:\BK02\MAXDATA\ERNIE\FUEL1209

Filename: 1209ER10
Operator:

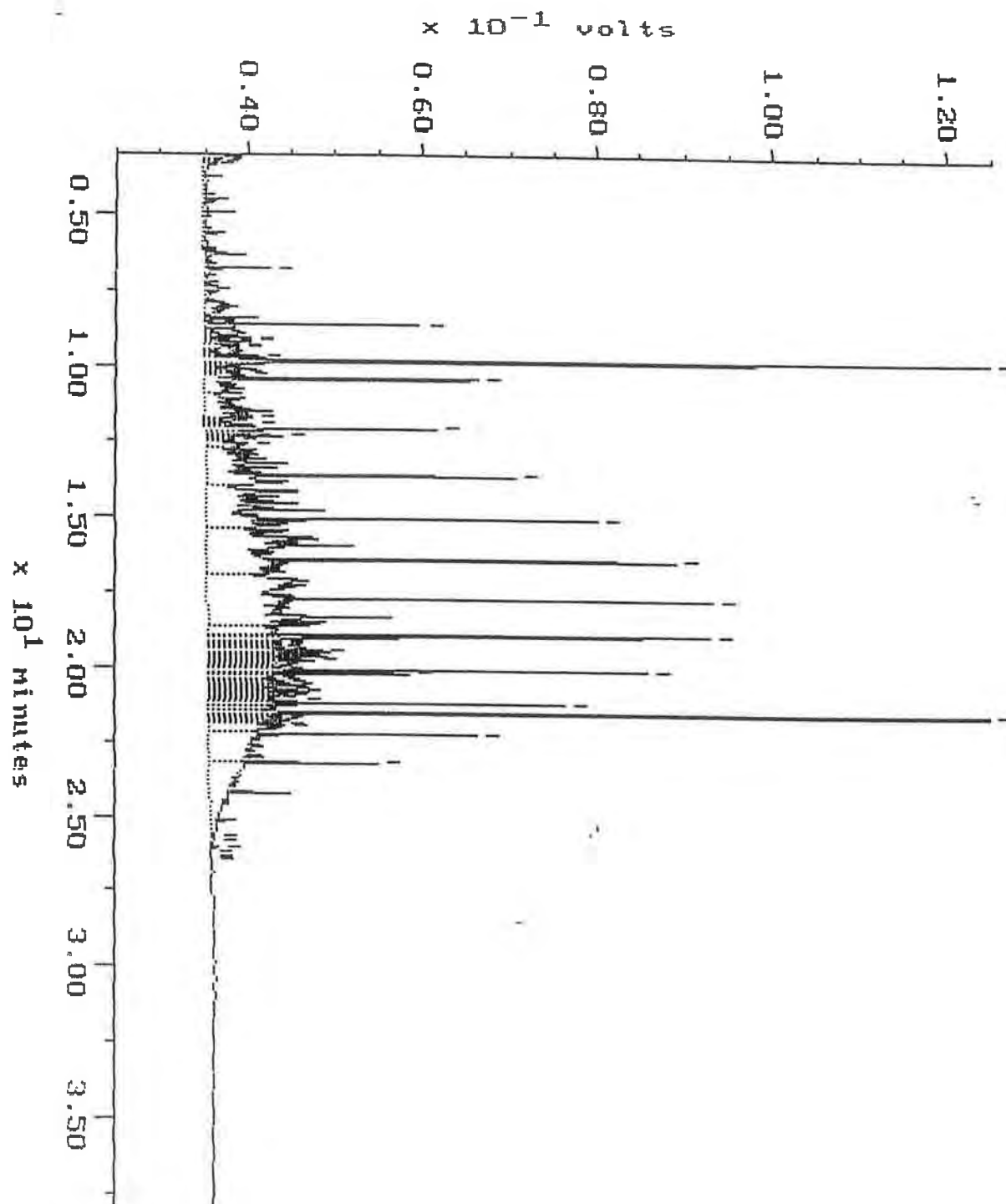


Continuing Calibration

Sample: D 500
Acquired: 10-DEC-92 14:59
Inj Vol: 1.00

Channel: ERNIE
Method: L:\BRO2\MAXDATA\ERNIE\FUEL1209

Filename: 1209ER32
Operator:

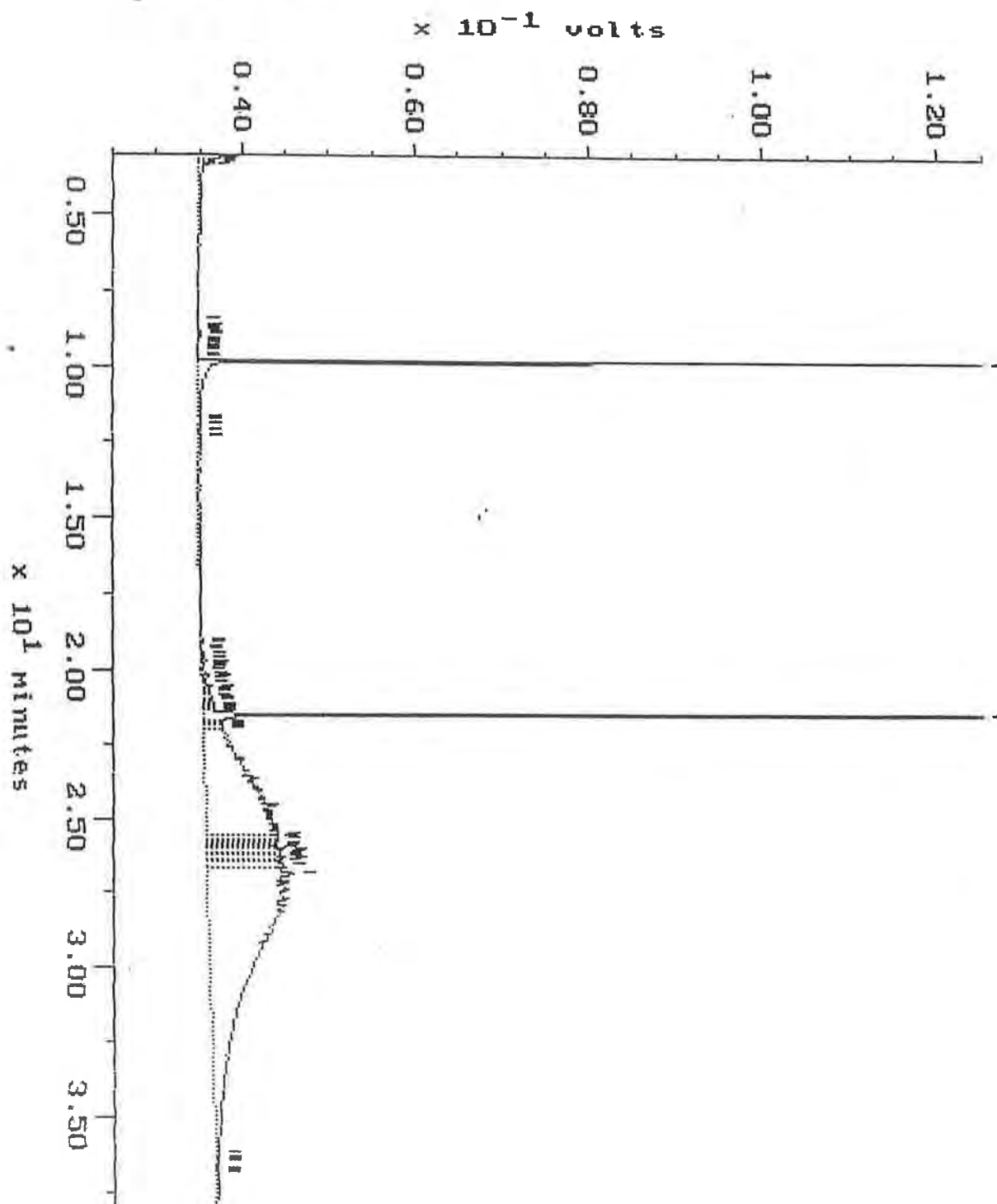


Continuing Calibration

Sample: MO 588
Acquired: 10-DEC-92 19:34
Inj Vol: 1.00

Channel: ERNIE
Method: L:\BRO2\MAXDATA\ERNIE\FUEL1209

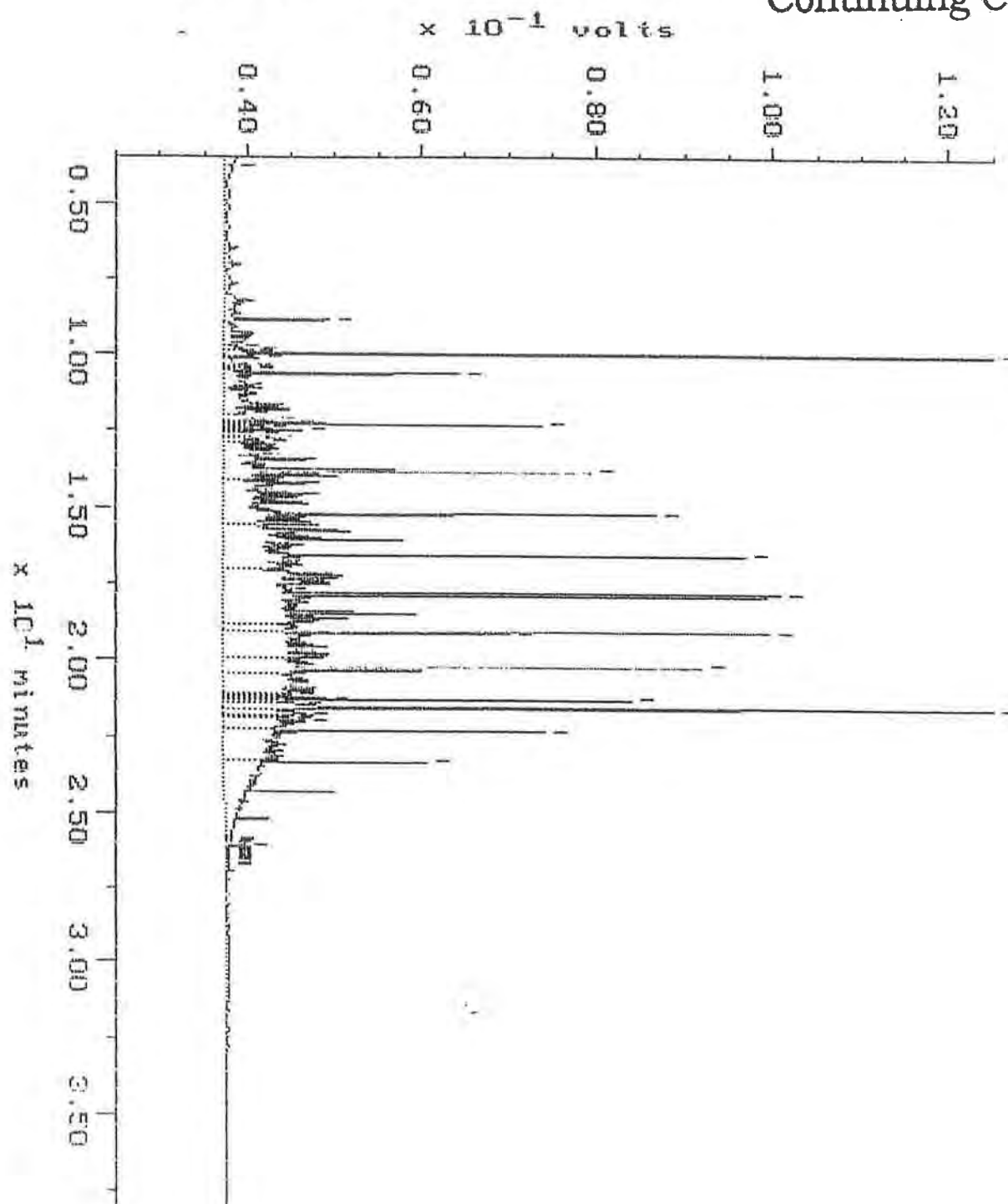
Filename: 1209ER35
Operator:



Sample: D300 Channel: CLARENCE
Acquired: 11-DEC-92 10:35 Method: H:\BRO2\MAXDATA\SERGE-C\FUEL1211
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 1211A01
Operator: ATI

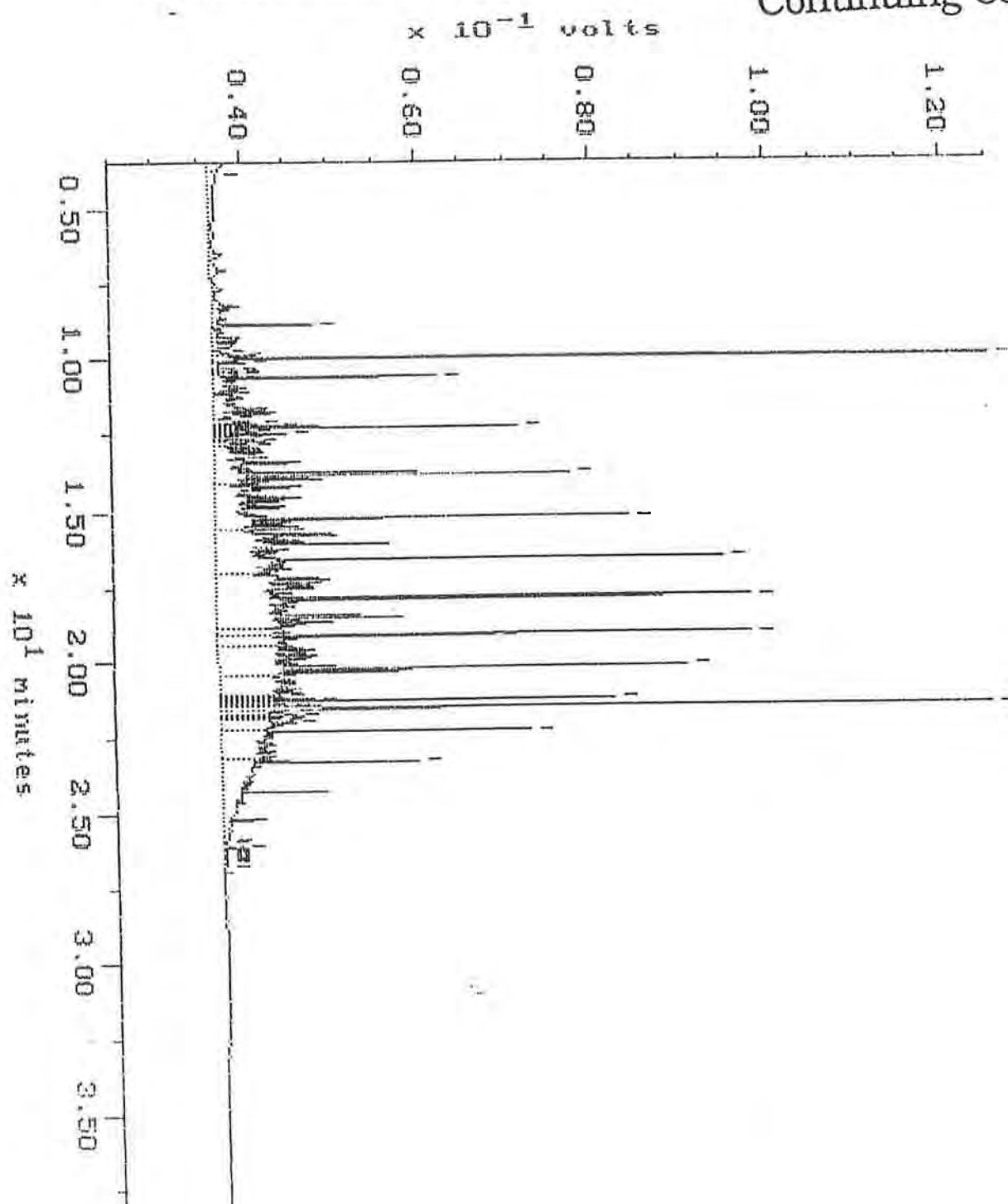
Continuing Calibration

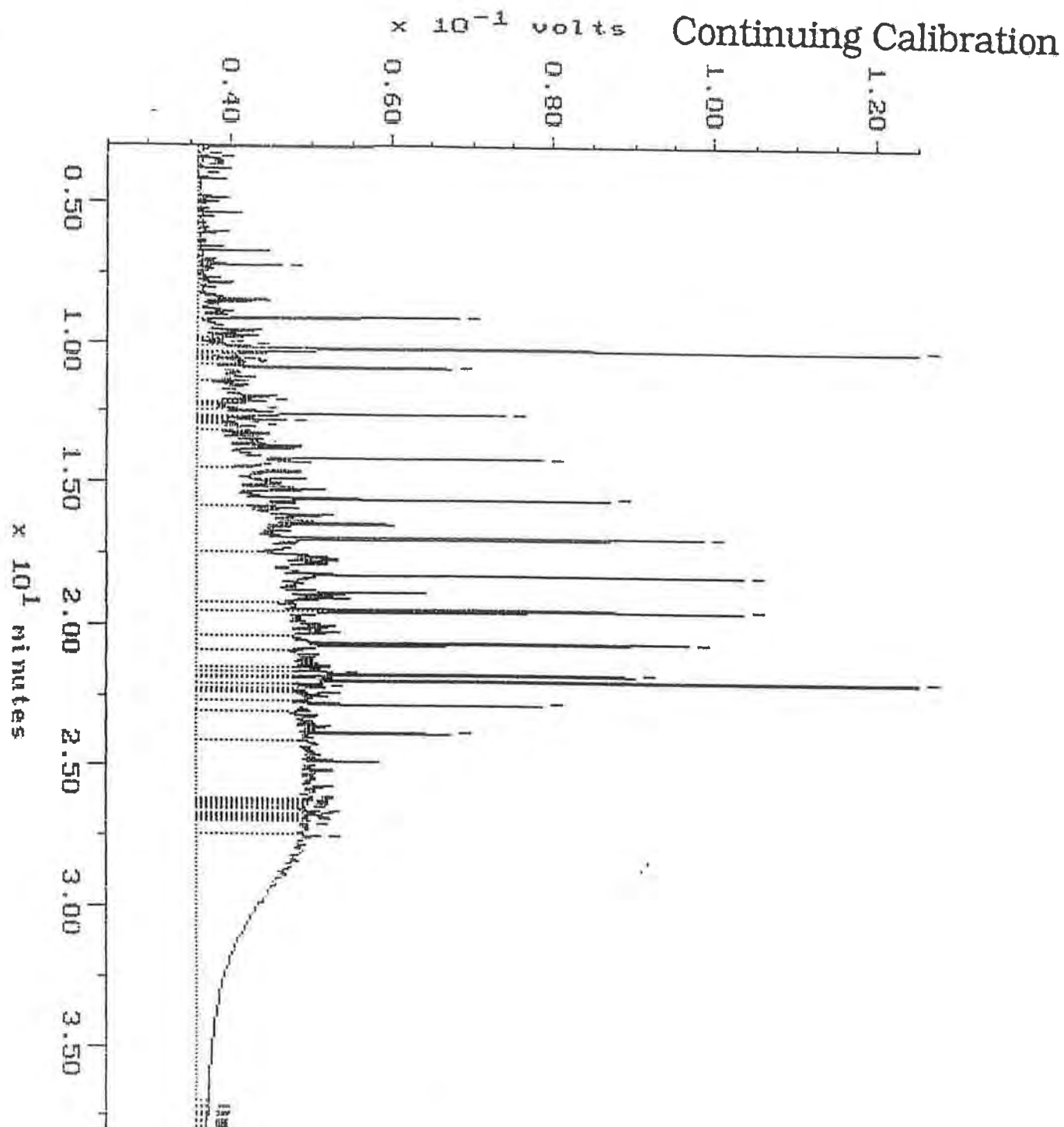


Sample: 0500 Channel: CLARENCE
Acquired: 11-DEC-92 20:31 Method: H:\BROU\MAXDATA\SERG\CVFUEL1211
Inj Vol: 1.00
Comments: ATJ KUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 1211SC11
Operator: A11

Continuing Calibration

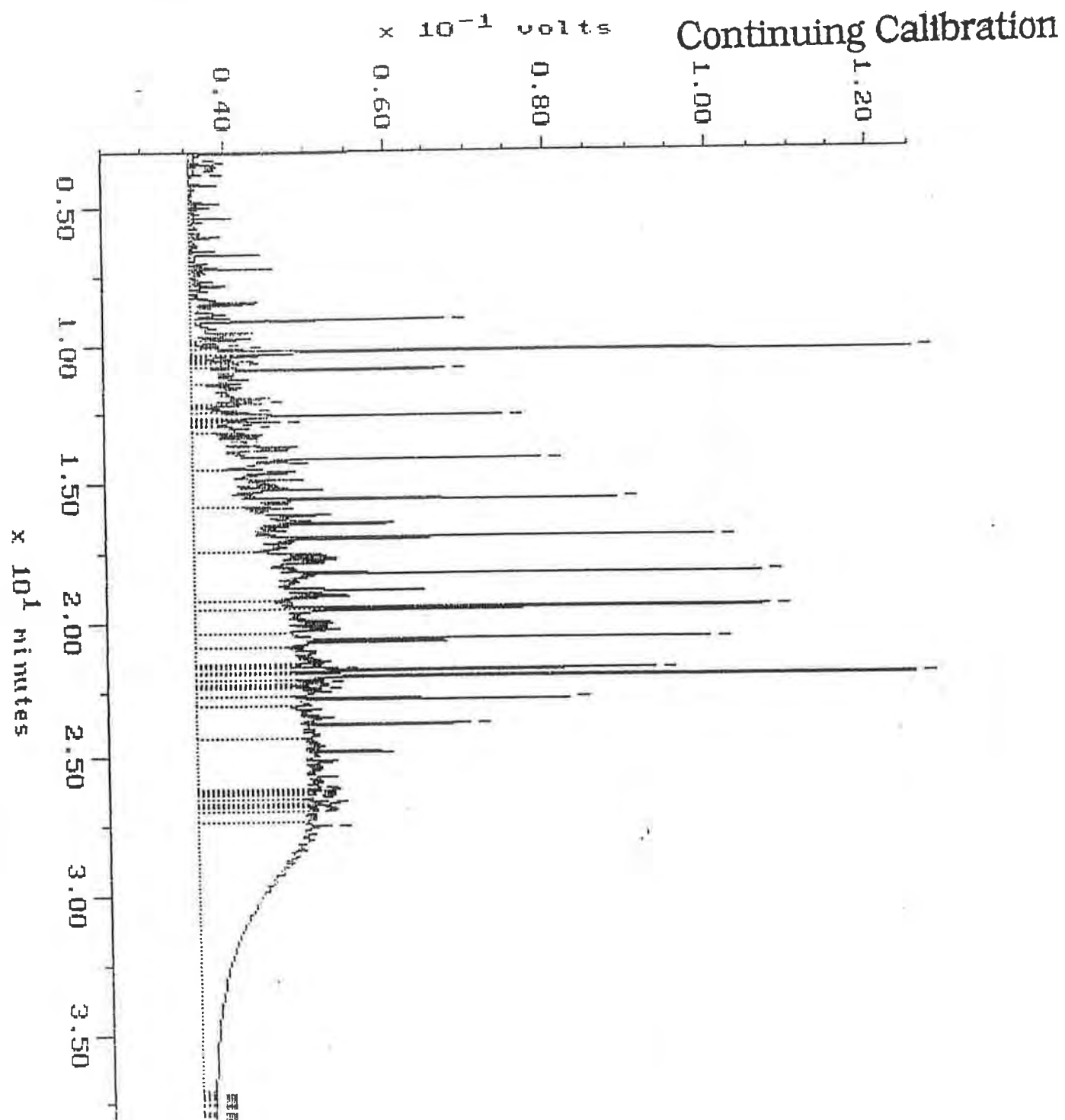




Sample: DM 538
Acquired: 11-DEC-92 18:12

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1211

Filename: 1211SD09
Operator: ATI





Analytical Technologies, Inc.

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335

DATE: 12-9-92 Page 1 of 1 ATI ACCESSION # 9212-092

COMPANY: Greentek		REPORT TO: Don Harrison, Greentek		ADDRESS:		PHONE: (206) 931-6000 FAX: () 41-6050		PROJECT MANAGER: Don Harrison		PROJECT NUMBER: 1957-004-R04		PROJECT NAME: Time Oil Jacket	
ATI will (DISPOSE) RETURN samples (circle one)													
Sample ID	Date	Time	Matrix	LabID									
DSP-1	12-9-92		Soil	1									
DSP-2				2									
HW-1				3									
HW-2				4									
HW-3				5									
HW-4				6									
Turnaround Time					Sample Receipt								
STANDARD TAT					TOTAL # CONTAINERS REC'D					0			
1 WEEK TAT					COC SEALS PRESENT?					N			
4 WORK DAY TAT					COC SEALS INTACT?					N			
3 WORK DAY TAT					RECEIVED COLD?					N			
2 WORK DAY TAT					RECEIVED INTACT?					1			
24 HOUR TAT					RECEIVED VIA:					1-2-93			
Special Instructions: WTPH-D (extended into oil range please) DSP samples - standard TAT, HW samples - 3 day * Metals needed: extract high concentrations													
Relinquished By:					Relinquished By:					Relinquished By:			
Date:					Date:					Date:			
Time:					Time:					Time:			
Received By:					Received By:					Received By:			
Date:					Date:					Date:			
Time:					Time:					Time:			

Corporate Offices: 5550 Morehouse Drive, San Diego, CA 92121 (619)458-9141

in DSP Samples



Analytical**Technologies, Inc.**

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John H. Taylor, Jr., Laboratory Manager
Frederick W. Grothkopp, Technical Director

ATI I.D. # 9212-108

December 28, 1992

GeoEngineers

GeoEngineers, Inc.
8410 154th Ave. N.E.
Redmond, WA 98052

DEC 29 1992

Routing

DEH ☐ ☐ ☐

File

Attention : Don Hanson

Project Number : 1957-009-R04

Project Name : Jackpot - Time Oil

On December 16, 1992, Analytical Technologies, Inc., received two 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

MCS/hal/dmc



ATI I.D. # 9212-108

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : JACKPOT - TIME OIL

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9212-108-1	CSP-5	12/16/92	SOIL
9212-108-2	HW-7	12/16/92	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 the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



ATI I.D. # 9212-108

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : JACKPOT - TIME OIL

ANALYSIS	TECHNIQUE	REFERENCE	LAB
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
MOISTURE	GRAVIMETRIC	CLP SOW ILMO1.0	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

ATI I.D. # 9212-108

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : N/A
PROJECT # : 1957-009-R04	DATE RECEIVED : N/A
PROJECT NAME : JACKPOT - TIME OIL	DATE EXTRACTED : 12/17/92
CLIENT I.D. : METHOD BLANK	DATE ANALYZED : 12/17/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND	RESULT
FUEL HYDROCARBONS	<25
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	83 50 - 150

ATI I.D. # 9212-108-1

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : JACKPOT - TIME OIL
 CLIENT I.D. : CSP-5
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-D
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/16/92
 DATE RECEIVED : 12/16/92
 DATE EXTRACTED : 12/17/92
 DATE ANALYZED : 12/17/92
 UNITS : mg/Kg
 DILUTION FACTOR : 1

 COMPOUND

RESULT

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

190
 C12 - C24
 DIESEL

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

120
 C24 - C34
 MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

91

50 - 150

ATI I.D. # 9212-108-2

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/16/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/16/92
PROJECT NAME	: JACKPOT - TIME OIL	DATE EXTRACTED	: 12/17/92
CLIENT I.D.	: HW-7	DATE ANALYZED	: 12/17/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND	RESULT
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FUEL HYDROCARBONS	<27
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL

FUEL HYDROCARBONS	<110
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	83	50 - 150
-------------	----	----------



ATI I.D. # 9212-108

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: JACKPOT - TIME OIL	DATE EXTRACTED	: N/A
CLIENT I.D.	: 400 PPM CCV	DATE ANALYZED	: 12/17/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND% DIFFERENCE

FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL 12

FUEL HYDROCARBONS QUANTITATED USING DIESEL 9

ATI I.D. # 9212-108

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: JACKPOT - TIME OIL	DATE EXTRACTED	: N/A
CLIENT I.D.	: 500 PPM CCV	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND	% DIFFERENCE
----------	--------------

FUEL HYDROCARBONS QUANTITATED USING DIESEL	6
--	---

ATI I.D. # 9212-108

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.	SAMPLE I.D. # : 9212-108-2
PROJECT # : 1957-009-R04	DATE EXTRACTED : 12/17/92
PROJECT NAME : JACKPOT - TIME OIL	DATE ANALYZED : 12/17/92
METHOD : WA DOE WTPH-D	UNITS : mg/Kg
SAMPLE MATRIX : SOIL	

COMPOUND	SAMPLE RESULT	DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (MOTOR OIL)	<100	<100	NC	N/A	N/A	N/A	N/A	N/A	N/A
	CONTROL LIMITS					% REC.			RPD
DIESEL						63 - 131			20
	SURROGATE RECOVERIES			SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL				90		83		50 - 150	

NC = Not Calculable.

ATI I.D. # 9212-108

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-108-2
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/17/92
PROJECT NAME	: JACKPOT - TIME OIL	DATE ANALYZED	: 12/17/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	<25	NC	200	179	90	180	90	1
	CONTROL LIMITS					% REC.			RPD
DIESEL						63 - 131			20
	SURROGATE RECOVERIES			SPIKE		DUP. SPIKE	LIMITS		
O-TERPHENYL				90		83		50 - 150	

NC = Not Calculable.

ATI I.D. # 9212-108

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : JACKPOT - TIME OIL
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/17/92
DATE ANALYZED : 12/18/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	200	181	91	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		87		N/A		50 - 150	

ATI I.D. # 9212-108

GENERAL CHEMISTRY ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : JACKPOT - TIME OIL

MATRIX : SOIL

PARAMETER	DATE ANALYZED
-----------	---------------

MOISTURE	12/21/92
----------	----------

ATI I.D. # 9212-108

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : JACKPOT - TIME OIL

MATRIX : SOIL

UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9212-108-1	CSP-5	12
9212-108-2	HW-7	8.6

ATI I.D. # 9212-108

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : JACKPOT - TIME OIL

MATRIX : SOIL

UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9212-116-1	8.0	8.7	8	N/A	N/A	N/A

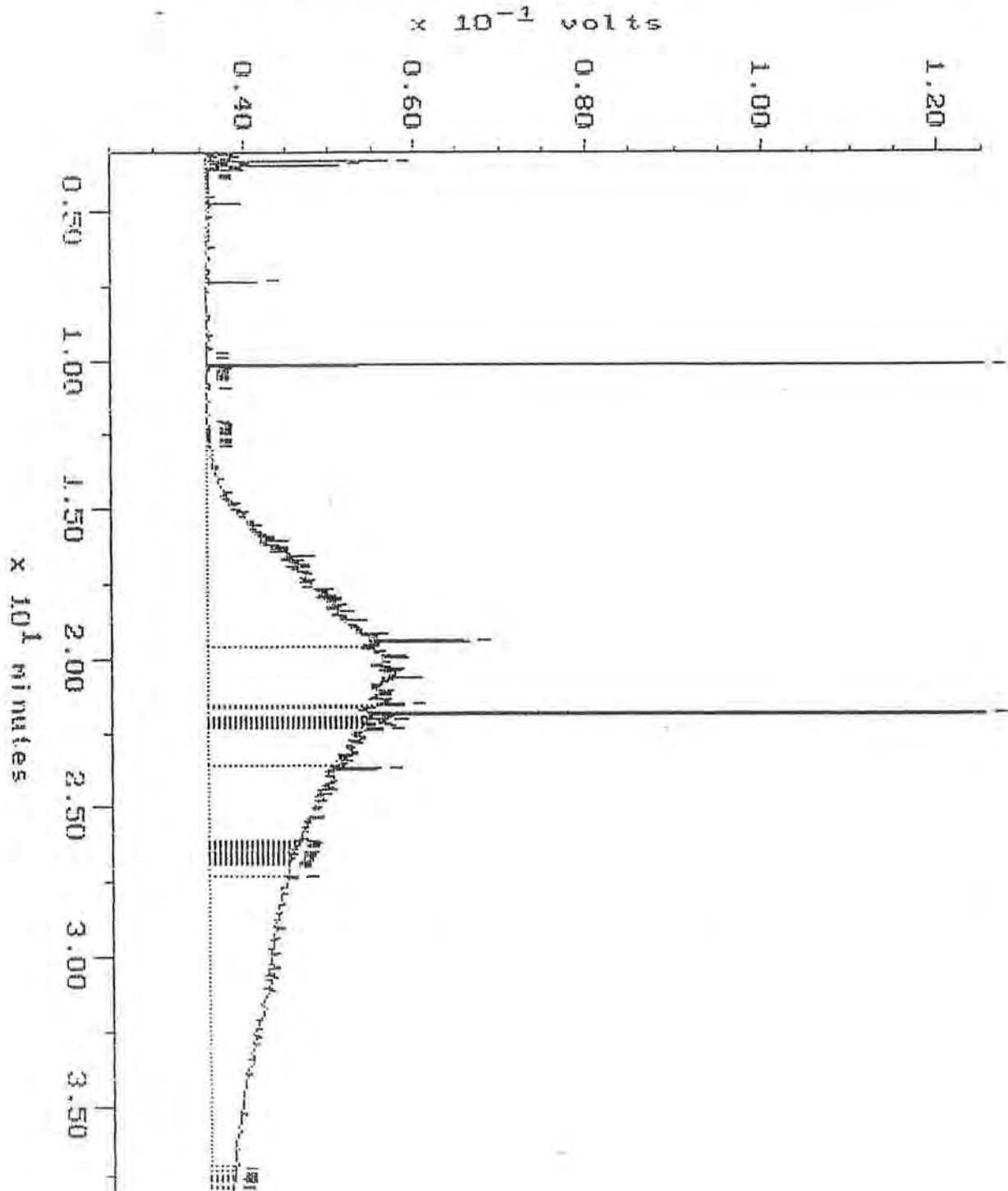
$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Sample: 9212-108-1
 Acquired: 17-DEC-92 23:41
 Inj Vol: 1.00

Channel: DEMITRI
 Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1217

Filename: 1217SD12
 Operator: ATI

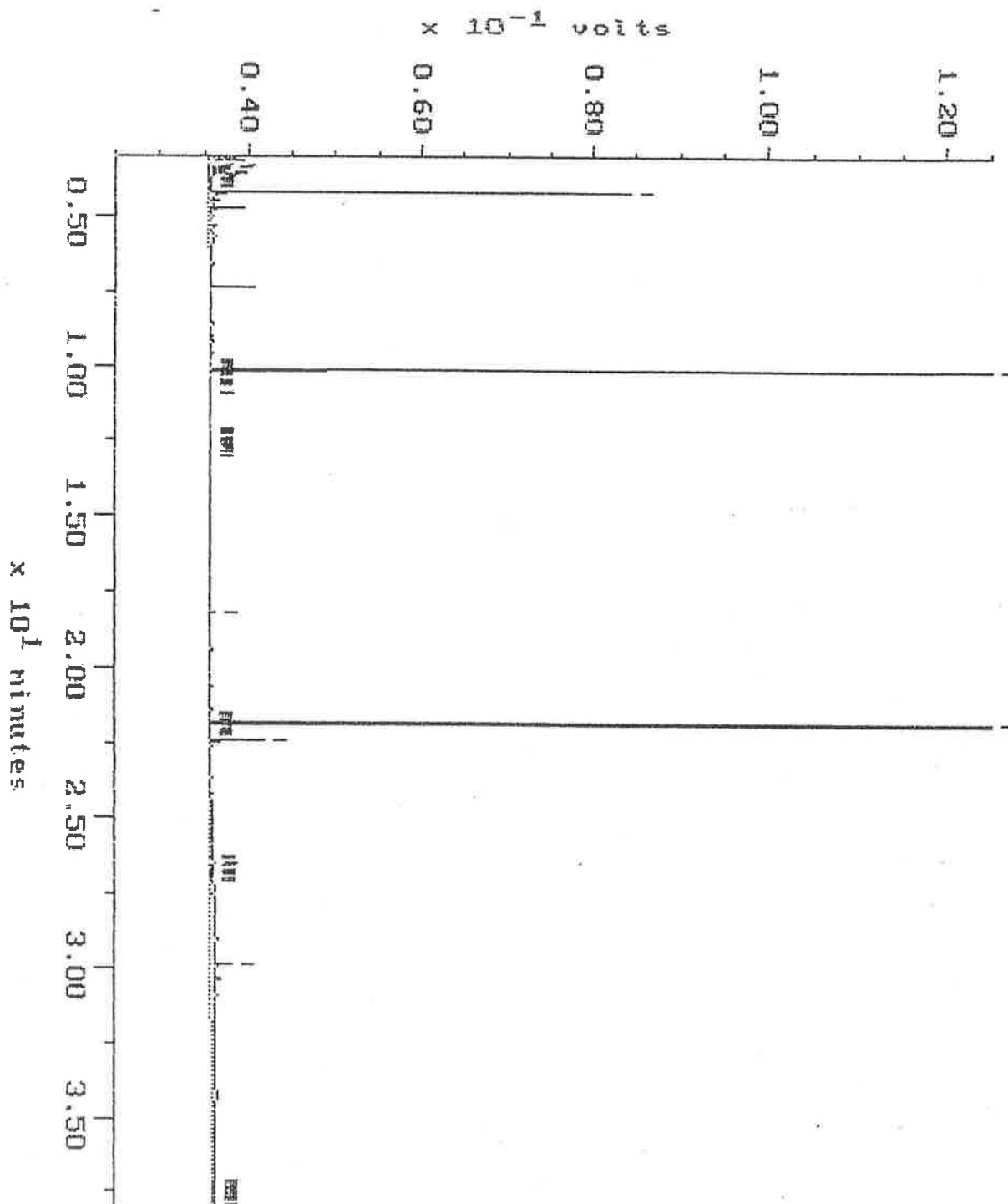


WA DOE WTPH-D

Sample: 9212-108-2
Acquired: 17-DEC-92 19:30
Inj Vol: 1.00

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1217

Filename: 1217SD07
Operator: ATI

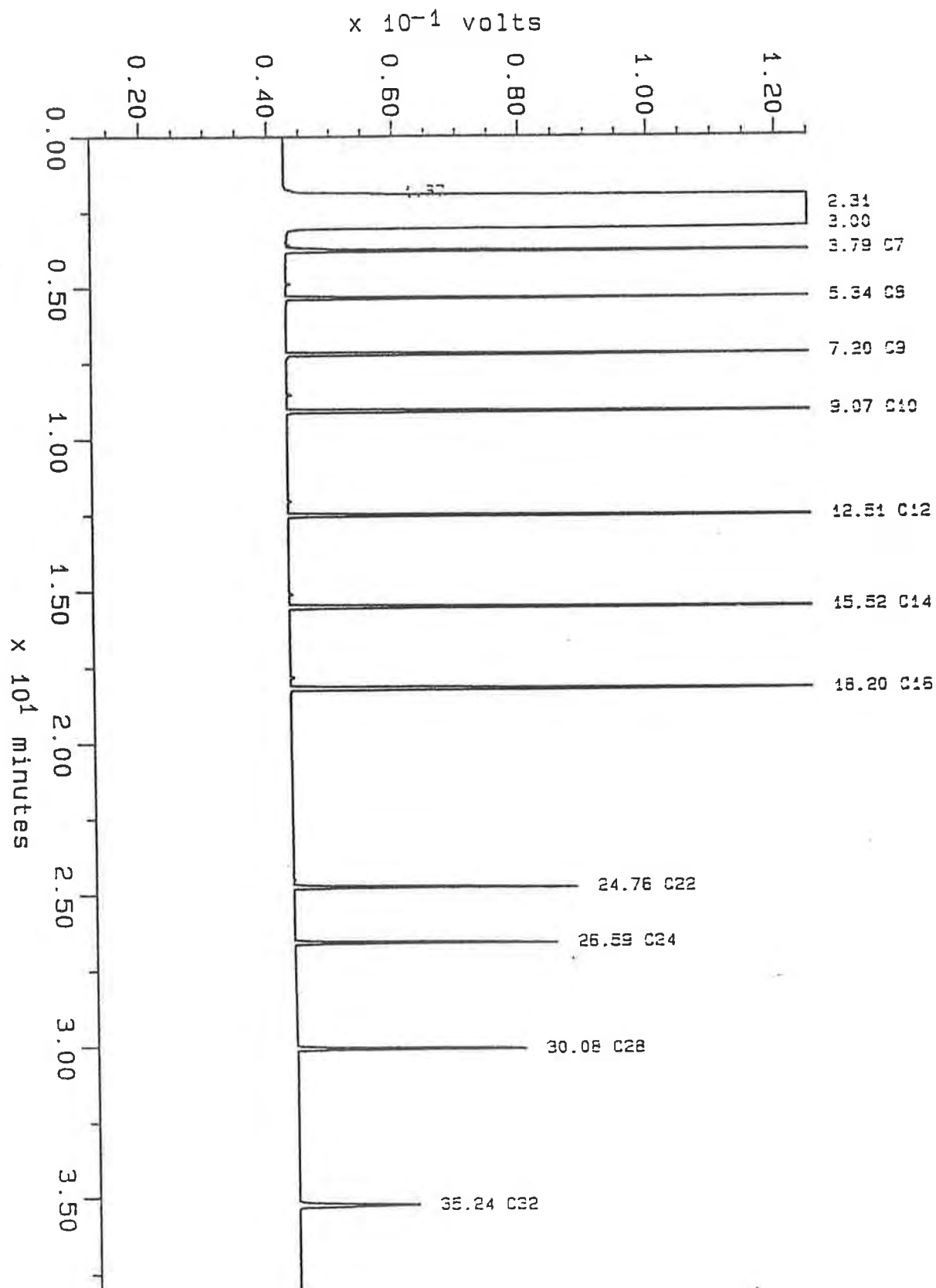


Alkane

Sample: ALKANE
Acquired: 02-NOV-92 12:49
Inj Vol: 1.00

Channel: DEMITRI
Method: L:\BR02\MAXDATA\SERGE-D\FUEL0902

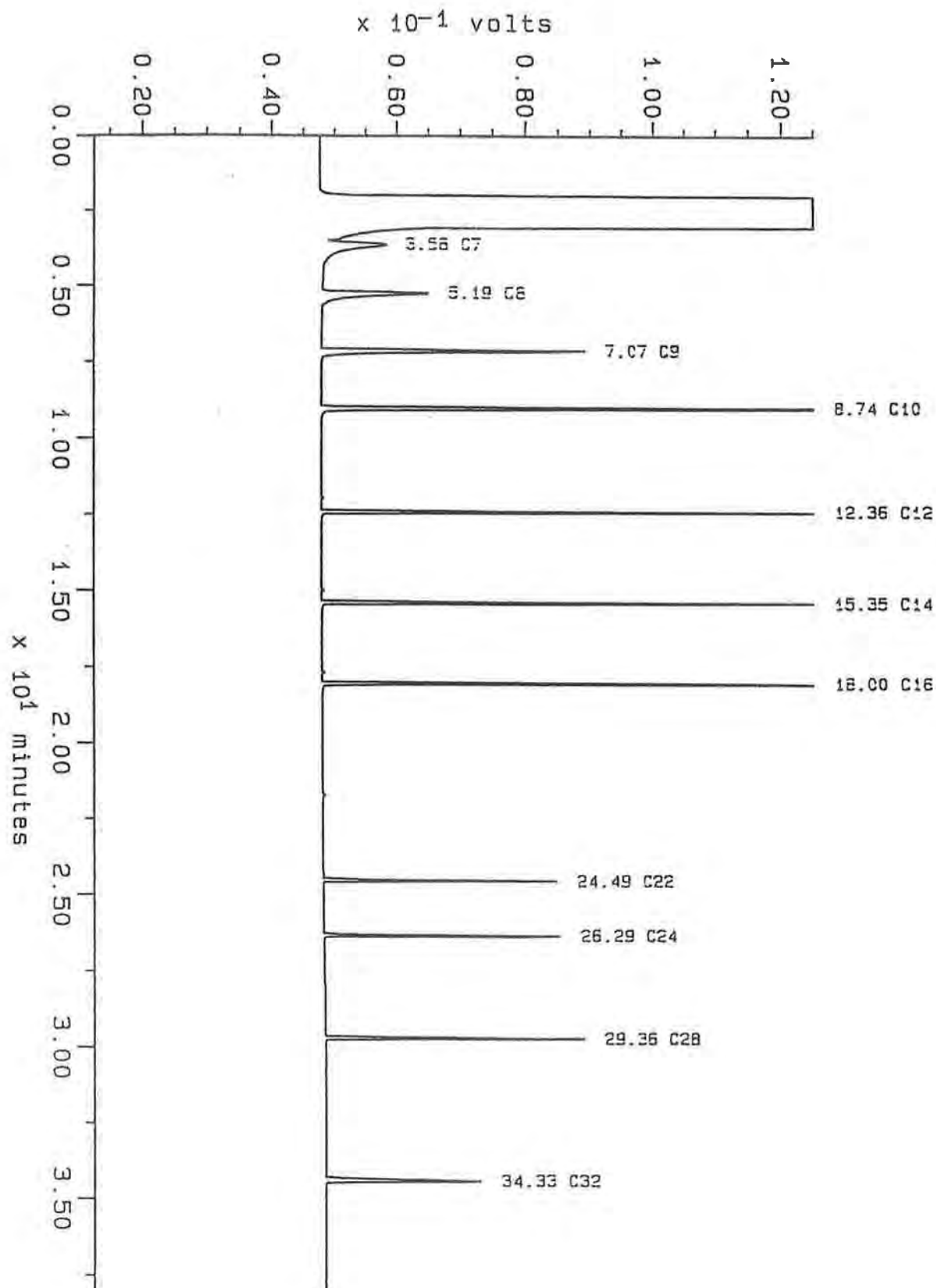
Filename: 1102SD02
Operator: ATI



Sample: ALKANE
Acquired: CLOCK NOT SET
Inj Vol: 1.00

Channel: CLARENCE
Method: H: \ER02\MAXDATA\SERGE-C\FUEL1003

Filename: 1009SC40
Operator: ATI

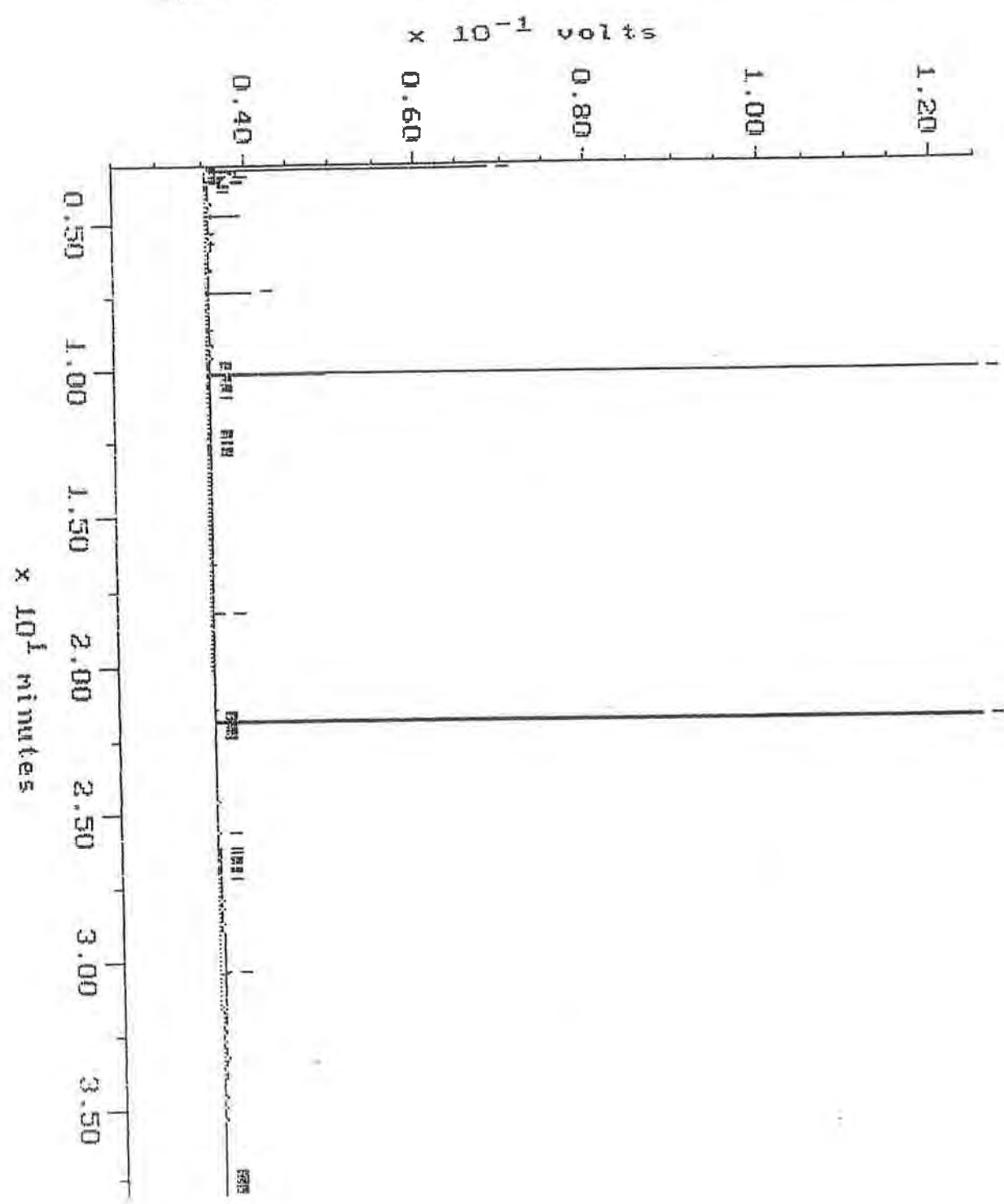


Blank

Sample: SRB12-17
Acquired: 17-DEC-92 19:04
Inj Vol: 1.00

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1217

Filename: 1217SD06
Operator: ATI

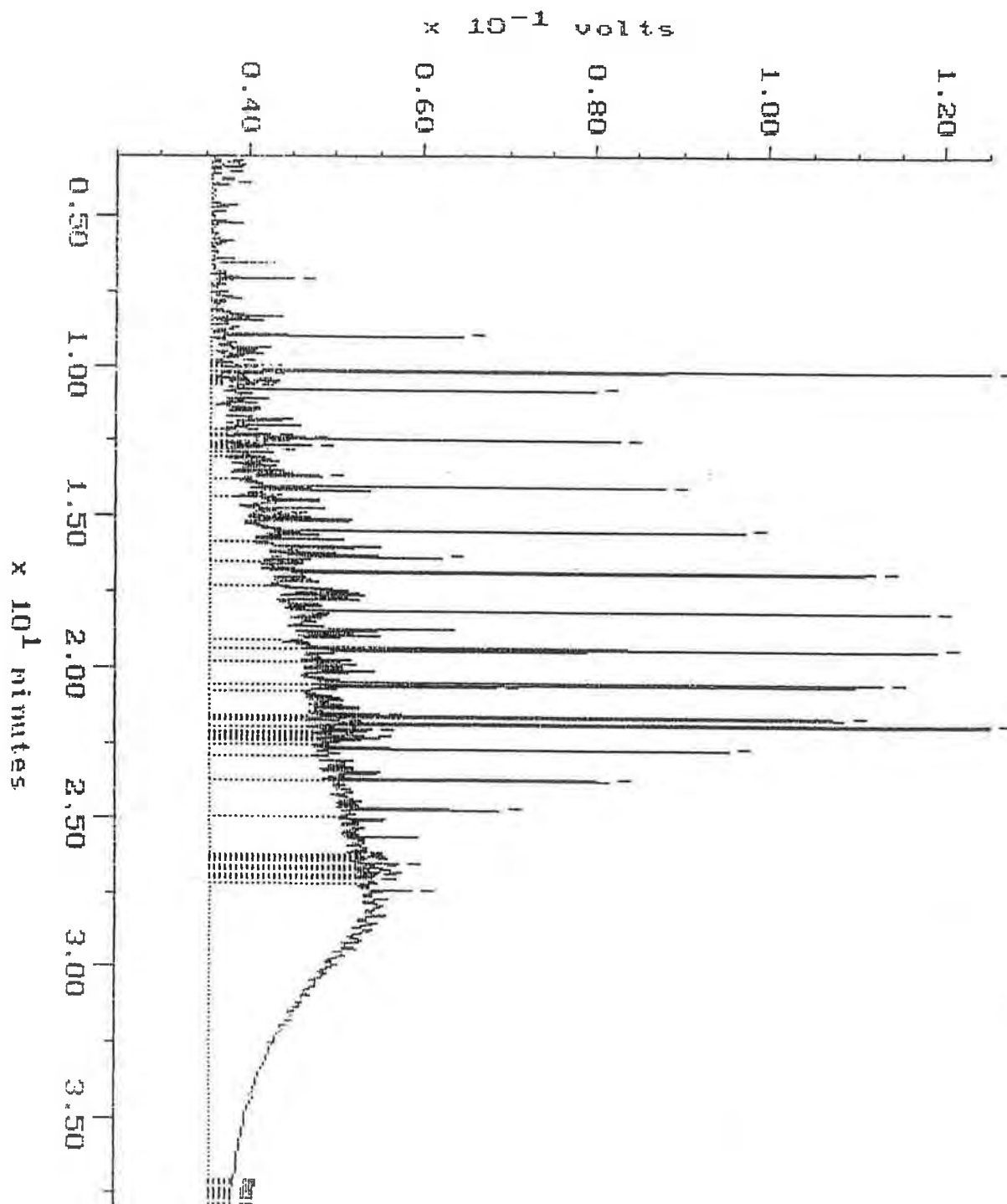


Continuing Calibration

Sample: DM533
Acquired: 17-DEC-92 14:37
Inj Vol: 1.00

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1217

Filename: 1217SD02
Operator: ATI

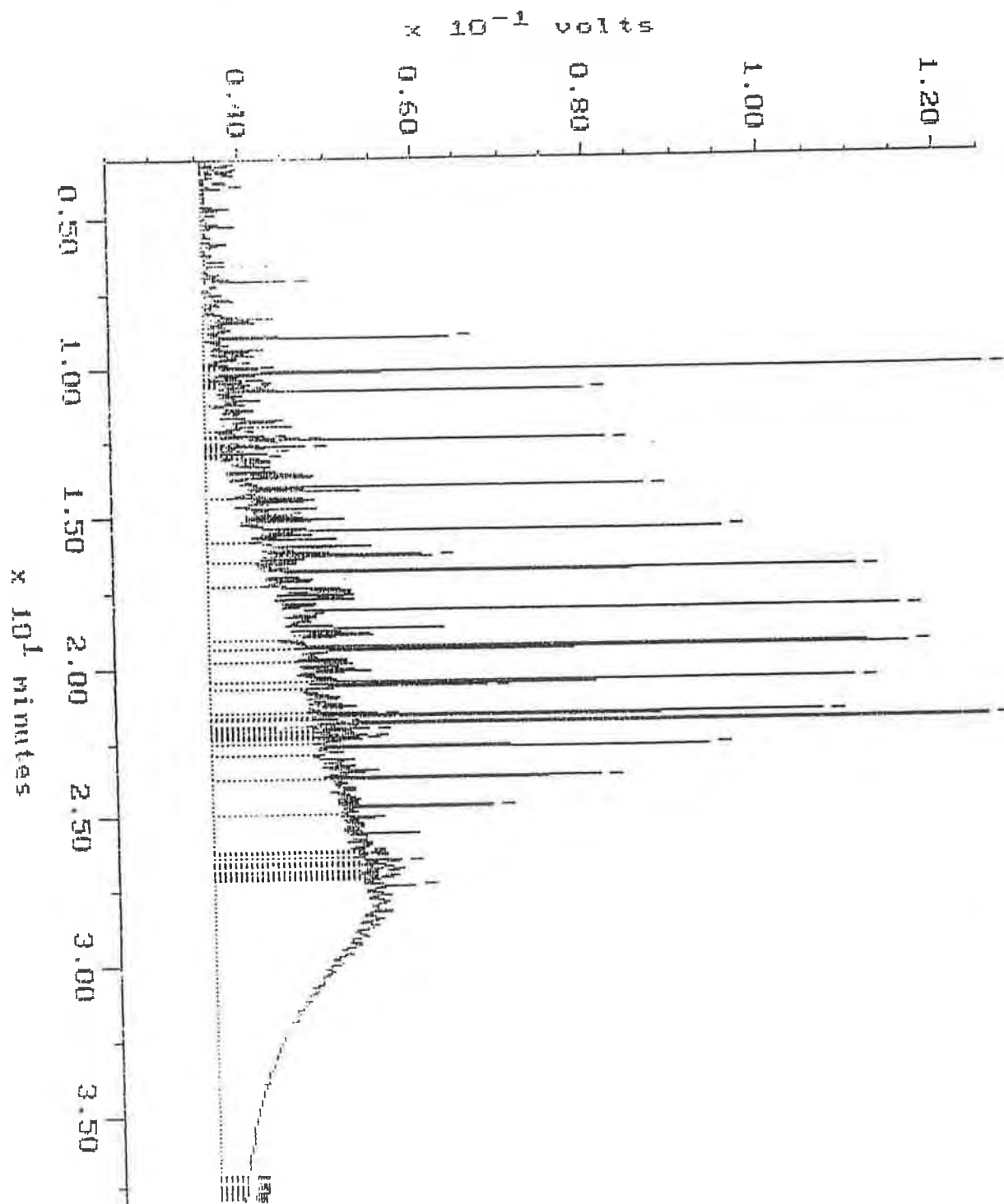


Continuing Calibration

Sample: CM 803
Acquired: 18-JUL-92 1:13
Inj Vol: 1.00

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1217

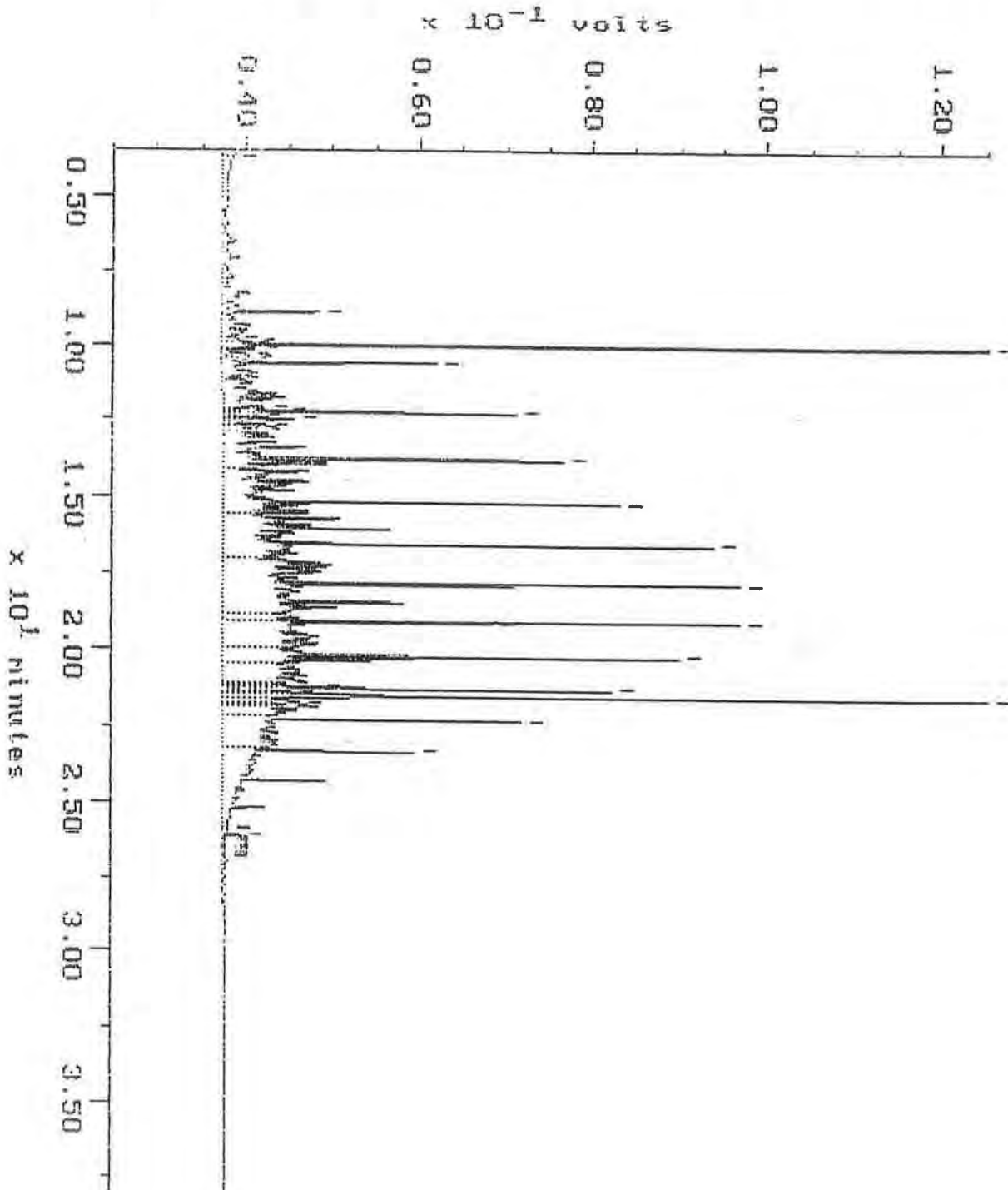
Filename: 1217SD14
Operator: ATI



Continuing Calibration

Sample: D 520 Channel: CLARENCE
Acquired: 18-DEC-92 7:38 Method: H:\BRO2\MAXDATA\SERGE-2\FUEL1213
Comments: AT: RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

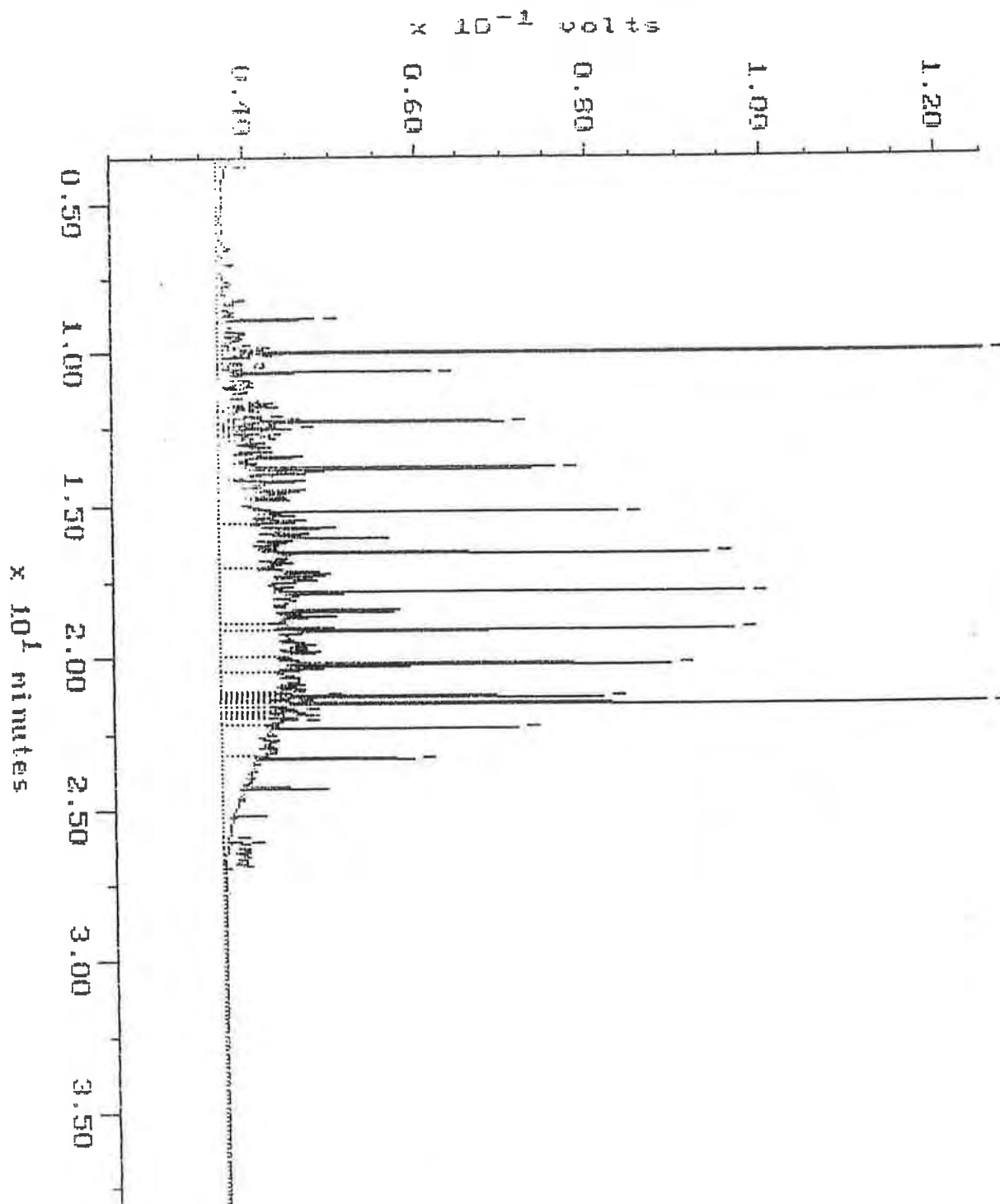
Filename: 1218SC01
Operator: ATI



Continuing Calibration

Sample: 9500 Channel: CLARENCE
Acquired: 12-DEC-92 11:25 Method: H:\8802\MAXDATA\SERGE-C\FUEL1218
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 1218SC36
Operator: ATI





Chain of Custody DATE 12/16/92 PAGE 1 OF 1
LABORATORY NUMBER: 9212-108

COMPANY: Geoff College

ADDRESS: 86110 15414 Ave NE

PHONE: 2-1-1000

SAMPLED BY: Lisa Derr

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATI Disposal @ \$5.00 each

SAMPLE ID

DATE _____

TIME	MA:IF
10:00	10:00
10:15	10:15
10:30	10:30
10:45	10:45
11:00	11:00
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11:45	11:45
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11

[illegible][illegible]

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Analytical**Technologies**, Inc.

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John H. Taylor, Jr., Laboratory Manager
Frederick W. Grothkopp, Technical Director

ATI I.D. # 9212-134

December 29, 1992

GeoEngineers

DEC 29 1992

GeoEngineers, Inc.
8410 154th Ave. N.E.
Redmond, WA 98052

Routing

DEH ☐ ☐ ☐

File

Attention : Don Hanson

Project Number : 1957-009-R04

Project Name : Time Oil Jackpot

On December 18, 1992, Analytical Technologies, Inc., received four 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

MCS/hal/ff



ATI I.D. # 9212-134

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9212-134-1	HW-10	12/18/92	SOIL
9212-134-2	HW-11	12/18/92	SOIL
9212-134-3	HW-12	12/18/92	SOIL
9212-134-4	HW-13	12/18/92	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 the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



ATI I.D. # 9212-134

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
HYDROCARBON IDENTIFICATION	GC/FID	WA DOE WTPH-HCID	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-G	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
MOISTURE	GRAVIMETRIC	CLP SOW ILM01.0	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract



ATI I.D. # 9212-134

VOLATILE ORGANIC ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY	LIMITS
BROMOFLUOROBENZENE	95 52 - 116



Analytical Technologies, Inc.

ATI I.D. # 9212-134-3

VOLATILE ORGANIC ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 12/18/92
PROJECT # : 1957-009-R04	DATE RECEIVED : 12/18/92
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/18/92
CLIENT I.D. : HW-12	DATE ANALYZED : 12/19/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
EPA METHOD : 8020 (BETX)	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND	RESULT
BENZENE	<0.027
ETHYLBENZENE	0.64
TOLUENE	0.076
TOTAL XYLENES	3.1

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	F	52 - 116
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F = Out of limits due to matrix interference.

ATI I.D. # 9212-134

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-128-2
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/18/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/19/92
EPA METHOD	: 8020 (BETX)	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	<0.025	1.00	0.857	86	0.838	84	2
TOLUENE	<0.025	1.00	0.876	88	0.865	87	1
TOTAL XYLENES	<0.025	2.00	1.74	87	1.74	87	0

CONTROL LIMITS

	% REC.	RPD
BENZENE	35 - 113	20
TOLUENE	43 - 107	20
TOTAL XYLENES	46 - 114	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	86	92	52 - 116



ATI I.D. # 9212-134

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
EPA METHOD : 8020 (BETX)
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/18/92
DATE ANALYZED : 12/18/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	<0.025	1.00	0.967	97	N/A	N/A	N/A
TOLUENE	<0.025	1.00	0.984	98	N/A	N/A	N/A
TOTAL XYLENES	<0.025	2.00	1.95	98	N/A	N/A	N/A

CONTROL LIMITS				% REC.	RPD
BENZENE				63 - 115	20
TOLUENE				75 - 110	20
TOTAL XYLENES				79 - 109	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	98	N/A	52 - 116



ATI I.D. # 9212-134

HYDROCARBON IDENTIFICATION
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: SOIL	DILUTION FACTOR	: 1
METHOD	: WA DOE WTPH-HCID		
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

RESULT

GASOLINE CONCENTRATION LESS THAN 20 mg/Kg BY WA DOE WTPH-HCID.

DIESEL CONCENTRATION LESS THAN 50 mg/Kg BY WA DOE WTPH-HCID.

PETROLEUM HYDROCARBONS >C24 CONCENTRATION LESS THAN 100 mg/Kg BY WA DOE WTPH-HCID.

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

111

50 - 150



ATI I.D. # 9212-134-1

HYDROCARBON IDENTIFICATION
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : HW-10
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-HCID
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/18/92
DATE RECEIVED : 12/18/92
DATE EXTRACTED : 12/18/92
DATE ANALYZED : 12/18/92
DILUTION FACTOR : 1

RESULT

GASOLINE CONCENTRATION LESS THAN 20 mg/Kg BY WA DOE WTPH-HCID.

DIESEL CONCENTRATION LESS THAN 50 mg/Kg BY WA DOE WTPH-HCID.

PETROLEUM HYDROCARBONS >C24 CONCENTRATION LESS THAN 100 mg/Kg BY WA DOE WTPH-HCID.

SURROGATE PERCENT RECOVERY		LIMITS
O-TERPHENYL	121	50 - 150

ATI I.D. # 9212-134

HYDROCARBON IDENTIFICATION ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: N/A
CLIENT I.D.	: 400 PPM CCV	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-HCID	DILUTION FACTOR	: 1

COMPOUND	% DIFFERENCE
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FUEL HYDROCARBONS QUANTITATED USING GASOLINE	7
FUEL HYDROCARBONS QUANTITATED USING DIESEL	10



ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-G	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDRESULT

FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

TRIFLUOROTOLUENE	90	50 - 150
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ATI I.D. # 9212-134-2

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/18/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/18/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: HW-11	DATE ANALYZED	: 12/19/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-G	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDRESULT

FUEL HYDROCARBONS	<6
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

TRIFLUOROTOLUENE	79	50 - 150
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ATI I.D. # 9212-134-3

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/18/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/18/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: HW-12	DATE ANALYZED	: 12/20/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-G	DILUTION FACTOR	: 20
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND	RESULT
FUEL HYDROCARBONS	2,700
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY	LIMITS
TRIFLUOROTOLUENE	83 50 - 150

ATI I.D. # 9212-134-4

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/18/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/18/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: HW-13	DATE ANALYZED	: 12/20/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-G	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDRESULT

FUEL HYDROCARBONS	32
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

TRIFLUOROTOLUENE	83	50 - 150
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Analytical Technologies, Inc.

ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.	SAMPLE I.D. # : 9212-134-2
PROJECT # : 1957-009-R04	DATE EXTRACTED : 12/18/92
PROJECT NAME : TIME OIL JACKPOT	DATE ANALYZED : 12/19/92
METHOD : WA DOE WTPH-G	UNITS : mg/Kg
SAMPLE MATRIX : SOIL	

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (GASOLINE)	<5	<5	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
GASOLINE						N/A			20
SURROGATE RECOVERIES				SPIKE		DUP. SPIKE		LIMITS	
TRIFLUOROTOLUENE				79		67		50 - 150	

NC = Not Calculable.

ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-128-2
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/18/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/19/92
METHOD	: WA DOE WTPH-G	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (GASOLINE)	<5	<5	NC	100	86.0	86	89.5	90	4
CONTROL LIMITS						% REC.			RPD
GASOLINE						50 - 112			20
SURROGATE RECOVERIES				SPIKE		DUP. SPIKE		LIMITS	
TRIFLUOROTOLUENE				93		89		50 - 150	

NC = Not Calculable.



Analytical Technologies, Inc.

ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-G
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/18/92
DATE ANALYZED : 12/18/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (GASOLINE)	<5	100	95.9	96	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
GASOLINE				80 - 119			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
TRIFLUOROTOLUENE		93		N/A		50 - 150	



ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/19/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDRESULT

FUEL HYDROCARBONS	<25
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	90	50 - 150
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ATI I.D. # 9212-134-2

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : HW-11
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-D
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/18/92
 DATE RECEIVED : 12/18/92
 DATE EXTRACTED : 12/18/92
 DATE ANALYZED : 12/19/92
 UNITS : mg/Kg
 DILUTION FACTOR : 1

 COMPOUND

RESULT

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

<28
 C12 - C24
 DIESEL

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

<110
 C24 - C34
 MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

98

50 - 150



ATI I.D. # 9212-134-3

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/18/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/18/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: HW-12	DATE ANALYZED	: 12/21/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 2

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDRESULT

FUEL HYDROCARBONS	410
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	640
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	116	50 - 150
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ATI I.D. # 9212-134-4

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 12/18/92
PROJECT # : 1957-009-R04	DATE RECEIVED : 12/18/92
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/18/92
CLIENT I.D. : HW-13	DATE ANALYZED : 12/21/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND	RESULT
FUEL HYDROCARBONS	34
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<110
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	96 50 - 150

ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: N/A
CLIENT I.D.	: 500 PPM CCV	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND	% DIFFERENCE
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FUEL HYDROCARBONS QUANTITATED USING DIESEL	3
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FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL	1
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ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: N/A
CLIENT I.D.	: 500 PPM CCV	DATE ANALYZED	: 12/21/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND	% DIFFERENCE
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FUEL HYDROCARBONS QUANTITATED USING DIESEL	1
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FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL	2
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ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-134-2
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/18/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/18/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	<25	NC	N/A	N/A	N/A	N/A	N/A	N/A
	CONTROL LIMITS					% REC.			RPD
DIESEL						N/A			20
	SURROGATE RECOVERIES			SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				98		92		50 - 150	

NC = Not Calculable.



ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : 9212-134-2
DATE EXTRACTED : 12/18/92
DATE ANALYZED : 12/18/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (MOTOR OIL)	<100	<100	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
MOTOR OIL						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				98		92		50 - 150	

NC = Not Calculable.

ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-123-1
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/18/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/18/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (MOTOR OIL)	<100	<100	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
MOTOR OIL						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				90		83		50 - 150	

NC = Not Calculable.

ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : 9212-123-1
DATE EXTRACTED : 12/18/92
DATE ANALYZED : 12/19/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	<25	NC	200	183	92	172	86	6
CONTROL LIMITS						% REC.			RPD
DIESEL						63 - 131			20
SURROGATE RECOVERIES				SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL				94		94		50 - 150	

NC = Not Calculable.



ATI I.D. # 9212-134

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: BLANK SPIKE
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/18/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/19/92
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<25	200	186	93	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		91		N/A		50 - 150	



ATI I.D. # 9212-134

GENERAL CHEMISTRY ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

PARAMETERDATE ANALYZED

MOISTURE

12/18/92



ATI I.D. # 9212-134

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9212-134-1	HW-10	15
9212-134-2	HW-11	11
9212-134-3	HW-12	8.3
9212-134-4	HW-13	5.5



ATI I.D. # 9212-134

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9212-116-4	18	19	5	N/A	N/A	N/A
MOISTURE	9212-134-1	15	15	0	N/A	N/A	N/A

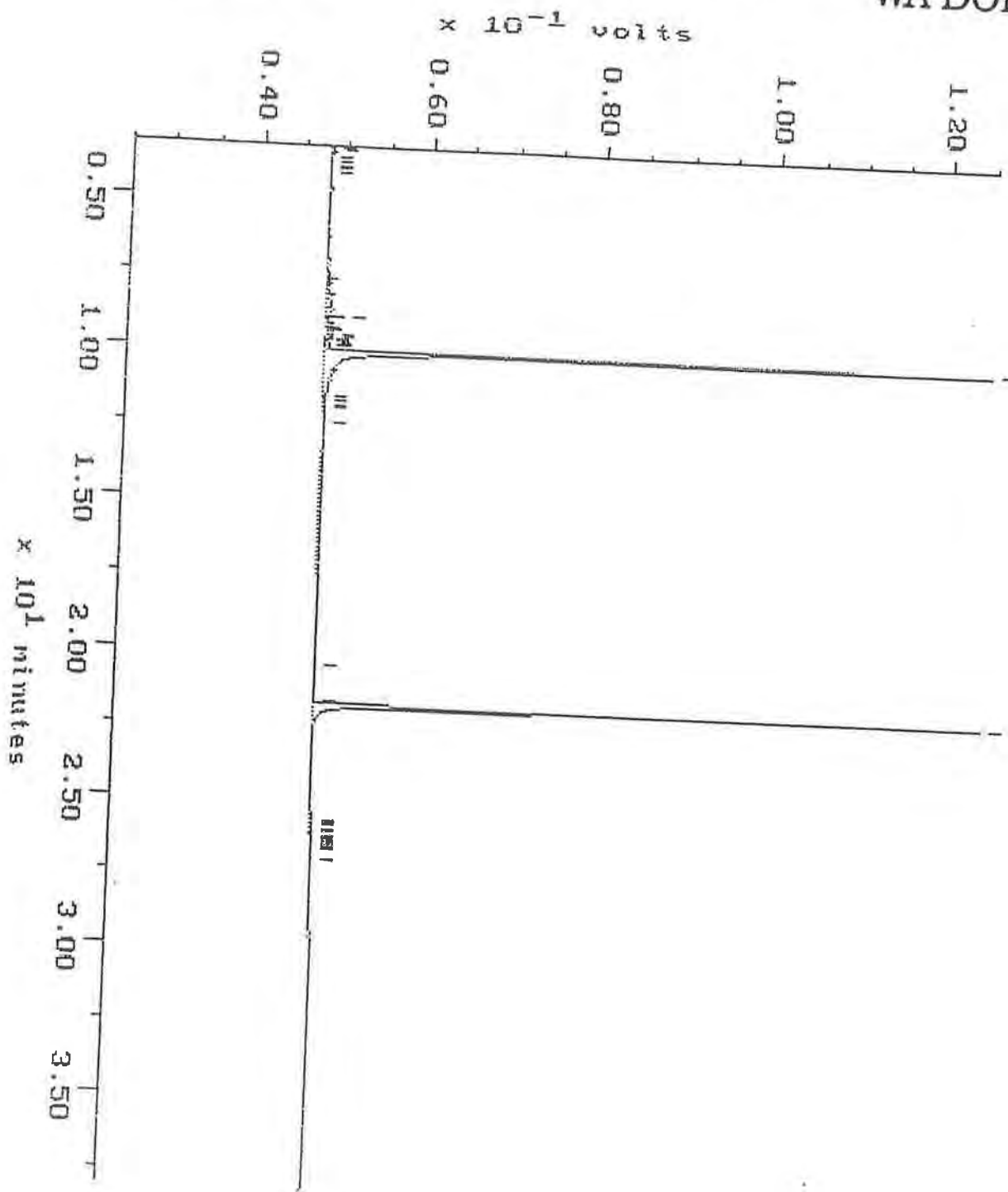
$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Sample: 9212-134-1
Acquired: 18-DEC-92 19:25
Inj Vol: 1.00

Channel: WILMA
Method: M:\BRO2\MAXDATA\WILMA\FUEL1218

Filename: 1218WI05
Operator: BRO
WA DOE WTPH-H

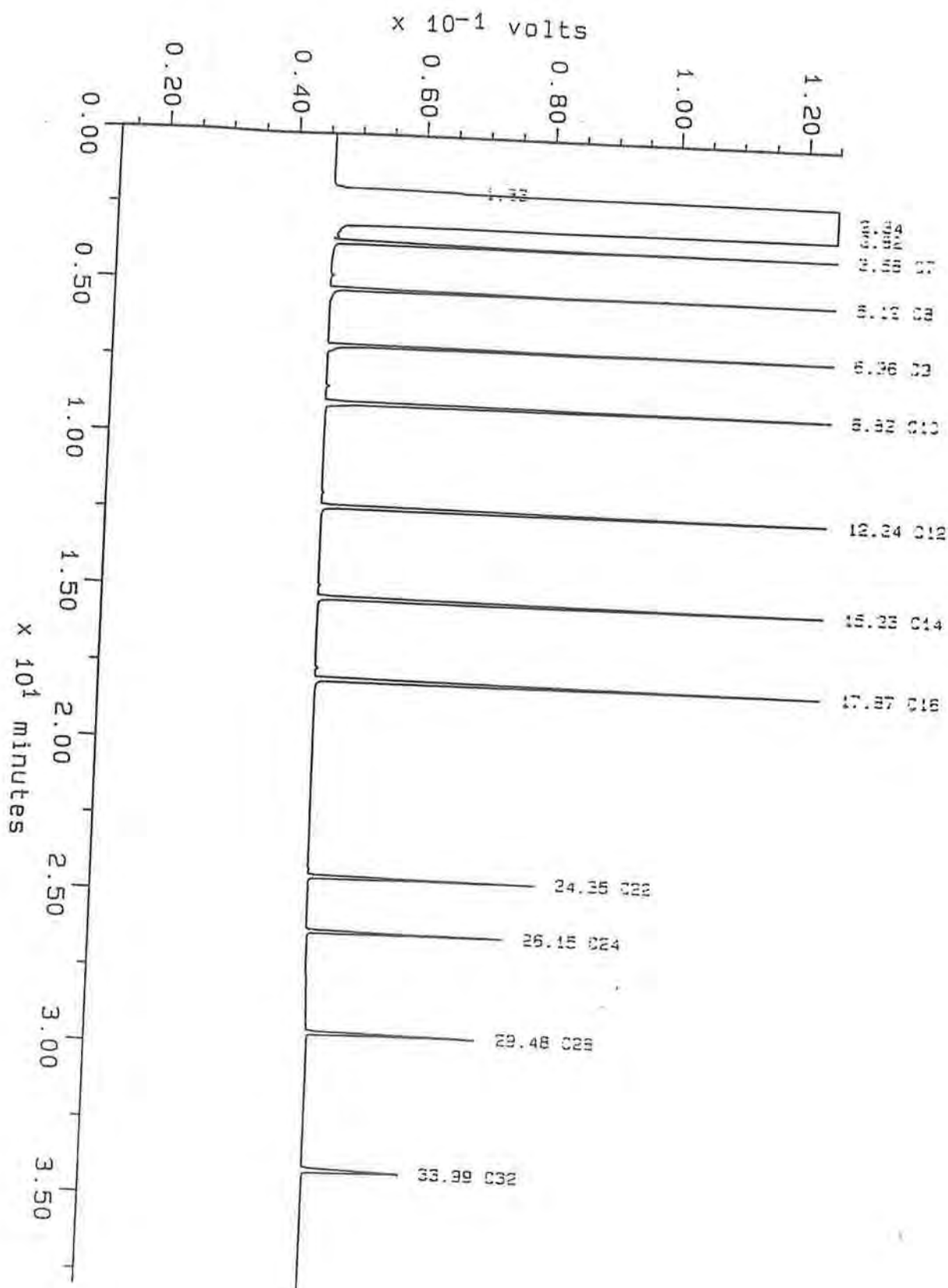


Sample: ALKANE
Acquired: 08-DEC-82 15:12
Inj Vol: 1.00

Channel: WILMA
Method: M:\ERO2\MAXDATA\WILMA\FUEL1208

Filename: 1208W102
Operator: ERO

Alkane

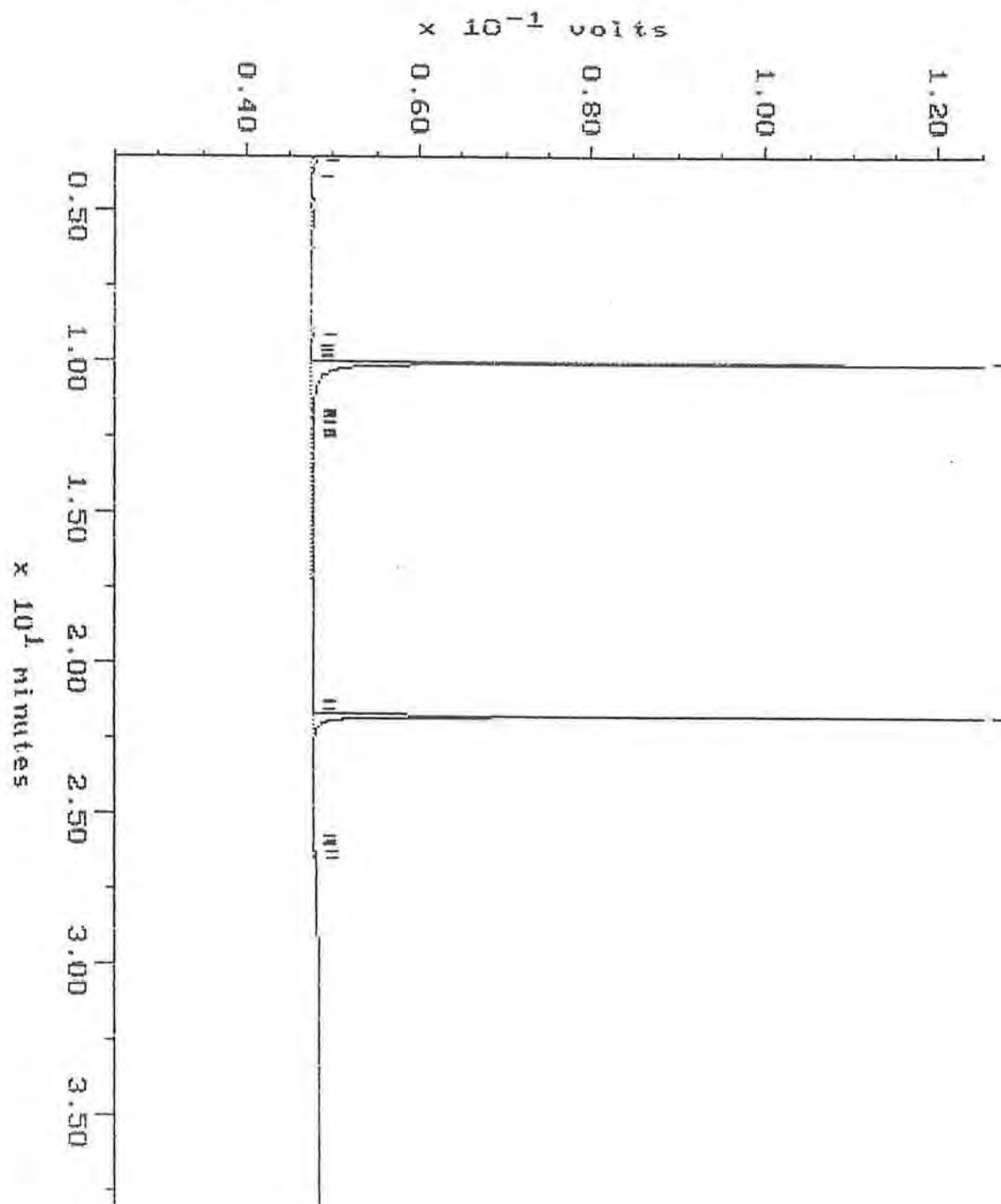


Blank

Sample: SRB12-18
Acquired: 18-DEC-92 17:03
Inj Vol: 1.00

Channel: WILMA
Method: M:\BRO2\MAXDATA\WILMA\FUEL1218

Filename: 1218WI02
Operator: BRO

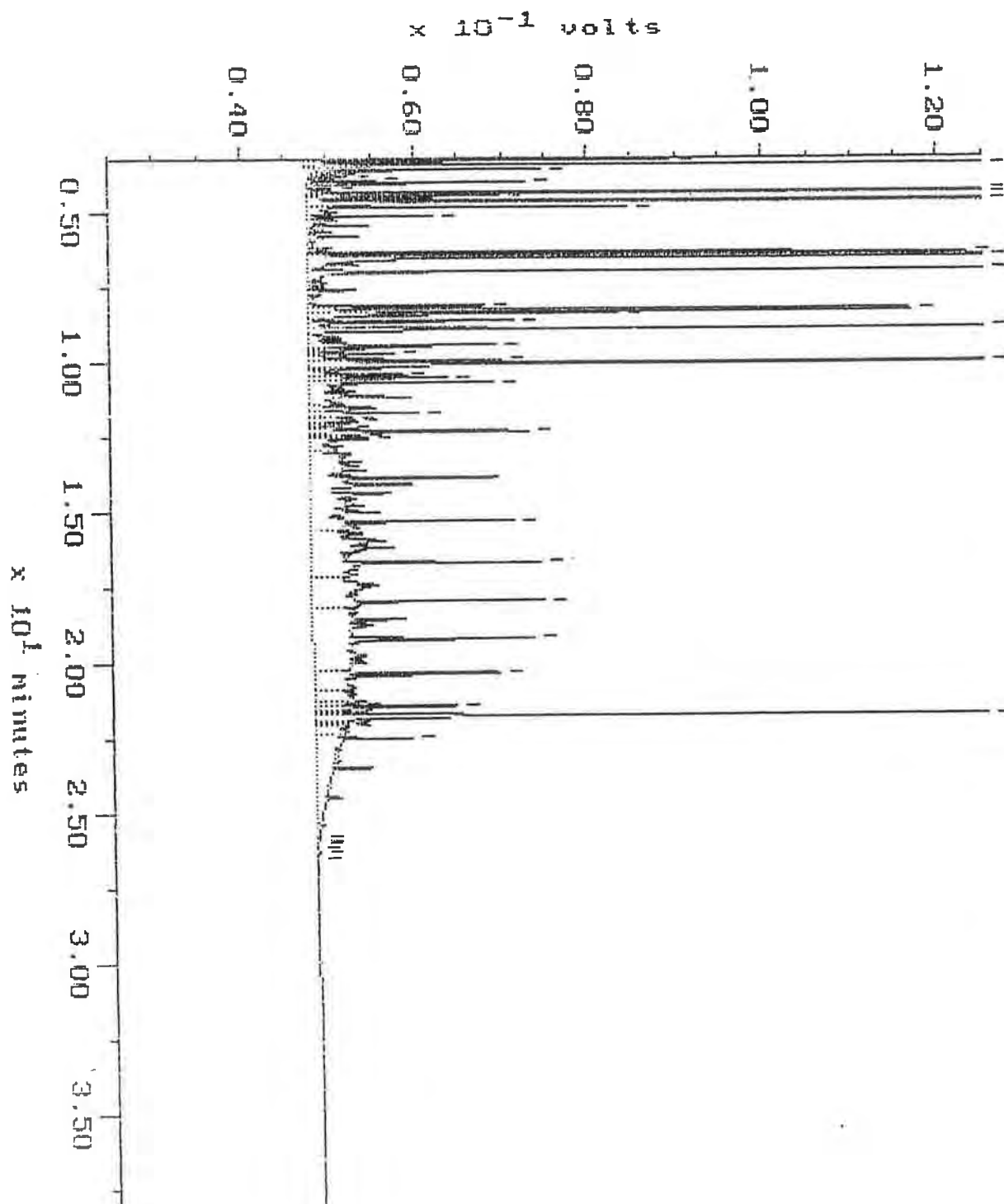


Continuing Calibration

Sample: DG 400
Acquired: 18-DEC-92 15:25
Inj Vol: 1.00

Channel: WILMA
Method: M:\BRO2\MAXDATA\WILMA\FUEL1218

Filename: 1218W101
Operator: BRD

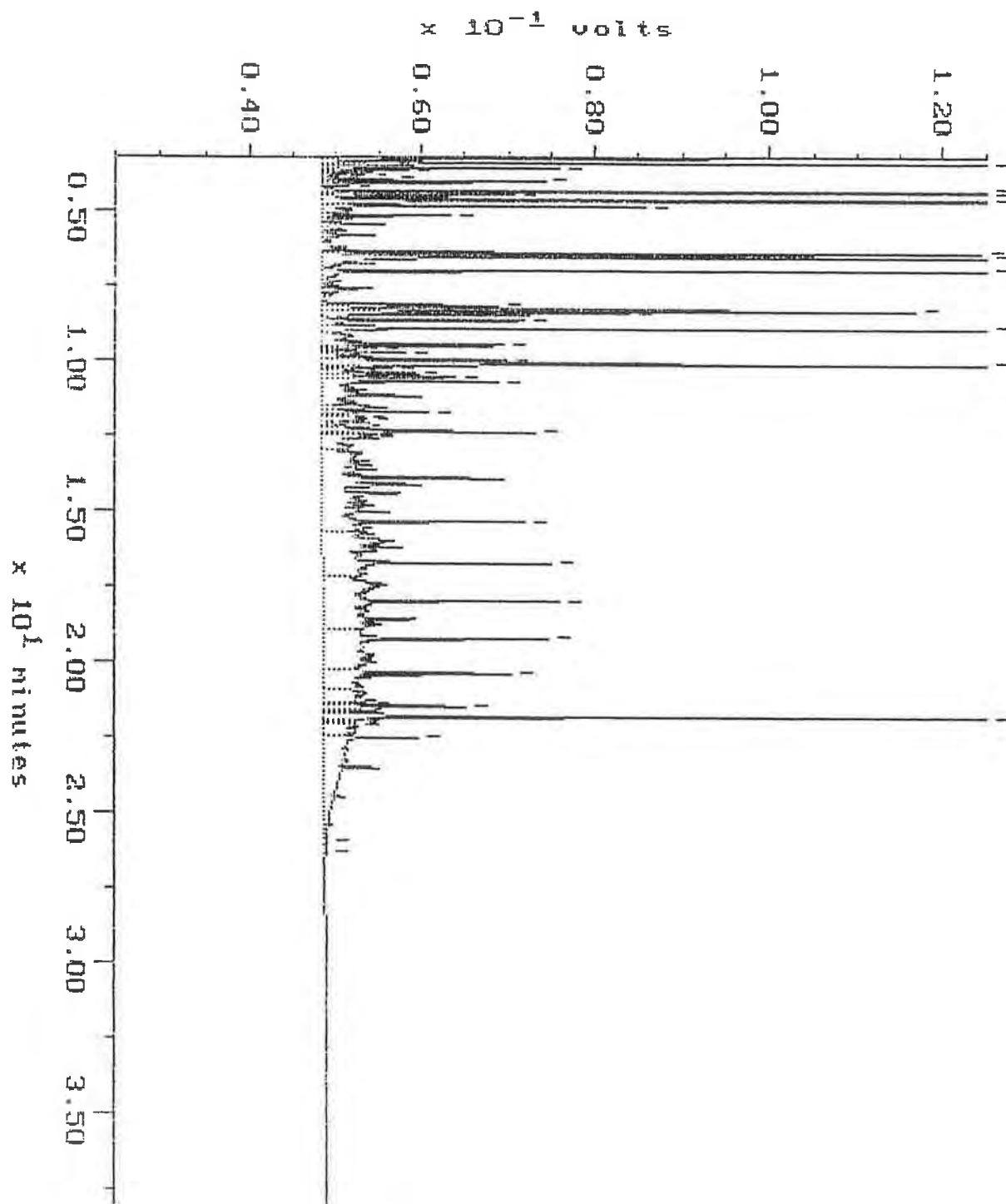


Continuing Calibration

Sample: DG 400
Acquired: 19-DEC-92 0:58
Inj Vol: 1.00

Channel: WILMA
Method: M:\BRO2\MAXDATA\WILMA\FUEL1219

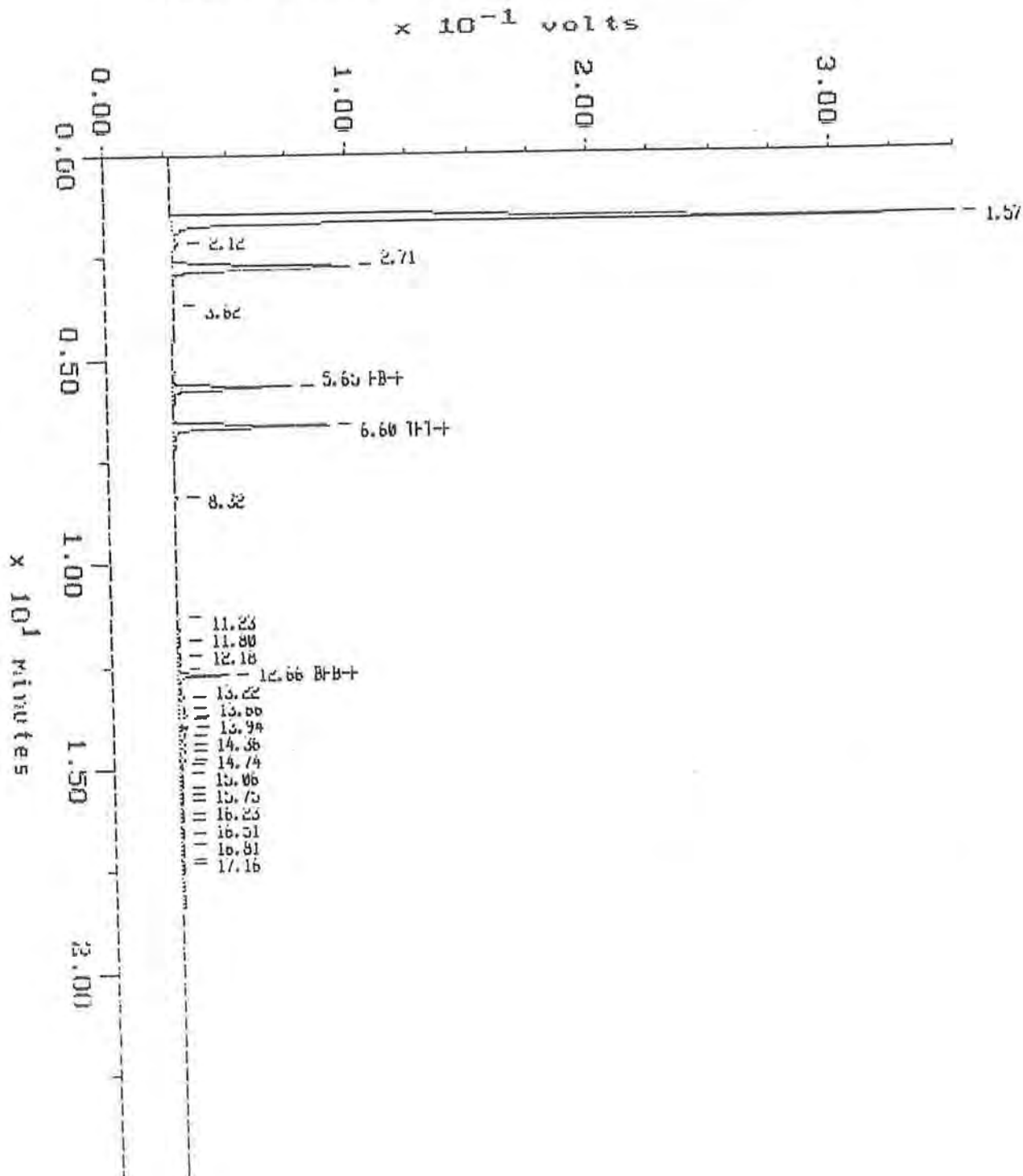
Filename: 1219W112
Operator: BRO



WA DOE WTPH-G

Sample: 9212-134-2 Channel: F10
 Acquired: 19-DEC-92 18:52 Method: N:\BRU2\MAXDATA\GLAD\12189265
 Comments: AFI : A COMMITMENT TO QUALITY

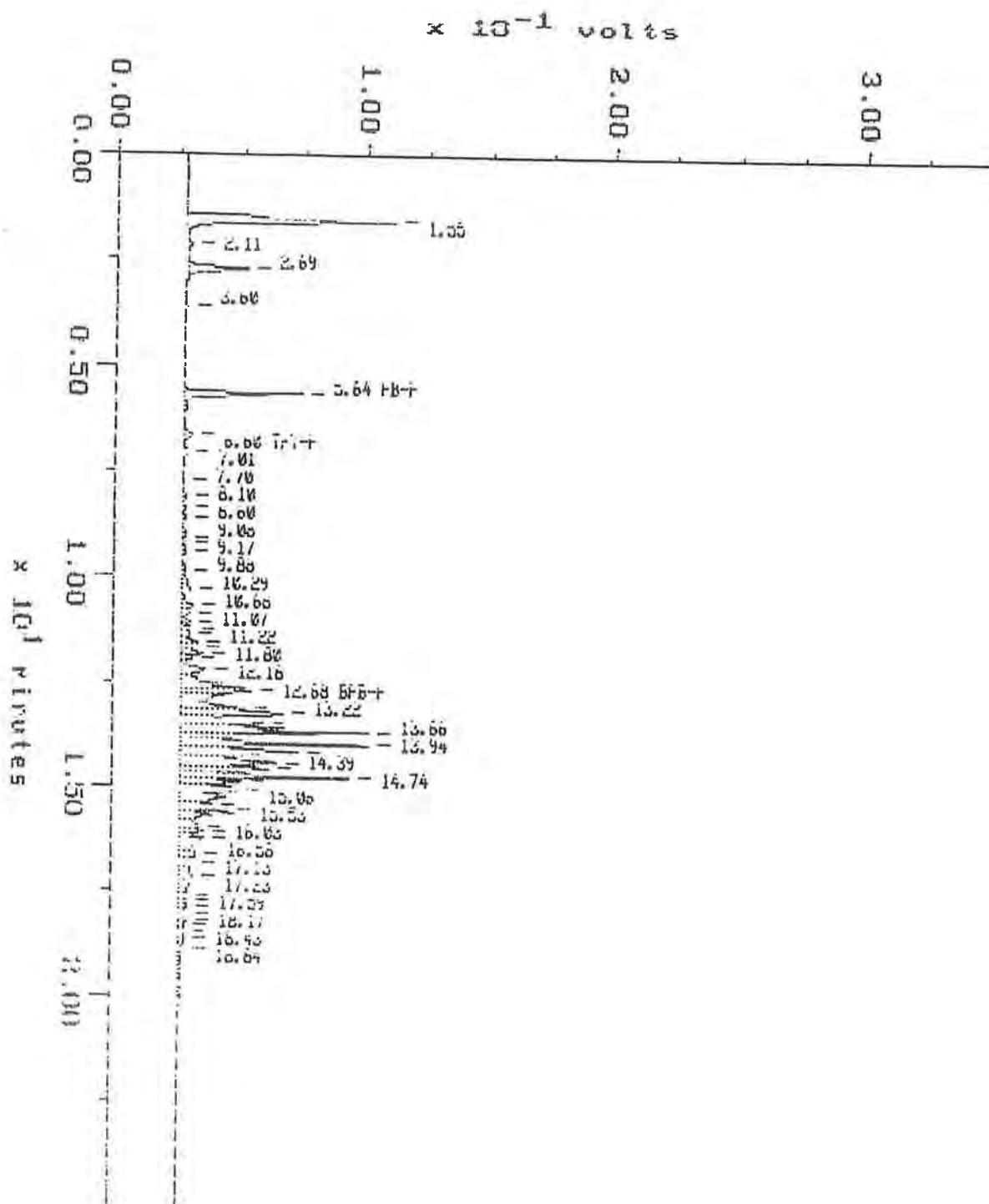
Filename: 12186537
 Operator: AFI



WA DOE WTPH-G

Sample: 9212-634-3 DIL Channel: FID
 Acquired: 20-DEC-92 19:14 Method: N:\BRO2\MAXDATA\GLAD\12209265
 Dilution: 1 : 20.000
 Comments: All : A COMMITMENT TO QUALITY

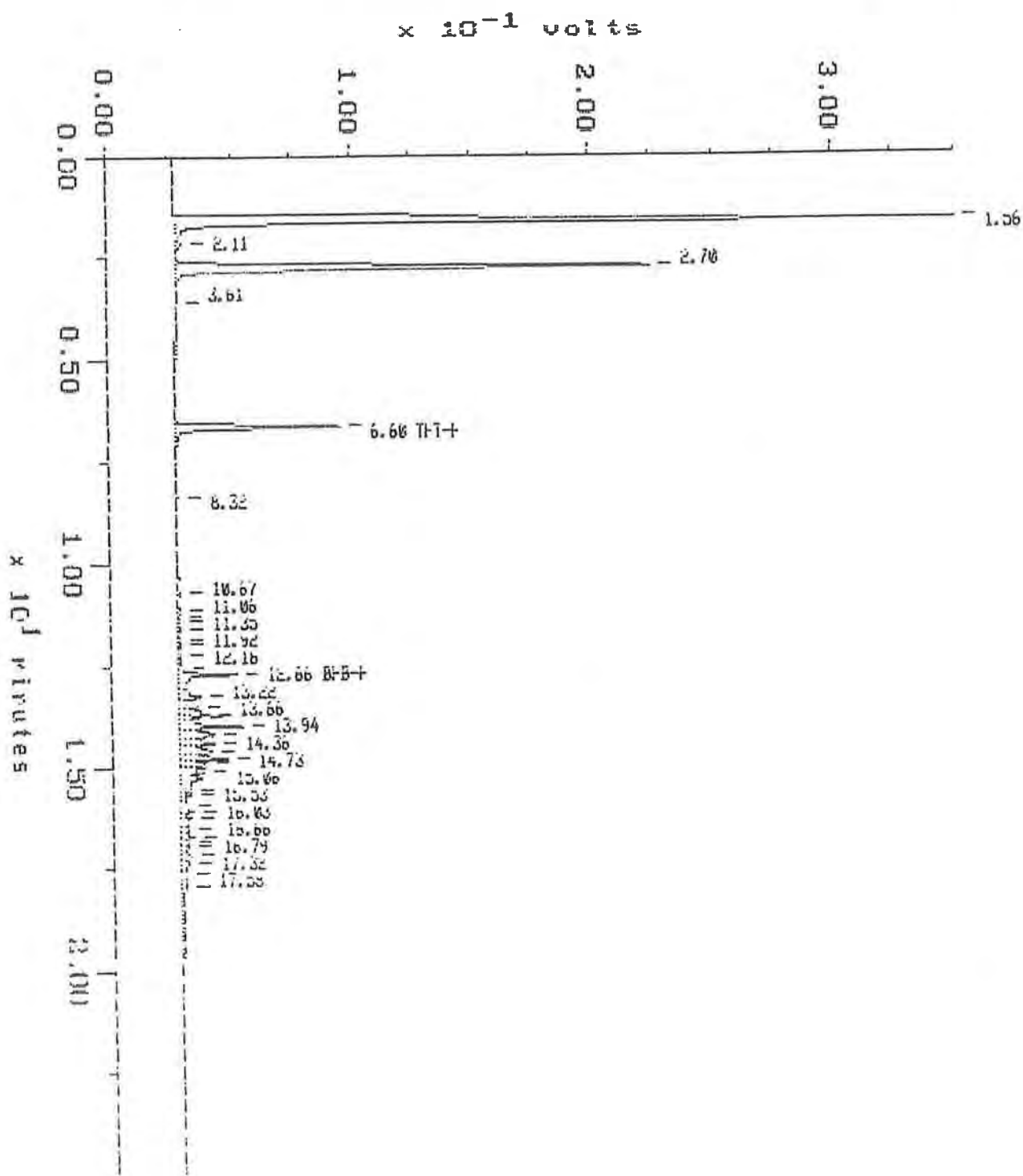
Filename: 12206321
 Operator: AII



WA DOE WTPH-G

Sample: 9212-134-4 Channel: FID
 Acquired: 20-DEC-92 16:14 Method: N:\BRO2\MAXDATA\GLAD\122092GS
 Comments: AFI : A COMMITMENT TO QUALITY

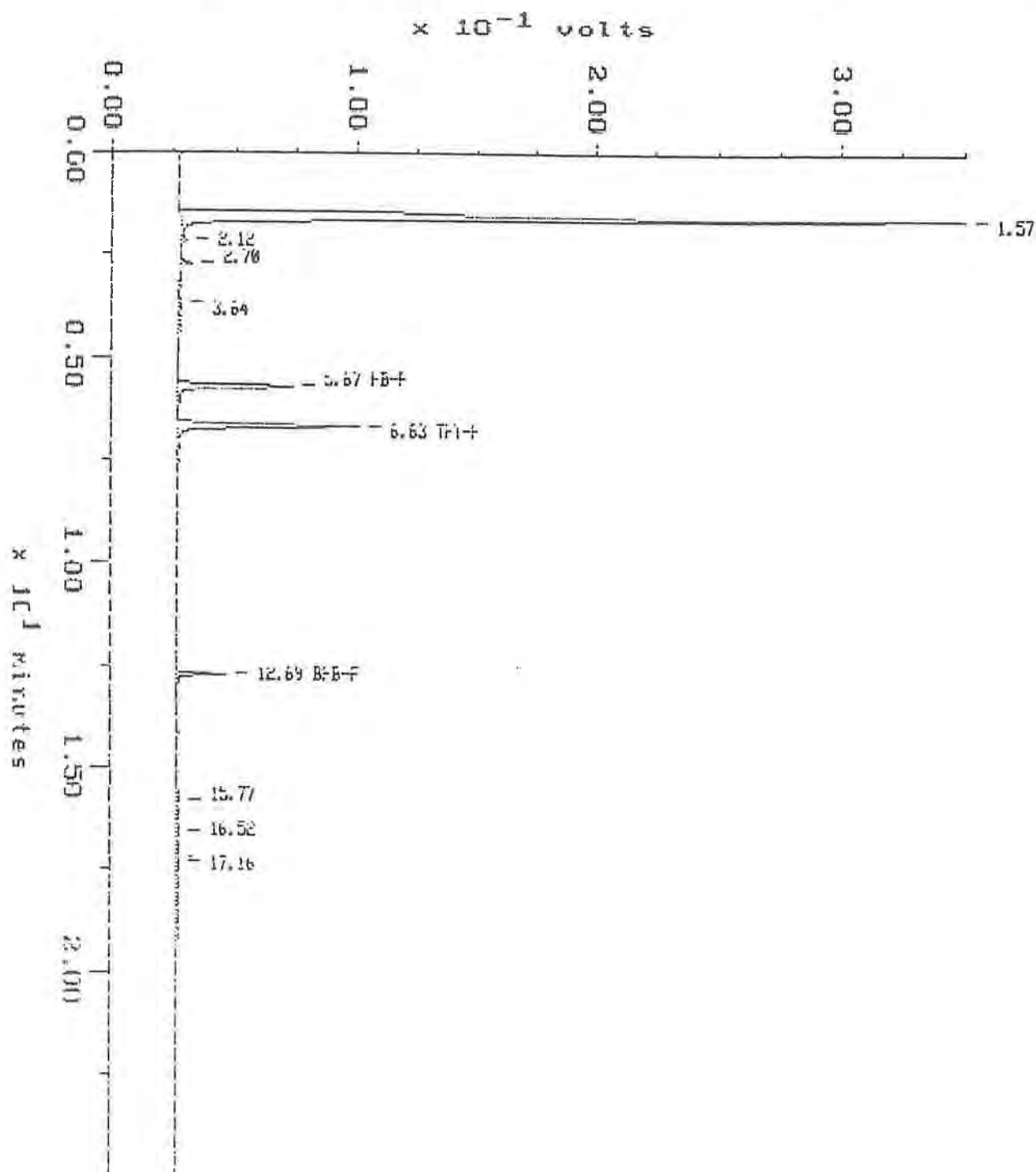
Filename: 12206519
 Operator: AFI



WA DOE WTPH-G

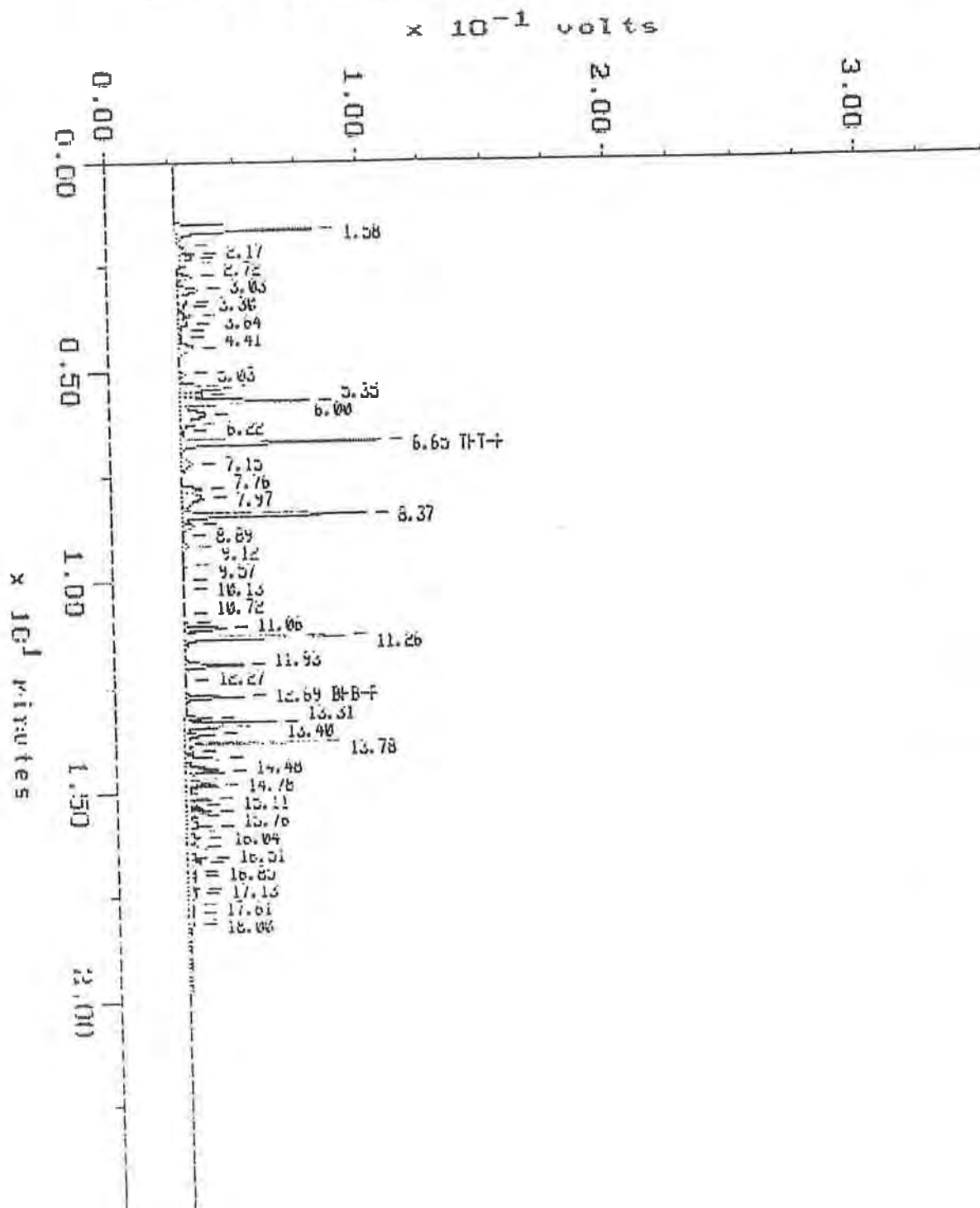
Sample: S08 12/18 Channel: FID
 Acquired: 18-DEC-92 17:37 Method: N:\8R02\MAXDATA\GLAD\12189265
 Comments: AII : A COMMITMENT TO QUALITY

Filename: 12186905
 Operator: AII



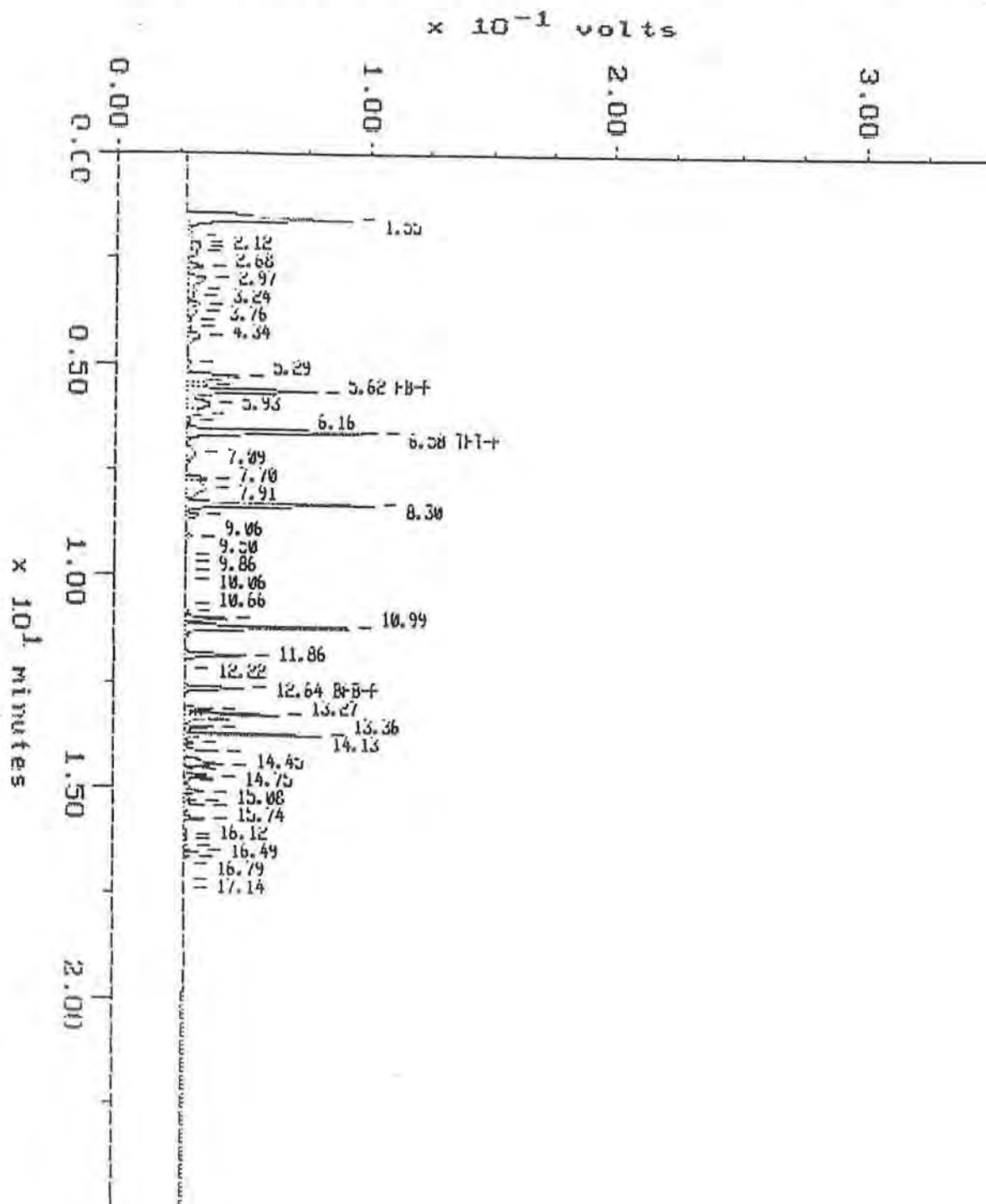
Sample: STD-C Channel: FID
Acquired: 18-DEC-92 14:26 Method: N:\BRU2\MAXDATA\GLAD\12189265
Comments: H11 : A COMMITMENT TO QUALITY

Filename: 12186502
Operator: ATI



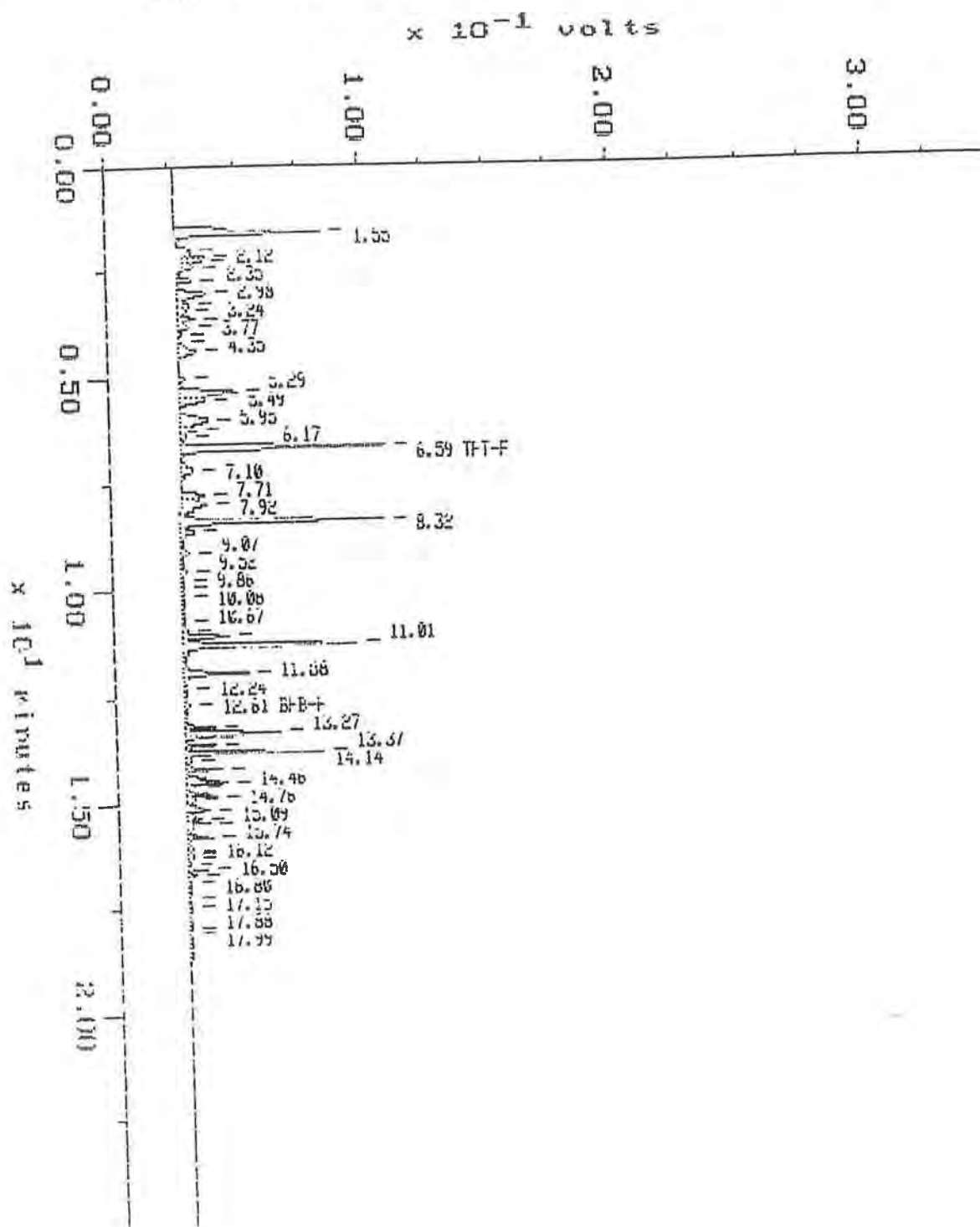
Sample: std-c Channel: FID
Acquired: 19-DEC-92 22:21 Method: N:\BR02\MAXDATA\GLAD\12189265
Comments: AFI : A COMMITMENT TO QUALITY

Filename: 12186544
Operator: AFI



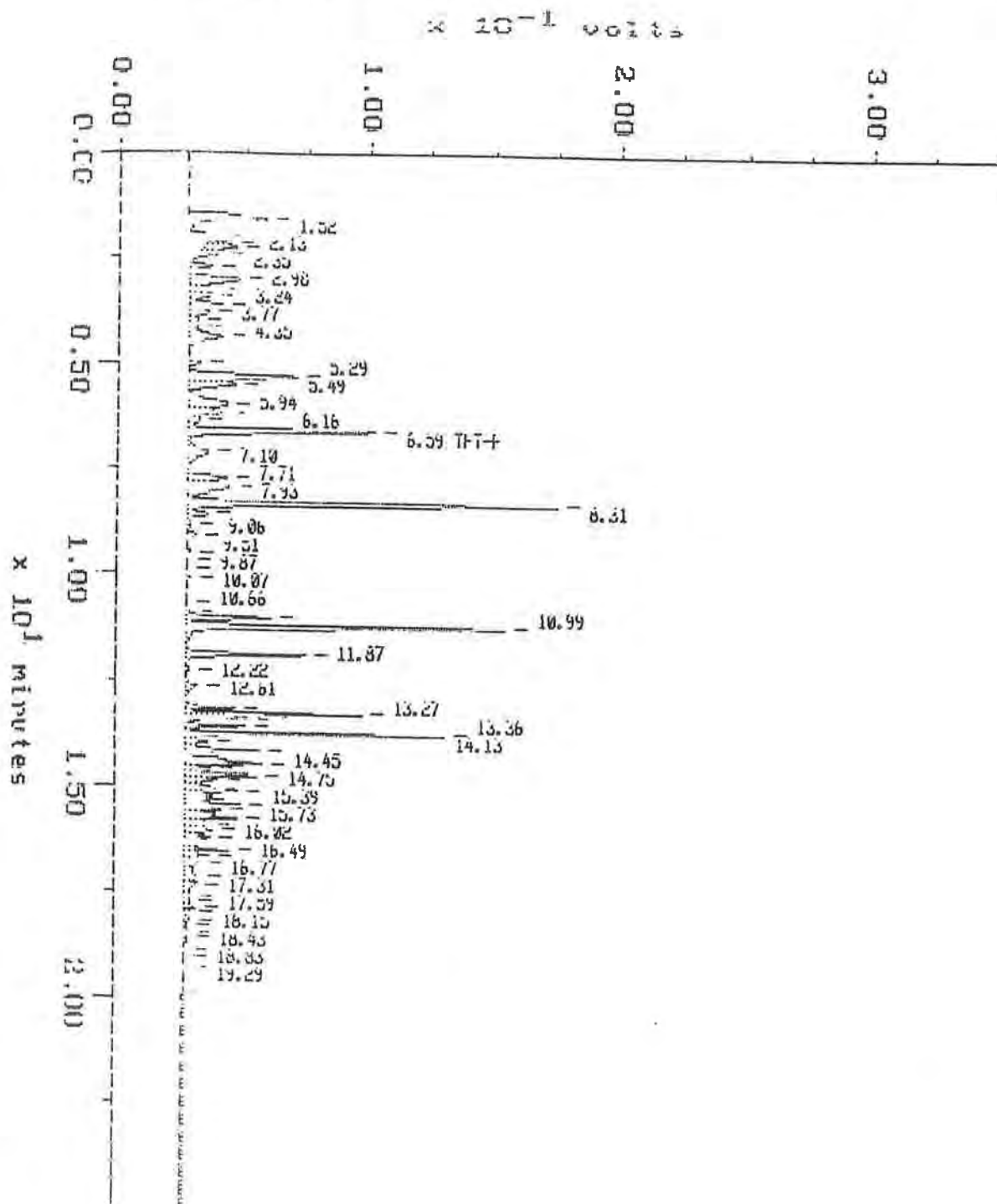
Sample: STD-C Channel: F10
Acquired: 20-DEC-92 10:22 Method: N:\BRO2\MAXDATA\GLAD\12209265
Comments: AFI : A COMMITMENT TO QUALITY

Filename: 12209265
Operator: AFI



Sample: C.C. 2 PPM Channel: FID
Acquired: 20-DEC-92 22:43 Method: N:\BK02\MAXDATA\GLAD\12209265
Comments: H1 : A COMMITMENT TO QUALITY

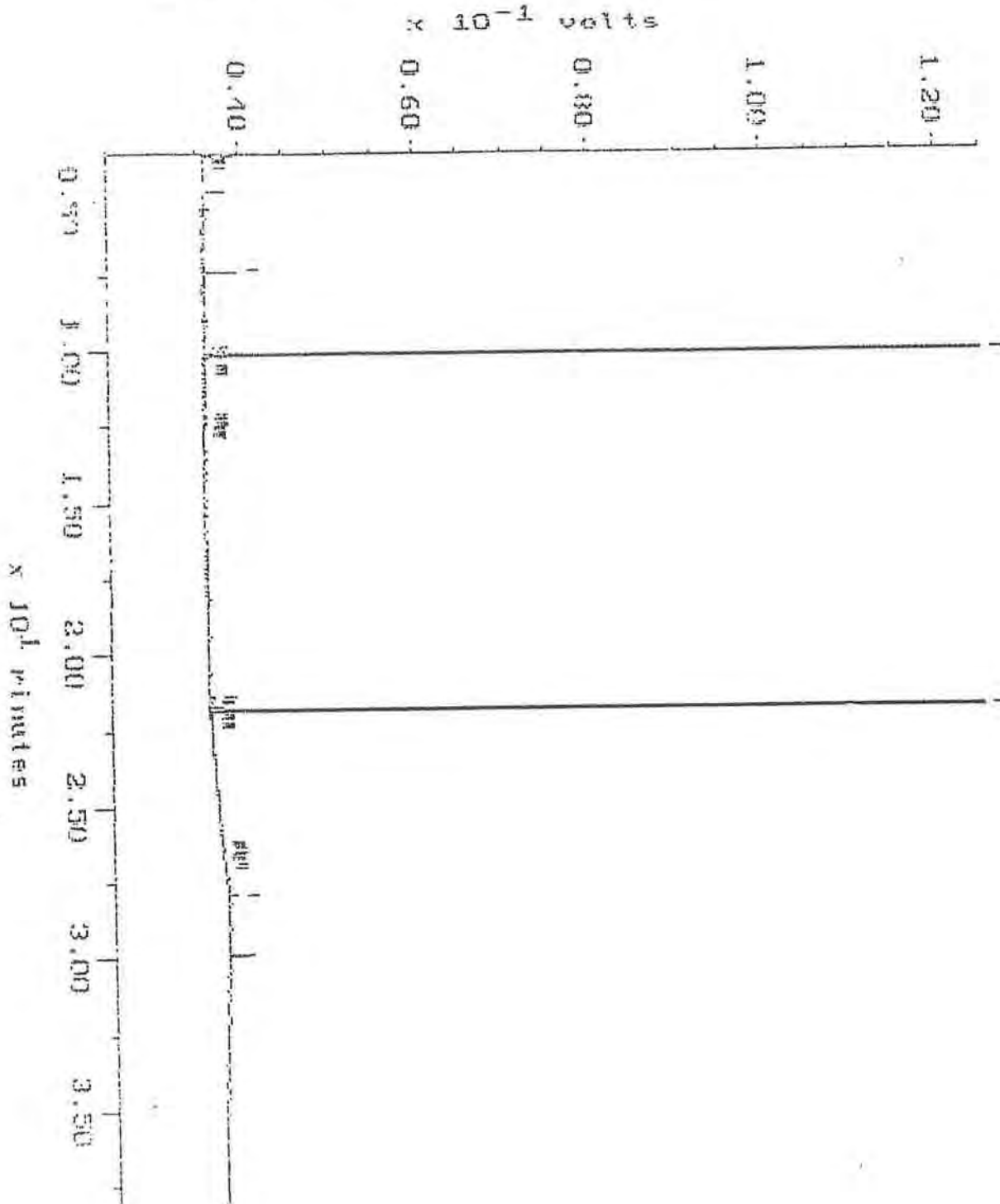
Filename: 12209265
Operator: Afi



Sample: 9218-124-2
 Acquired: 19-DEC-92 14:22
 Inj Vol: 1.00

Channel: GEN101
 Method: H:\BRUCE\DATA\SERGE-D\FUEL1218

Filename: 12180030
 Operator: AFI

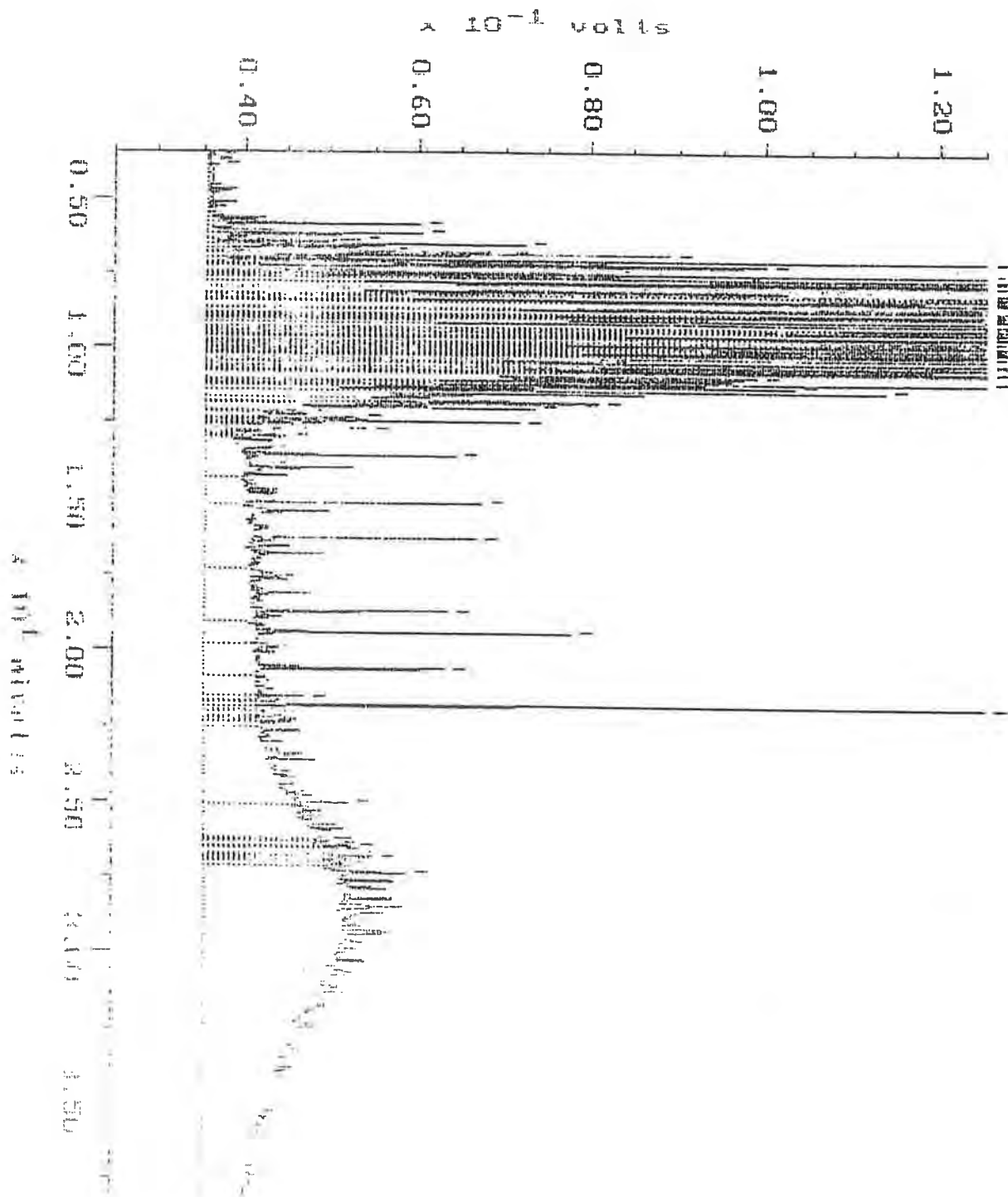


WA DOE WTPH-D

Sample: 9310-124-B OIL
Acquired: 21-DEC-92 9:45
Dilution: 1 : 2.000

Channel: GENIIRI
Method: H:\BRO2\MAXDATA\SERGE-OVFUEL1221
Inj Vol: 1.00

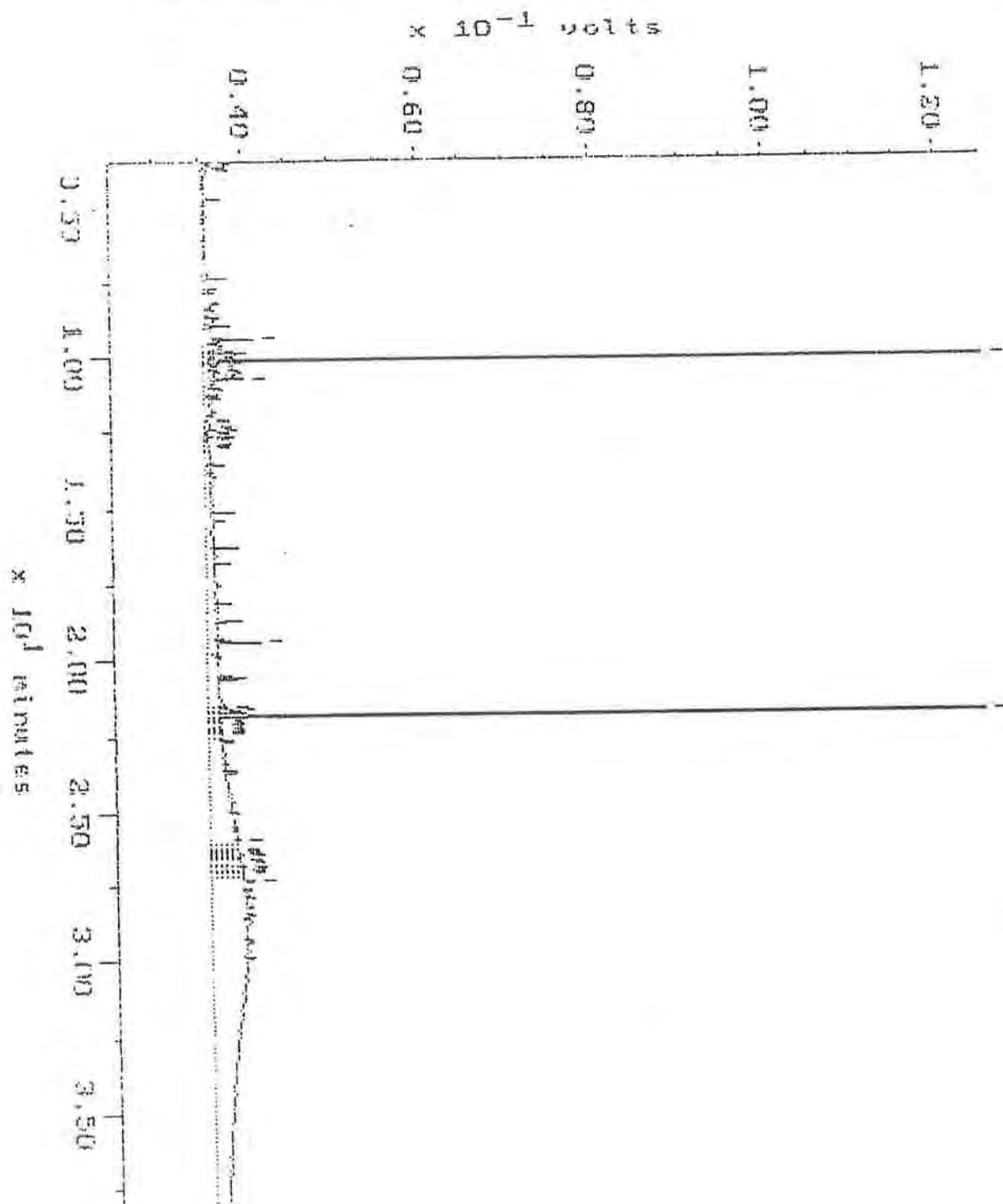
Filename: 12213004
Operator: AT1



Sample: 9212-124-4
 Acquired: 21-DEC-92 8:29
 Inj Vol: 1.00

Channel: GEN1701
 Method: H:\MSH02\MAXDATA\SERGE-D\7011221

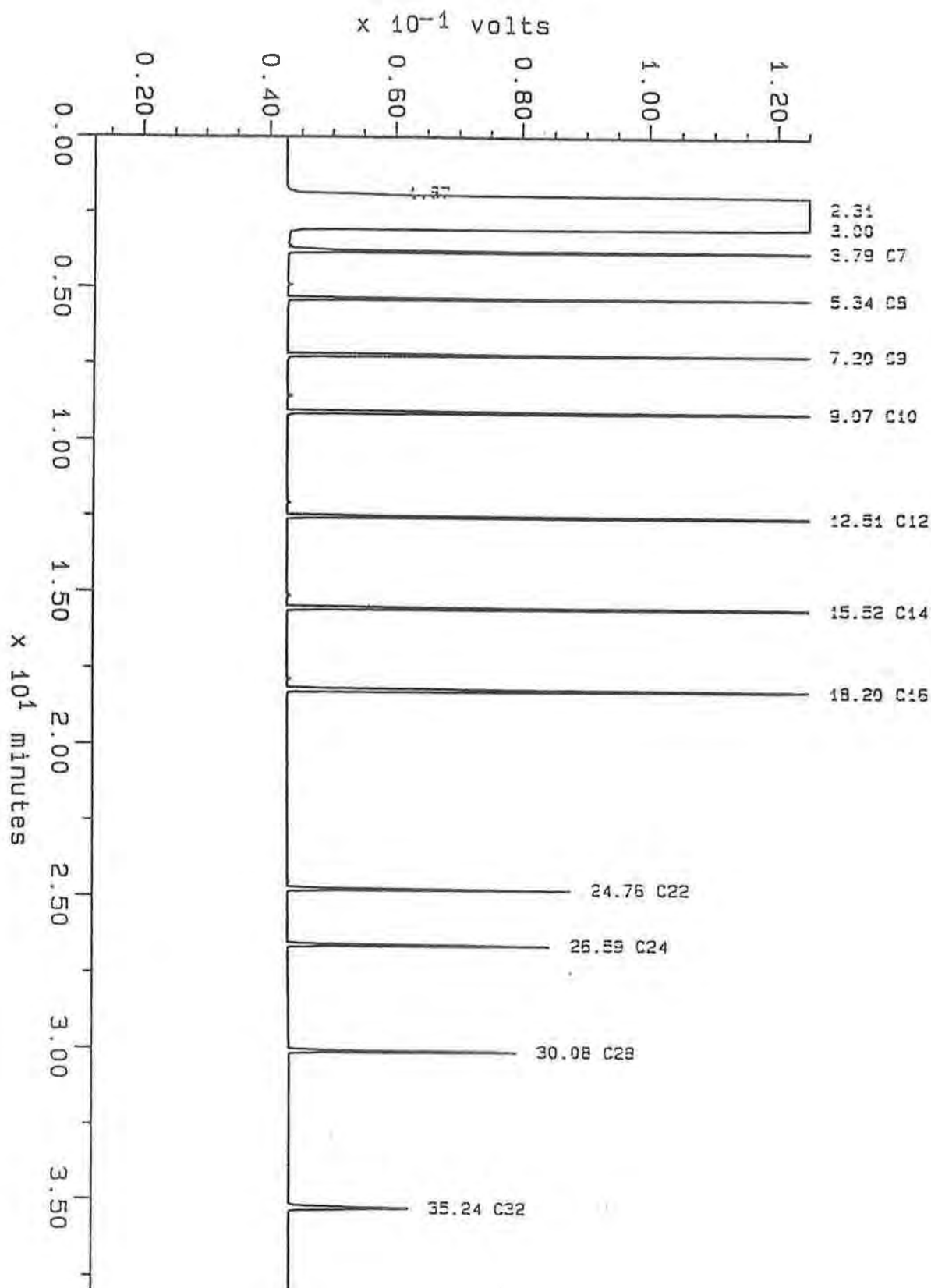
Filename: 12210003
 Operator: AGI



Sample: ALKANE
Acquired: 02-NOV-92 12: 49
Inj Vol: 1.00

Channel: DEMITRI
Method: L:\BRQ2\MAXDATA\SERGE-D\FUEL0902

Filename: 1102SD02
Operator: ATI

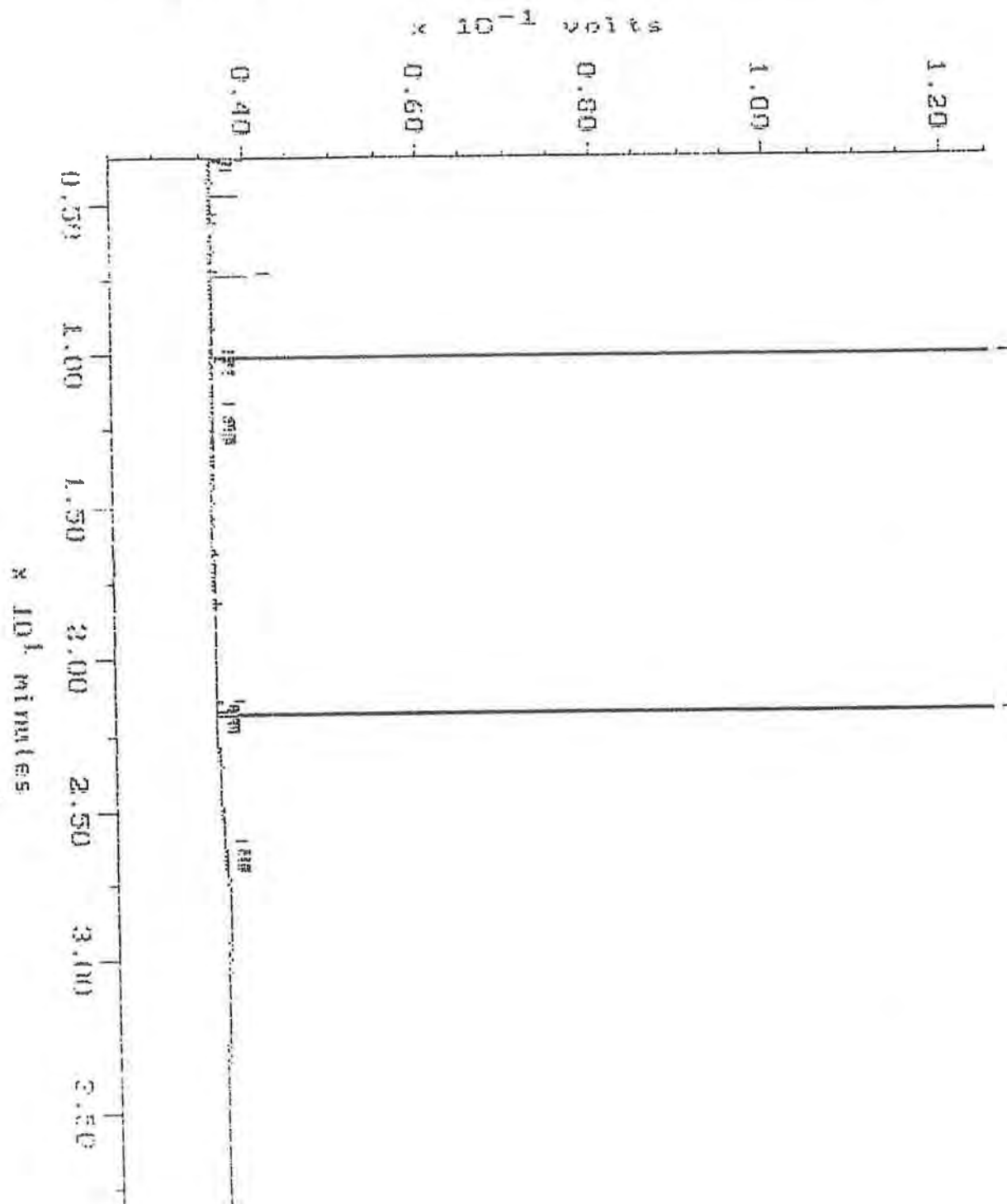


Blank

Sample: 388 12-18
Acquired: 19-DEC-92
Inj Vol: 1.30

Channel: GENITRI
3:47 Method: H:\2802\MAXDATA\GENSEC-0\WAL1218

Filename: 12183015
Operator: AFI

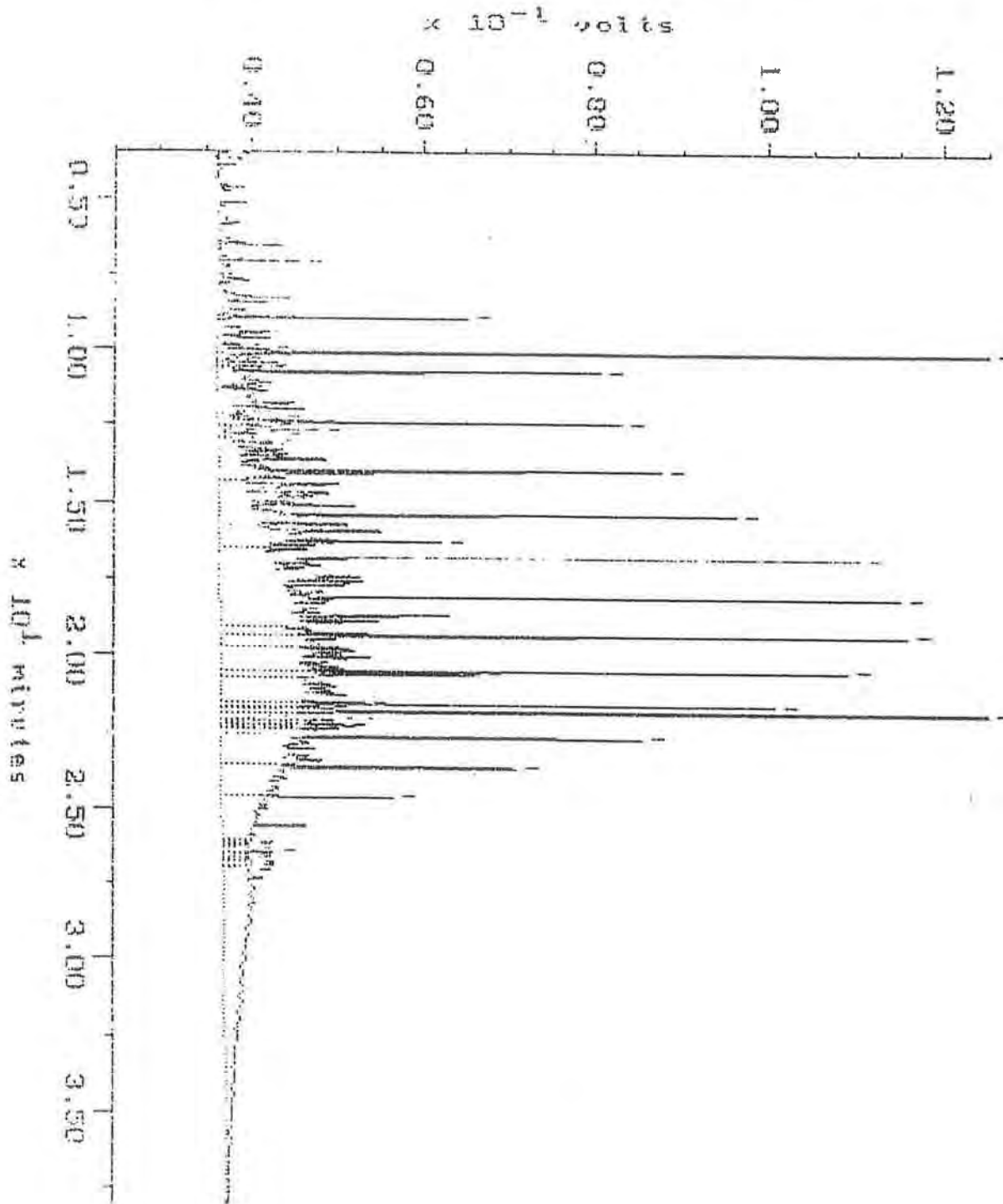


Continuing Calibration

Sample: 1216
Acquired: 12/16/80 12:16
Inj Vol: 1.00

Channel: DCH1 (F1)
Method: H:\SERVING\DATA\SERVING-D\FUEL1216

Filename: 12160014
Operator: RII

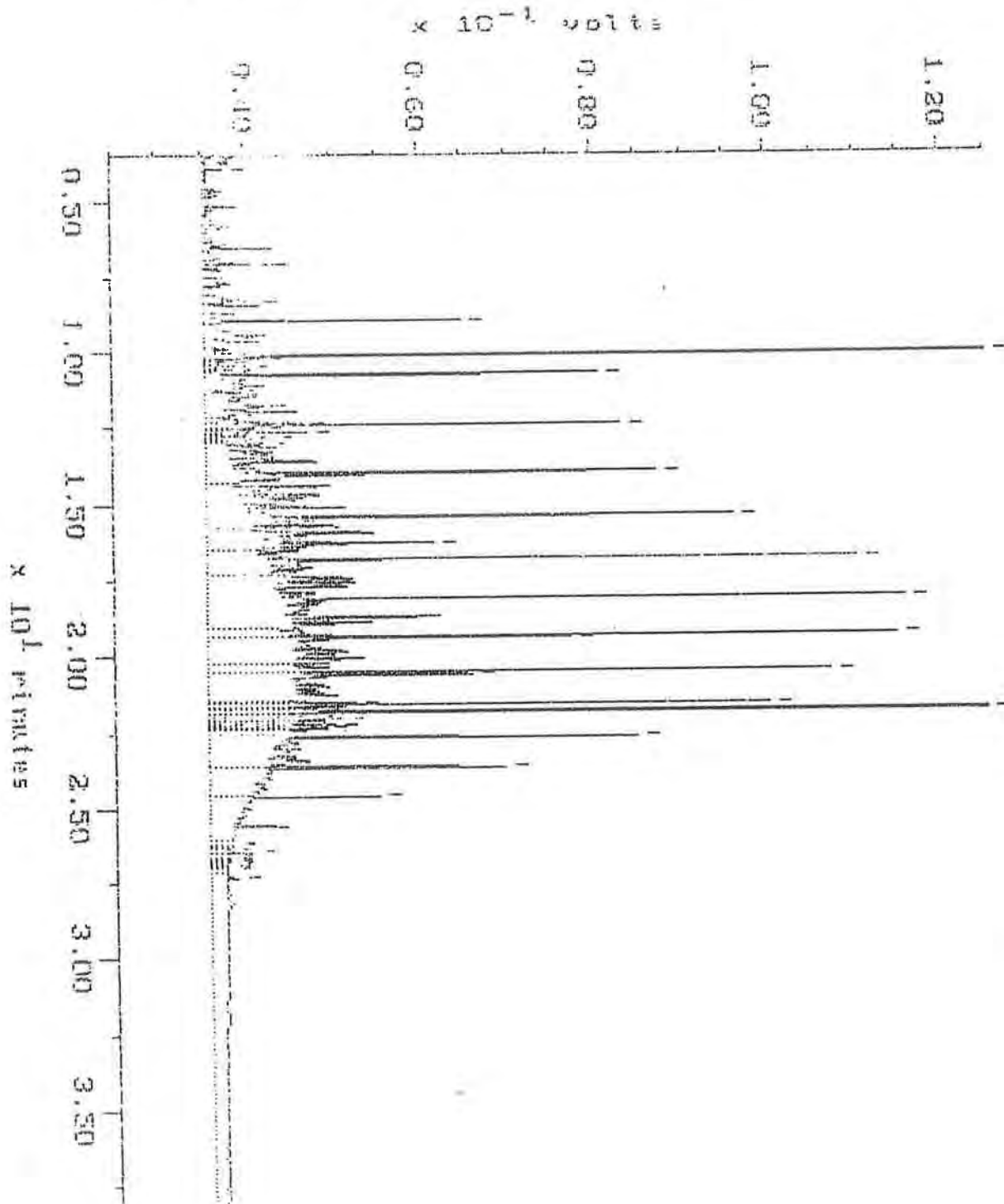


Continuing Calibration

Sample: 1200
Acquired: 12-11-92 18:10
Inj Vol: 1.0

Channel: SEM10M
Method: H:\MSDCHEM\DATA\LONGS-D\MSD1213

Filename: 12130033
Operator: AFI

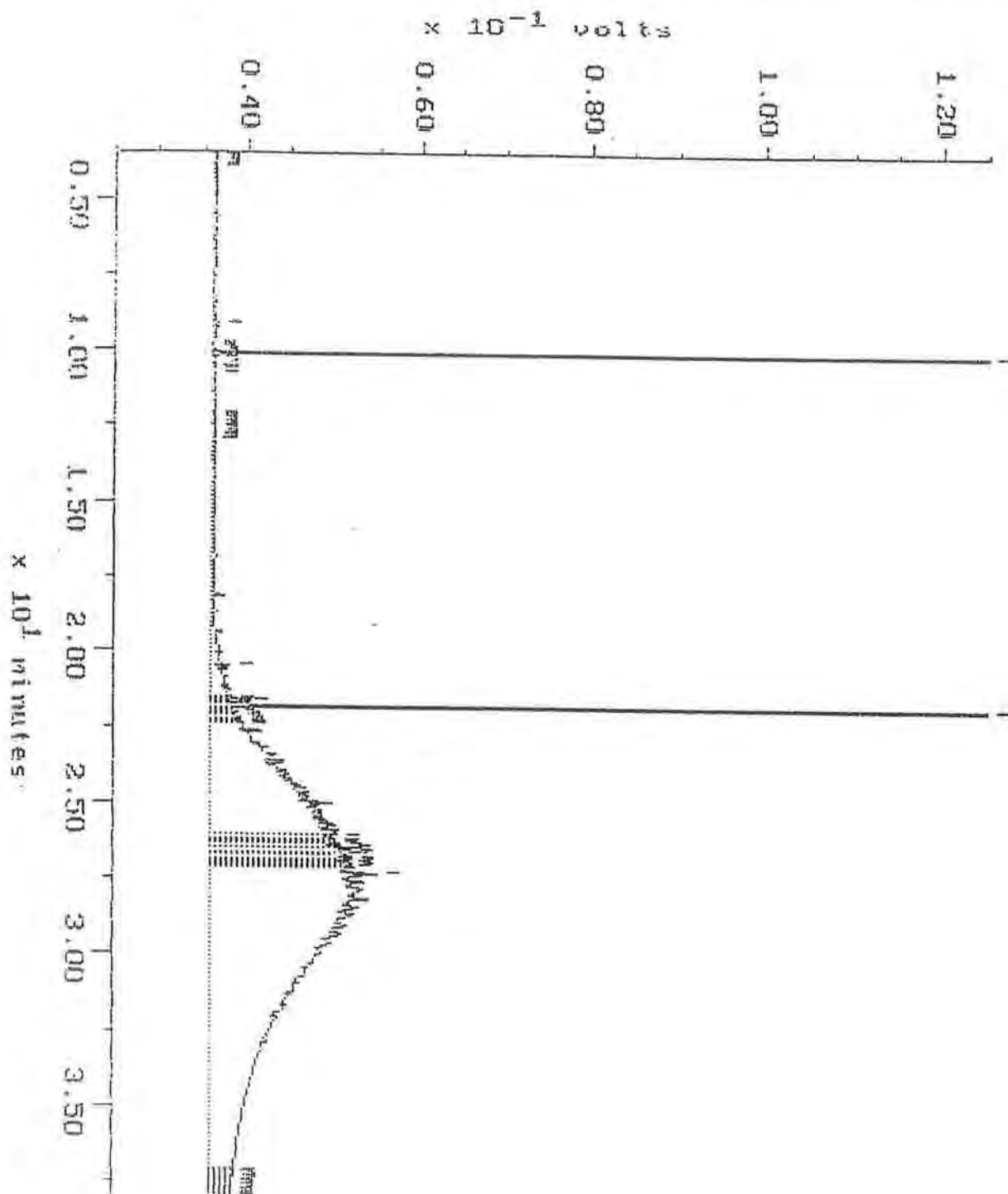


Continuing Calibration

Sample: HUS00
Acquired: 19-DEC-92 3:01
Inj Vol: 1.00

Channel: DEMITRI
Method: H:\BK02\MAXDATA\SERGE-D\FUEL1218

Filename: 12183015
Operator: ATI

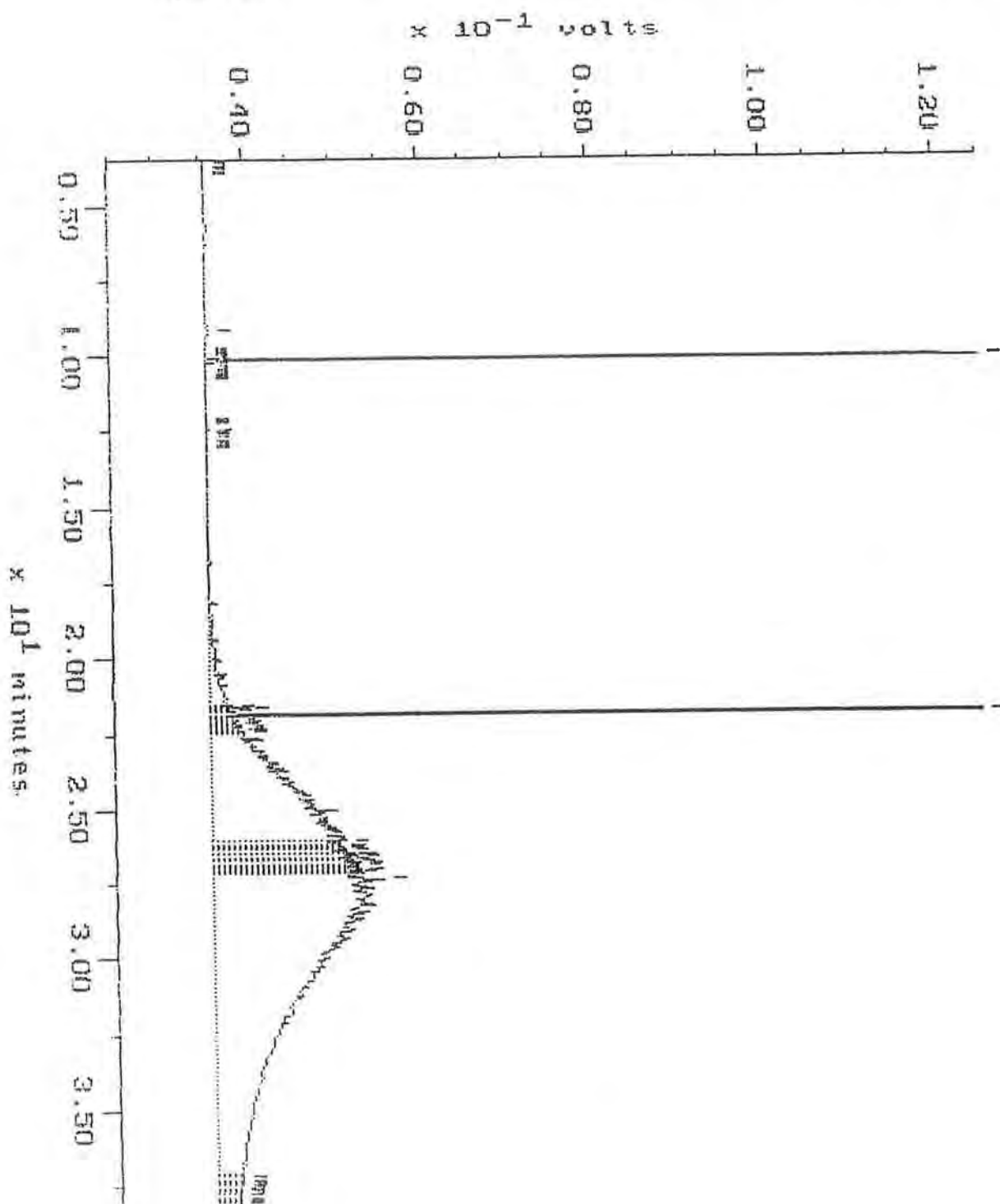


Continuing Calibration

Sample: M0500
Acquired: 19-DEC-92 10:55
Inj Vol: 1.00

Channel: DENITRI
Method: H:\9K02\MAXDATA\SERGE-D\FUEL1213

Filename: 12183036
Operator: ATL

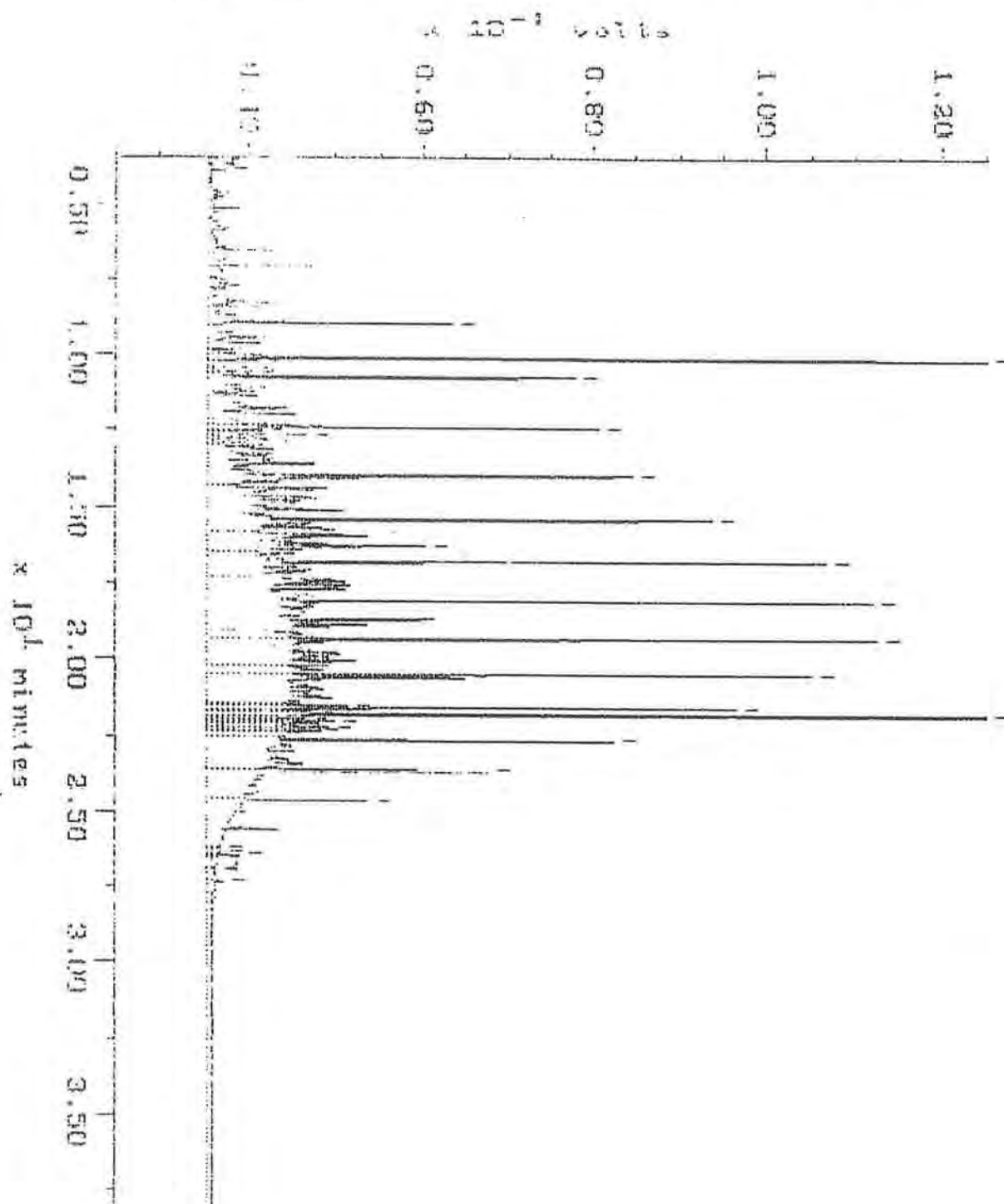


Continuing Calibration

Sample: 1200
Acquired: 11-22-99 7:23
Inj Vol: 1.30

Channel: 05M11.M
Method: H:\BRO2\MAXDATA\SERGE-D\F03.1221

Filename: 12210001
Operator: Afi

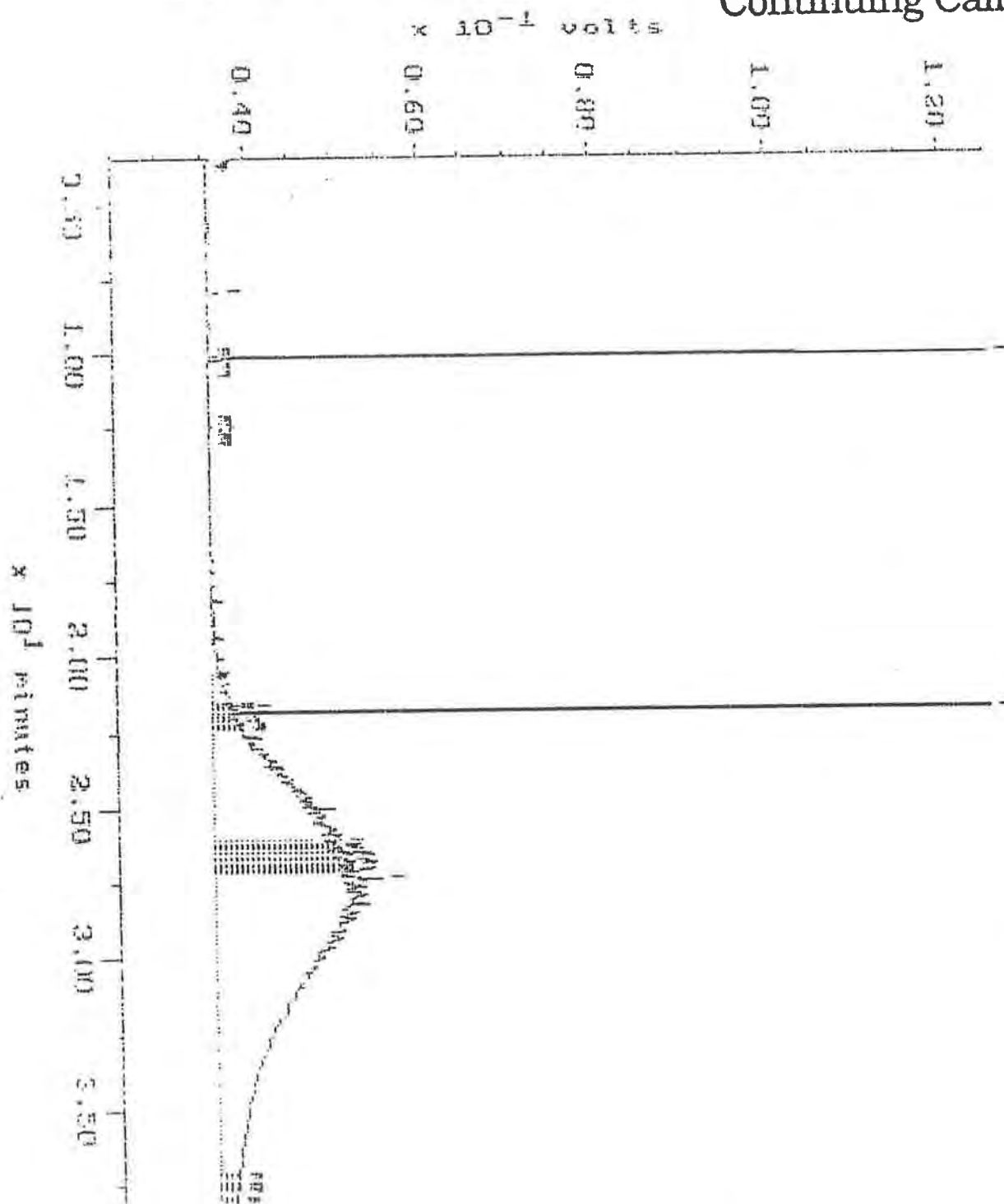


Sample: #5500
Acquired: 21-SEP-92 8:14
Inj Vol: 1.20

Channel: SEM171
Method: H:\AER02\MAXDATA\SERIES-0\AFC11221

Filename: 1221-002
Operator: A11

Continuing Calibration

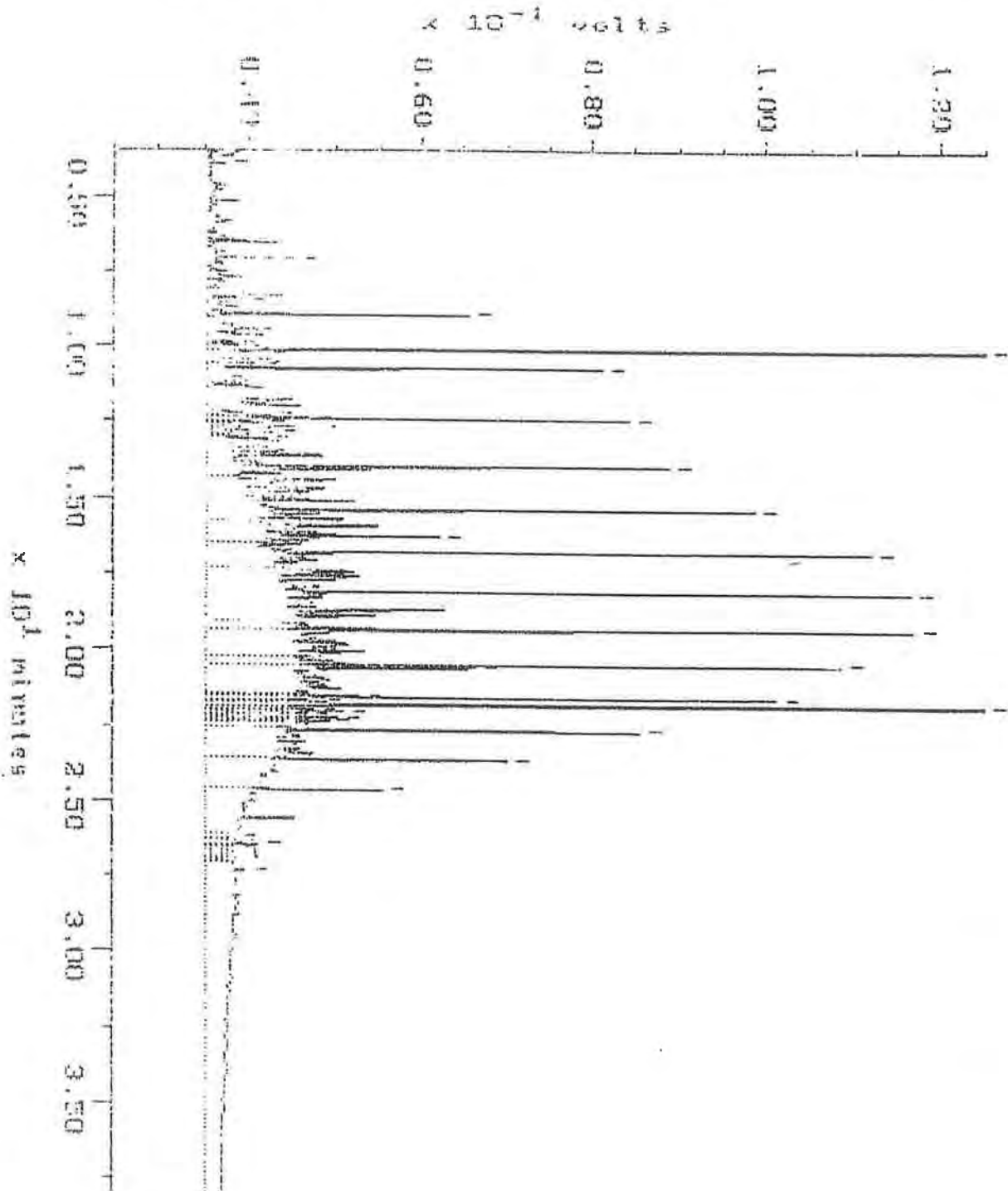


Continuing Calibration

Sample: 100
Acquired: 11-02-99 10:10
Inj Vol: 1.00

Channel: SCH101
Method: STERIS WAX DATA WAX GC-DAVE LEE

Filename: 10210035
Operator: All

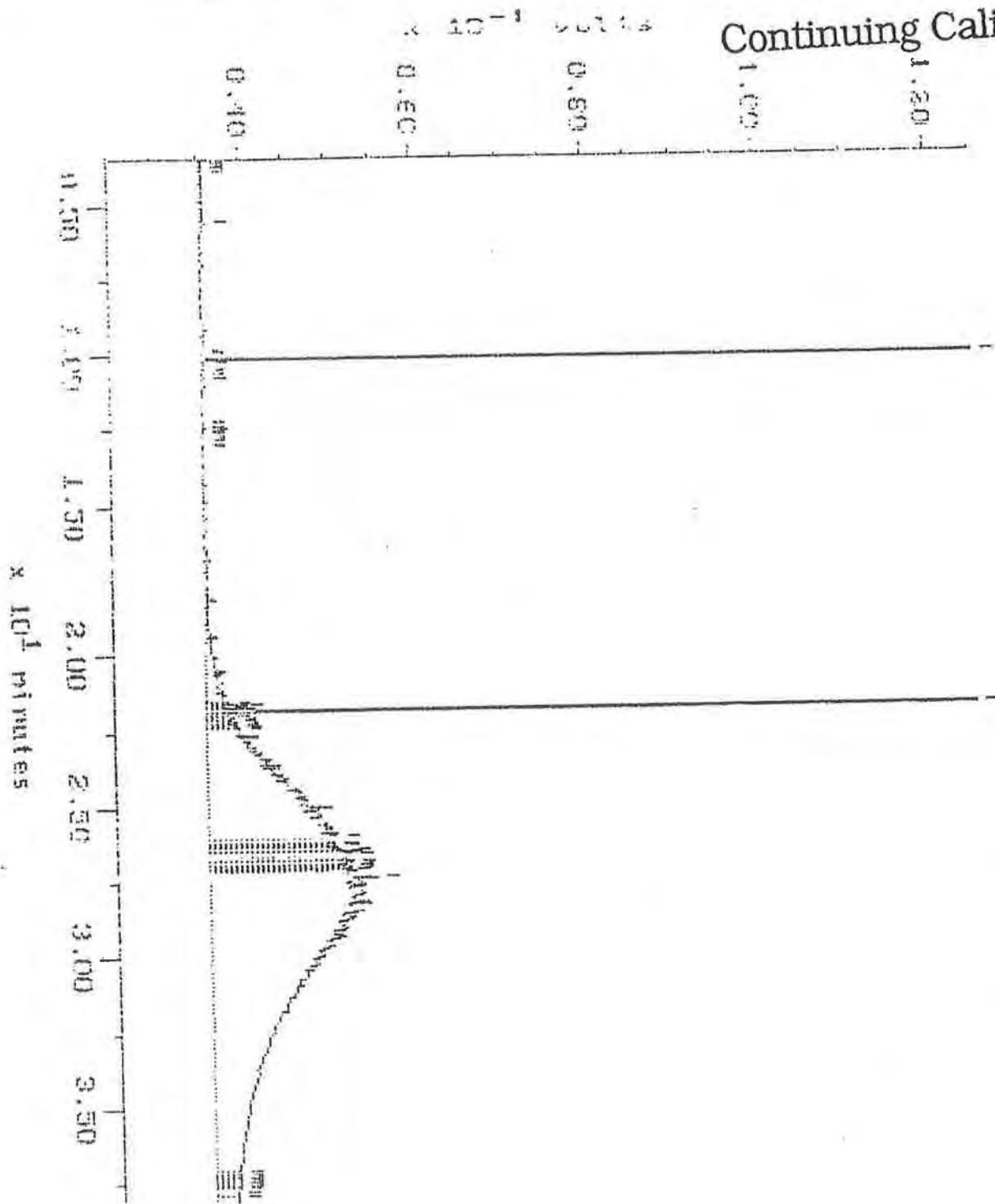


Sample: 00000000
Acquired: 00-00-00 11:15
Inj Vol: 1.00

Channel: 00000000
Method: H:\MSDCHEM\DATA\00000000-00000000

Filepath: 00000000
Operator: APT

Continuing Calibration





Chain of Custody LABORATORY NUMBER: 9212-134 DATE: _____ PAGE: _____ OF: _____

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Analytical**Technologies, Inc.**

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John H. Taylor, Jr., Laboratory Manager
Frederick W. Grothkopp, Technical Director

ATI I.D. # 9212-099

December 29, 1992

GeoEngineers

DEC 29 1992

GeoEngineers, Inc.
8410 154th Ave. N.E.
Redmond, WA 98052

Routing

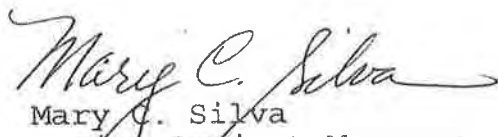
File

Attention : Don Hanson

Project Number : 1957-009-R04

Project Name : Time Oil Jackpot

On December 15, 1992, Analytical Technologies, Inc., received six 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
MCS/hal/elf

ATI I.D. # 9212-099

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9212-099-1	HWEXC	12/15/92	WATER
9212-099-2	DSP-5	12/15/92	SOIL
9212-099-3	DSP-6	12/15/92	SOIL
9212-099-4	DSP-7	12/15/92	SOIL
9212-099-5	CSP-3	12/15/92	SOIL
9212-099-6	CSP-4	12/15/92	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	6
WATER	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



ATI I.D. # 9212-099

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT

ANALYSIS	TECHNIQUE	REFERENCE	LAB
VOLATILE ORGANIC COMPOUNDS	GCMS	EPA 8240	R
SEMI-VOLATILE COMPOUNDS	GCMS	EPA 8270	R
POLYCHLORINATED BIPHENYLS (PCBs)	GC/ECD	EPA 8080	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
PETROLEUM HYDROCARBONS	IR	WA DOE WTPH-418.1 MODIFIED	R
ARSENIC	AA/GF	EPA 7060	R
BARIUM	ICAP	EPA 6010	R
CADMIUM	ICAP	EPA 6010	R
CHROMIUM	ICAP	EPA 6010	R
COPPER	ICAP	EPA 6010	R
LEAD	ICAP	EPA 6010	R
MERCURY	AA/COLD VAPOR	EPA 7471	R
NICKEL	ICAP	EPA 6010	R
SELENIUM	AA/GF	EPA 7740	R
SILVER	ICAP	EPA 6010	R
ZINC	ICAP	EPA 6010	R
MOISTURE	GRAVIMETRIC	CLP SOW ILM01.0	R

R = ATI - Renton
 SD = ATI - San Diego
 PHX = ATI - Phoenix
 PNR = ATI - Pensacola
 FC = ATI - Fort Collins
 SUB = Subcontract

ATI I.D. # 9212-099

CASE NARRATIVE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

CASE NARRATIVE: VOLATILE ORGANICS ANALYSIS

The samples associated with this accession number were analyzed by method 8240. The sample introduction technique used was EPA method 5030, mid level. A description of the extraction technique is as follows:

A 5 g aliquot of sample was spiked with 500 ul of a 25 ug/ml surrogate solution and extracted with 4.5 ml of methanol, resulting in a final volume of 5 ml. A 100 ul aliquot of extract was added to 5 ml of reagent water spiked with internal standards. Samples were concentrated by purge and trap, then analyzed by GCMS.

No problems or discrepancies are noted with this accession number.



ATI I.D. # 9212-099

 VOLATILE ORGANICS ANALYSIS
 DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : METHOD BLANK
 SAMPLE MATRIX : SOIL
 EPA METHOD : 8240
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : N/A
 DATE RECEIVED : N/A
 DATE EXTRACTED : 12/16/92
 DATE ANALYZED : 12/19/92
 UNITS : mg/Kg
 DILUTION FACTOR : 1

COMPOUNDS	RESULTS
ACETONE	<1.0
BENZENE	<0.050
BROMODICHLOROMETHANE	<0.050
BROMOFORM	<0.25
BROMOMETHANE	<0.50
2-BUTANONE (MEK)	<0.50
CARBON DISULFIDE	<0.050
CARBON TETRACHLORIDE	<0.050
CHLOROBENZENE	<0.050
CHLOROETHANE	<0.050
CHLOROFORM	<0.050
CHLOROMETHANE	<0.50
DIBROMOCHLOROMETHANE	<0.050
1,1-DICHLOROETHANE	<0.050
1,2-DICHLOROETHANE	<0.050
1,1-DICHLOROETHENE	<0.050
1,2-DICHLOROETHENE (TOTAL)	<0.050
1,2-DICHLOROPROPANE	<0.050
CIS-1,3-DICHLOROPROPENE	<0.050
TRANS-1,3-DICHLOROPROPENE	<0.050
ETHYLBENZENE	<0.050
2-HEXANONE (MBK)	<0.50
4-METHYL-2-PENTANONE (MIBK)	<0.50
METHYLENE CHLORIDE	<0.25
STYRENE	<0.050
1,1,2,2-TETRACHLOROETHANE	<0.050
TETRACHLOROETHENE	<0.050
TOLUENE	<0.050
1,1,1-TRICHLOROETHANE	<0.050
1,1,2-TRICHLOROETHANE	<0.050
TRICHLOROETHENE	<0.050
VINYL ACETATE	<0.50
VINYL CHLORIDE	<0.050
TOTAL XYLENES	<0.050

SURROGATE PERCENT RECOVERY

LIMITS

1,2-DICHLOROETHANE-D4	103	71 - 134
TOLUENE-D8	101	65 - 131
BROMOFLUOROBENZENE	96	60 - 125

ATI I.D. # 9212-099

TENTATIVELY IDENTIFIED COMPOUNDS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/16/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/19/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8240	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	ESTIMATED CONC.	FLAG	R.T.
METHANE, ISOCYANO-	0.45		10.24

ATI I.D. # 9212-099-2

VOLATILE ORGANICS ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : DSP-5
SAMPLE MATRIX : SOIL
EPA METHOD : 8240
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/15/92
DATE RECEIVED : 12/15/92
DATE EXTRACTED : 12/16/92
DATE ANALYZED : 12/20/92
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUNDS	RESULTS
ACETONE	<1.1
BENZENE	<0.056
BROMODICHLOROMETHANE	<0.056
BROMOFORM	<0.28
BROMOMETHANE	<0.56
2-BUTANONE (MEK)	<0.56
CARBON DISULFIDE	<0.056
CARBON TETRACHLORIDE	<0.056
CHLOROBENZENE	<0.056
CHLOROETHANE	<0.056
CHLOROFORM	<0.056
CHLOROMETHANE	<0.56
DIBROMOCHLOROMETHANE	<0.056
1,1-DICHLOROETHANE	<0.056
1,2-DICHLOROETHANE	<0.056
1,1-DICHLOROETHENE	<0.056
1,2-DICHLOROETHENE (TOTAL)	<0.056
1,2-DICHLOROPROPANE	<0.056
CIS-1,3-DICHLOROPROPENE	<0.056
TRANS-1,3-DICHLOROPROPENE	<0.056
ETHYLBENZENE	<0.056
2-HEXANONE (MBK)	<0.56
4-METHYL-2-PENTANONE (MIBK)	<0.56
METHYLENE CHLORIDE	<0.28
STYRENE	<0.056
1,1,2,2-TETRACHLOROETHANE	<0.056
TETRACHLOROETHENE	<0.056
TOLUENE	<0.056
1,1,1-TRICHLOROETHANE	<0.056
1,1,2-TRICHLOROETHANE	<0.056
TRICHLOROETHENE	<0.056
VINYL ACETATE	<0.56
VINYL CHLORIDE	<0.056
TOTAL XYLENES	1.5

SURROGATE PERCENT RECOVERY

LIMITS

1,2-DICHLOROETHANE-D4	93	71 - 134
TOLUENE-D8	90	65 - 131
BROMOFLUOROBENZENE	73	60 - 125

ATI I.D. # 9212-099-2

TENTATIVELY IDENTIFIED COMPOUNDS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/15/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/16/92
CLIENT I.D.	: DSP-5	DATE ANALYZED	: 12/20/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8240	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	ESTIMATED CONC.	FLAG	R.T.
NONANE, 3-METHYL-	29		31.11
UNKNOWN HYDROCARBON	54		32.12
DECANE	26		33.75
NONANE, 2,6-DIMETHYL-	54		34.51
NAPHTHALENE, DECAHYDRO-	38		37.48



ATI I.D. # 9212-099-3

VOLATILE ORGANICS ANALYSIS DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : DSP-6
 SAMPLE MATRIX : SOIL
 EPA METHOD : 8240
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/15/92
 DATE RECEIVED : 12/15/92
 DATE EXTRACTED : 12/16/92
 DATE ANALYZED : 12/20/92
 UNITS : mg/Kg
 DILUTION FACTOR : 1

COMPOUNDS	RESULTS
ACETONE	<1.1
BENZENE	<0.056
BROMODICHLOROMETHANE	<0.056
BROMOFORM	<0.28
BROMOMETHANE	<0.56
2-BUTANONE (MEK)	<0.56
CARBON DISULFIDE	<0.056
CARBON TETRACHLORIDE	<0.056
CHLOROBENZENE	<0.056
CHLOROETHANE	<0.056
CHLOROFORM	<0.056
CHLOROMETHANE	<0.56
DIBROMOCHLOROMETHANE	<0.056
1,1-DICHLOROETHANE	<0.056
1,2-DICHLOROETHANE	<0.056
1,1-DICHLOROETHENE	<0.056
1,2-DICHLOROETHENE (TOTAL)	<0.056
1,2-DICHLOROPROPANE	<0.056
CIS-1,3-DICHLOROPROPENE	<0.056
TRANS-1,3-DICHLOROPROPENE	<0.056
ETHYLBENZENE	<0.056
2-HEXANONE (MBK)	<0.56
4-METHYL-2-PENTANONE (MIBK)	<0.56
METHYLENE CHLORIDE	<0.28
STYRENE	<0.056
1,1,2,2-TETRACHLOROETHANE	<0.056
TETRACHLOROETHENE	<0.056
TOLUENE	<0.056
1,1,1-TRICHLOROETHANE	<0.056
1,1,2-TRICHLOROETHANE	<0.056
TRICHLOROETHENE	<0.056
VINYL ACETATE	<0.56
VINYL CHLORIDE	<0.056
TOTAL XYLENES	0.94

SURROGATE PERCENT RECOVERY

LIMITS

1,2-DICHLOROETHANE-D4	101	71 - 134
TOLUENE-D8	96	65 - 131
BROMOFLUOROBENZENE	78	60 - 125

ATI I.D. # 9212-099-3

TENTATIVELY IDENTIFIED COMPOUNDS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/15/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/16/92
CLIENT I.D.	: DSP-6	DATE ANALYZED	: 12/20/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8240	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	ESTIMATED CONC.	FLAG	R.T.
NONANE, 3-METHYL-	24		31.11
UNKNOWN HYDROCARBON	45		32.12
DECANE, 4-METHYL-	44		34.51
UNDECANE	26		37.04
NAPHTHALENE, DECAHYDRO-	31		37.49



ATI I.D. # 9212-099-4

 VOLATILE ORGANICS ANALYSIS
 DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/15/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/16/92
CLIENT I.D.	: DSP-7	DATE ANALYZED	: 12/19/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8240	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	RESULTS
ACETONE	<1.1
BENZENE	<0.056
BROMODICHLOROMETHANE	<0.056
BROMOFORM	<0.28
BROMOMETHANE	<0.56
2-BUTANONE (MEK)	<0.56
CARBON DISULFIDE	<0.056
CARBON TETRACHLORIDE	<0.056
CHLOROBENZENE	<0.056
CHLOROETHANE	<0.056
CHLOROFORM	<0.056
CHLOROMETHANE	<0.56
DIBROMOCHLOROMETHANE	<0.056
1,1-DICHLOROETHANE	<0.056
1,2-DICHLOROETHANE	<0.056
1,1-DICHLOROETHENE	<0.056
1,2-DICHLOROETHENE (TOTAL)	<0.056
1,2-DICHLOROPROPANE	<0.056
CIS-1,3-DICHLOROPROPENE	<0.056
TRANS-1,3-DICHLOROPROPENE	<0.056
ETHYLBENZENE	<0.056
2-HEXANONE (MBK)	<0.56
4-METHYL-2-PENTANONE (MIBK)	<0.56
METHYLENE CHLORIDE	<0.28
STYRENE	<0.056
1,1,2,2-TETRACHLOROETHANE	<0.056
TETRACHLOROETHENE	<0.056
TOLUENE	<0.056
1,1,1-TRICHLOROETHANE	<0.056
1,1,2-TRICHLOROETHANE	<0.056
TRICHLOROETHENE	<0.056
VINYL ACETATE	<0.56
VINYL CHLORIDE	<0.056
TOTAL XYLENES	0.58

SURROGATE PERCENT RECOVERY

LIMITS

1,2-DICHLOROETHANE-D4	95	71 - 134
TOLUENE-D8	92	65 - 131
BROMOFLUOROBENZENE	71	60 - 125



ATI I.D. # 9212-099-4

TENTATIVELY IDENTIFIED COMPOUNDS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/15/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/16/92
CLIENT I.D.	: DSP-7	DATE ANALYZED	: 12/19/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8240	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	ESTIMATED CONC.	FLAG	R.T.
NONANE, 3-METHYL-	9.4		31.10
DECANE 2-CYCLOHEXYL-, 2-CY	18		32.11
CYCLOHEXANOL, 1-ETHYNYL-	19		33.88
NONANE, 2,6-DIMETHYL-	19		34.50
NAPHTHALENE, DECAHYDRO-	14		37.48



ATI I.D. # 9212-099

VOLATILE ORGANICS ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
EPA METHOD : 8240

SAMPLE I.D. # : 9212-099-4
DATE EXTRACTED : 12/16/92
DATE ANALYZED : 12/19/92
UNITS : mg/Kg

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.0556	2.78	2.81	101	2.83	102	1
CHLOROBENZENE	<0.0556	2.78	3.00	108	2.96	106	1
1,1-DICHLOROETHENE	<0.0556	2.78	2.53	91	2.73	98	8
TOLUENE	<0.0556	2.78	2.88	104	2.93	105	2
TRICHLOROETHENE	<0.0556	2.78	2.76	99	2.77	100	0

CONTROL LIMITS	% REC.	RPD
BENZENE	77 - 117	20
CHLOROBENZENE	78 - 118	20
1,1-DICHLOROETHENE	57 - 131	20
TOLUENE	80 - 120	20
TRICHLOROETHENE	74 - 114	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
1,2-DICHLOROETHANE-D4	102	99	71 - 134
TOLUENE-D8	99	94	65 - 131
BROMOFLUOROBENZENE	75	71	60 - 125

ATI I.D. # 9212-099

VOLATILE ORGANICS ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
EPA METHOD : 8240

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/16/92
DATE ANALYZED : 12/19/92
UNITS : mg/Kg

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.0500	2.50	2.58	103	N/A	N/A	N/A
CHLOROBENZENE	<0.0500	2.50	2.61	104	N/A	N/A	N/A
1,1-DICHLOROETHENE	<0.0500	2.50	2.50	100	N/A	N/A	N/A
TOLUENE	<0.0500	2.50	2.65	106	N/A	N/A	N/A
TRICHLOROETHENE	<0.0500	2.50	2.56	102	N/A	N/A	N/A

CONTROL LIMITS

	% REC.	RPD
BENZENE	79 - 128	20
CHLOROBENZENE	80 - 129	20
1,1-DICHLOROETHENE	57 - 131	20
TOLUENE	78 - 131	20
TRICHLOROETHENE	77 - 125	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
1,2-DICHLOROETHANE-D4	101	N/A	71 - 134
TOLUENE-D8	100	N/A	65 - 131
BROMOFLUOROBENZENE	95	N/A	60 - 125



ATI I.D. # 9212-099

CASE NARRATIVE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

CASE NARRATIVE: SEMI-VOLATILE ORGANICS ANALYSIS

The samples associated with this accession were analyzed by EPA method 8270. The extraction procedure used for this accession was EPA method 3550. A brief summary of the extraction procedure is as follows:

A homogeneous 30 g aliquot of sample is mixed with sodium sulfate and spiked with surrogate solution. Three separate 100 ml aliquots of methylene chloride are added to the sample. The sample is sonicated for three minutes, and the methylene chloride is poured off and filtered with each solvent addition. The total filtrate is collected and then concentrated, using Kuderna-Danish apparatus, and is reduced to a final volume of 1 ml with nitrogen. Internal standard solution is added to the final extract, which is analyzed by GCMS.

No problems or discrepancies with this accession number are noted.

ATI I.D. # 9212-099

SEMI-VOLATILE ORGANICS ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : N/A
PROJECT # : 1957-009-R04	DATE RECEIVED : N/A
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/18/92
CLIENT I.D. : METHOD BLANK	DATE ANALYZED : 12/18/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
EPA METHOD : 8270	DILUTION FACTOR : 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	RESULTS
N-NITROSODIMETHYLAMINE	<0.17
PHENOL	<0.17
ANILINE	<0.17
BIS (2-CHLOROETHYL) ETHER	<0.17
2-CHLOROPHENOL	<0.17
1,3-DICHLOROBENZENE	<0.17
1,4-DICHLOROBENZENE	<0.17
BENZYL ALCOHOL	<0.17
1,2-DICHLOROBENZENE	<0.17
2-METHYLPHENOL	<0.17
BIS (2-CHLOROISOPROPYL) ETHER	<0.17
4-METHYLPHENOL	<0.17
N-NITROSO-DI-N-PROPYLAMINE	<0.17
HEXACHLOROETHANE	<0.17
NITROBENZENE	<0.17
ISOPHORONE	<0.17
2-NITROPHENOL	<0.17
2,4-DIMETHYLPHENOL	<0.17
BENZOIC ACID	<0.83
BIS (2-CHLOROETHOXY) METHANE	<0.17
2,4-DICHLOROPHENOL	<0.17
1,2,4-TRICHLOROBENZENE	<0.17
NAPHTHALENE	<0.17
4-CHLOROANILINE	<0.17
HEXACHLOROBUTADIENE	<0.17
4-CHLORO-3-METHYLPHENOL	<0.17
2-METHYLNAPHTHALENE	<0.17
HEXACHLOROCYCLOPENTADIENE	<0.17
2,4,6-TRICHLOROPHENOL	<0.17
2,4,5-TRICHLOROPHENOL	<0.83
2-CHLORONAPHTHALENE	<0.17
2-NITROANILINE	<0.83
DIMETHYLPHTHALATE	<0.17
ACENAPHTHYLENE	<0.17
3-NITROANILINE	<0.83
ACENAPHTHENE	<0.17
2,4-DINITROPHENOL	<0.83
4-NITROPHENOL	<0.83

CONTINUED ON NEXT PAGE



ATI I.D. # 9212-099

SEMI-VOLATILE ORGANICS ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : METHOD BLANK
SAMPLE MATRIX : SOIL
EPA METHOD : 8270
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED : 12/18/92
DATE ANALYZED : 12/18/92
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUNDS	RESULTS
DIBENZOFURAN	<0.17
2,4-DINITROTOLUENE	<0.17
2,6-DINITROTOLUENE	<0.17
DIETHYLPHTHALATE	<0.17
4-CHLOROPHENYL-PHENYLEETHER	<0.17
FLUORENE	<0.17
4-NITROANILINE	<0.83
4,6-DINITRO-2-METHYLPHENOL	<0.83
N-NITROSODIPHENYLAMINE	<0.17
4-BROMOPHENYL-PHENYLEETHER	<0.17
HEXACHLOROBENZENE	<0.17
PENTACHLOROPHENOL	<0.17
PHENANTHRENE	<0.17
ANTHRACENE	<0.17
DI-N-BUTYLPHTHALATE	<0.17
FLUORANTHENE	<0.17
BENZIDINE	<1.7
PYRENE	<0.17
BUTYLBENZYLPHTHALATE	<0.17
3,3'-DICHLOROBENZIDINE	<0.33
BENZO (A) ANTHRACENE	<0.17
BIS (2-ETHYLHEXYL) PHTHALATE	<0.17
CHRYSENE	<0.17
DI-N-OCTYLPHTHALATE	0.050 J
BENZO (B) FLUORANTHENE	<0.17
BENZO (K) FLUORANTHENE	<0.17
BENZO (A) PYRENE	<0.17
INDENO (1,2,3-CD) PYRENE	<0.17
DIBENZO (A,H) ANTHRACENE	<0.17
BENZO (G,H,I) PERYLENE	<0.17

SURROGATE PERCENT RECOVERY

LIMITS

NITROBENZENE-D5	61	54 - 117
2-FLUOROBIPHENYL	65	56 - 127
TERPHENYL-D14	79	52 - 133
PHENOL-D5	62	47 - 105
2-FLUOROPHENOL	59	52 - 111
2,4,6-TRIBROMOPHENOL	71	35 - 126

J = Estimated value.

ATI I.D. # 9212-099

TENTATIVELY IDENTIFIED COMPOUNDS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8270	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	ESTIMATED CONC.	FLAG	R.T.
UNKNOWN PHTHALATE	0.40		34.68
UNKNOWN PHTHALATE	0.37		34.90
UNKNOWN PHTHALATE	0.37		35.12
UNKNOWN PHTHALATE	0.40		35.19
UNKNOWN PHTHALATE	0.30		35.44



ATI I.D. # 9212-099-2

SEMI-VOLATILE ORGANICS ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : DSP-5
 SAMPLE MATRIX : SOIL
 EPA METHOD : 8270
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/15/92
 DATE RECEIVED : 12/15/92
 DATE EXTRACTED : 12/18/92
 DATE ANALYZED : 12/18/92
 UNITS : mg/Kg
 DILUTION FACTOR : 4

COMPOUNDS	RESULTS
N-NITROSODIMETHYLAMINE	<0.75
PHENOL	<0.75
ANILINE	<0.75
BIS (2-CHLOROETHYL) ETHER	<0.75
2-CHLOROPHENOL	<0.75
1,3-DICHLOROBENZENE	<0.75
1,4-DICHLOROBENZENE	<0.75
BENZYL ALCOHOL	<0.75
1,2-DICHLOROBENZENE	<0.75
2-METHYLPHENOL	<0.75
BIS (2-CHLOROISOPROPYL) ETHER	<0.75
4-METHYLPHENOL	<0.75
N-NITROSO-DI-N-PROPYLAMINE	<0.75
HEXACHLOROETHANE	<0.75
NITROBENZENE	<0.75
ISOPHORONE	<0.75
2-NITROPHENOL	<0.75
2,4-DIMETHYLPHENOL	<0.75
BENZOIC ACID	<3.7
BIS (2-CHLOROETHOXY) METHANE	<0.75
2,4-DICHLOROPHENOL	<0.75
1,2,4-TRICHLOROBENZENE	<0.75
NAPHTHALENE	0.54 J
4-CHLOROANILINE	<0.75
HEXACHLOROBUTADIENE	<0.75
4-CHLORO-3-METHYLPHENOL	<0.75
2-METHYLNAPHTHALENE	1.1
HEXACHLOROCYCLOPENTADIENE	<0.75
2,4,6-TRICHLOROPHENOL	<0.75
2,4,5-TRICHLOROPHENOL	<3.7
2-CHLORONAPHTHALENE	<0.75
2-NITROANILINE	<3.7
DIMETHYLPHTHALATE	<0.75
ACENAPHTHYLENE	<0.75
3-NITROANILINE	<3.7
ACENAPHTHENE	<0.75
2,4-DINITROPHENOL	<3.7
4-NITROPHENOL	<3.7

J = Estimated value.

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ATI I.D. # 9212-099-2

SEMI-VOLATILE ORGANICS ANALYSIS DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/15/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: DSP-5	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8270	DILUTION FACTOR	: 4

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	RESULTS
DIBENZOFURAN	<0.75
2,4-DINITROTOLUENE	<0.75
2,6-DINITROTOLUENE	<0.75
DIETHYLPHTHALATE	<0.75
4-CHLOROPHENYL-PHENYLETHER	<0.75
FLUORENE	<0.75
4-NITROANILINE	<3.7
4,6-DINITRO-2-METHYLPHENOL	<3.7
N-NITROSODIPHENYLAMINE	<0.75
4-BROMOPHENYL-PHENYLETHER	<0.75
HEXACHLOROBENZENE	<0.75
PENTACHLOROPHENOL	<0.75
PHENANTHRENE	0.19 J
ANTHRACENE	<0.75
DI-N-BUTYLPHTHALATE	<0.75
FLUORANTHENE	<0.75
BENZIDINE	<7.5
PYRENE	0.30 J
BUTYLBENZYLPHTHALATE	<0.75
3,3'-DICHLOROBENZIDINE	<1.5
BENZO (A) ANTHRACENE	<0.75
BIS (2-ETHYLHEXYL) PHTHALATE	0.71 J
CHRYSENE	<0.75
DI-N-OCTYLPHTHALATE	<0.75
BENZO (B) FLUORANTHENE	<0.75
BENZO (K) FLUORANTHENE	<0.75
BENZO (A) PYRENE	<0.75
INDENO (1,2,3-CD) PYRENE	<0.75
DIBENZO (A, H) ANTHRACENE	<0.75
BENZO (G, H, I) PERYLENE	<0.75

SURROGATE PERCENT RECOVERY

LIMITS

NITROBENZENE-D5	101	54 - 117
2-FLUOROBIPHENYL	90	56 - 127
TERPHENYL-D14	123	52 - 133
PHENOL-D5	83	47 - 105
2-FLUOROPHENOL	91	52 - 111
2,4,6-TRIBROMOPHENOL	97	35 - 126

J = Estimated value.

ATI I.D. # 9212-099-2

TENTATIVELY IDENTIFIED COMPOUNDS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/15/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: DSP-5	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8270	DILUTION FACTOR	: 4

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	ESTIMATED CONC.	FLAG	R.T.
UNKNOWN HYDROCARBON	4.8		10.12
DECANE, 6-ETHYL-2-METHYL-	4.6		10.83
NAPHTHALENE, DECAHYDRO-, T	7.0		12.14
CYCLOHEXANE, 2,4-DIETHYL-1	4.2		12.54
UNKNOWN ALKANE	6.4		13.03

ATI I.D. # 9212-099-3

SEMI-VOLATILE ORGANICS ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 12/15/92
PROJECT # : 1957-009-R04	DATE RECEIVED : 12/15/92
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/18/92
CLIENT I.D. : DSP-6	DATE ANALYZED : 12/18/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
EPA METHOD : 8270	DILUTION FACTOR : 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	RESULTS
N-NITROSODIMETHYLAMINE	<0.19
PHENOL	<0.19
ANILINE	<0.19
BIS (2-CHLOROETHYL) ETHER	<0.19
2-CHLOROPHENOL	<0.19
1,3-DICHLOROBENZENE	<0.19
1,4-DICHLOROBENZENE	<0.19
BENZYL ALCOHOL	<0.19
1,2-DICHLOROBENZENE	<0.19
2-METHYLPHENOL	<0.19
BIS (2-CHLOROISOPROPYL) ETHER	<0.19
4-METHYLPHENOL	<0.19
N-NITROSO-DI-N-PROPYLAMINE	<0.19
HEXACHLOROETHANE	<0.19
NITROBENZENE	<0.19
ISOPHORONE	<0.19
2-NITROPHENOL	<0.19
2,4-DIMETHYLPHENOL	<0.19
BENZOIC ACID	<0.94
BIS (2-CHLOROETHOXY) METHANE	<0.19
2,4-DICHLOROPHENOL	<0.19
1,2,4-TRICHLOROBENZENE	<0.19
NAPHTHALENE	<0.19
4-CHLOROANILINE	<0.19
HEXACHLOROBUTADIENE	<0.19
4-CHLORO-3-METHYLPHENOL	<0.19
2-METHYLNAPHTHALENE	<0.19
HEXACHLOROCYCLOPENTADIENE	<0.19
2,4,6-TRICHLOROPHENOL	<0.19
2,4,5-TRICHLOROPHENOL	<0.94
2-CHLORONAPHTHALENE	<0.19
2-NITROANILINE	<0.94
DIMETHYLPHTHALATE	<0.19
ACENAPHTHYLENE	<0.19
3-NITROANILINE	<0.94
ACENAPHTHENE	<0.19
2,4-DINITROPHENOL	<0.94
4-NITROPHENOL	<0.94

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ATI I.D. # 9212-099-3

SEMI-VOLATILE ORGANICS ANALYSIS DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : DSP-6
 SAMPLE MATRIX : SOIL
 EPA METHOD : 8270
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/15/92
 DATE RECEIVED : 12/15/92
 DATE EXTRACTED : 12/18/92
 DATE ANALYZED : 12/18/92
 UNITS : mg/Kg
 DILUTION FACTOR : 1

COMPOUNDS	RESULTS
DIBENZOFURAN	<0.19
2,4-DINITROTOLUENE	<0.19
2,6-DINITROTOLUENE	<0.19
DIETHYLPHTHALATE	<0.19
4-CHLOROPHENYL-PHENYLETHER	<0.19
FLUORENE	<0.19
4-NITROANILINE	<0.94
4,6-DINITRO-2-METHYLPHENOL	<0.94
N-NITROSODIPHENYLAMINE	<0.19
4-BROMOPHENYL-PHENYLETHER	<0.19
HEXACHLOROBENZENE	<0.19
PENTACHLOROPHENOL	<0.19
PHENANTHRENE	<0.19
ANTHRACENE	<0.19
DI-N-BUTYLPHTHALATE	<0.19
FLUORANTHENE	<0.19
BENZIDINE	<1.9
PYRENE	0.040 J
BUTYLBENZYLPHTHALATE	<0.19
3,3'-DICHLOROBENZIDINE	<0.37
BENZO (A) ANTHRACENE	<0.19
BIS (2-ETHYLHEXYL) PHTHALATE	0.20
CHRYSENE	<0.19
DI-N-OCTYLPHTHALATE	<0.19
BENZO (B) FLUORANTHENE	<0.19
BENZO (K) FLUORANTHENE	<0.19
BENZO (A) PYRENE	<0.19
INDENO (1,2,3-CD) PYRENE	<0.19
DIBENZO (A,H) ANTHRACENE	<0.19
BENZO (G,H,I) PERYLENE	<0.19

SURROGATE PERCENT RECOVERY

LIMITS

NITROBENZENE-D5	103	54 - 117
2-FLUOROBIPHENYL	84	56 - 127
TERPHENYL-D14	99	52 - 133
PHENOL-D5	74	47 - 105
2-FLUOROPHENOL	80	52 - 111
2,4,6-TRIBROMOPHENOL	88	35 - 126

J = Estimated value.

ATI I.D. # 9212-099-3

TENTATIVELY IDENTIFIED COMPOUNDS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/15/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: DSP-6	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8270	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	ESTIMATED CONC.	FLAG	R.T.
CYCLOHEXANE, 1,1,2,3-TETRA	1.3		9.71
1-PENTANOL, 4-METHYL-2-PRO	1.4		10.09
UNKNOWN ALKANE	2.0		10.82
NAPHTHALENE, DECAHYDRO-, T	2.0		12.13
UNDECANE	6.0		13.03

ATI I.D. # 9212-099-4

SEMI-VOLATILE ORGANICS ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : DSP-7
 SAMPLE MATRIX : SOIL
 EPA METHOD : 8270
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/15/92
 DATE RECEIVED : 12/15/92
 DATE EXTRACTED : 12/18/92
 DATE ANALYZED : 12/18/92
 UNITS : mg/Kg
 DILUTION FACTOR : 5

COMPOUNDS	RESULTS
N-NITROSODIMETHYLAMINE	<0.93
PHENOL	<0.93
ANILINE	<0.93
BIS (2-CHLOROETHYL) ETHER	<0.93
2-CHLOROPHENOL	<0.93
1,3-DICHLOROBENZENE	<0.93
1,4-DICHLOROBENZENE	<0.93
BENZYL ALCOHOL	<0.93
1,2-DICHLOROBENZENE	<0.93
2-METHYLPHENOL	<0.93
BIS (2-CHLOROISOPROPYL) ETHER	<0.93
4-METHYLPHENOL	<0.93
N-NITROSO-DI-N-PROPYLAMINE	<0.93
HEXACHLOROETHANE	<0.93
NITROBENZENE	<0.93
ISOPHORONE	<0.93
2-NITROPHENOL	<0.93
2,4-DIMETHYLPHENOL	<0.93
BENZOIC ACID	<4.6
BIS (2-CHLOROETHOXY) METHANE	<0.93
2,4-DICHLOROPHENOL	<0.93
1,2,4-TRICHLOROBENZENE	<0.93
NAPHTHALENE	<0.93
4-CHLOROANILINE	<0.93
HEXACHLOROBUTADIENE	<0.93
4-CHLORO-3-METHYLPHENOL	<0.93
2-METHYLNAPHTHALENE	<0.93
HEXACHLOROCYCLOPENTADIENE	<0.93
2,4,6-TRICHLOROPHENOL	<0.93
2,4,5-TRICHLOROPHENOL	<4.6
2-CHLORONAPHTHALENE	<0.93
2-NITROANILINE	<4.6
DIMETHYLPHTHALATE	<0.93
ACENAPHTHYLENE	<0.93
3-NITROANILINE	<4.6
ACENAPHTHENE	<0.93
2,4-DINITROPHENOL	<4.6
4-NITROPHENOL	<4.6

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ATI I.D. # 9212-099-4

SEMI-VOLATILE ORGANICS ANALYSIS DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/15/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: DSP-7	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8270	DILUTION FACTOR	: 5

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	RESULTS
DIBENZOFURAN	<0.93
2,4-DINITROTOLUENE	<0.93
2,6-DINITROTOLUENE	<0.93
DIETHYLPHTHALATE	<0.93
4-CHLOROPHENYL-PHENYLETHER	<0.93
FLUORENE	<0.93
4-NITROANILINE	<4.6
4,6-DINITRO-2-METHYLPHENOL	<4.6
N-NITROSODIPHENYLAMINE	<0.93
4-BROMOPHENYL-PHENYLETHER	<0.93
HEXACHLOROBENZENE	<0.93
PENTACHLOROPHENOL	<0.93
PHENANTHRENE	<0.93
ANTHRACENE	<0.93
DI-N-BUTYLPHTHALATE	<0.93
FLUORANTHENE	<0.93
BENZIDINE	<9.3
PYRENE	0.24 J
BUTYLBENZYLPHTHALATE	<0.93
3,3'-DICHLOROBENZIDINE	<1.9
BENZO (A) ANTHRACENE	<0.93
BIS (2-ETHYLHEXYL) PHTHALATE	0.52 J
CHRYSENE	<0.93
DI-N-OCTYLPHTHALATE	<0.93
BENZO (B) FLUORANTHENE	<0.93
BENZO (K) FLUORANTHENE	<0.93
BENZO (A) PYRENE	<0.93
INDENO (1,2,3-CD) PYRENE	<0.93
DIBENZO (A,H) ANTHRACENE	<0.93
BENZO (G,H,I) PERYLENE	<0.93

SURROGATE PERCENT RECOVERY

LIMITS

NITROBENZENE-D5	73	54 - 117
2-FLUOROBIPHENYL	88	56 - 127
TERPHENYL-D14	114	52 - 133
PHENOL-D5	84	47 - 105
2-FLUOROPHENOL	77	52 - 111
2,4,6-TRIBROMOPHENOL	93	35 - 126

J = Estimated value.

ATI I.D. # 9212-099-4

TENTATIVELY IDENTIFIED COMPOUNDS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/15/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/18/92
CLIENT I.D.	: DSP-7	DATE ANALYZED	: 12/18/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8270	DILUTION FACTOR	: 5

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	ESTIMATED CONC.	FLAG	R.T.
2-DECENE, 5-METHYL-, (Z) -	3.1		9.25
CYCLOPENTANE, 1-METHYL-3- (3.9		10.10
UNDECANE	3.0		10.80
NAPHTHALENE, DECAHYDRO-, C	5.6		12.11
CYCLOHEXANE, 2,4-DIETHYL-1	3.0		12.53

ATI I.D. # 9212-099

SEMI-VOLATILE ORGANICS ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
EPA METHOD : 8270

SAMPLE I.D. # : 9212-099-4
DATE EXTRACTED : 12/18/92
DATE ANALYZED : 12/18/92
UNITS : mg/Kg

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
PHENOL	<0.926	7.41	6.69	90	6.53	88	2
2-CHLOROPHENOL	<0.926	7.41	6.91	93	6.82	92	1
1,4-DICHLOROBENZENE	<0.926	3.70	3.28	89	3.30	89	1
N-NITROSO-DI-N-PROPYLAMINE	<0.926	3.70	3.43	93	3.39	92	1
1,2,4-TRICHLOROBENZENE	<0.926	3.70	3.55	96	3.61	98H	2
4-CHLORO-3-METHYLPHENOL	<0.926	7.41	6.99	94	7.29	98	4
ACENAPHTHENE	<0.926	3.70	3.89	105	3.94	106	1
4-NITROPHENOL	<4.63	7.41	6.74	91	5.62	76	18
2,4-DINITROTOLUENE	<0.926	3.70	3.13	85	3.06	83	2
PENTACHLOROPHENOL	<0.926	7.41	6.75	91	6.41	87	5
PYRENE	<0.926	3.70	3.93	106	3.96	107	1

CONTROL LIMITS

	% REC.	RPD
PHENOL	50 - 113	20
2-CHLOROPHENOL	45 - 112	21
1,4-DICHLOROBENZENE	52 - 100	22
N-NITROSO-DI-N-PROPYLAMINE	56 - 112	20
1,2,4-TRICHLOROBENZENE	51 - 97	20
4-CHLORO-3-METHYLPHENOL	49 - 113	20
ACENAPHTHENE	58 - 107	21
4-NITROPHENOL	42 - 140	20
2,4-DINITROTOLUENE	49 - 107	20
PENTACHLOROPHENOL	36 - 140	28
PYRENE	41 - 125	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
NITROBENZENE-D5	80	75	54 - 117
2-FLUOROBIPHENYL	92	95	56 - 127
TERPHENYL-D14	109	109	52 - 133
PHENOL-D5	83	81	47 - 105
2-FLUOROPHENOL	79	80	52 - 111
2,4,6-TRIBROMOPHENOL	98	102	35 - 126

H = Out of Limits.

ATI I.D. # 9212-099

CASE NARRATIVE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

CASE NARRATIVE: POLYCHLORINATED BIPHENYLS (PCBs) ANALYSIS

These samples were analyzed by EPA method 3550/8080 as follows:

Approximately 30 grams of sample were mixed with sodium sulfate and spiked with 8080 surrogate solution. Three separate 100 mL aliquots of methylene chloride were added to the sample. With each solvent addition, the sample was sonicated for three minutes and the methylene chloride was poured off and filtered. The total filtrate was collected and concentrated using Kuderna-Danish apparatus and reduced to a volume of 4 ml with nitrogen. The extract was exchanged to hexane to a relative final volume of 10 mLs. The final extract was analyzed by GC/ECD.

The method blanks were free of target compounds. All surrogate percent recoveries were within ATI control limits. The matrix spike/matrix spike duplicate (MS/MSD) recoveries and MS/MSD relative percent differences (RPDs) were within ATI control limits.

No sample dilutions were required. All sample extraction and analysis hold times were met.

ATI I.D. # 9212-099

PCB ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : N/A
PROJECT # : 1957-009-R04	DATE RECEIVED : N/A
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/16/92
CLIENT I.D. : METHOD BLANK	DATE ANALYZED : 12/21/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
EPA METHOD : 8080	DILUTION FACTOR : 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUND	RESULT
PCB 1016	<0.033
PCB 1221	<0.033
PCB 1232	<0.033
PCB 1242	<0.033
PCB 1248	<0.033
PCB 1254	<0.033
PCB 1260	<0.033

SURROGATE PERCENT RECOVERIES

LIMITS

DECACHLOROBIPHENYL	89	52 - 125
DIBUTYLCHLORENDATE	91	24 - 137

ATI I.D. # 9212-099-2

PCB ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : DSP-5
SAMPLE MATRIX : SOIL
EPA METHOD : 8080
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/15/92
DATE RECEIVED : 12/15/92
DATE EXTRACTED : 12/16/92
DATE ANALYZED : 12/22/92
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUND	RESULT
PCB 1016	<0.037
PCB 1221	<0.037
PCB 1232	<0.037
PCB 1242	<0.037
PCB 1248	<0.037
PCB 1254	<0.037
PCB 1260	<0.037

SURROGATE PERCENT RECOVERIES		LIMITS
DECACHLOROBIPHENYL	83	52 - 125
DIBUTYLCHLORENDATE	77	24 - 137

ATI I.D. # 9212-099-3

PCB ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/15/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/16/92
CLIENT I.D.	: DSP-6	DATE ANALYZED	: 12/22/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8080	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUND	RESULT
PCB 1016	<0.037
PCB 1221	<0.037
PCB 1232	<0.037
PCB 1242	<0.037
PCB 1248	<0.037
PCB 1254	<0.037
PCB 1260	<0.037

SURROGATE PERCENT RECOVERIES

LIMITS

DECACHLOROBIPHENYL	81	52 - 125
DIBUTYLCHLORENDATE	76	24 - 137

ATI I.D. # 9212-099-4

PCB ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : DSP-7
 SAMPLE MATRIX : SOIL
 EPA METHOD : 8080
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 12/15/92
 DATE RECEIVED : 12/15/92
 DATE EXTRACTED : 12/16/92
 DATE ANALYZED : 12/22/92
 UNITS : mg/Kg
 DILUTION FACTOR : 1

COMPOUND	RESULT
PCB 1016	<0.037
PCB 1221	<0.037
PCB 1232	<0.037
PCB 1242	<0.037
PCB 1248	<0.037
PCB 1254	<0.037
PCB 1260	<0.037

SURROGATE PERCENT RECOVERIES

DECACHLOROBIPHENYL
 DIBUTYLCHLORENDATE

80
 74

LIMITS

52 - 125
 24 - 137

ATTI I.D. # 9212-099

PCB ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.	SAMPLE I.D. # : 9212-075-4
PROJECT # : 1957-009-R04	DATE EXTRACTED : 12/16/92
PROJECT NAME : TIME OIL JACKPOT	DATE ANALYZED : 12/21/92
EPA METHOD : 8080	UNITS : mg/Kg
SAMPLE MATRIX : SOIL	

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PCB 1260	0.0918	0.333	0.430	102	0.381	87	12
CONTROL LIMITS				% REC.			RPD
PCB 1260				55 - 131			31
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
DECACHLOROBIPHENYL		89		103		52 - 125	
DIBUTYLCHLORENDATE		126		86		24 - 137	

ATI I.D. # 9212-099

PCB ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
EPA METHOD : 8080
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/16/92
DATE ANALYZED : 12/21/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PCB 1260	<0.0333	0.333	0.320	96	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
PCB 1260				74- 120			21
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
DECACHLOROBIPHENYL		91		N/A		52 - 125	
DIBUTYLCHLORENDATE		97		N/A		24 - 137	

ATI I.D. # 9212-099

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/16/92
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 12/16/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUND	RESULT
FUEL HYDROCARBONS	<10
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	84 50 - 150

ATI I.D. # 9212-099-5

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 12/15/92
PROJECT # : 1957-009-R04	DATE RECEIVED : 12/15/92
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/16/92
CLIENT I.D. : CSP-3	DATE ANALYZED : 12/17/92
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND	RESULT
FUEL HYDROCARBONS	260
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<110
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	95 50 - 150

ATI I.D. # 9212-099-6

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/15/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/15/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/16/92
CLIENT I.D.	: CSP-4	DATE ANALYZED	: 12/17/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND	RESULT
FUEL HYDROCARBONS	100
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<110
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY	LIMITS
O-TERPHENYL	84 50 - 150

ATI I.D. # 9212-099

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : 500 PPM CCV
SAMPLE MATRIX : WATER
METHOD : WA DOE WTPH-D

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED : N/A
DATE ANALYZED : 12/17/92
UNITS : %
DILUTION FACTOR : 1

COMPOUND% DIFFERENCE

FUEL HYDROCARBONS QUANTITATED USING DIESEL

4

ATI I.D. # 9212-099

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: N/A
CLIENT I.D.	: 400 PPM CCV	DATE ANALYZED	: 12/17/92
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND	% DIFFERENCE
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FUEL HYDROCARBONS QUANTITATED USING DIESEL	9
FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL	12

ATI I.D. # 9212-099

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : 9212-097-1
DATE EXTRACTED : 12/16/92
DATE ANALYZED : 12/16/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	47	54	14	200	231	92	237	95	3
CONTROL LIMITS						% REC.			RPD
DIESEL						63 - 131			20
SURROGATE RECOVERIES				SPIKE	DUP. SPIKE		LIMITS		
O-TERPHENYL				85	81		50 - 150		

ATI I.D. # 9212-099

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/16/92
DATE ANALYZED : 12/16/92
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<10	200	185	93	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		85		N/A		50 - 150	



ATI I.D. # 9212-099

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE EXTRACTED	: 12/17/92
PROJECT #	: 1957-009-R04	DATE ANALYZED	: 12/17/92
PROJECT NAME	: TIME OIL JACKPOT	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-418.1 MODIFIED	SAMPLE MATRIX	: SOIL
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

ATI I.D. #	CLIENT I.D.	TOTAL PETROLEUM HYDROCARBONS	TOTAL PETROLEUM HYDROCARBONS *
9212-099-2	DSP-5	6,600	6,500
9212-099-3	DSP-6	860	860
9212-099-4	DSP-7	4,500	4,400
METHOD BLANK	-	<20	<20

* Reanalyzed after second aliquot of silica gel added.

ATI I.D. # 9212-099

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: ICV
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/17/92
METHOD	: WA DOE WTPH-418.1 MODIFIED	UNITS	: mg/L
SAMPLE MATRIX	: WATER		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS	N/A	N/A	N/A	100	101	101	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spiked Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{|(\text{Spike Result} - \text{Dup. Spike Result})|}{\text{Average Result}} \times 100$$

ATI I.D. # 9212-099

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-099-3
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/17/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/17/92
METHOD	: WA DOE WTPH-418.1 MODIFIED	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (MOTOR OIL)	762	691	10	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spiked Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{|\text{(Spike Result - Dup. Spike Result)}|}{\text{Average Result}} \times 100$$

ATI I.D. # 9212-099

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-104-8
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/17/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/17/92
METHOD	: WA DOE WTPH-418.1 MODIFIED	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (MOTOR OIL)	61	55	10	400	476	103	477	104	0

$$\% \text{ Recovery} = \frac{(\text{Spiked Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{|(\text{Spike Result} - \text{Dup. Spike Result})|}{\text{Average Result}} \times 100$$

ATI I.D. # 9212-099

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: BLANK SPIKE
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/17/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 12/17/92
METHOD	: WA DOE WTPH-418.1 MODIFIED	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (MOTOR OIL)	<20	N/A	N/A	400	429	107	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spiked Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{|(\text{Spike Result} - \text{Dup. Spike Result})|}{\text{Average Result}} \times 100$$

ATI I.D. # 9212-099

**METALS ANALYSIS
QUALITY CONTROL DATA**

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : mg/Kg

ELEMENT	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
ARSENIC	9212-099-4	1.4	1.9	30	4.78	1.52	F
ARSENIC	BLANK SPIKE	<0.25	N/A	N/A	0.981	1.25	78
BARIUM	9212-099-4	55	55	0	104	56.8	86
BARIUM	BLANK SPIKE	<0.50	N/A	N/A	46.0	50.0	92
CADMIUM	9212-099-4	0.40	0.31	25	49.5	56.8	86
CADMIUM	BLANK SPIKE	<0.25	N/A	N/A	44.0	50.0	88
CHROMIUM	9212-099-4	22	21	5	66.7	56.8	79
CHROMIUM	BLANK SPIKE	<0.50	N/A	N/A	42.9	50.0	86
COPPER	9212-099-4	14	15	7	64.1	56.8	88
COPPER	BLANK SPIKE	<0.50	N/A	N/A	44.0	50.0	88
LEAD	9212-099-4	13	14	7	64.8	56.8	91
LEAD	BLANK SPIKE	<1.50	N/A	N/A	43.7	50.0	87
MERCURY	9211-244-22	<0.13	<0.13	NC	0.657	0.662	99
MERCURY	BLANK SPIKE	<0.10	N/A	N/A	0.470	0.500	94
NICKEL	9212-099-4	34	30	13	80.9	56.8	83
NICKEL	BLANK SPIKE	<0.50	N/A	N/A	46.5	50.0	93
SELENIUM	9212-099-4	<0.30	<0.30	NC	1.59	1.52	105
SELENIUM	BLANK SPIKE	<0.25	N/A	N/A	1.25	1.25	100
SILVER	9212-099-4	<0.29	<0.29	NC	47.6	56.8	84
SILVER	BLANK SPIKE	<0.25	N/A	N/A	43.3	50.0	87
ZINC	9212-099-4	29	30	3	77.5	56.8	85
ZINC	BLANK SPIKE	<0.50	N/A	N/A	42.8	50.0	86

F = Out of limits due to matrix interference.
NC = Not Calculable.

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

ATI I.D. # 9212-099

GENERAL CHEMISTRY ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

PARAMETER	DATE ANALYZED
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MOISTURE	12/15/92
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MOISTURE* (SAMPLES -5, -6)	12/16/92
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MOISTURE* (SAMPLES -2 THROUGH -4)	12/17/92
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* Percent moisture results associated with Total Petroleum Hydrocarbon analyses.

ATI I.D. # 9212-099

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARYCLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE	MOISTURE*
9212-099-2	DSP-5	11	9.9
9212-099-3	DSP-6	11	11
9212-099-4	DSP-7	10	11
9212-099-5	CSP-3	-	13
9212-099-6	CSP-4	-	13

* Percent moisture results associated with Total Petroleum Hydrocarbon analyses.

ATI I.D. # 9212-099

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9212-099-4	10	11	10	N/A	N/A	N/A
MOISTURE*	9212-099-5	13	13	0	N/A	N/A	N/A
MOISTURE*	9212-109-1	12	13	8	N/A	N/A	N/A

* Percent moisture results associated with Total Petroleum Hydrocarbon analyses.

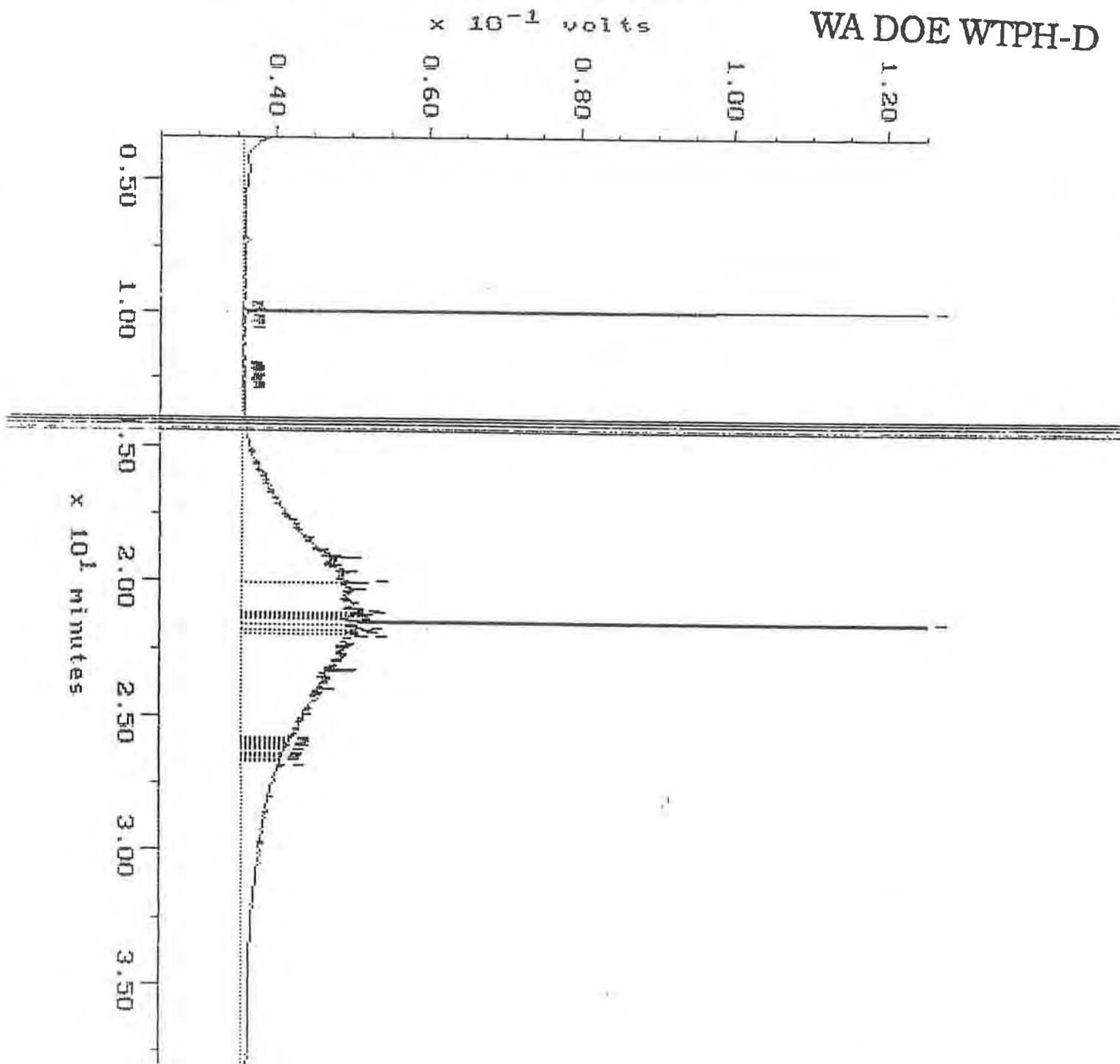
$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Acquired: 17-DEC-92 4:49 Method: H:\BRO2\MAX\DATA\SERGE-C\FUEL1215
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Operator: ATI

WA DOE WTPH-D

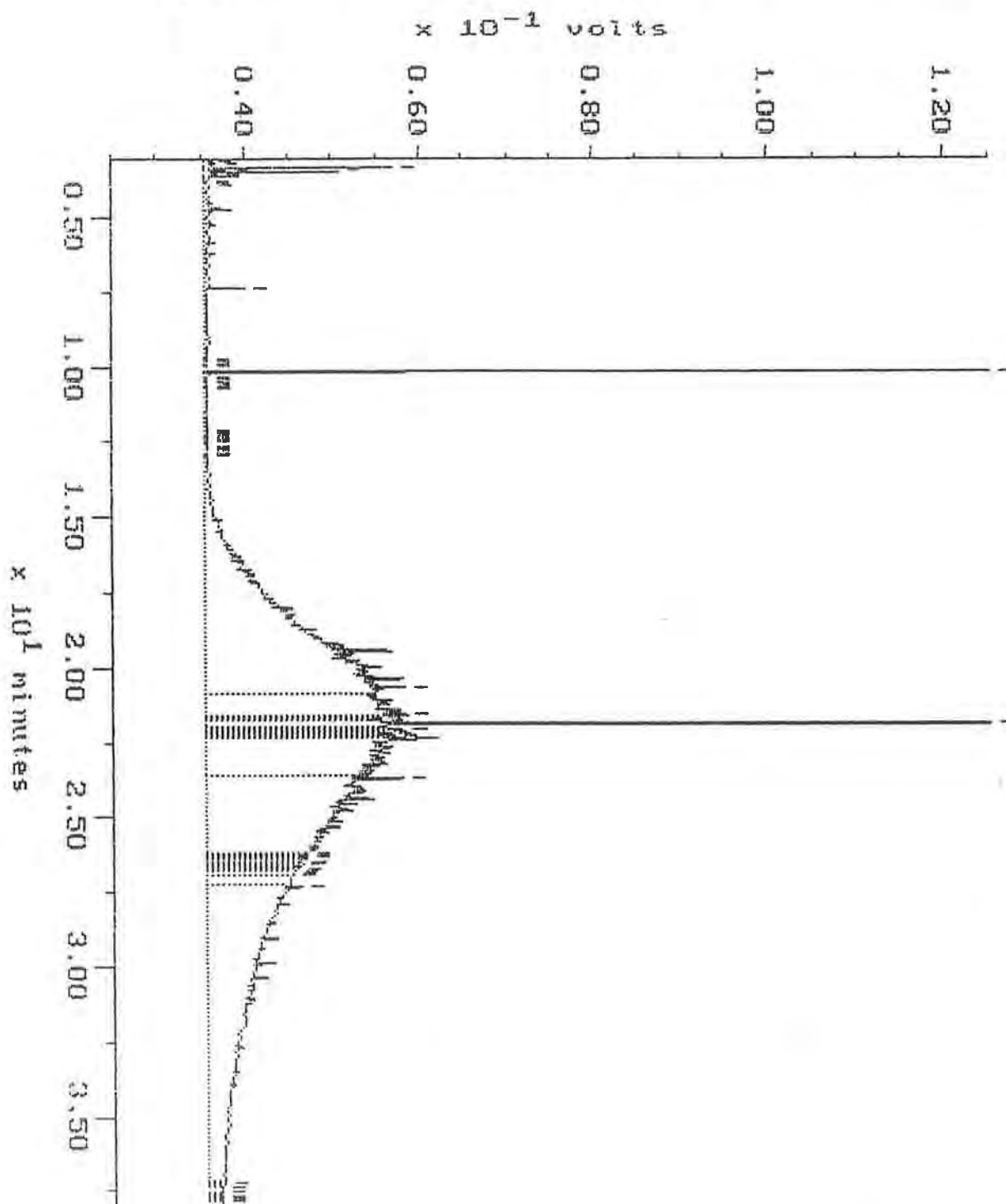


WA DOE WTPH-D

Sample: 9212-099-5
Acquired: 17-DEC-92 16:45
Inj Vol: 1.00

Channel: DEMITRI
Method: H:\3802\MAXDATA\SERGE-D\FUEL1217

Filename: 1217SD03
Operator: ATI

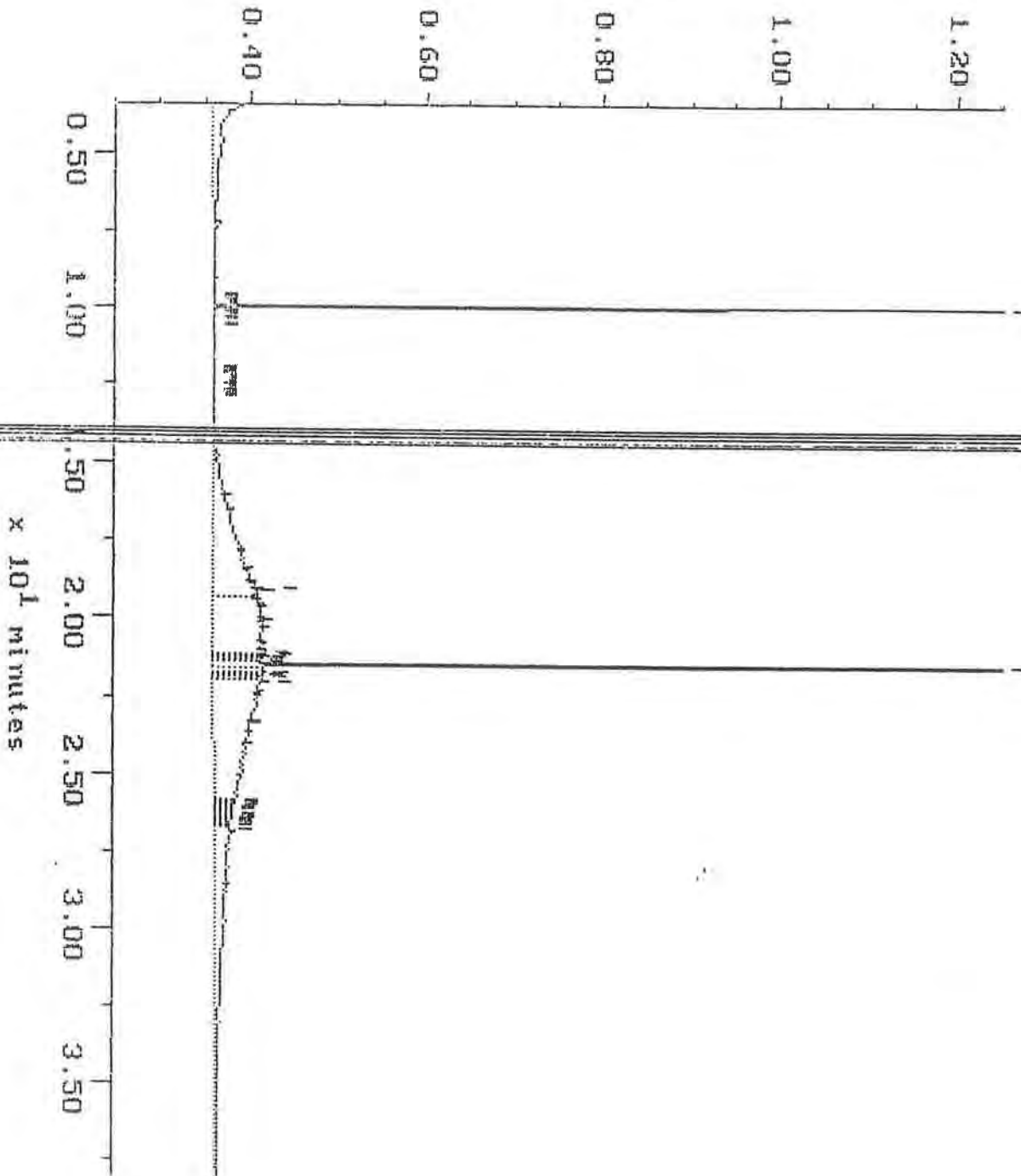


Acquired: 17-DEC-92 5:36 Method: H:\BRO2\MAXDATA\SERGE-C\FUEL1215
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

File Name: 12105070
Operator: ATI

WA DOE WTPH-D

$\times 10^{-1}$ volts

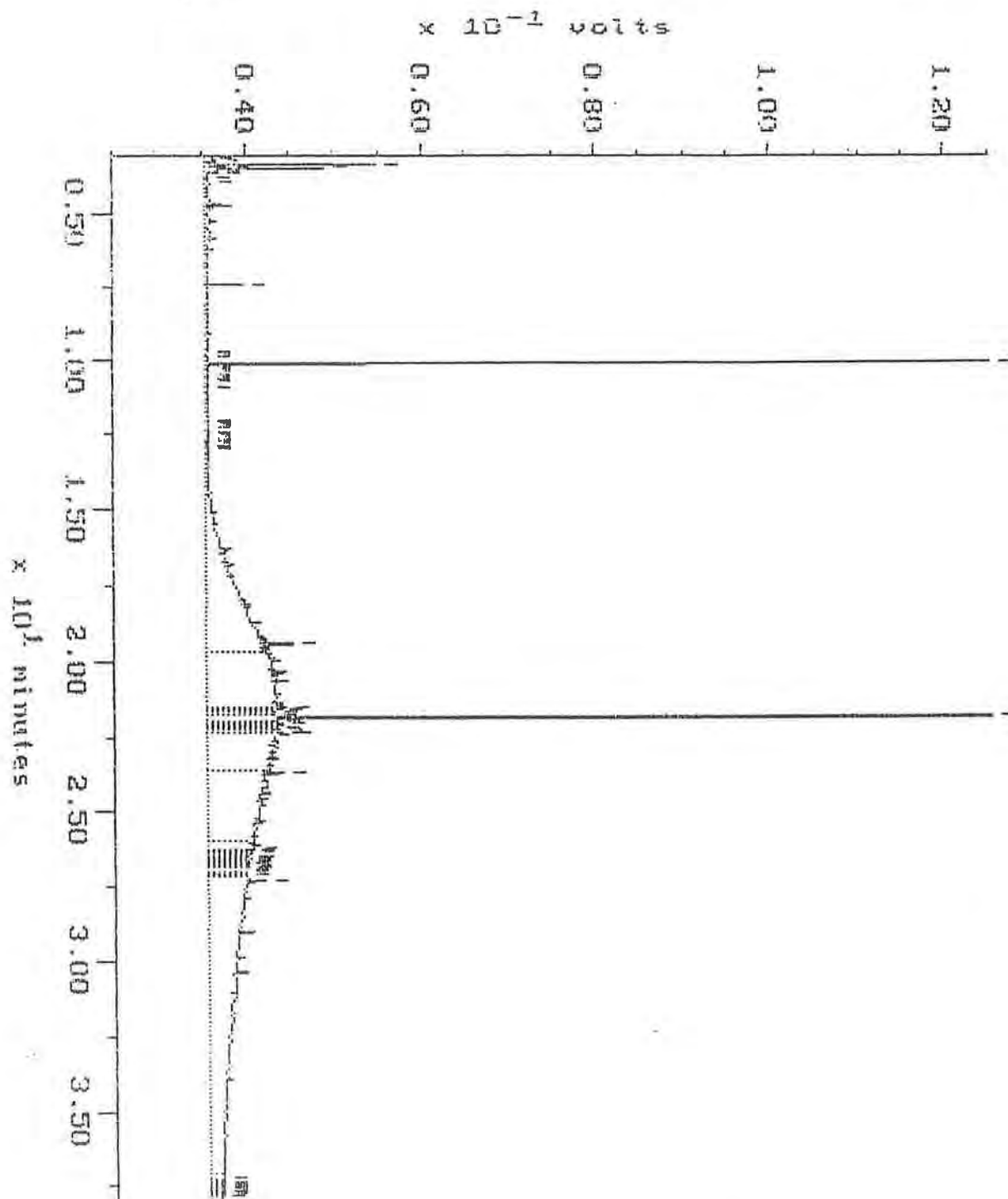


WA DOE WTPH-D

Sample: 9212-099-6
Acquired: 17-DEC-92 17:31
Inj Vol: 1.00

Channel: DEMITRI
Method: H:\SRGE\MAXDATA\SERGE-D\FUEL1217

Filename: 1217SD04
Operator: ATI

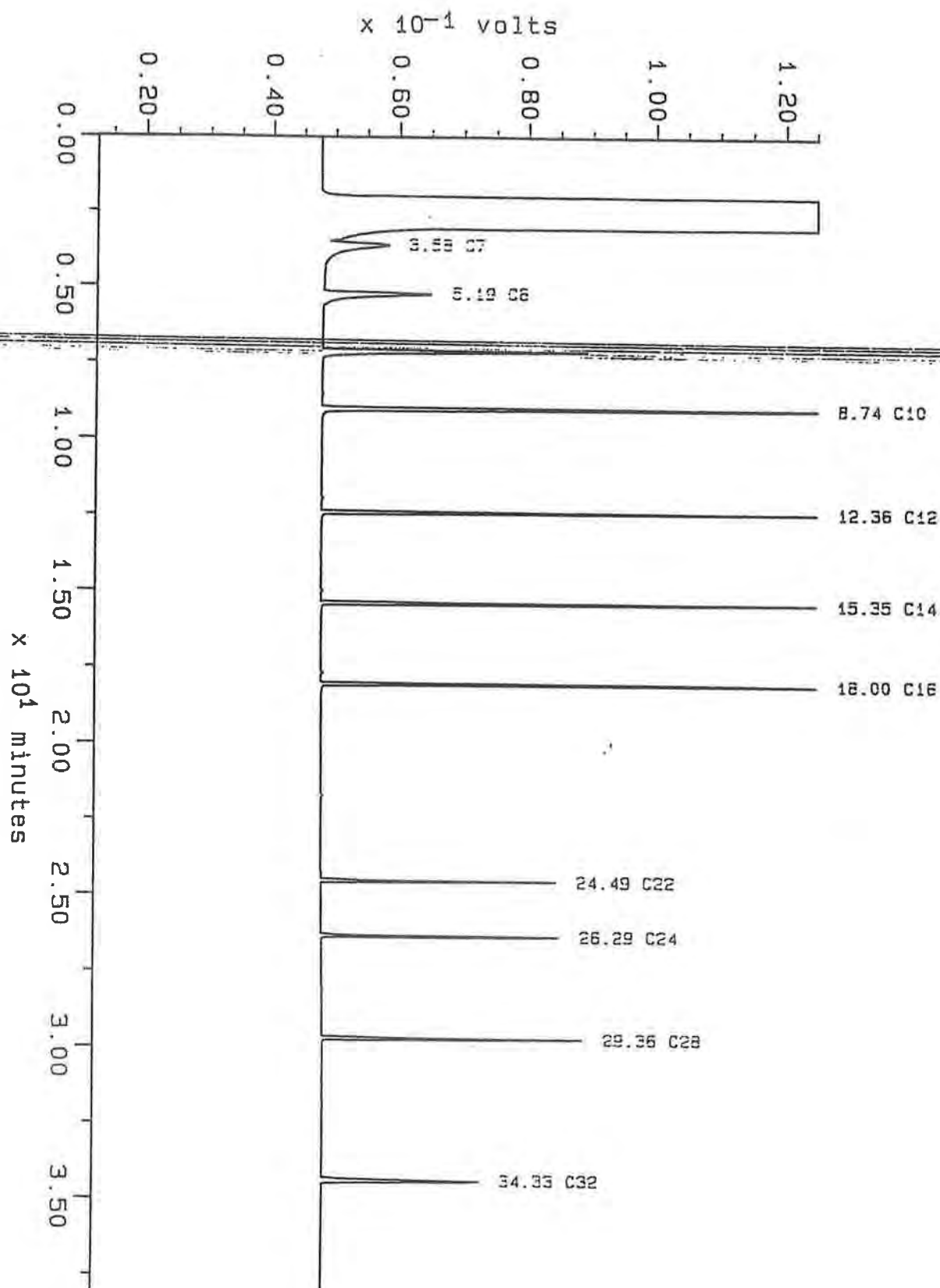


Alkane

Sample: ALKANE
Acquired: CLOCK NOT SET
Inj Vol: 1.00

Channel: CLARENCE
Method: H: \ER02\MAXDATA\SERGE-C\FUEL1005

Filename: 100BSC40
Operator: ATI

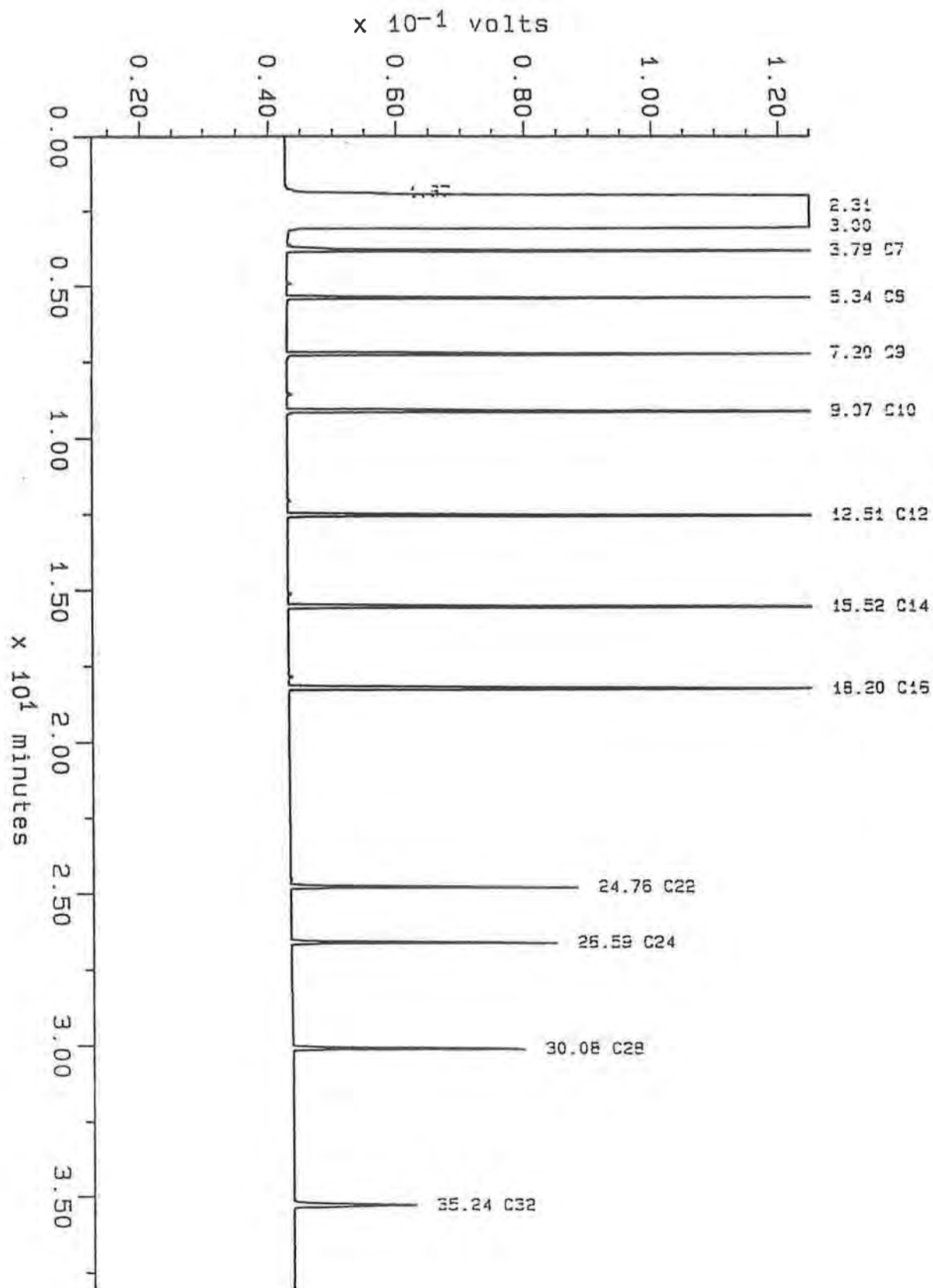


Alkane

Sample: ALKANE
Acquired: 02-NOV-92 12: 49
Inj Vol: 1.00

Channel: DEMITRI
Method: L: \BRO2\MAXDATA\SERGE-D\FUEL0902

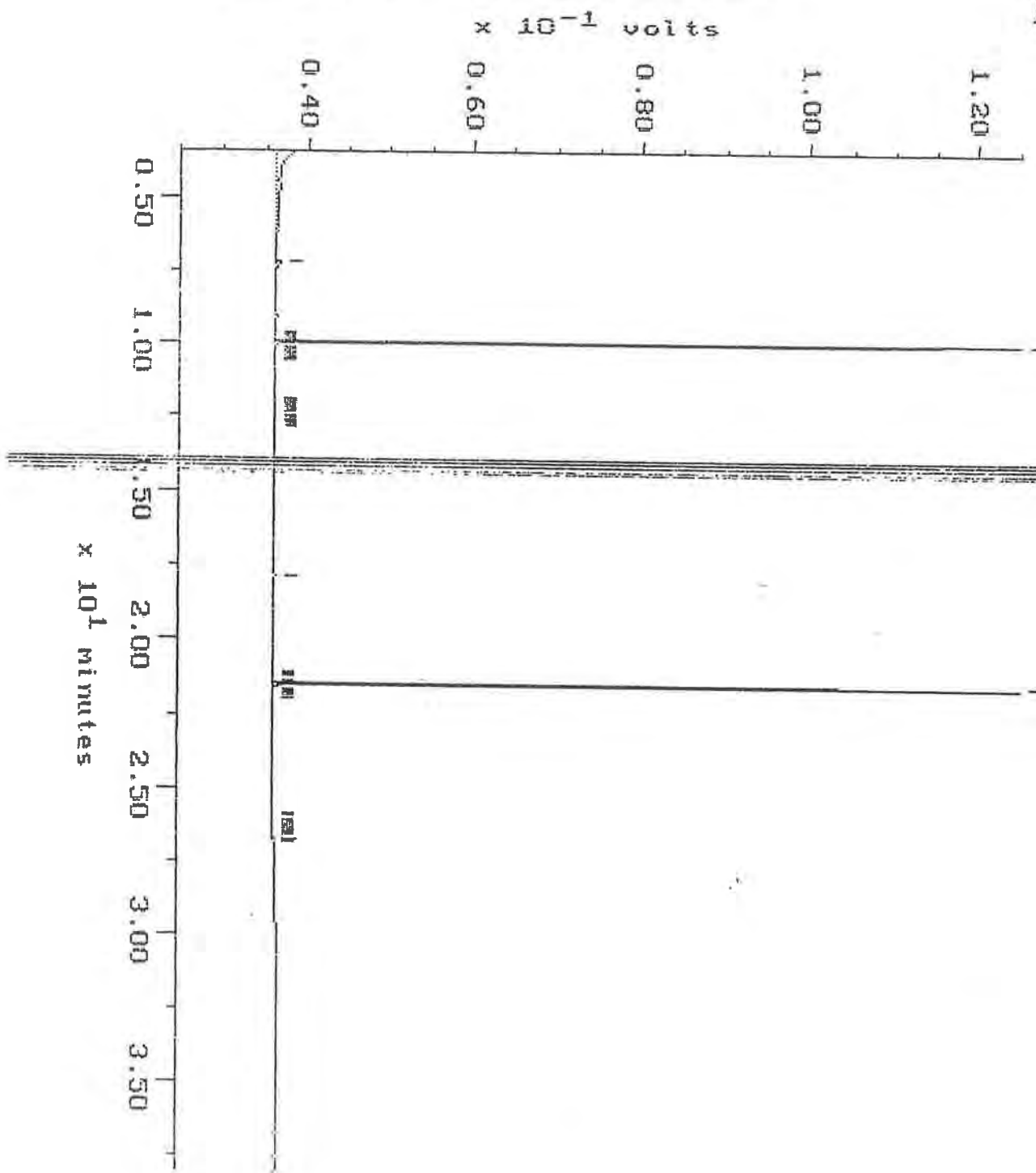
Filename: 1102SD02
Operator: ATI



Sample: 50010-10 Channel: CLARENCE
Acquired: 16-DEC-92 20:58 Method: H:\BRO2\MAXDATA\SERGE-C\FUEL1215
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 12155005
Operator: ATI

Blank



Sample: D-530
Acquired: 15 DEC-92 8:24
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

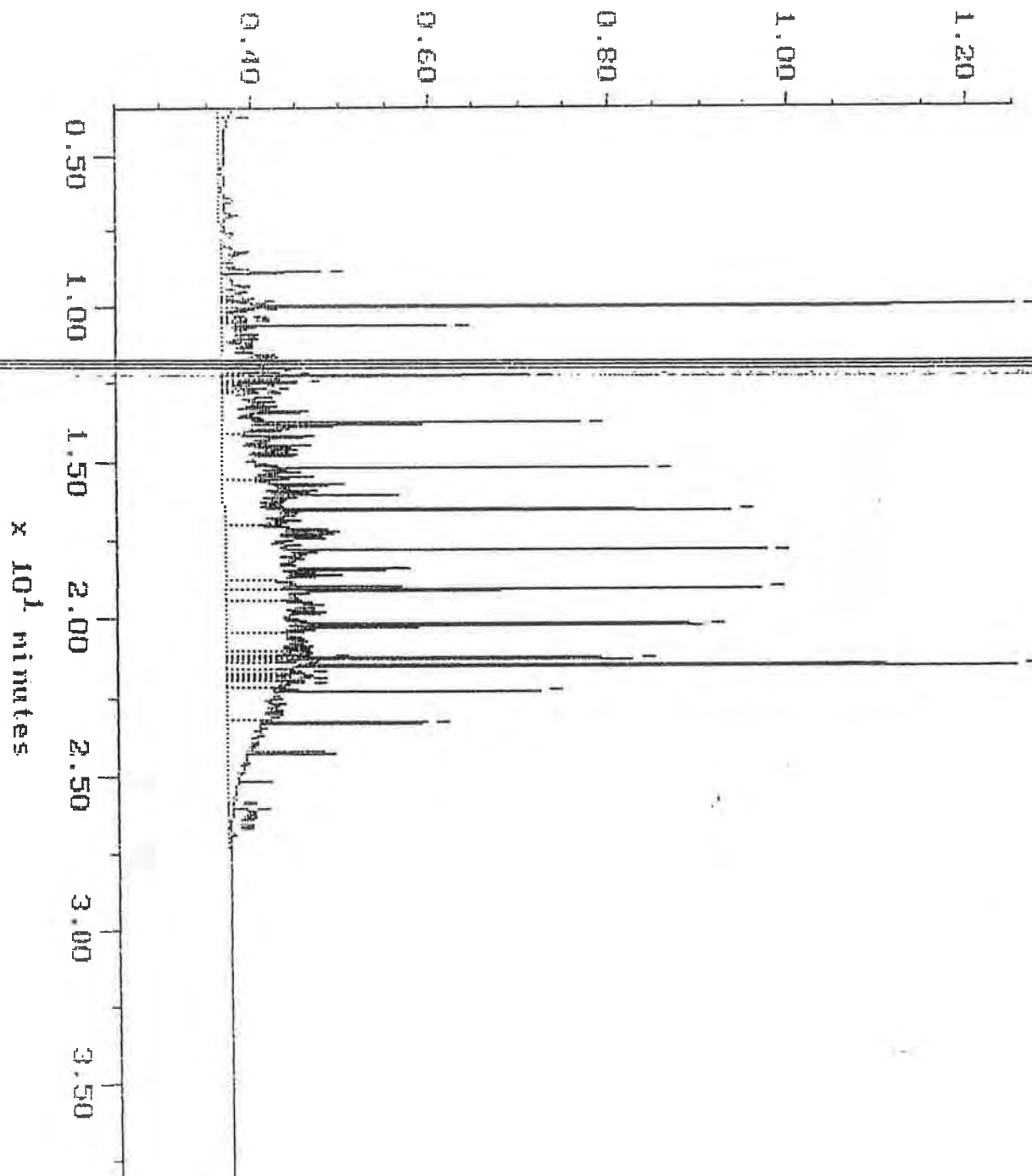
Channel: CLARENCE

Method: H:\BRO2\MAXDATA\SERGE-CAFUEL1215

Filename: 1215SC01
Operator: ATI

Continuing Calibration

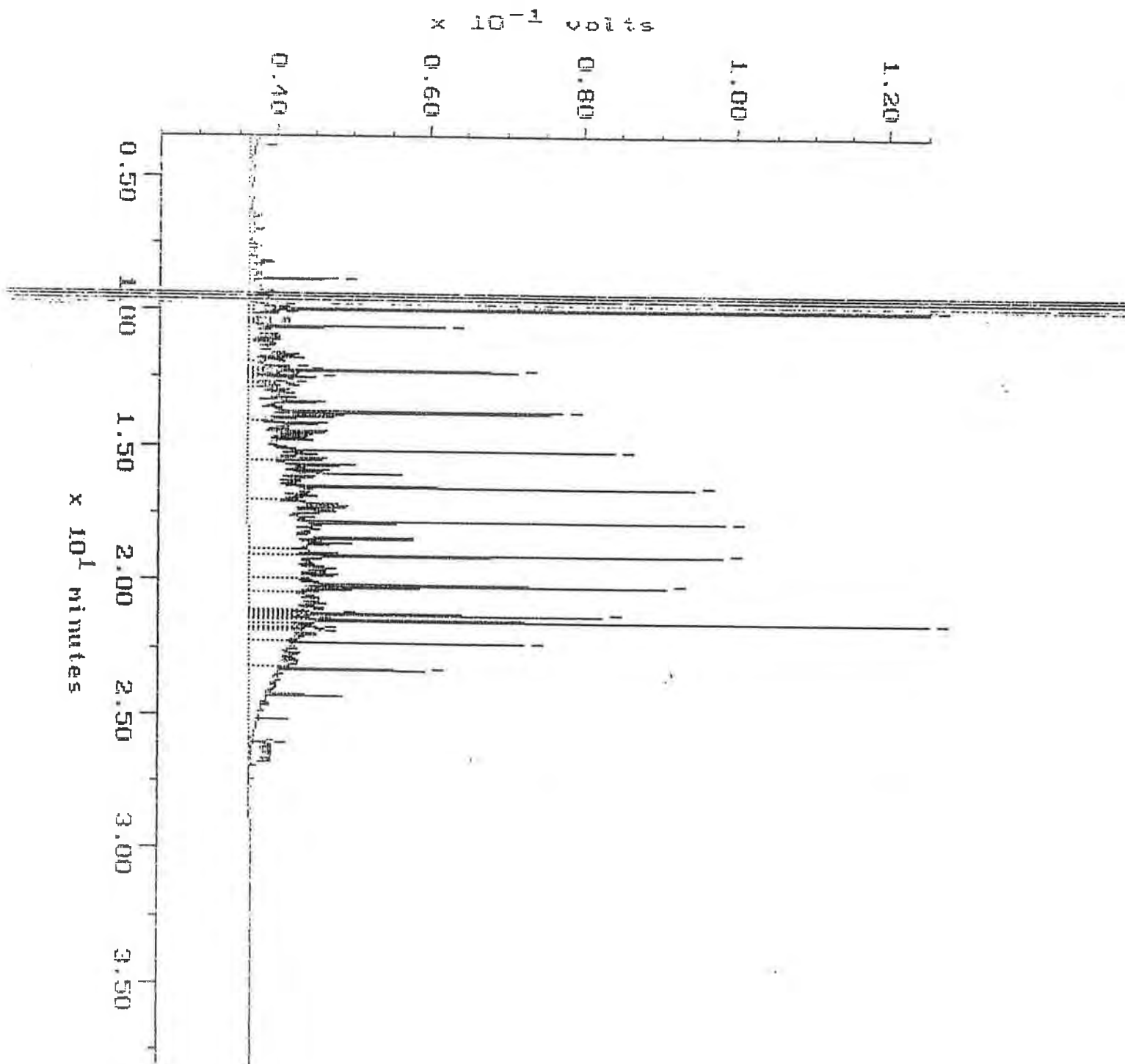
$\times 10^{-1}$ volts



Continuing Calibration

Sample: D 500 Channel: CLARENCE
Acquired: 17-DEC-92 8:42 Method: H:\BRO2\MAXDATA\SERGE-C\FUEL1215
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 1215SC50
Operator: ATI

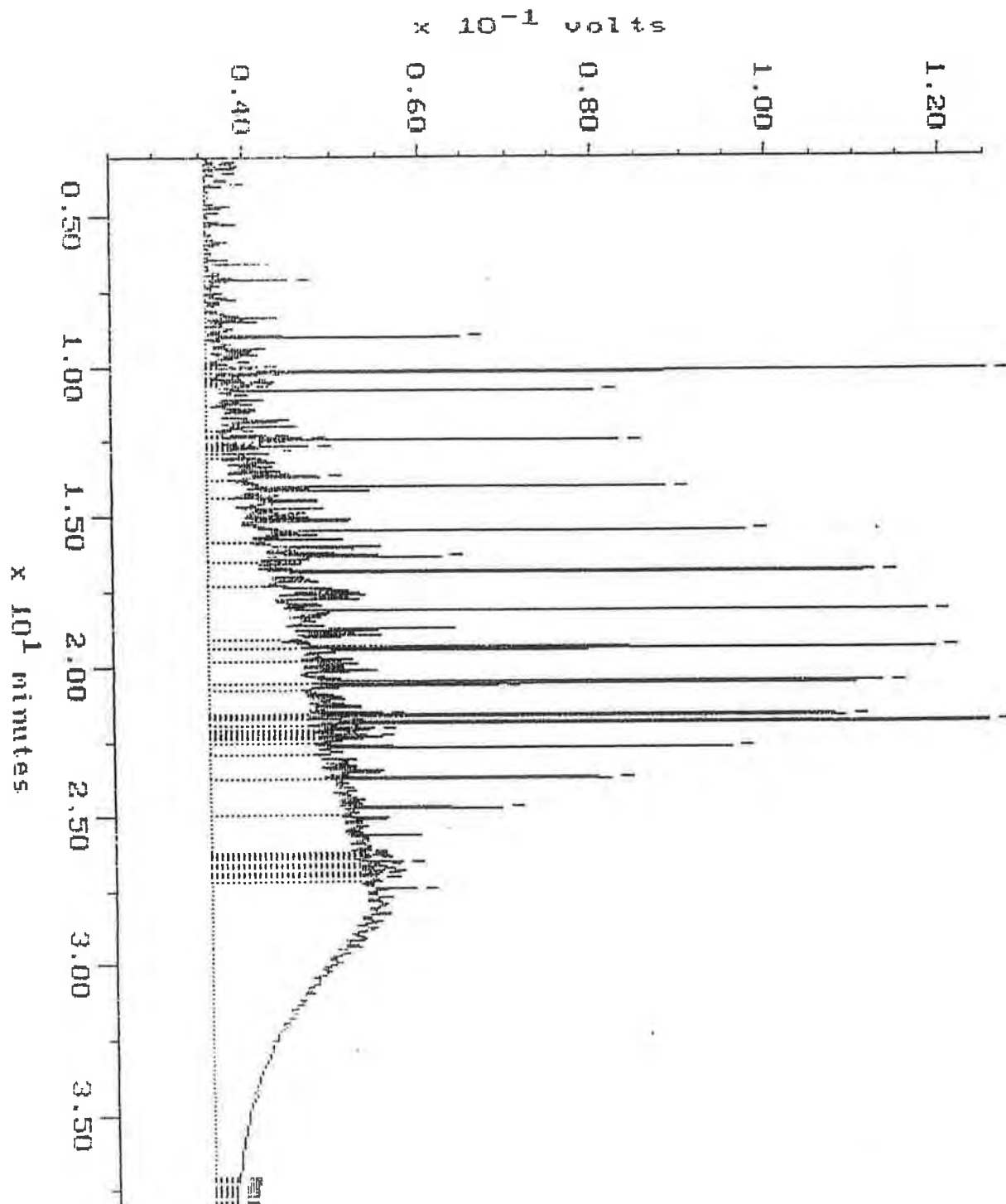


Continuing Calibration

Sample: DM530
Acquired: 17-DEC-92 14:37
Inj Vol: 1.00

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1217

Filename: 1217SD02
Operator: ATI

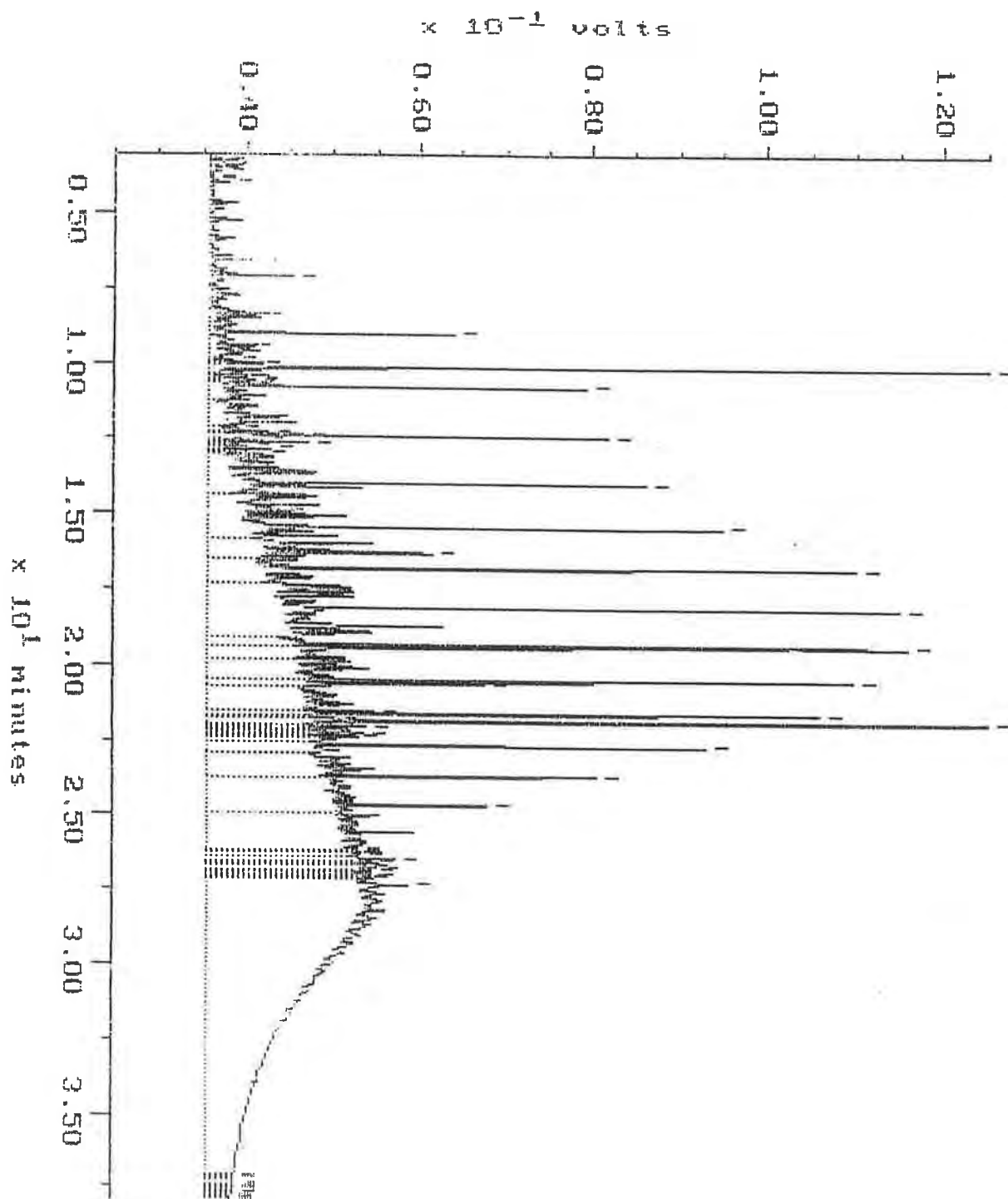


Continuing Calibration

Sample: CM 523
Acquired: 18-DEC-92 1:13
Inj Vol: 1.00

Channel: DEMITRI
Method: H:\8802\MAXDATA\GERGE-DNFUEL1217

Filename: 1217SD14
Operator: ATI





Analytical Technologies, Inc.

560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206)228-8335

PROJECT MANAGER: Don Hansen
COMPANY: Seattle Seahawks
ADDRESS: 5110 154th Ave NE
Redmond, WA 98073
PHONE: 206-600-1000 SAMPLED BY: Lisa Bona
SAMPLE DISPOSAL INSTRUCTIONS
☒ ATI Disposal @ \$5.00 each ☐ Return

Chain of Custody

LABORATORY NUMBER: 9213

DATE 12/15/12 PAGE 1 OF 1

ANALYSIS REQUEST					SAMPLE RECEIPT																										
SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8010 Halogenated Volatiles	8020 Aromatic Volatiles	8020 BETX ONLY	8240 GCMS Volatiles	8270 GCMS BNA	8310 HPLC PNA	8080 Pesticides & PCB's	8080 PCB's ONLY	8140 Phosphate Pesticides	8150 Herbicides	WDOE PAHHH (WAC 173)	418.1 (TPH) WA DOE	413.2 Grease & Oil	8015 (Modified)	TOX 9020	% Moisture	EP TOX Metals (8) EP EXT	Priority Pollutant Metals (15)	8080 Pesticide (4)	8240 ZH-EXT	8270	8150 Herbicides (2)	Metals (8)	WTPH-1 (ext. metals)	NUMBER OF CONTAINERS		
1145-100	12/15/12	1515	Water	1	X			X	X			X				X							X							4	
1145-101	12/15/12	1515	Water	2					X			X				X							X								4
1145-102	12/15/12	1515	Water	3				X	X			X				X							X								4
1145-103	12/15/12	1515	Water	4				X	X			X				X							X								4
1145-104	12/15/12	1515	Water	5																											4
1145-105	12/15/12	1515	Water	6																											4
1145-106	12/15/12	1515	Water	7																											4
1145-107	12/15/12	1515	Water	8																											4
1145-108	12/15/12	1515	Water	9																											4
1145-109	12/15/12	1515	Water	10																											4
1145-110	12/15/12	1515	Water	11																											4
1145-111	12/15/12	1515	Water	12																											4
1145-112	12/15/12	1515	Water	13																											4
1145-113	12/15/12	1515	Water	14																											4
1145-114	12/15/12	1515	Water	15																											4
1145-115	12/15/12	1515	Water	16																											4
1145-116	12/15/12	1515	Water	17																											4
1145-117	12/15/12	1515	Water	18																											4
1145-118	12/15/12	1515	Water	19																											4
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1145-160	12/15/12	1515	Water	61																											4
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1145-162	12/15/12	1515	Water	63																											4
1145-163	12/15/12	1515	Water	64																											4
1145-164	12/15/12	1515	Water	65																											4
1145-165	12/15/12	1515	Water	66																											4
1145-166	12/15/1																														



Analytical**Technologies**, Inc.

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John H. Taylor, Jr., Laboratory Manager
Frederick W. Grothkopp, Technical Director

ATI I.D. # 9212-180

January 14, 1993

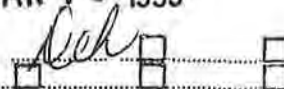
GeoEngineers

GeoEngineers, Inc.
8410 154th Ave. N.E.
Redmond, WA 98052

JAN 15 1993

Routing

File



Attention : Don Hanson

Project Number : 1957-009-R04

Project Name : Time Oil Jackpot

On December 30, 1992, Analytical Technologies, Inc., received one 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 quality control data are enclosed.


Mary C. Silva
Senior Project Manager

MCS/hal/dmc



Analytical Technologies, Inc.

ATI I.D. # 9212-180

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9212-180-1	HW-14	12/29/92	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 the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ATI I.D. # 9212-180

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-G	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
MOISTURE	GRAVIMETRIC	CLP SOW ILM01.0	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

ATI I.D. # 9212-180

VOLATILE ORGANIC ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : METHOD BLANK
SAMPLE MATRIX : SOIL
EPA METHOD : 8020 (BETX)
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED : 01/07/93
DATE ANALYZED : 01/08/93
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUND	RESULT
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

SURROGATE PERCENT RECOVERY	LIMITS
BROMOFLUOROBENZENE	97 52 - 116

ATI I.D. # 9212-180-1

VOLATILE ORGANIC ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/29/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/30/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 01/07/93
CLIENT I.D.	: HW-14	DATE ANALYZED	: 01/08/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: 8020 (BETX)	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND	RESULT
BENZENE	<0.027
ETHYLBENZENE	0.18
TOLUENE	<0.027
TOTAL XYLENES	1.3

SURROGATE PERCENT RECOVERY	LIMITS
BROMOFLUOROBENZENE	154 F 52 - 116

F = Out of limits due to matrix interference.

ATI I.D. # 9212-180

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
EPA METHOD : 8020 (BETX)
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : 9301-014-2
DATE EXTRACTED : 01/07/93
DATE ANALYZED : 01/07/93
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	0.0294	1.00	0.864	83	0.847	82	2
TOLUENE	<0.025	1.00	1.10	110H	0.899	90	20
TOTAL XYLENES	<0.025	2.00	1.94	97	1.82	91	6

CONTROL LIMITS

	% REC.	RPD
BENZENE	35 - 113	20
TOLUENE	43 - 107	20
TOTAL XYLENES	46 - 114	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	77	81	52 - 116

H = Out of limits.

ATI I.D. # 9212-180

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: BLANK SPIKE
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 01/07/93
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 01/08/93
EPA METHOD	: 8020 (BETX)	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	<0.025	1.00	1.07	107	N/A	N/A	N/A
TOLUENE	<0.025	1.00	1.07	107	N/A	N/A	N/A
TOTAL XYLENES	<0.025	2.00	2.09	105	N/A	N/A	N/A

CONTROL LIMITS

	% REC.	RPD
BENZENE	63 - 115	20
TOLUENE	75 - 110	20
TOTAL XYLENES	79 - 109	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	93	N/A	52 - 116



ATI I.D. # 9212-180

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : METHOD BLANK
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-G
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED : 01/07/93
DATE ANALYZED : 01/08/93
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUNDRESULT

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<5
TOLUENE TO DODECANE
GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

TRIFLUOROTOLUENE

88

50 - 150

ATI I.D. # 9212-180-1

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/29/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/30/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 01/07/93
CLIENT I.D.	: HW-14	DATE ANALYZED	: 01/08/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-G	DILUTION FACTOR	: 20
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND-----
RESULT

FUEL HYDROCARBONS	1,300
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

TRIFLUOROTOLUENE	83	50 - 150
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ATI I.D. # 9212-180

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9301-014-2
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 01/07/93
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 01/07/93
METHOD	: WA DOE WTPH-G	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (GASOLINE)	<5	<5	NC	100	70.4	70	74.1	74	5
CONTROL LIMITS						% REC.			RPD
GASOLINE						50 - 112			20
SURROGATE RECOVERIES				SPIKE		DUP. SPIKE	LIMITS		
TRIFLUOROTOLUENE				55		61		50 - 150	

NC = Not Calculable.

ATI I.D. # 9212-180

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: BLANK SPIKE
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 01/07/93
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 01/08/93
METHOD	: WA DOE WTPH-G	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (GASOLINE)	<5	100	92.0	92	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
GASOLINE				80 - 119			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
TRIFLUOROTOLUENE		87		N/A		50 - 150	



ATI I.D. # 9212-180

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : N/A
PROJECT # : 1957-009-R04	DATE RECEIVED : N/A
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 12/31/92
CLIENT I.D. : METHOD BLANK	DATE ANALYZED : 01/04/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUND	RESULT
FUEL HYDROCARBONS	<10
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	78	50 - 150
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ATI I.D. # 9212-180-1

TOTAL PETROLEUM HYDROCARBON ANALYSIS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/29/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/30/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/31/92
CLIENT I.D.	: HW-14	DATE ANALYZED	: 01/04/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUND	RESULT
----------	--------

FUEL HYDROCARBONS	470
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL

FUEL HYDROCARBONS	1,400
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	84	50 - 150
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ATI I.D. # 9212-180

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
CONTINUING CALIBRATION STANDARDS SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: N/A
CLIENT I.D.	: 500 PPM CCV	DATE ANALYZED	: 01/04/93
SAMPLE MATRIX	: WATER	UNITS	: %
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUND	% DIFFERENCE
----------	--------------

FUEL HYDROCARBONS QUANTITATED USING DIESEL	5
--	---

FUEL HYDROCARBONS QUANTITATED USING MOTOR OIL	2
---	---



ATI I.D. # 9212-180

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9212-179-12
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 12/31/92
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 01/04/93
METHOD	: WA DOE WTPH-D	UNITS	: mg/Kg
SAMPLE MATRIX	: SOIL		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	122	145	17	200	411	145G	407	143G	1
	CONTROL LIMITS					% REC.			RPD
DIESEL						63 - 131			20
	SURROGATE RECOVERIES			SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL				85		84		50 - 150	

G = Out of limits due to high levels of target analytes in sample.

ATI I.D. # 9212-180

TOTAL PETROLEUM HYDROCARBON ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
METHOD : WA DOE WTPH-D
SAMPLE MATRIX : SOIL

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 12/31/92
DATE ANALYZED : 01/04/93
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
PETROLEUM HYDROCARBONS (DIESEL)	<10	200	173	87	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		77		N/A		50 - 150	



ATI I.D. # 9212-180

GENERAL CHEMISTRY ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

PARAMETER	DATE ANALYZED
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MOISTURE	12/30/92
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ATI I.D. # 9212-180

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
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9212-180-1	HW-14	6.4
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ATI I.D. # 9212-180

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATACLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9212-180-1	6.4	6.5	2	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

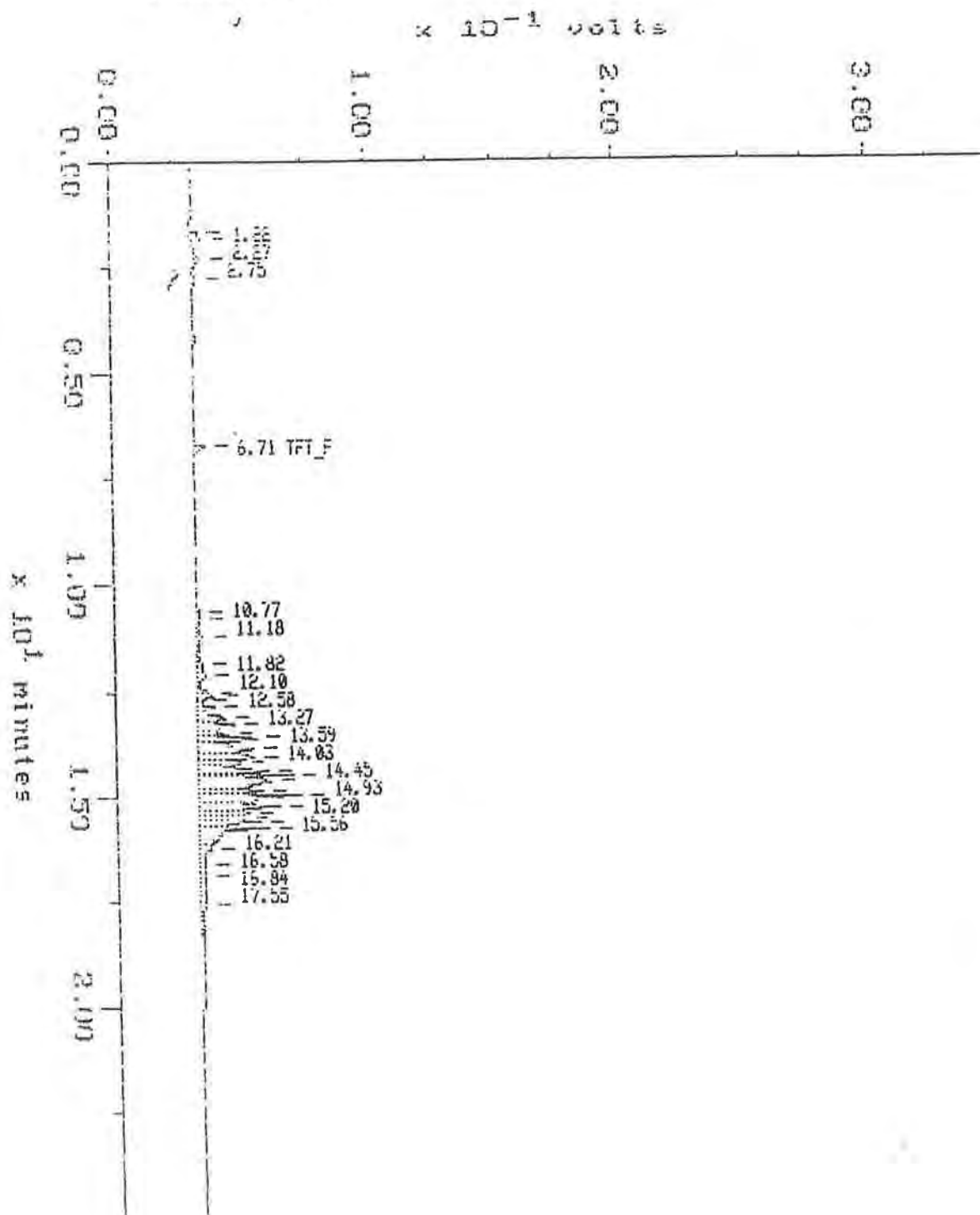
$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

WA DOE WTPH-G

Sample: 9212-180-1 511
 Acquired: 25-JAN-95 15:25
 Dilution: 1 : 20.000

Channel: SERUM-110
 Method: n:VENDOR:MAXDATA\JEK\JEK\1010690JR

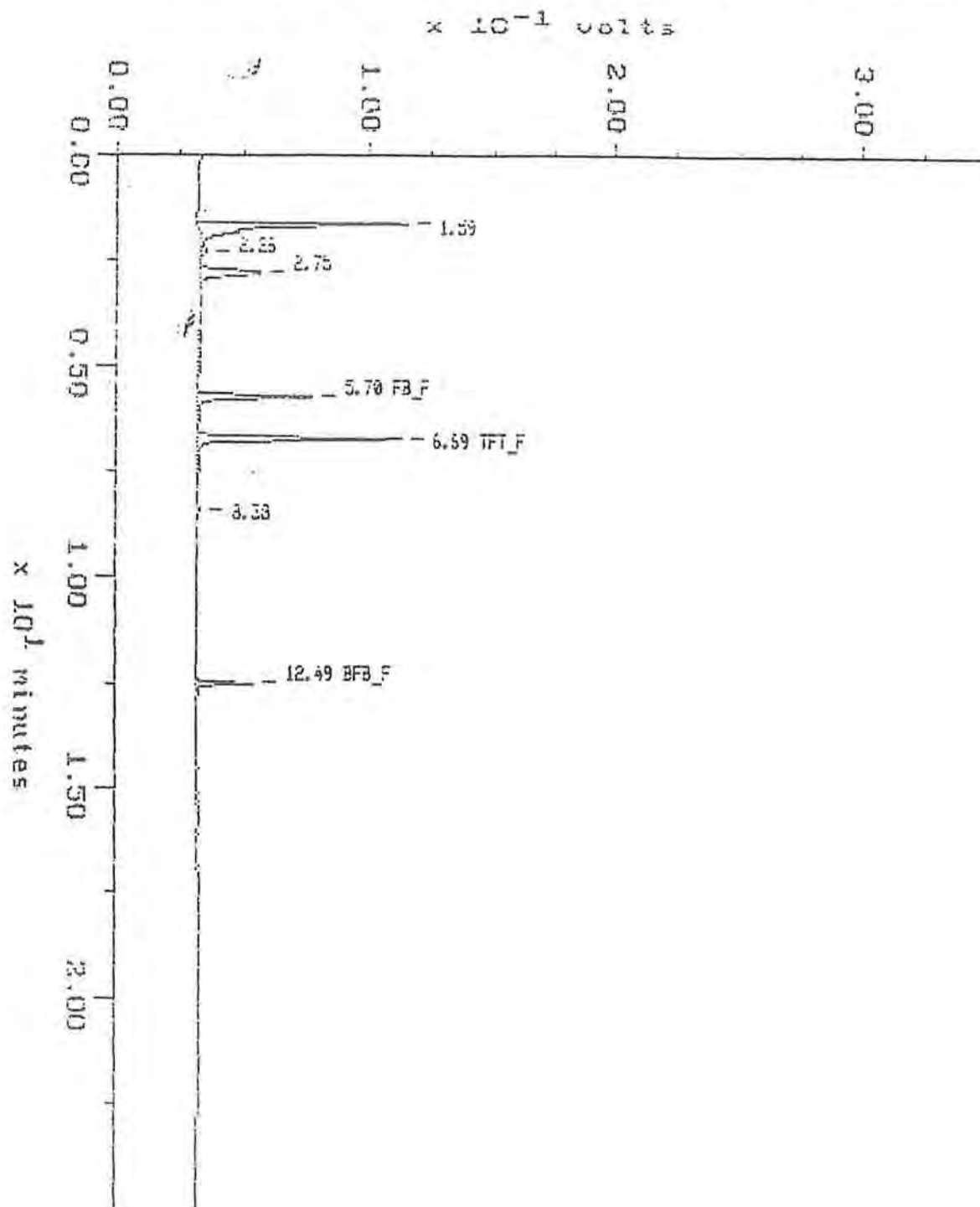
Filename: 0108JN12
 Operator:



Sample: SIB 1-7
Acquired: 08-JUN-93 8:33

Channel: JEROME-FID
Method: H:\6802\MAXDATA\JEROME\010693JR

Blank
Filename: 010693JR
Operator:

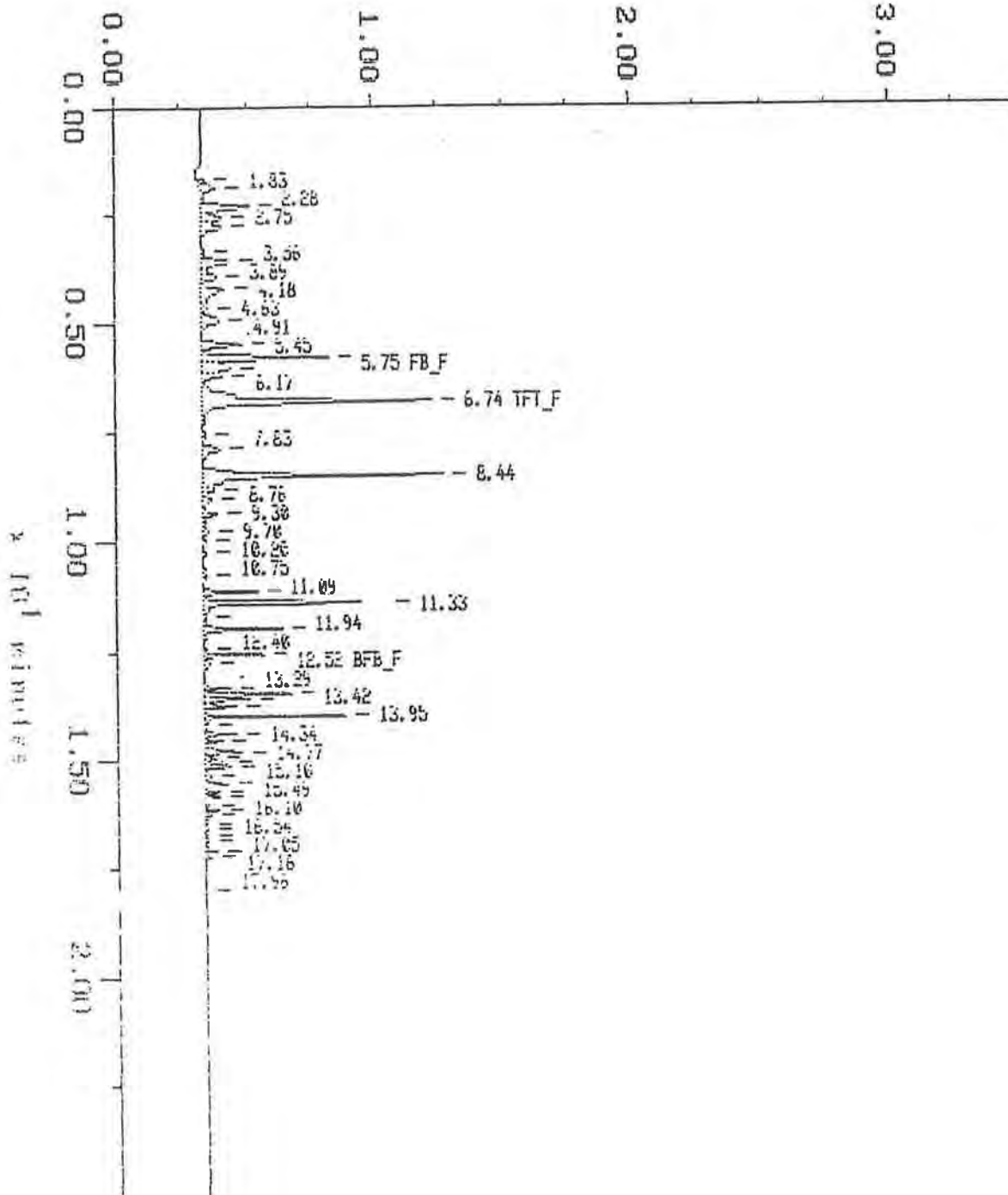


Sample: STD-C 6
Acquired: 07-JAN-93 7:17

Channel: JEROME-F10
Method: H:\BRU2\MAXDATA\JEROME\010793JR

Filename: 0107JR03
Operator:

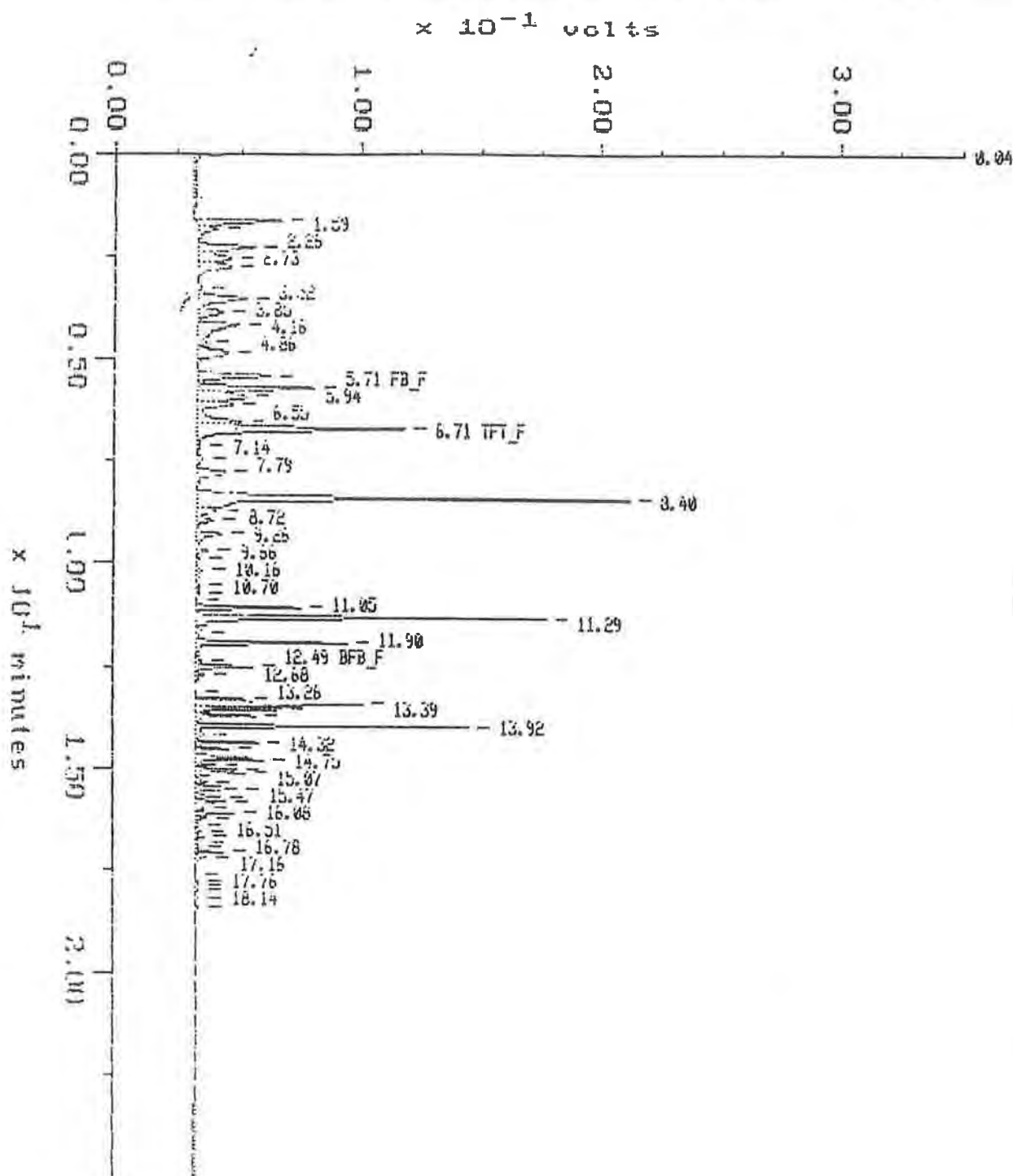
$\times 10^{-1}$ volts

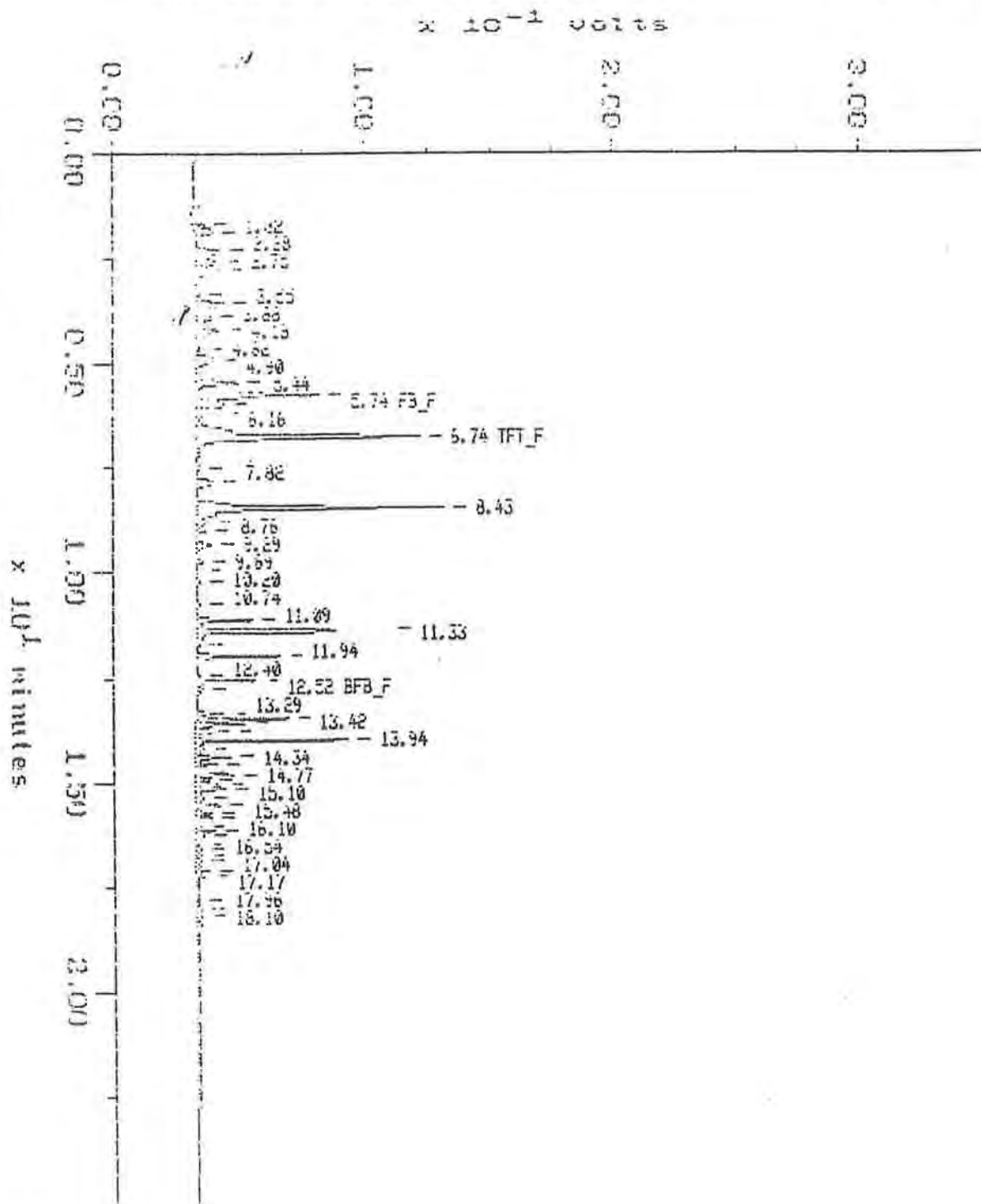


Sample: CC 2 PPM
Acquired: 06-JAN-93 1:57

Channel: JEROME-FID
Method: H:\BRU2\MAXDATA\JEROME\010793JR

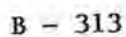
Filename: 0107JR91
Operator:



Sample: STD-C G
Acquired: 06-JAN-93 6:02Channel: JEROME-10
Method: H:\GROUPE\DATA\JEROME\0106930RFilename: 0106Jm01
Operator:

Filename: 01085K50

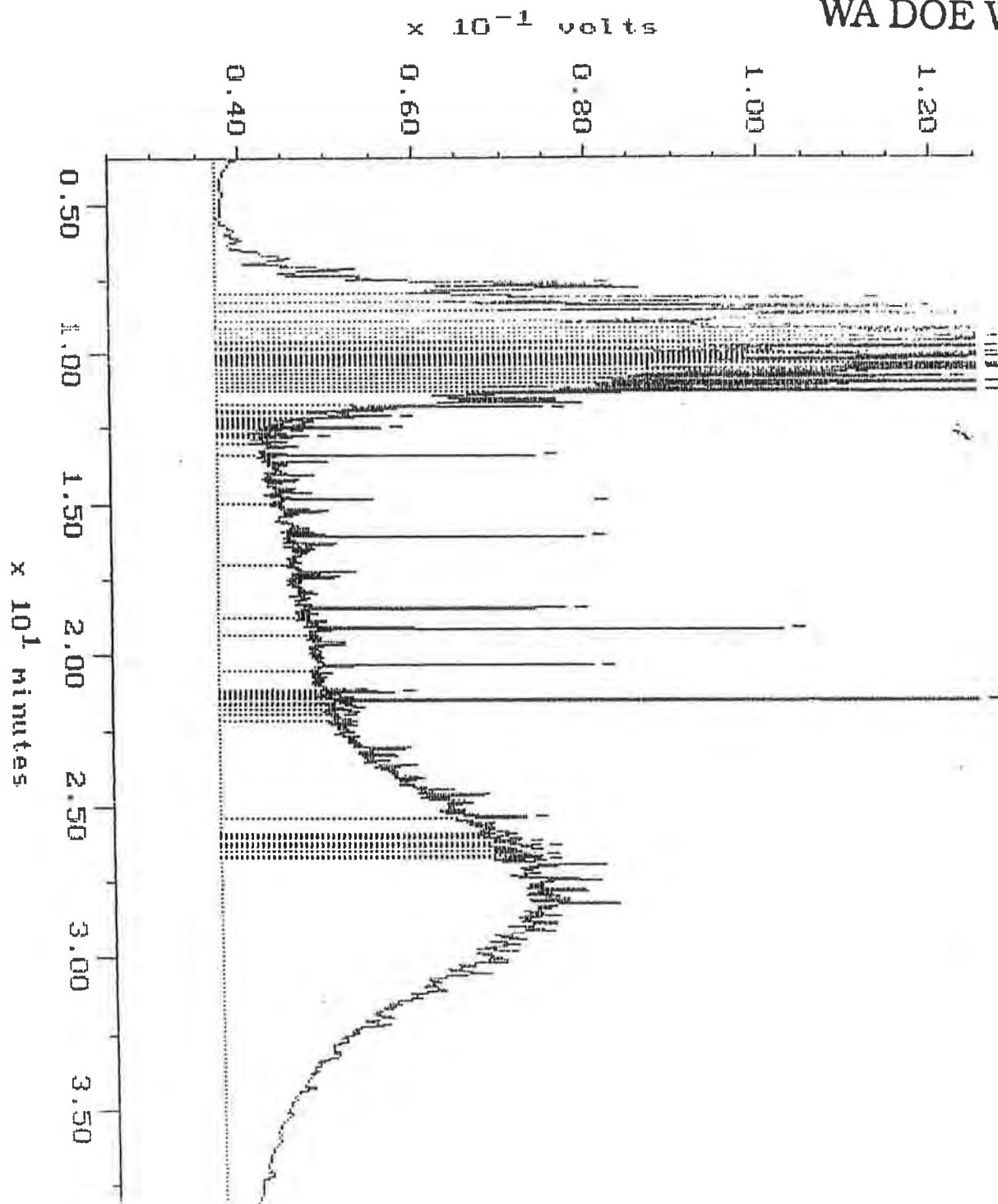
Operator:



Sample: 9212-180-1 Channel: CLARENCE
Acquired: 04-JAN-93 23:42 Method: H:\BRO2\MAXDATA\SERGE-C\FUEL0104
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 0104SC16
Operator: ATI

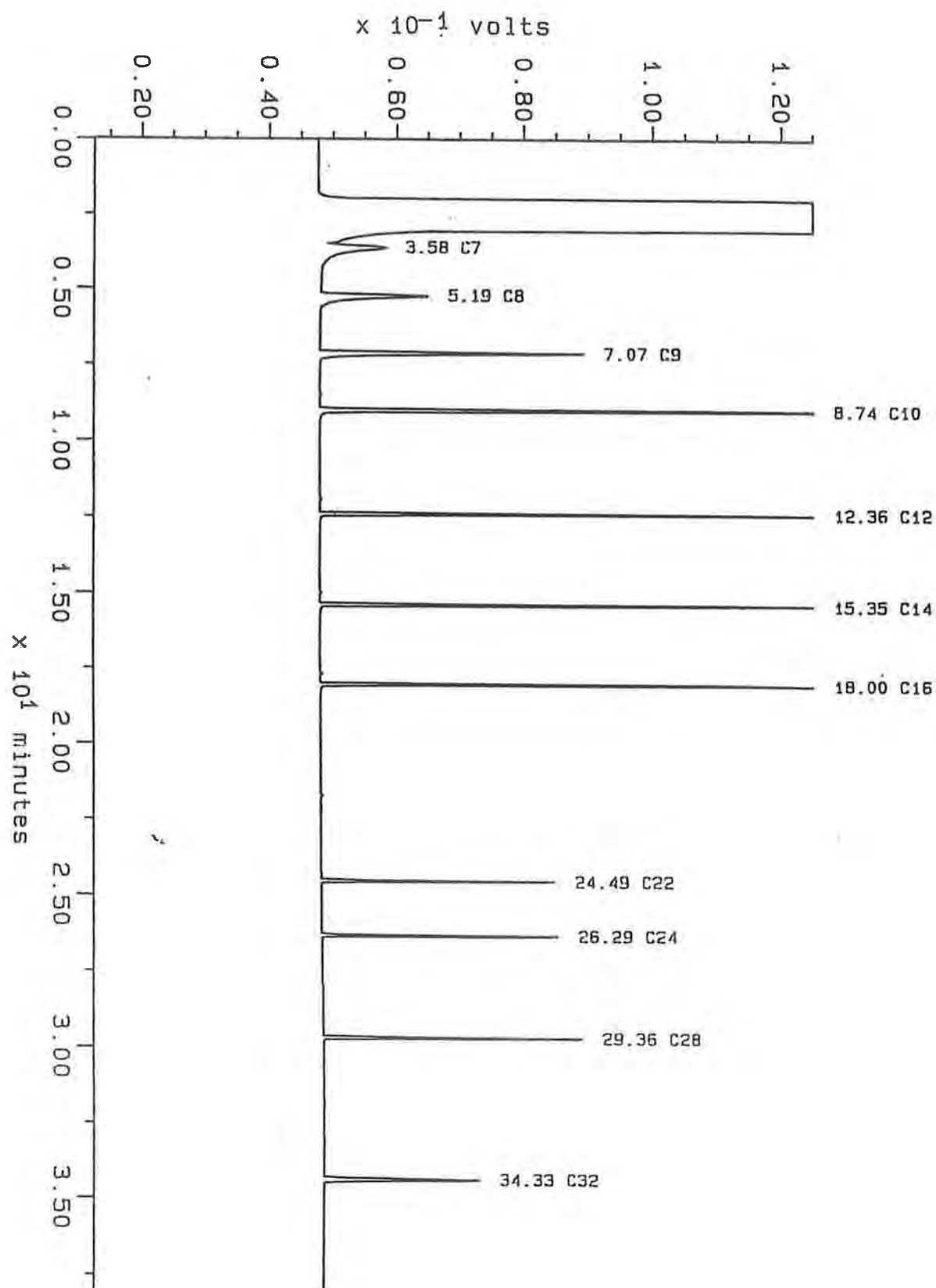
WA DOE WTPH-D



Sample: ALKANF
Acquired: CLOCK NOT SET
Inj Vol: 1.00

Channel: CLARENCE
Method: H: \BR02\MAXDATA\SEHGE-C\FUEL1008

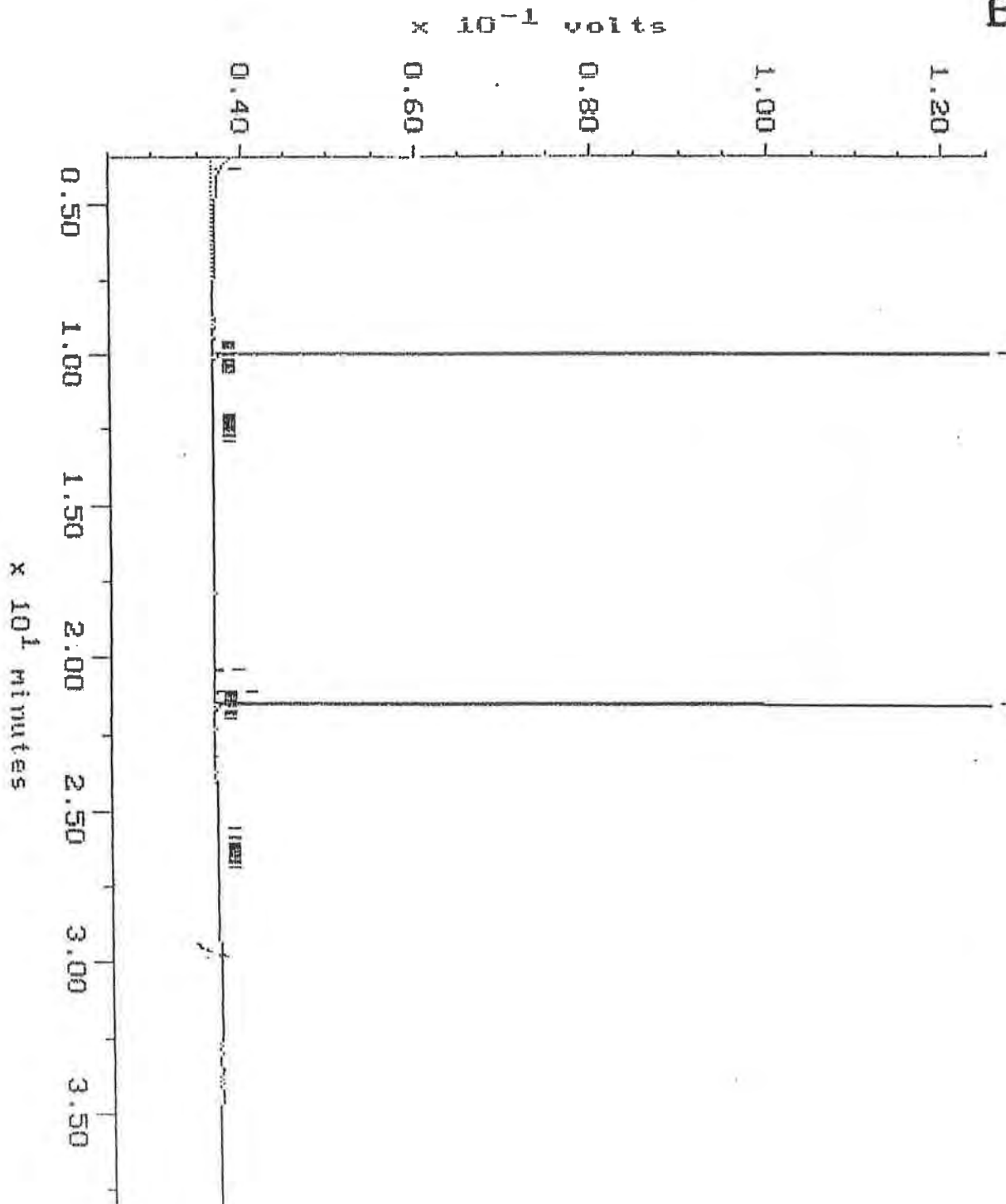
Filename: 1008SC40
Operator: ATI



Sample: SRB12-31 Channel: CLARENCE
Acquired: 04-JAN-93 14:20 Method: H:\BRO2\MAXDATA\SERGE-C\FUEL0104
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 0104SC04
Operator: ATI

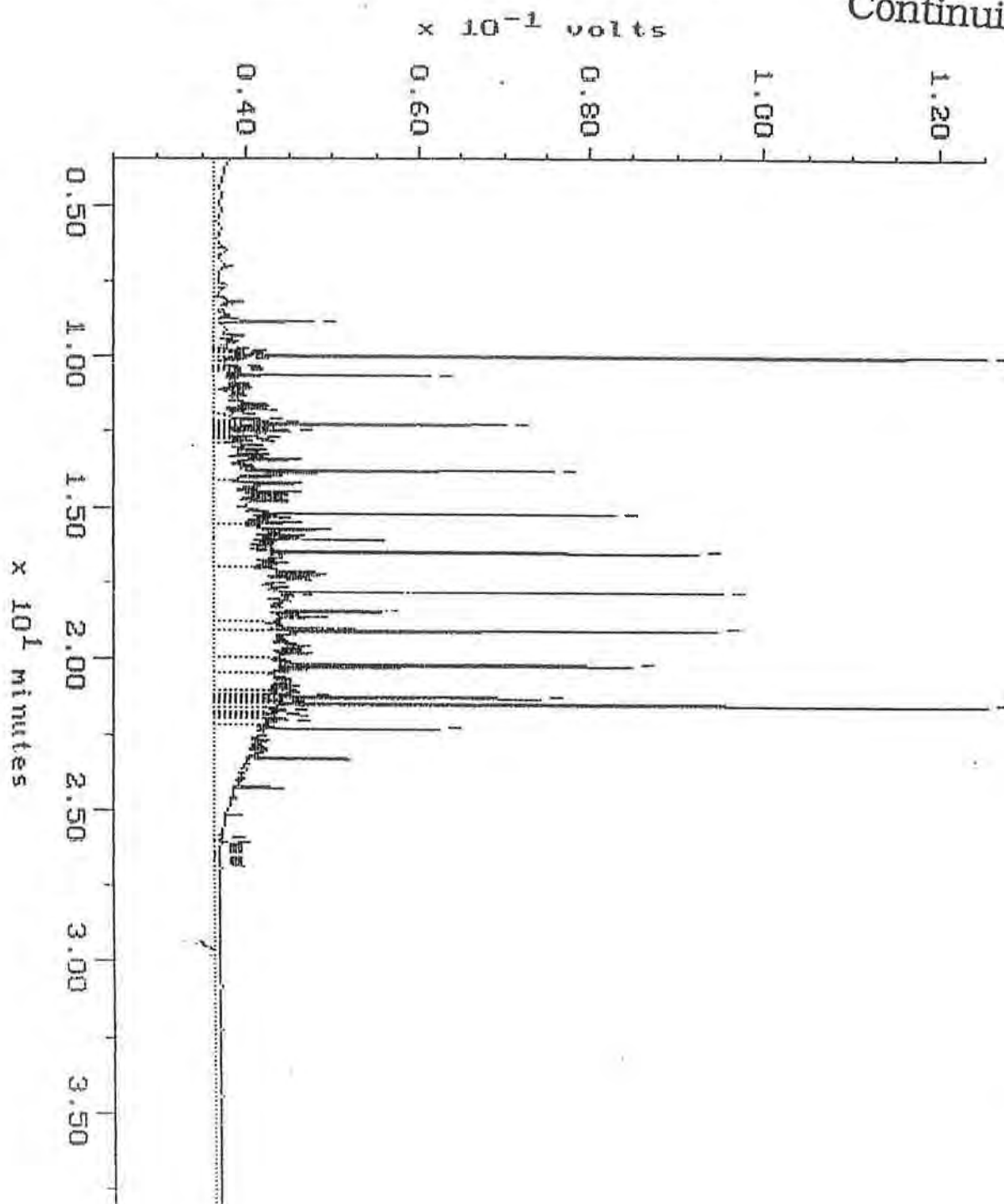
Blank



Sample: D 500 Channel: CLARENCE
Acquired: 04-JAN-93 11:00 Method: H:\BRO2\MAXDATA\SERGE-C\FUEL0104
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 0104SC02
Operator: ATI

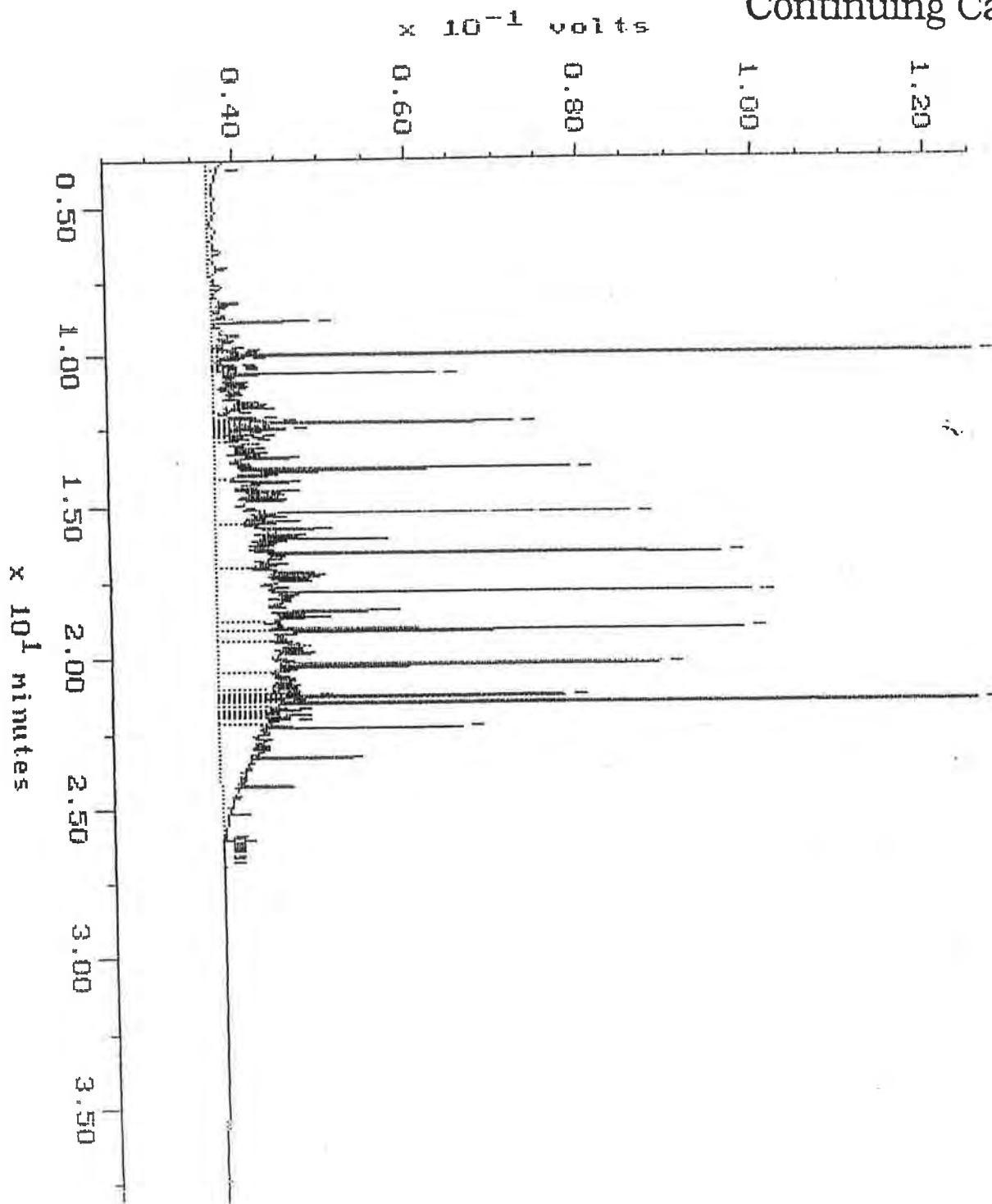
Continuing Calibration



Sample: D 530 Channel: CLARENCE
Acquired: 95-JAN-93 1:15 Method: H:\BRO2\MAXDATA\SERGE-C\FUEL0134
Inj Vol: 1.00
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

Filename: 0134SC18
Operator: ATI

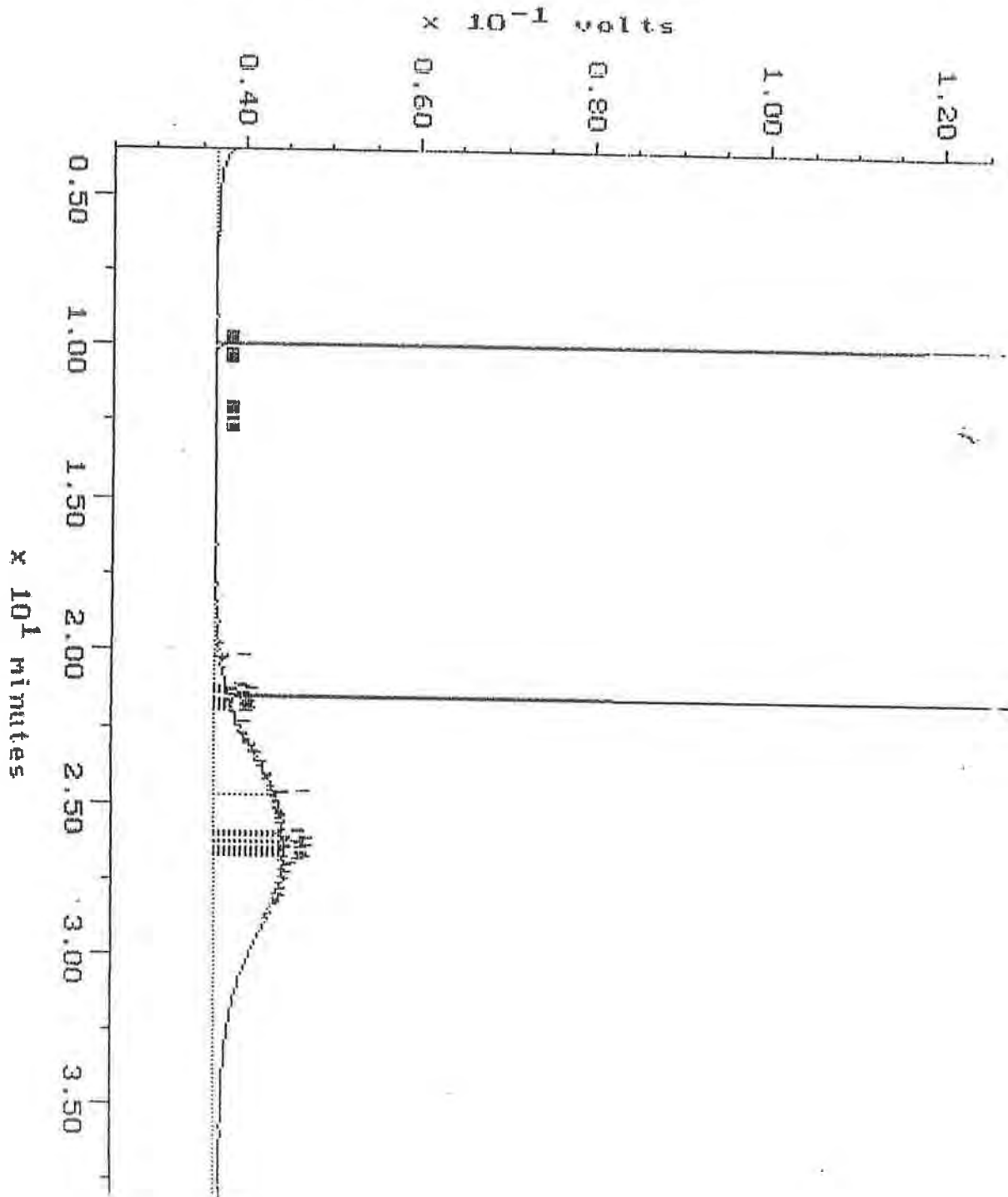
Continuing Calibration



Continuing Calibration

Sample: MD 500
Acquired: 04-JAN-93 13:35
Inj Vol: 1.00
Channel: CLARENCE
Method: H:\BRO2\MAXDATA\SERGE-C\FUEL0104
Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

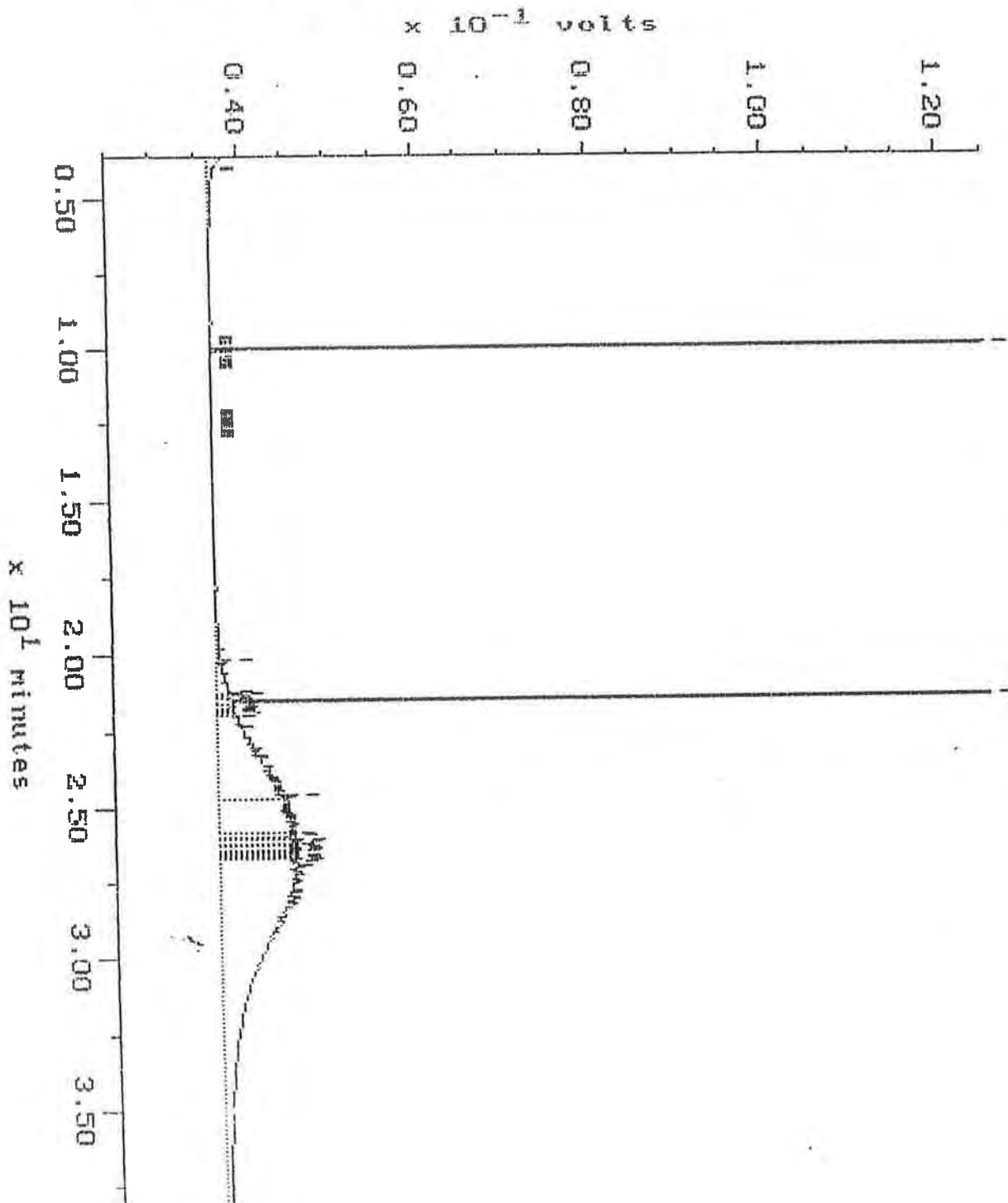
Filename: 01045003
Operator: ATI



Continuing Calibration

Sample: MD 502
 Acquired: 03-JAN-93 7:54 Method: AT-1802 MAXDATA=SERGE-C\FUEL0104
 Inj Vol: 1.00
 Comments: ATI RUSH FUELS: DEDICATED TO QUALITY CLIENT SERVICE

File # 0104SC23
 Operator: ATI





Analytical**Technologies, Inc.**

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John H. Taylor, Jr., Laboratory Manager
Frederick W. Grothkopp, Technical Director

ATI I.D. # 9302-008

February 17, 1993

GeoEngineers

GeoEngineers, Inc.
8410 154th Ave. N.E.
Redmond WA 98052

FEB 17 1993
Routing *DEH* ☒ ☐ ☐
File ☐ ☐ ☐ ☐ ☐

Attention : Don Hanson

Project Number : 1957-009-R04

Project Name : Time Oil Jackpot

Dear Mr. Hanson:

On February 2, 1993, Analytical Technologies, Inc. (ATI), received three 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.

Sincerely,

Mary C. Silva
Mary C. Silva
Senior Project Manager

MCS/hal/elf

Enclosure



ATI I.D. # 9302-008

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9302-008-1	B-1-12, 31'	02/01/93	SOIL
9302-008-2	B-1-18, 46'	02/01/93	SOIL
9302-008-3	B-1-21, 53'	02/01/93	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	3

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the 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 # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-G	R
HYDROCARBON IDENTIFICATION	GC/FID	WA DOE WTPH-HCID	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
MOISTURE	GRAVIMETRIC	CLP SOW ILM01.0	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

ATI I.D. # 9302-008

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : N/A
PROJECT # : 1957-009-R04	DATE RECEIVED : N/A
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 02/04/93
CLIENT I.D. : METHOD BLANK	DATE ANALYZED : 02/04/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-G - 8020 (BETX)	DILUTION FACTOR : 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	RESULTS
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
BROMOFLUOROBENZENE	92	52 - 116
TRIFLUOROTOLUENE	90	50 - 150



ATI I.D. # 9302-008-1

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : B-1-12, 31'
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-G - 8020 (BETX)
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/01/93
 DATE RECEIVED : 02/02/93
 DATE EXTRACTED : 02/04/93
 DATE ANALYZED : 02/05/93
 UNITS : mg/Kg
 DILUTION FACTOR : 50

COMPOUNDS

RESULTS

BENZENE	<1.4
ETHYLBENZENE	3.5
TOLUENE	2.1
TOTAL XYLENES	30
FUEL HYDROCARBONS	13,000
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	F	52 - 116
TRIFLUOROTOLUENE	98	50 - 150

F = Out of limits due to matrix interference.



ATI I.D. # 9302-008-2

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 02/01/93
PROJECT # : 1957-009-R04	DATE RECEIVED : 02/02/93
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 02/04/93
CLIENT I.D. : B-1-18, 46'	DATE ANALYZED : 02/05/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-G - 8020 (BETX)	DILUTION FACTOR : 50
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUNDS	RESULTS
BENZENE	<1.3
ETHYLBENZENE	1.5
TOLUENE	<1.3
TOTAL XYLENES	23
FUEL HYDROCARBONS	7,700
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
BROMOFLUOROBENZENE	F	52 - 116
TRIFLUOROTOLUENE	101	50 - 150

F = Out of limits due to matrix interference.

ATI I.D. # 9302-008-3

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : B-1-21, 53'
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-G - 8020 (BETX)
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/01/93
 DATE RECEIVED : 02/02/93
 DATE EXTRACTED : 02/04/93
 DATE ANALYZED : 02/05/93
 UNITS : mg/Kg
 DILUTION FACTOR : 1

COMPOUNDS

RESULTS

BENZENE	<0.026
ETHYLBENZENE	<0.026
TOLUENE	<0.026
TOTAL XYLENES	<0.026
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	92	52 - 116
TRIFLUOROTOLUENE	79	50 - 150

ATI I.D. # 9302-008

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9302-026-3
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 02/04/93
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 02/04/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-G - 8020 (BETX)		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	0.0595	N/A	N/A	1.00	0.935	88	0.928	87	1
TOLUENE	<0.0250	N/A	N/A	1.00	0.911	91	0.920	92	1
TOTAL XYLENES	<0.0250	N/A	N/A	2.00	1.87	94	1.91	96	2
GASOLINE	<5.00	<5.00	NC	50.0	46.5	93	42.8	86	8

CONTROL LIMITS	% REC.	RPD
BENZENE	35 - 113	20
TOLUENE	43 - 107	20
TOTAL XYLENES	46 - 114	20
GASOLINE	50 - 112	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	87	87	52 - 116
TRIFLUOROTOLUENE	76	76	50 - 150

NC = Not Calculable.

ATI I.D. # 9302-008

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-G - 8020 (BETX)

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.0250	1.00	1.00	100	N/A	N/A	N/A
TOLUENE	<0.0250	1.00	1.03	103	N/A	N/A	N/A
TOTAL XYLENES	<0.0250	2.00	2.04	102	N/A	N/A	N/A
GASOLINE	<5.00	50.0	49.4	99	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
BENZENE	63 - 115	20
TOLUENE	75 - 110	20
TOTAL XYLENES	79 - 109	20
GASOLINE	80 - 119	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	94	N/A	52 - 116
TRIFLUOROTOLUENE	94	N/A	50 - 150

ATI I.D. # 9302-008

HYDROCARBON IDENTIFICATION
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/02/93
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 02/02/93
SAMPLE MATRIX	: SOIL	DILUTION FACTOR	: 1
METHOD	: WA DOE WTPH-HCID		
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

RESULT

GASOLINE CONCENTRATION LESS THAN 20 mg/Kg WA DOE WTPH-HCID.

DIESEL CONCENTRATION LESS THAN 50 mg/Kg BY WA DOE WTPH-HCID.

PETROLEUM HYDROCARBONS >C24 CONCENTRATION LESS THAN 100 mg/Kg BY WA DOE WTPH-HCID.

SURROGATE PERCENT RECOVERY		LIMITS
O-TERPHENYL	124	50 - 150



ATI I.D. # 9302-008-1

HYDROCARBON IDENTIFICATION
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 02/01/93
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 02/02/93
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/02/93
CLIENT I.D.	: B-1-12, 31'	DATE ANALYZED	: 02/02/93
SAMPLE MATRIX	: SOIL	DILUTION FACTOR	: 1
METHOD	: WA DOE WTPH-HCID		
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

RESULT

GASOLINE QUALITATIVELY IDENTIFIED BY WA DOE WTPH-HCID.

DIESEL QUALITATIVELY IDENTIFIED BY WA DOE WTPH-HCID.

PETROLEUM HYDROCARBONS >C24 QUALITATIVELY IDENTIFIED BY WA DOE WTPH-HCID.

SURROGATE PERCENT RECOVERY		LIMITS
O-TERPHENYL	98	50 - 150

ATI I.D. # 9302-008-2

HYDROCARBON IDENTIFICATION
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 02/01/93
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 02/02/93
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/02/93
CLIENT I.D.	: B-1-18, 46'	DATE ANALYZED	: 02/02/93
SAMPLE MATRIX	: SOIL	DILUTION FACTOR	: 1
METHOD	: WA DOE WTPH-HCID		
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

RESULT

GASOLINE QUALITATIVELY IDENTIFIED BY WA DOE WTPH-HCID.

DIESEL QUALITATIVELY IDENTIFIED BY WA DOE WTPH-HCID.

PETROLEUM HYDROCARBONS >C24 QUALITATIVELY IDENTIFIED BY WA DOE WTPH-HCID.

SURROGATE PERCENT RECOVERY		LIMITS
O-TERPHENYL	101	50 - 150



ATI I.D. # 9302-008

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : METHOD BLANK
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<10
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<40
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

88

50 - 150

ATI I.D. # 9302-008-1

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 02/01/93
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 02/02/93
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/04/93
CLIENT I.D.	: B-1-12, 31'	DATE ANALYZED	: 02/05/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 2

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

1,100
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

720
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

99

50 - 150



ATI I.D. # 9302-008-2

 TOTAL PETROLEUM HYDROCARBONS
 DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : B-1-18, 46'
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-D
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/01/93
 DATE RECEIVED : 02/02/93
 DATE EXTRACTED : 02/04/93
 DATE ANALYZED : 02/05/93
 UNITS : mg/Kg
 DILUTION FACTOR : 2

 COMPOUNDS

 RESULTS

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

1,100
 C12 - C24
 DIESEL

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

580
 C24 - C34
 MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

107

50 - 150

ATI I.D. # 9302-008-3

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 02/01/93
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 02/02/93
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/04/93
CLIENT I.D.	: B-1-21, 53'	DATE ANALYZED	: 02/05/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDSRESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<11
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<42
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

84

50 - 150

ATI I.D. # 9302-008

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D

SAMPLE I.D. # : 9302-030-9
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
MOTOR OIL	<40	<40	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
MOTOR OIL						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				92		94			50 - 150

NC = Not Calculable.



ATI I.D. # 9302-008

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D

SAMPLE I.D. # : 9302-030-12
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
DIESEL	<10	<10	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
DIESEL						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				84		84			50 - 150

NC = Not Calculable.

ATI I.D. # 9302-008

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D

SAMPLE I.D. # : 9302-030-12
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
MOTOR OIL	<40	<40	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
MOTOR OIL						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				84		84		50 - 150	

NC = Not Calculable.

ATI I.D. # 9302-008

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9302-030-9
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 02/04/93
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 02/04/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
DIESEL	<10	<10	NC	200	181	91	179	90	1
CONTROL LIMITS						% REC.			RPD
DIESEL						63 - 131			20
SURROGATE RECOVERIES				SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL				89		90		50 - 150	

NC = Not Calculable.



ATI I.D. # 9302-008

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
DIESEL	<10	200	178	89	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		94		N/A		50 - 150	



ATI I.D. # 9302-008

GENERAL CHEMISTRY ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

PARAMETER DATE ANALYZED

MOISTURE 02/02/93



ATI I.D. # 9302-008

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
------------	-------------	----------

9302-008-1	B-1-12, 31'	8.3
9302-008-2	B-1-18, 46'	7.4
9302-008-3	B-1-21, 53'	5.3

ATI I.D. # 9302-008

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9302-010-4	11	9.8	12	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

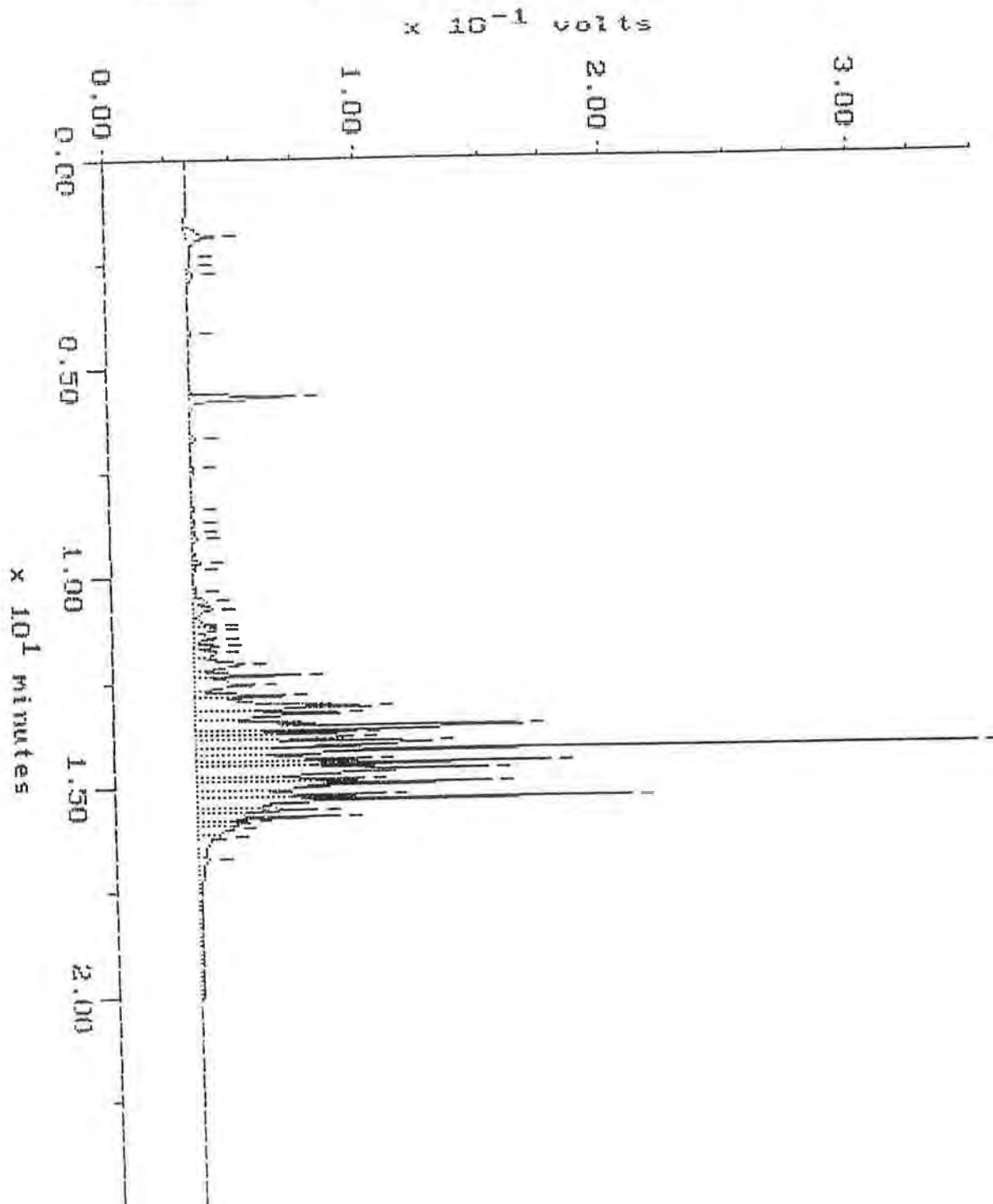
$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

WA DOE WTPH-G

Sample: 9302-006-1 DIL
Acquired: 03-FEB-93 5:44
Dilution: 1 : 50.000

Channel: JEROME-FID
Method: H:\BK02\MAXDATA\JEROME\020493JR

Filename: R2049J43
Operator:

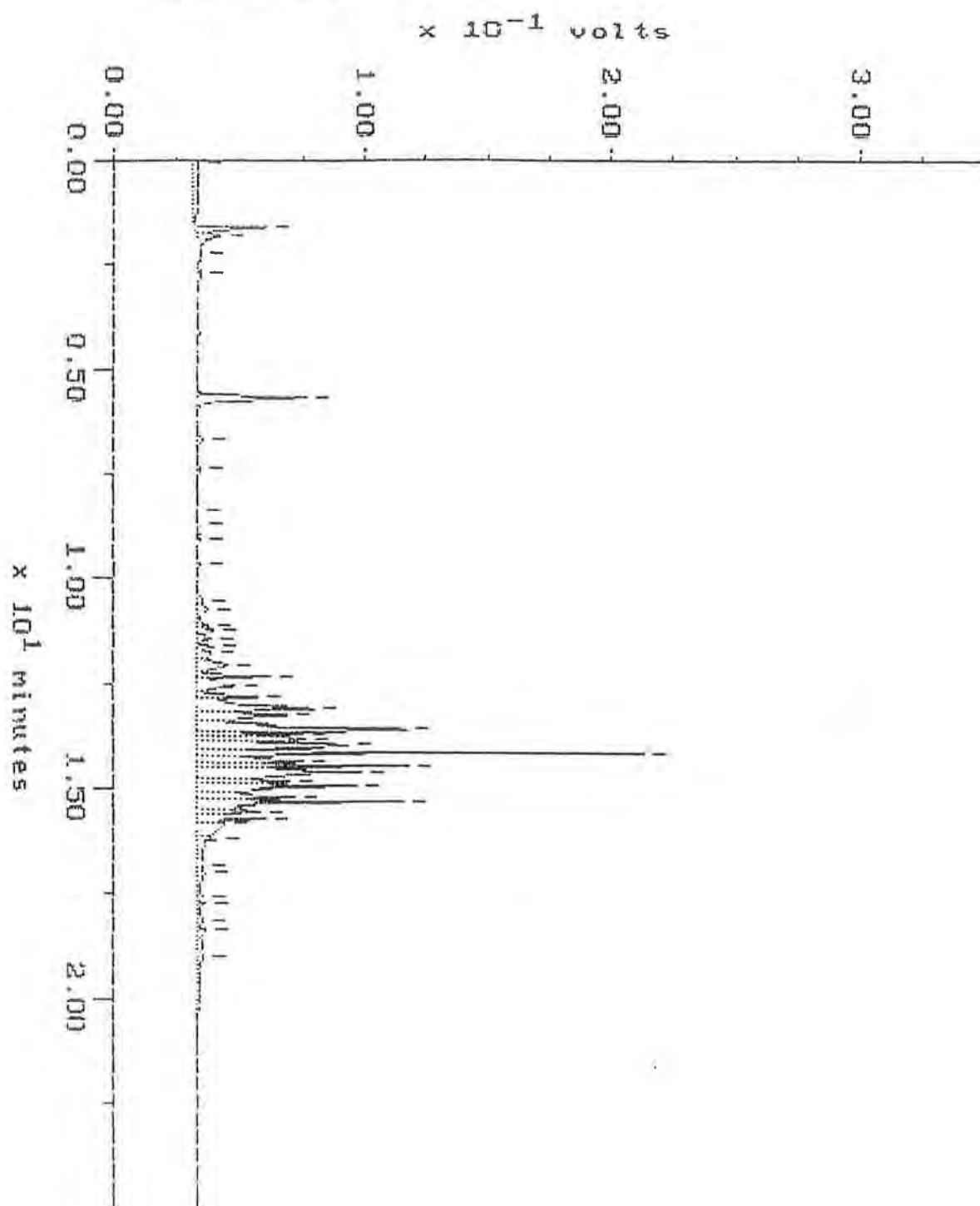


WA DOE WTPH-G

Sample: 9302-008-2 DIL
Acquired: 05-FEB-93 6:14
Dilution: 1 : 50.000

Channel: JEROME-FID
Method: H:\BRU2\MAXDATA\JEROME\020493JR

Filename: K2049J44
Operator:



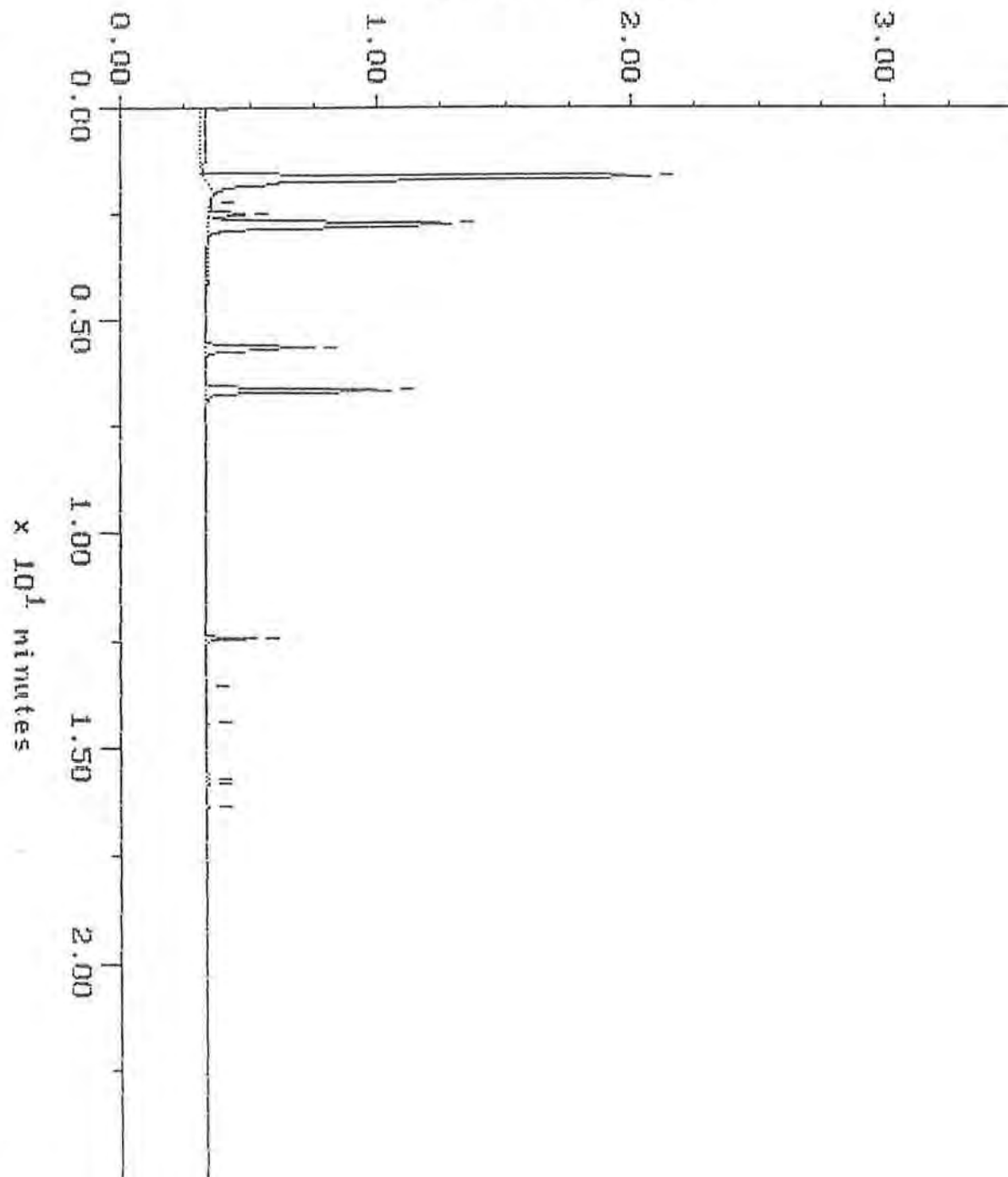
WA DOE WTPH-G

Sample: 9302-000-3
Acquired: 05-FEB-93 14:30

Channel: JEROME-F10
Method: H:\BRU2\MAXDATA\JEROME\020593JR

Filename: R2059J11
Operator:

$\times 10^{-1}$ volts



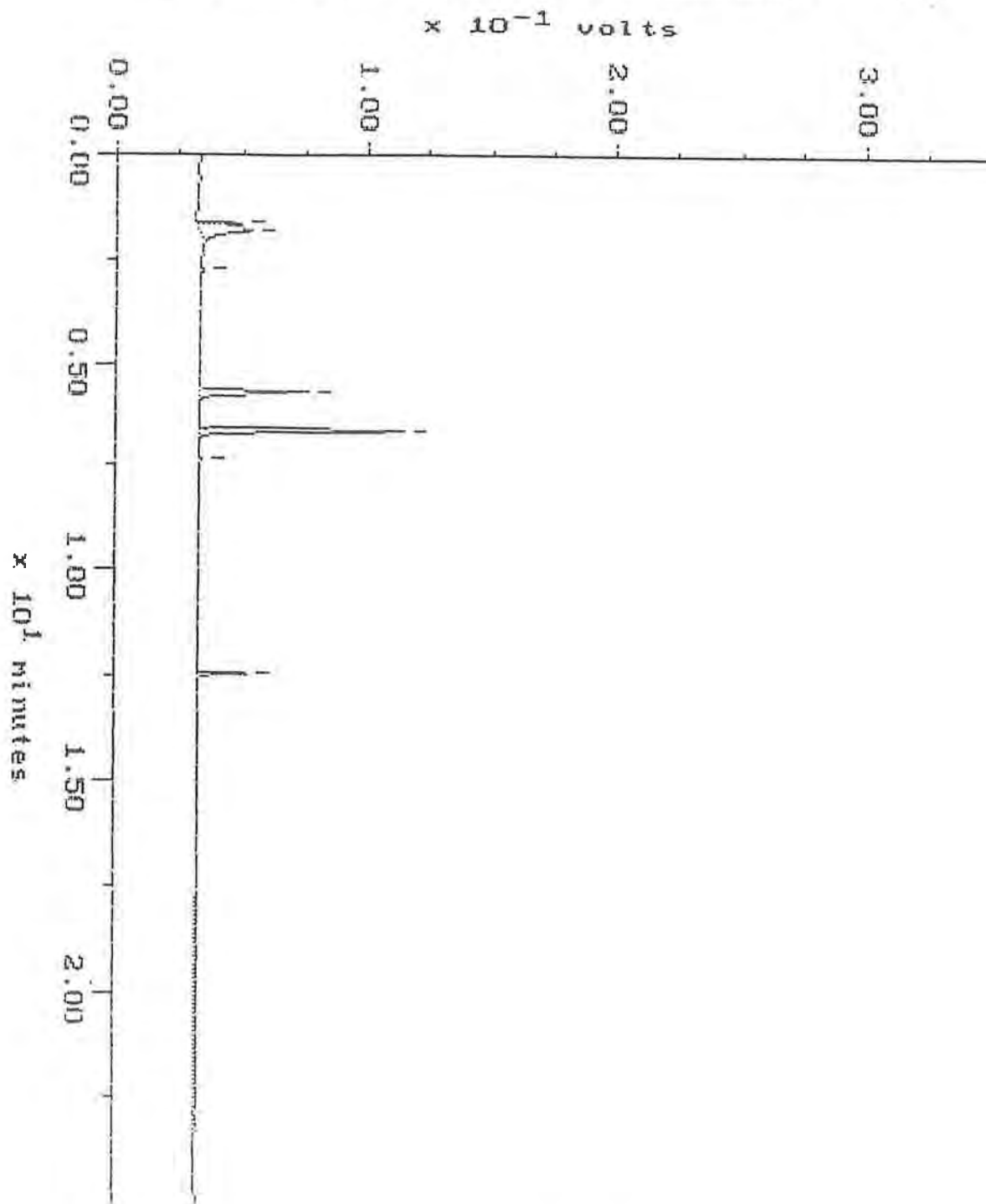
WA DOE WTPH-G

Blank

Sample: SRB-A 2/4
Acquired: 04-FEB-93 15:47

Channel: JEROME-FID
Method: H:\BRO2\MAXDATA\JEROME\020493JR

Filename: R2049J15
Operator:

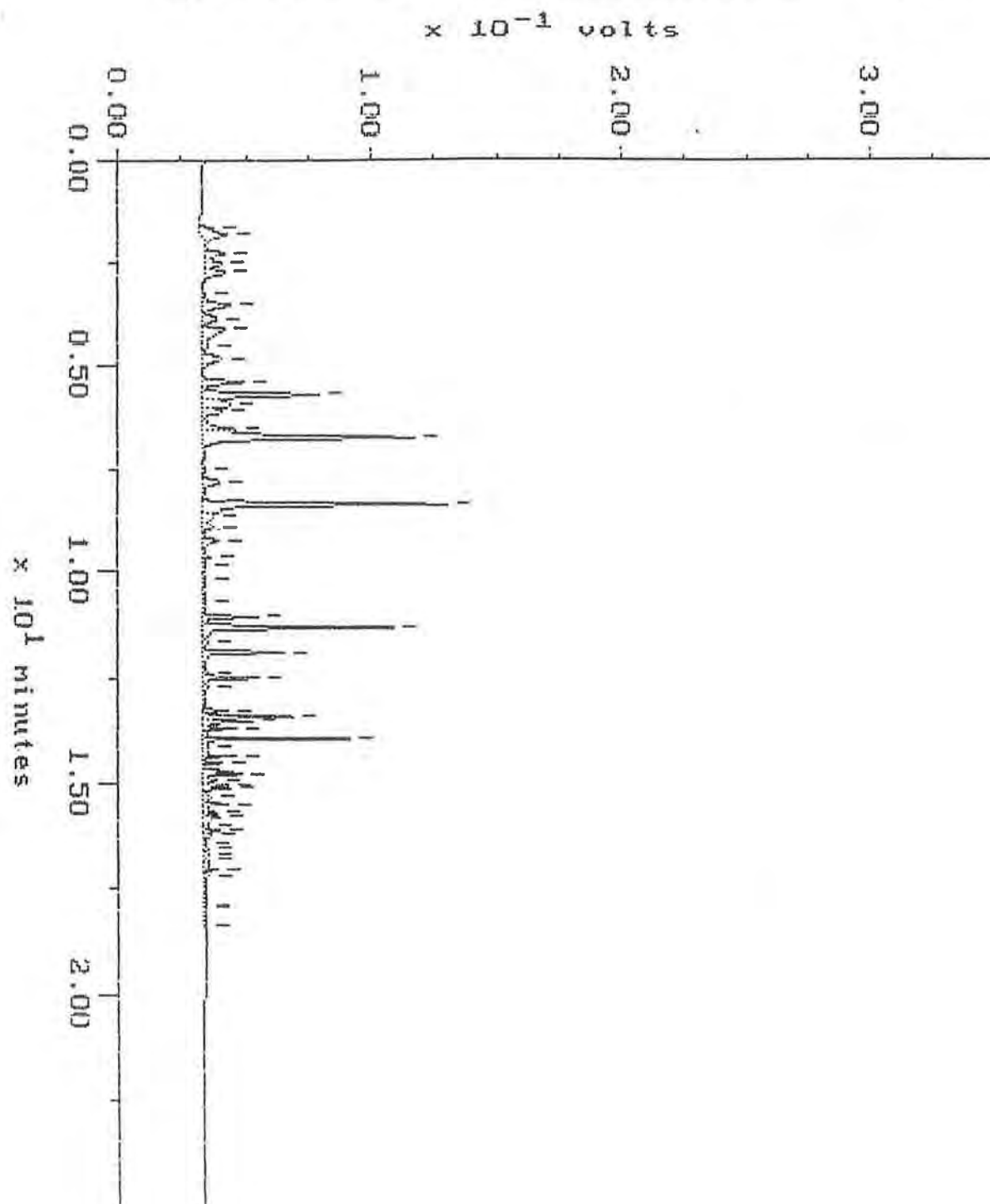


Continuing Calibration

Sample: STD-C G
Acquired: 04-FEB-93 6:40

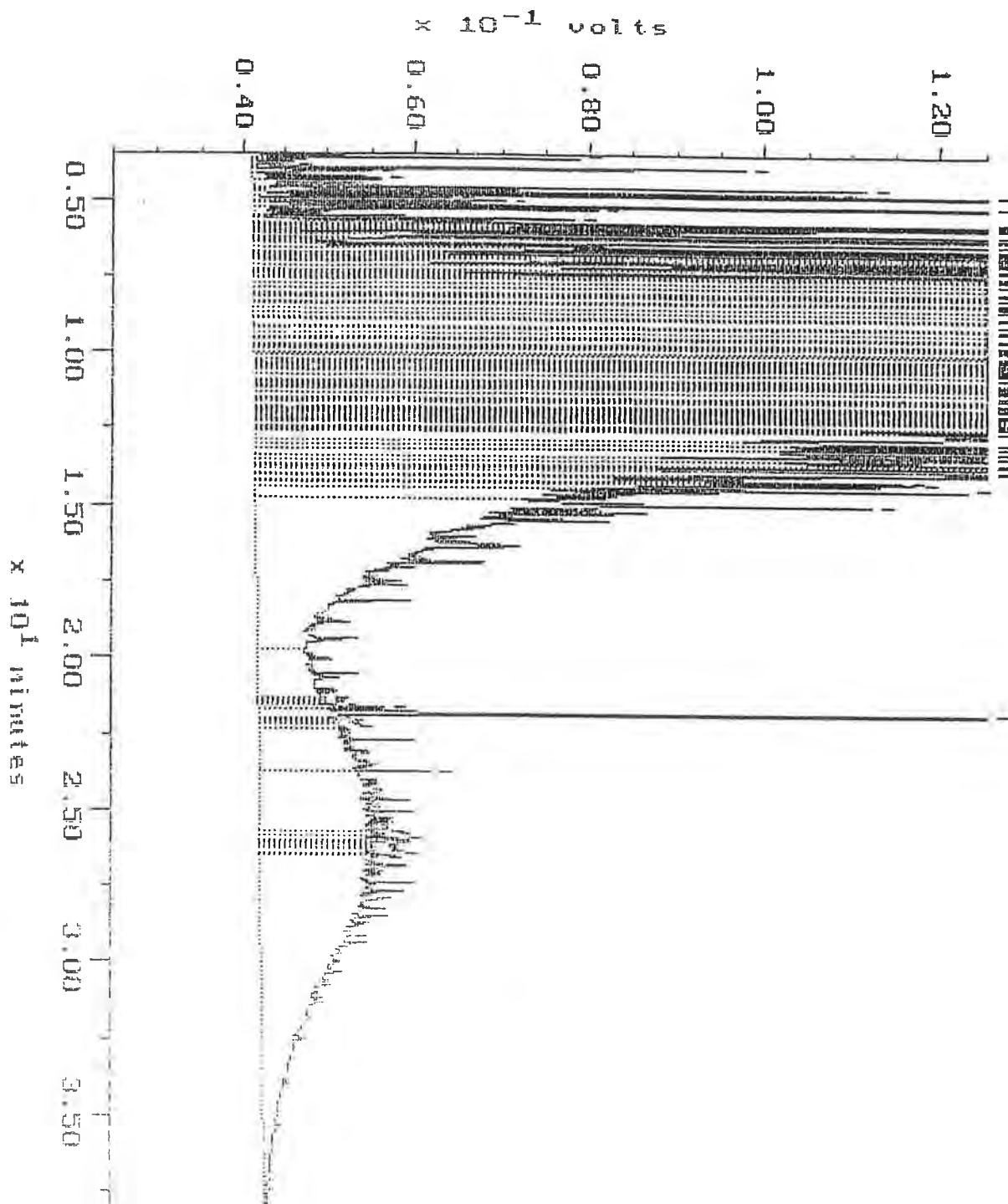
Channel: JEROME-FID
Method: H:\BRU2\MAXDATA\JEROME\020493.JR

Filename: R2049J01
Operator:



WA DOE WTPH-HCID

Sample: 9302-008-1 Channel: FRED Filename: R2028F02
Acquired: 02-FEB-93 18:32 Method: M:\BRO2\MAXDATA\FRED\FUEL0202 Operator: ATI
Comments: ATI RUSH FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY

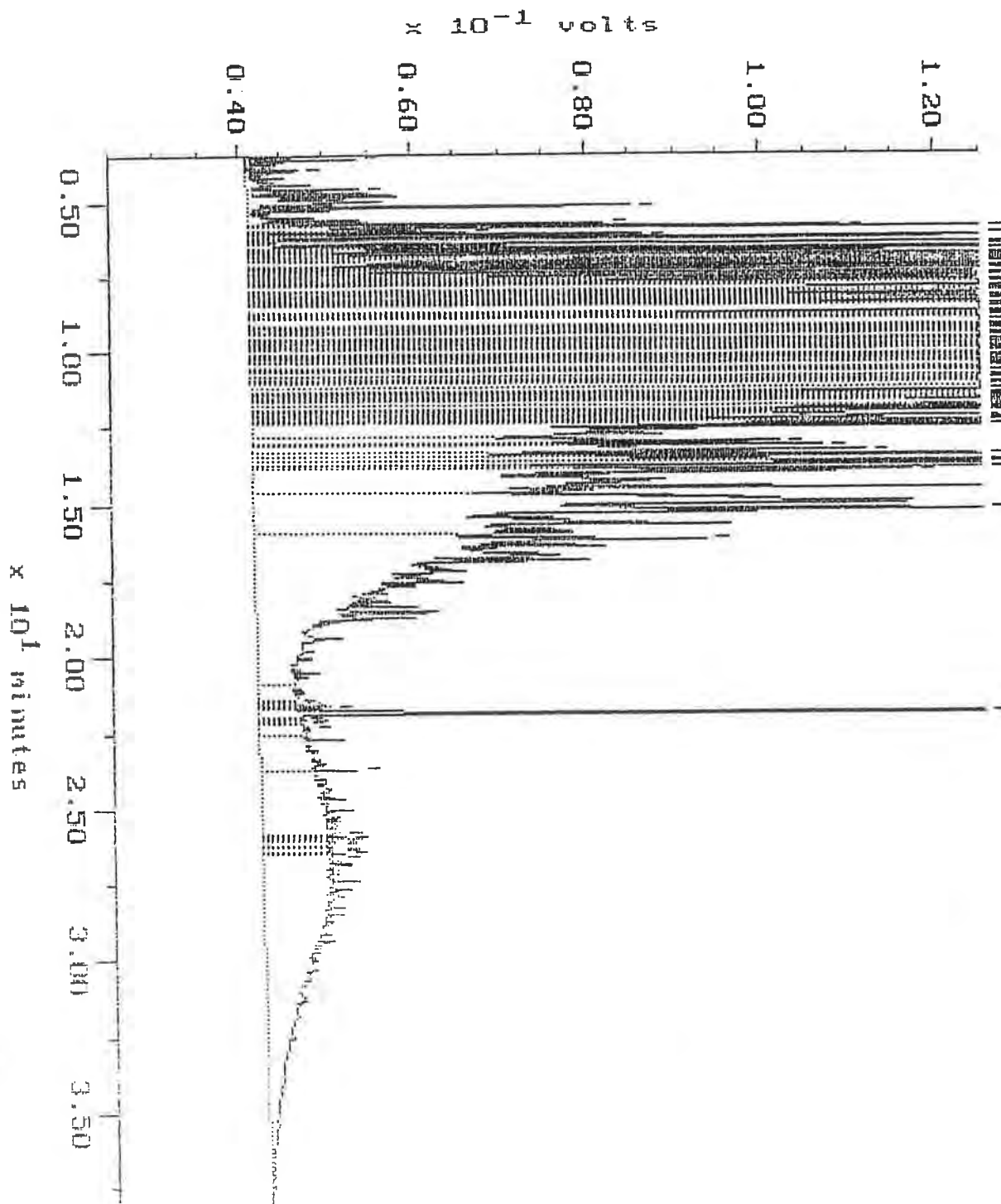


WA DOE WTPH-HCID

Sample: 9302-006-2
Acquired: 02-FEB-93 19:19
Comments: ATI RUSH FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY

Channel: FRED
Method: M:\BRO2\MAXDATA\FRED\FUEL0202

Filename: R2028F03
Operator: ATI

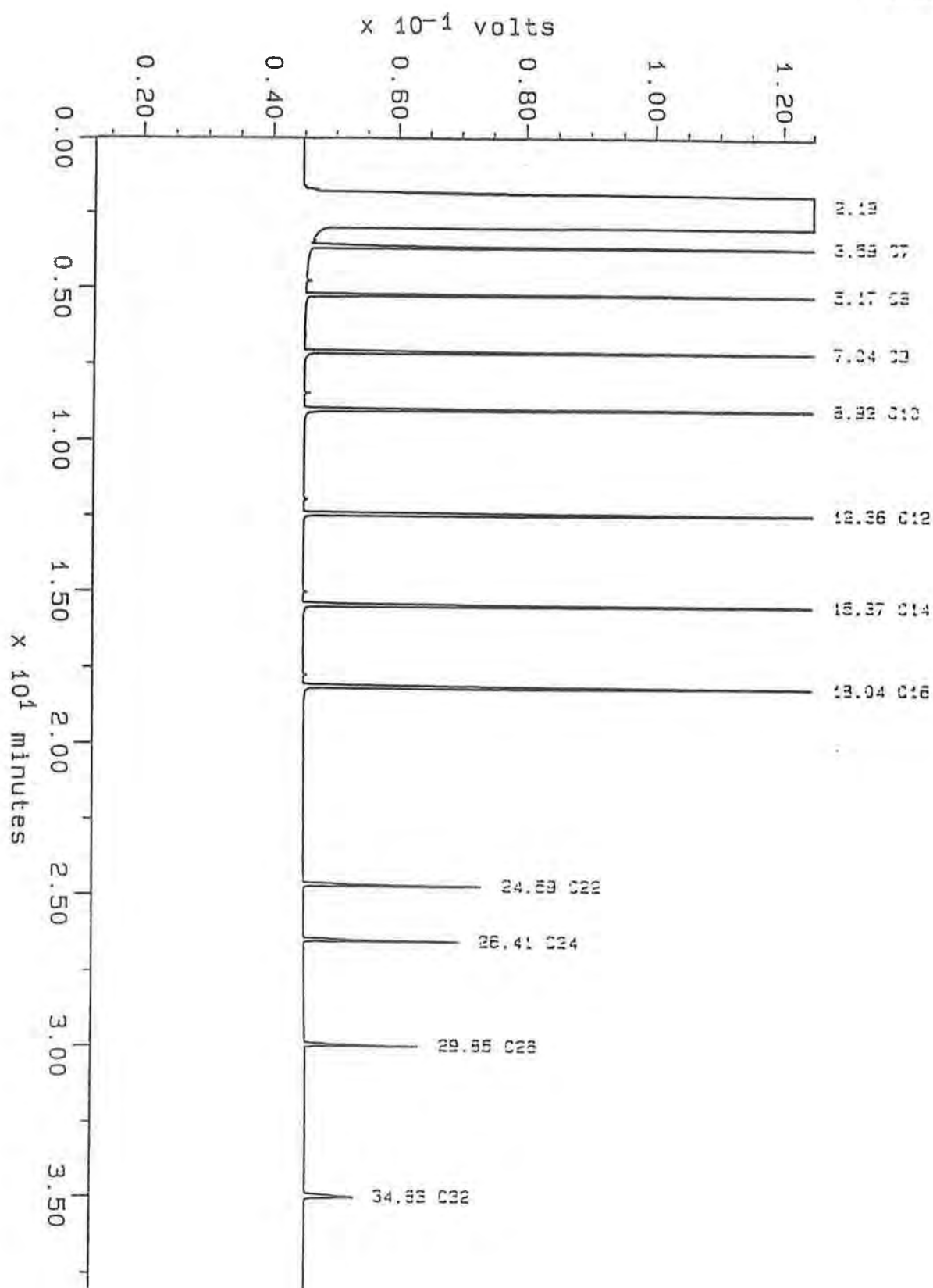


Sample: ALKANE
Acquired: 11-MAN-92 12:01
Inj Vol: 1.00

Channel: FRED
Method: M:\ERG2\MAXDATA\FRED\FUEL0111

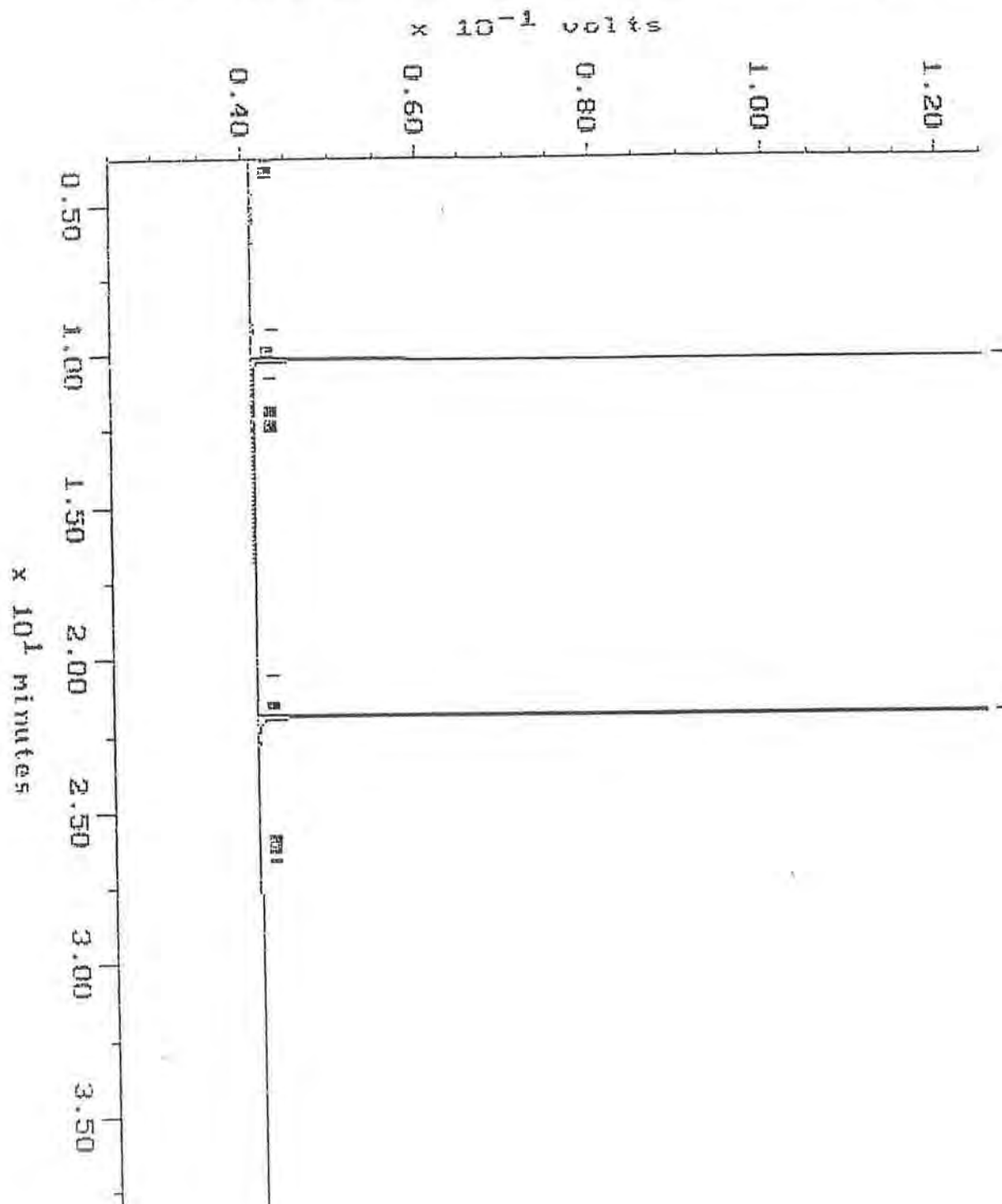
Filename: 0111FR04
Operator: ATI

Alkane



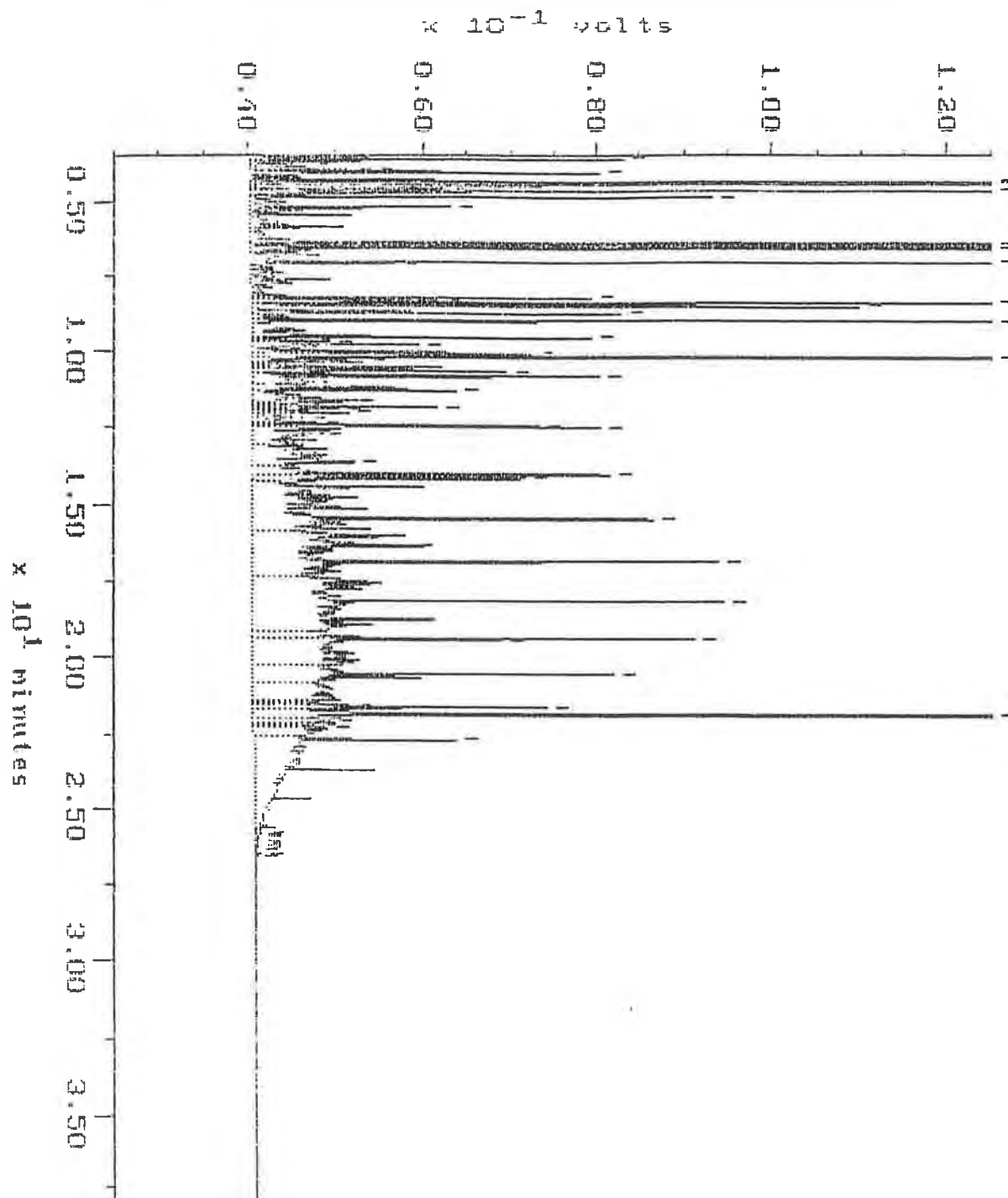
Blank

Sample: SRB 2-2 Channel: FRED Filename: R2028F01
Acquired: 02-FEB-93 17:45 Method: M:\BRO2\MAXDATA\FRED\FUEL0202 Operator: ATI
Comments: ATI RUSH FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY



Continuing Calibration

Sample: BG 400 Channel: FRED Filename: R2018F20
Acquired: 82-FEB-93 14:42 Method: M:\VER02\MAXDATA\FRED\FUEL0201 Operator: RT1
Comments: ATI RUSH FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY

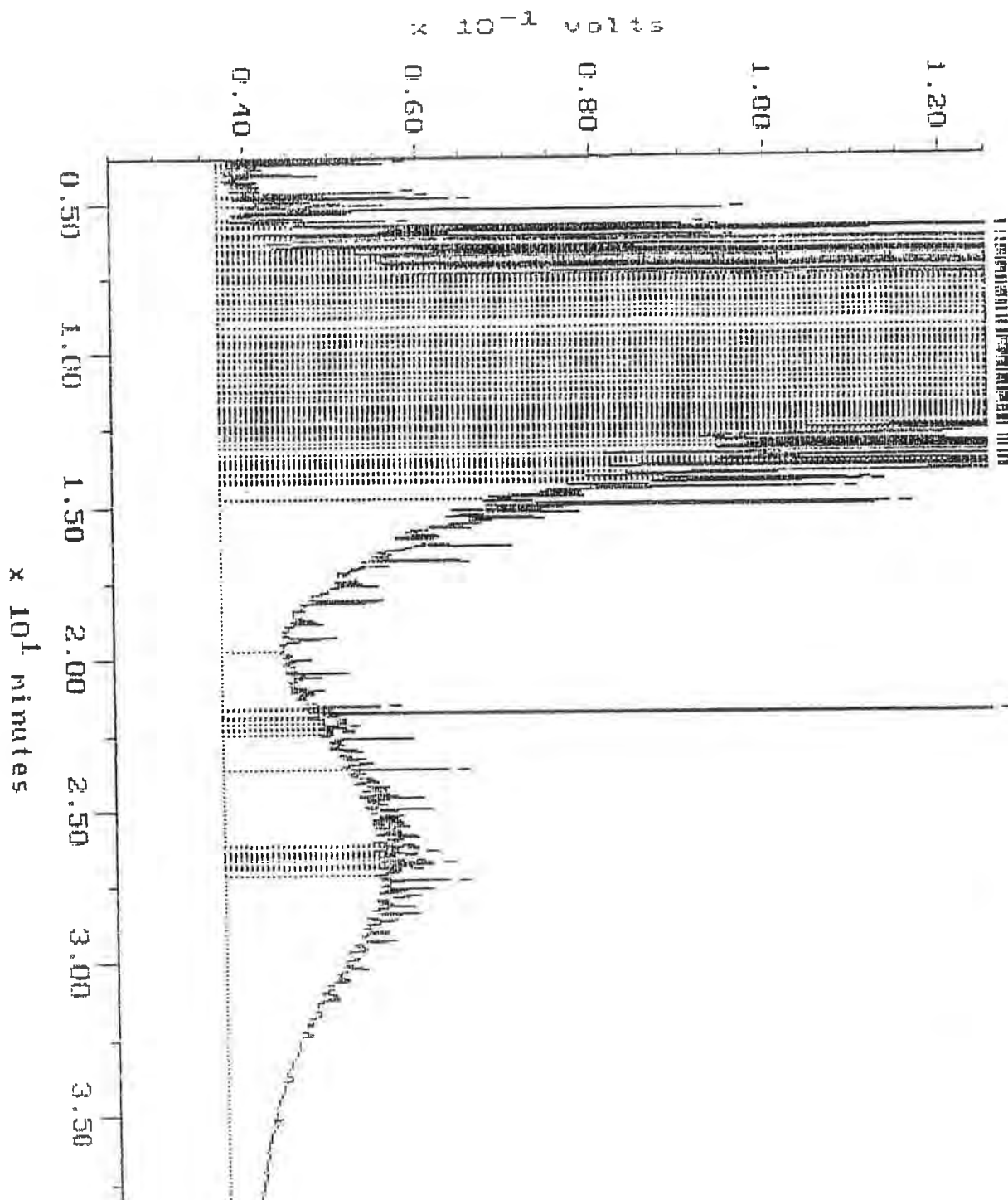


WA DOE WTPH-D

Sample: 9302-006-1D1L
 Acquired: 05-FEB-93 9:25
 Dilution: 1 : 2.000

Channel: DEMITRI
 Method: H:\BRO2\MAXDATA\SERGE-D\FUEL0204

Filename: R2043D24
 Operator: ATI

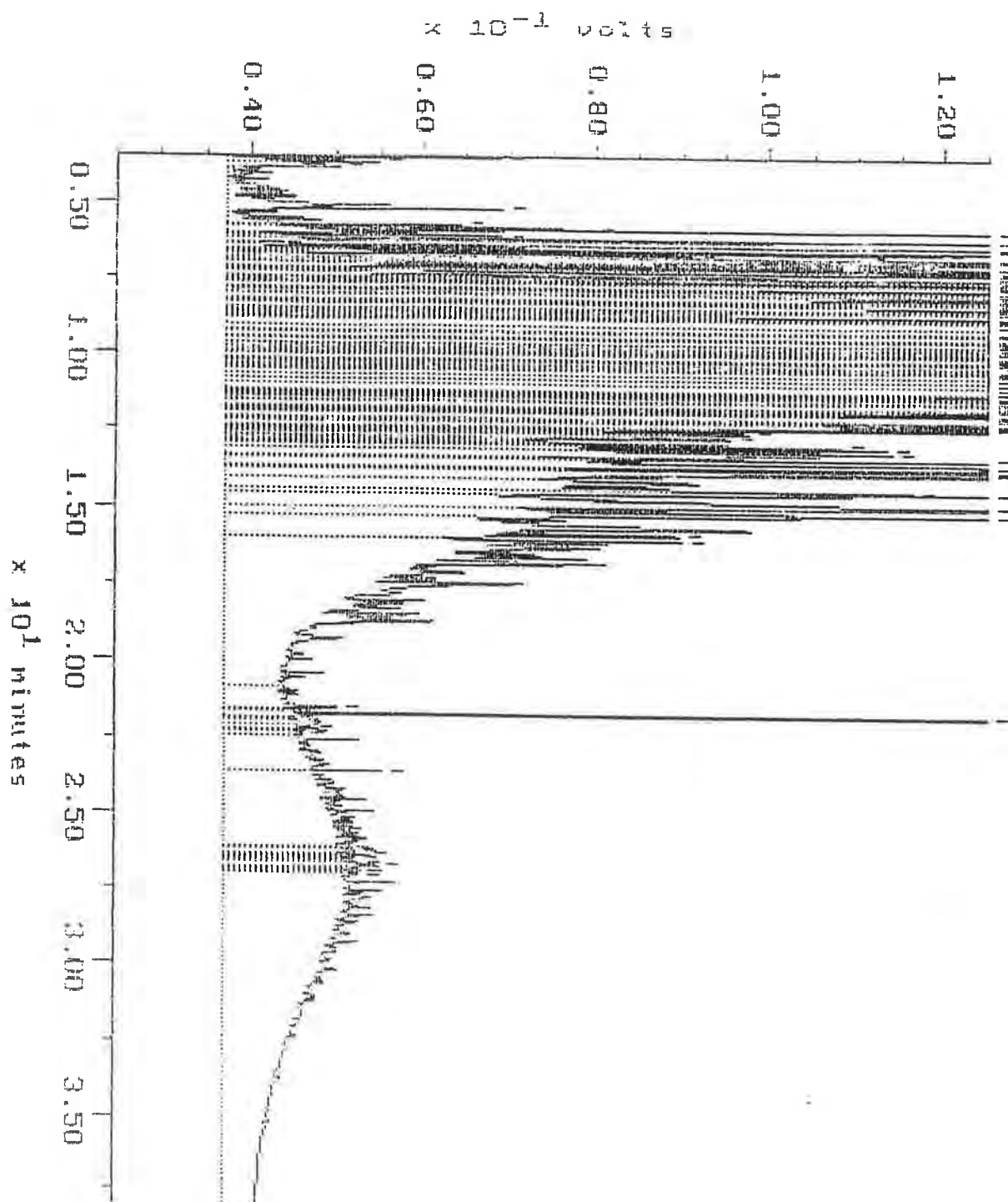


WA DOE WTPH-D

Sample: 9302-000-2DIL
Acquired: 05-FEB-83 10:10
Dilution: 1 : 2.320

Channel: DEMITRI
Method: H:\BROE\MAXDATA\SERGE-D\FUEL0204

Filename: R2048025
Operator: ATI

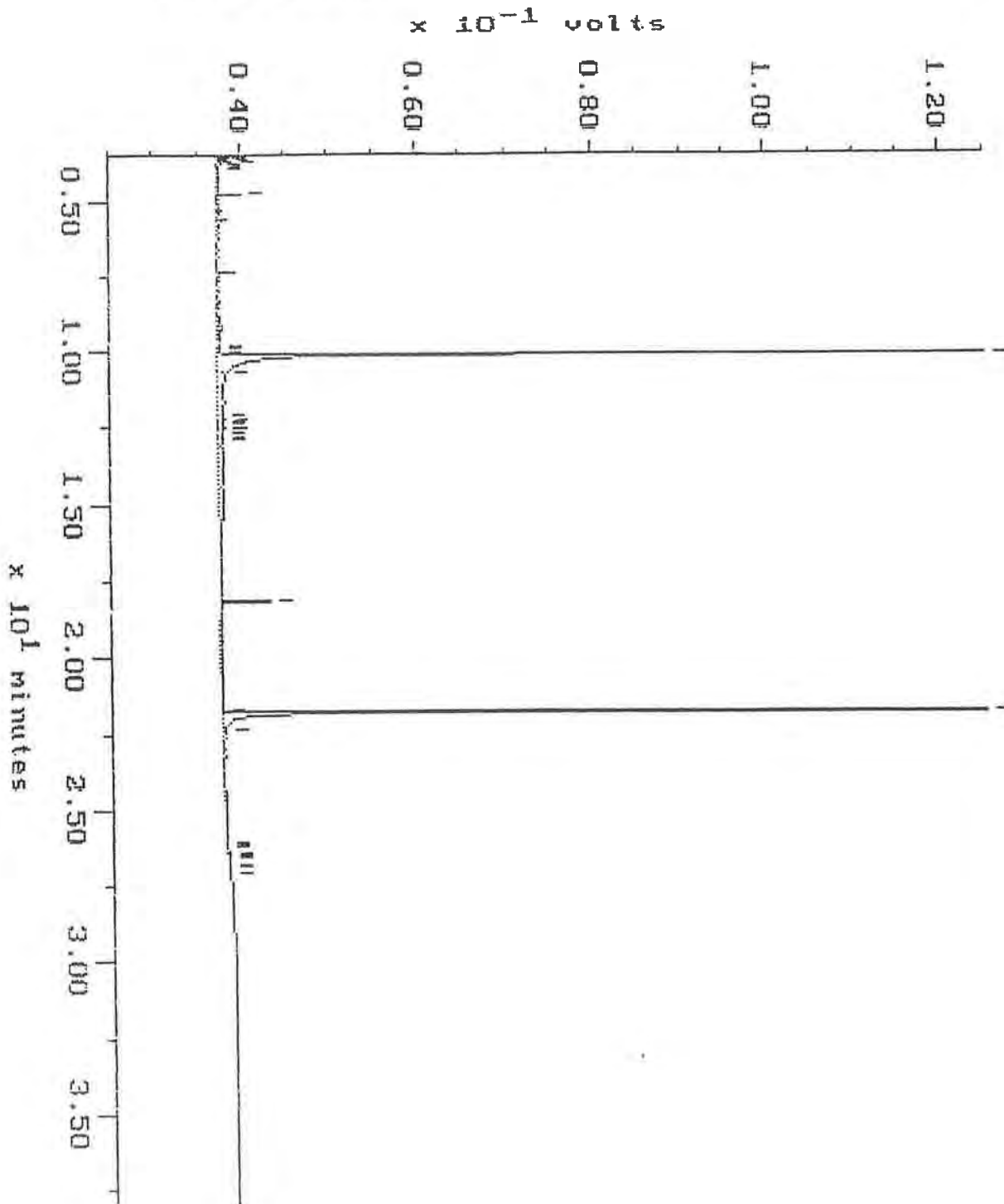


WA DOE WTPH-D

Sample: 9302-008-3
Acquired: 05-FEB-93 11:42

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL0204

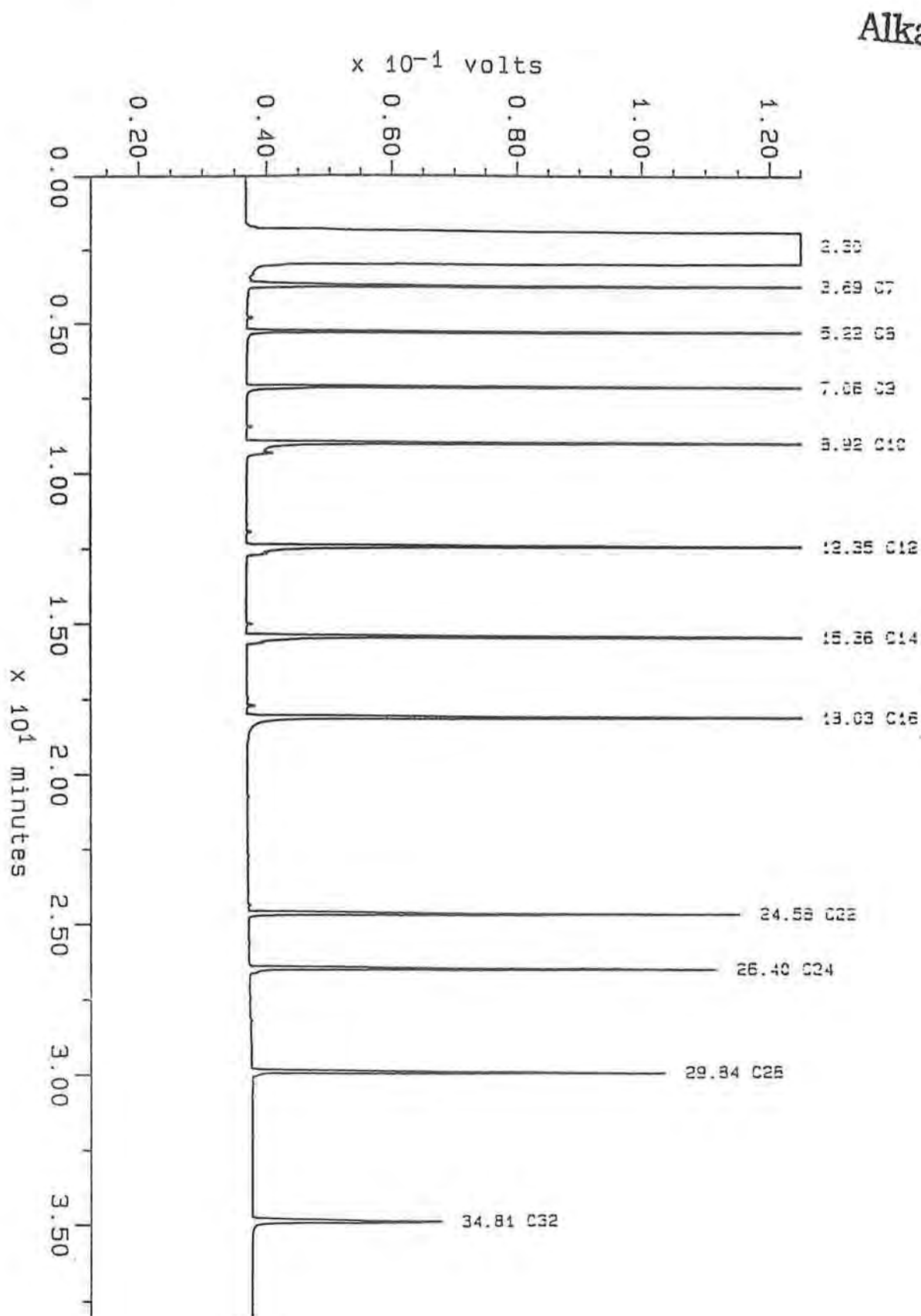
Filename: R2043D27
Operator: ATI



Sample: ALKANE
Acquired: 29-JAN-93 13:44
Inj Vol: 1.00

Channel: CEMETRI
Method: H:\ER02\MAXDATA\3ERGE-D\FUEL0129

Filename: R1299002
Operator: ATI



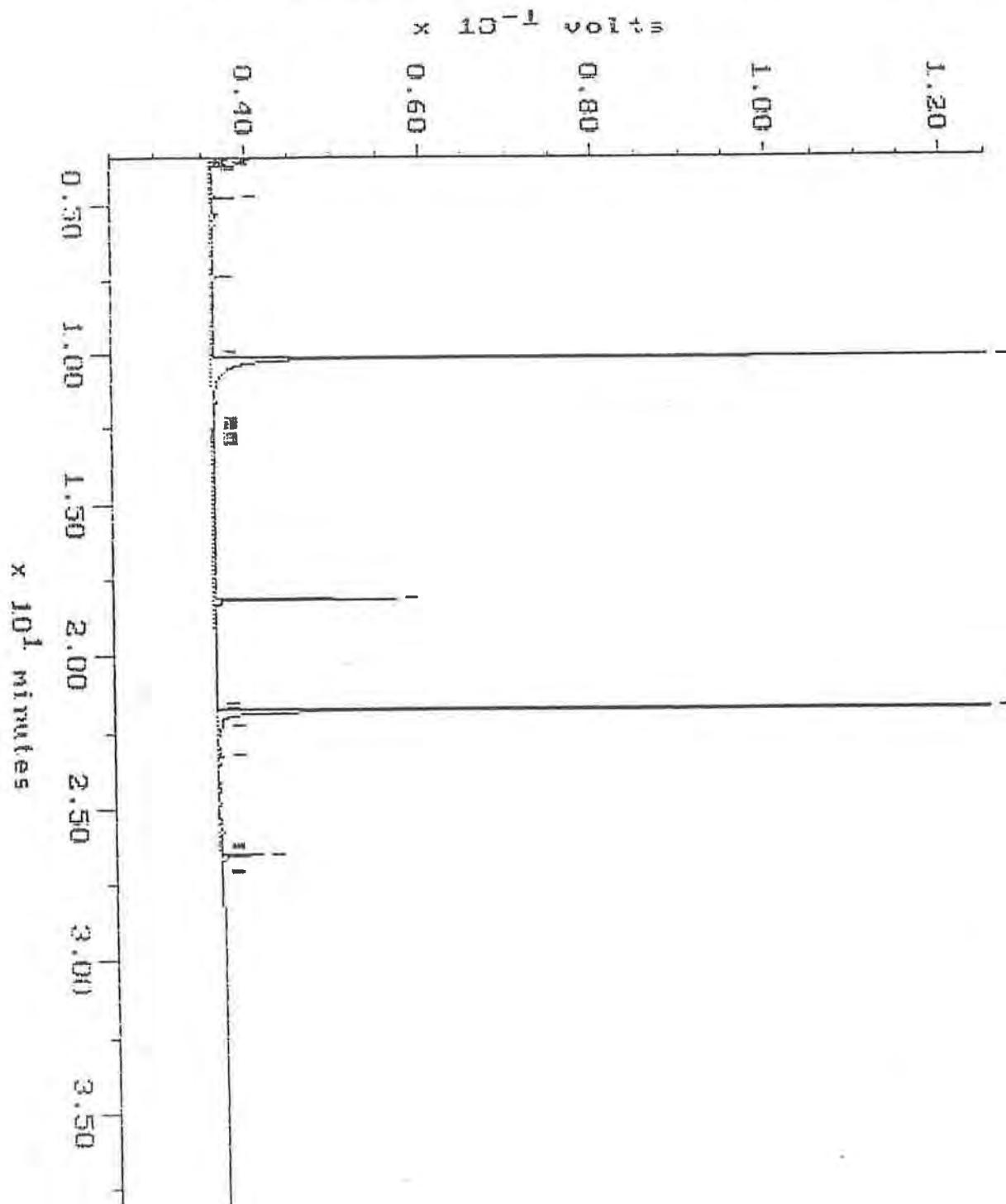
Blank

WA DOE WTPH-D

Sample: SRB 2-4
Acquired: 04-FEB-93 17:23

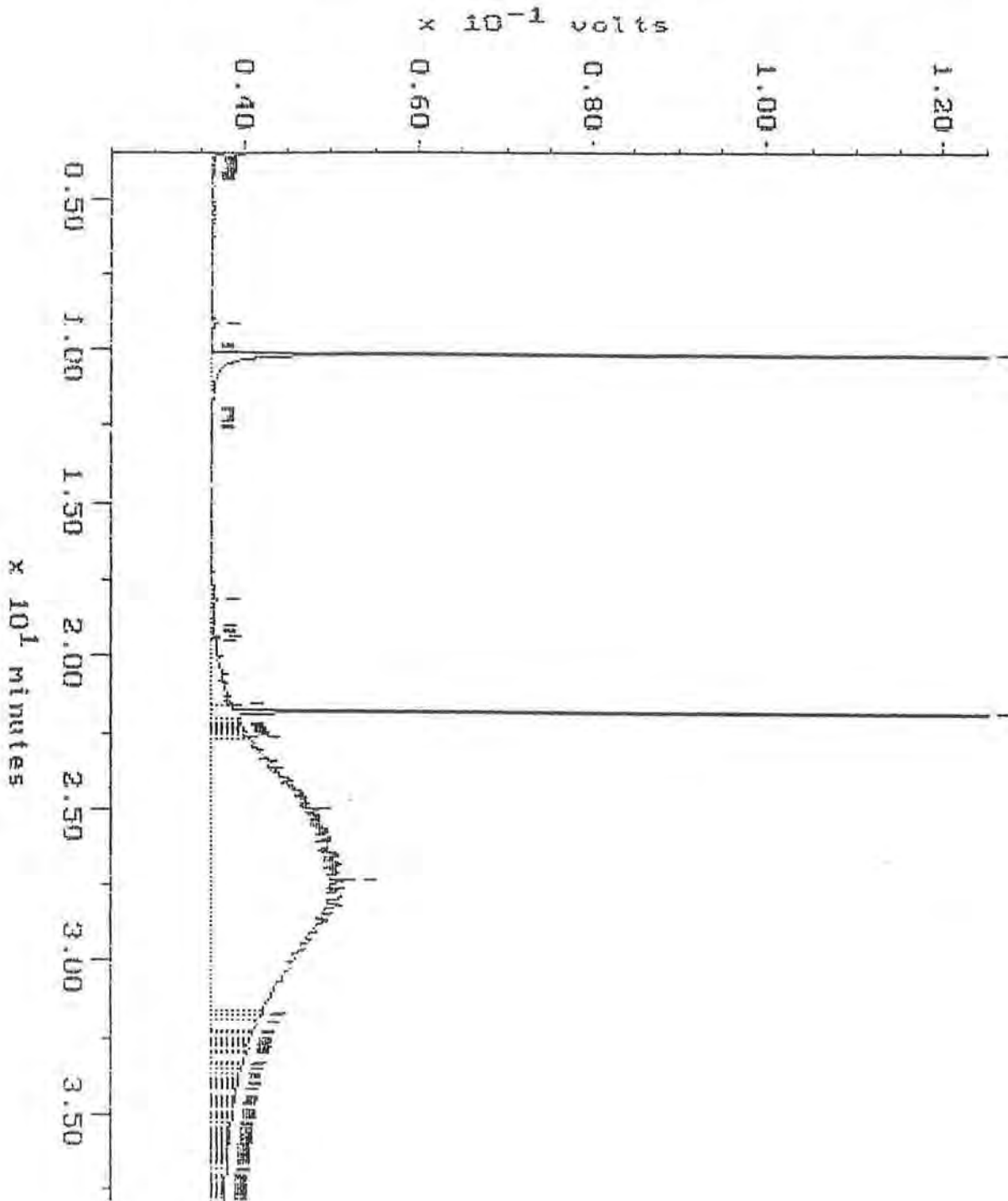
Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL0204

Filename: R2048003
Operator: ATI



Continuing Calibration

Sample: MO 500 Channel: DEMITRI Filename: 82048008
Acquired: 94-FEB-93 15:12 Method: H:\BAC2\MAXDATA\SERGE-D\FUEL0204 Operator: ATI
Comments: ATI RUSH FUELS: PROVIDERS OF EXCELLENCE AND QUALITY IN CLIENT SERVICE

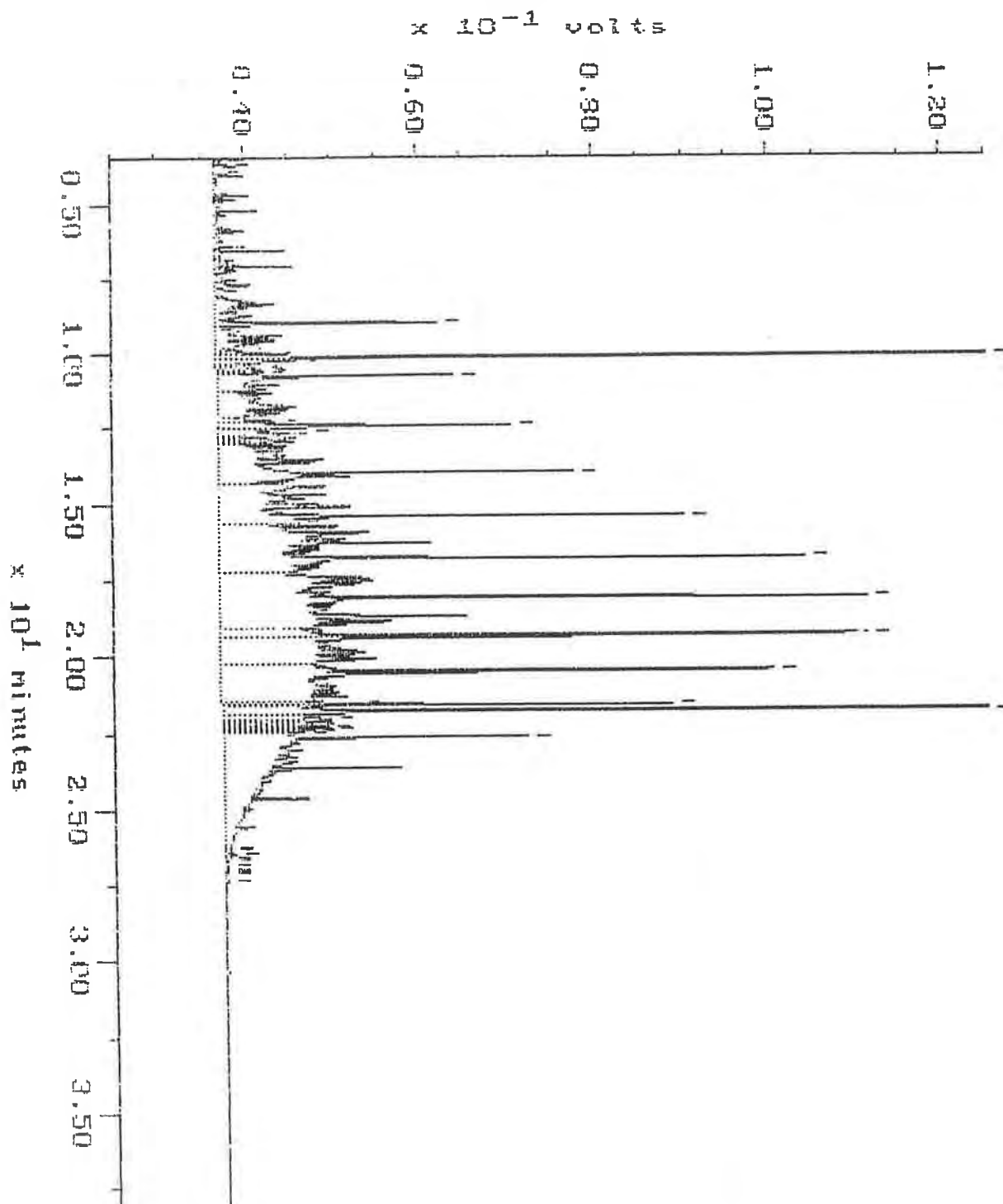


Continuing Calibration

Sample: D 530
Acquired: 04-FEB-93 14:26

Channel: DEMITRI
Method: H:\BR02\MAXDATA\SERGE-D\FUEL0204

Filename: R2346001
Operator: ATI



B - 363



560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335

February 16, 1993

GeoEngineers

FEB 17 1993

Ms. Karen Kotz
GeoEngineers, Inc.
8410 154th Avenue NE
Redmond, WA 98052

Routing

File

Dear Karen:

Based on our conversation, ATI will revise the pricing for UNOCAL projects. This is based on three (3) issues. First, GeoEngineers will receive a summary report for the fuels analyses. Second, GeoEngineers will request the sample bottles 48 hours in advance of needing them. And finally, GeoEngineers will schedule the work at least 48 hours in advance.

The following is our proposal:

WTPH-G	\$ 78.00
BETX	\$ 78.00
WTPH-G/BETX	\$ 85.00
TPH-D	\$ 85.00
HCID (with chromatograms)	\$ 75.00
WTPH-418.1	\$ 78.00

It was also requested that ATI put on a brown bag seminar. This we would be happy to do and look forward to hosting. We need to arrange a date and discuss the content.

I hope this has been helpful. I look forward to talking with you further.

Sincerely,

Lee Carfoglio for
Michael C. Vogel

Michael C. Vogel,
Vice President

MCV/saf/v:0216geo.mcv

cc: Mary Silva



Analytical**Technologies**, Inc.

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John H. Taylor, Jr., Laboratory Manager
Frederick W. Grothkopp, Technical Director

ATI I.D. # 9302-039

February 25, 1993

GeoEngineers

FEB 26 1993

Routing ☐ ☐ ☐
File ☐ ☐ ☐

GeoEngineers, Inc.
8410 154th Ave. N.E.
Redmond WA 98052

Attention : Don Hanson

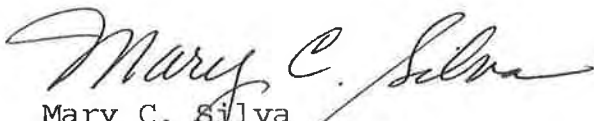
Project Number : 1957-009-R04

Project Name : Time Oil Jackpot

Dear Mr. Hanson:

On February 5, 1993, Analytical Technologies, Inc. (ATI), received three 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.

Sincerely,


Mary C. Silva
Senior Project Manager

MCS/hal/rmn

Enclosure



ATI I.D. # 9302-039

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9302-039-1	B-8-2, 9.0'	02/04/93	SOIL
9302-039-2	B-8-4, 13.5'	02/04/93	SOIL
9302-039-3	B-9-6, 29.0'	02/04/93	SOIL

=====

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	3

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



ATI I.D. # 9302-039

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-G	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
LEAD	ICAP	EPA 6010	R
MOISTURE	GRAVIMETRIC	CLP SOW ILMO1.0	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

ATI I.D. # 9302-039

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : METHOD BLANK
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-G - 8020 (BETX)
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : N/A
 DATE RECEIVED : N/A
 DATE EXTRACTED : 02/05/93
 DATE ANALYZED : 02/05/93
 UNITS : mg/Kg
 DILUTION FACTOR : 1

COMPOUNDS

RESULTS

BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

<5
 TOLUENE TO DODECANE
 GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	87	52 - 116
TRIFLUOROTOLUENE	95	50 - 150

ATI I.D. # 9302-039-1

BETX - GASOLINE
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 02/04/93
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 02/05/93
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/05/93
CLIENT I.D.	: B-8-2, 9.0'	DATE ANALYZED	: 02/05/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-G - 8020 (BETX)	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDS

RESULTS

BENZENE	<0.027
ETHYLBENZENE	<0.027
TOLUENE	<0.027
TOTAL XYLENES	<0.027
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	77	52 - 116
TRIFLUOROTOLUENE	81	50 - 150



ATI I.D. # 9302-039-2

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : B-8-4, 13.5'
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-G - 8020 (BETX)
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/04/93
 DATE RECEIVED : 02/05/93
 DATE EXTRACTED : 02/05/93
 DATE ANALYZED : 02/08/93
 UNITS : mg/Kg
 DILUTION FACTOR : 1

 COMPOUNDS

RESULTS

BENZENE	<0.027
ETHYLBENZENE	<0.027
TOLUENE	<0.027
TOTAL XYLENES	<0.027

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

<5
 TOLUENE TO DODECANE
 GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	89	52 - 116
TRIFLUOROTOLUENE	86	50 - 150



ATI I.D. # 9302-039-3

BETX - GASOLINE
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 02/04/93
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 02/05/93
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/05/93
CLIENT I.D.	: B-9-6, 29.0'	DATE ANALYZED	: 02/08/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-G - 8020 (BETX)	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDS

RESULTS

BENZENE	<0.026
ETHYLBENZENE	<0.026
TOLUENE	<0.026
TOTAL XYLENES	<0.026
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	89	52 - 116
TRIFLUOROTOLUENE	85	50 - 150

ATI I.D. # 9302-039

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
EPA METHOD : WA DOE WTPH-G - 8020 (BETX)

SAMPLE I.D. # : 9302-041-8
DATE EXTRACTED : 02/05/93
DATE ANALYZED : 02/05/93
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
GASOLINE	<5	<5	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
GASOLINE						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
TRIFLUOROTOLUENE				80		72		50 - 150	

NC = Not Calculable.



ATI I.D. # 9302-039

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9302-039-1
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 02/05/93
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 02/05/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: WA DOE WTPH-G - 8020 (BETX)		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	<0.025	N/A	N/A	1.00	0.827	83	0.865	87	4
TOLUENE	<0.025	N/A	N/A	1.00	0.881	88	0.899	90	2
TOTAL XYLENES	<0.025	N/A	N/A	2.00	1.76	88	1.77	89	1
GASOLINE	<5	<5	NC	50.0	41.5	83	39.6	79	5

CONTROL LIMITS	% REC.	RPD
BENZENE	35 - 113	20
TOLUENE	43 - 107	20
TOTAL XYLENES	46 - 114	20
GASOLINE	50 - 112	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	82	80	52 - 116
TRIFLUOROTOLUENE	90	88	50 - 150

NC = Not Calculable.

ATI I.D. # 9302-039

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
EPA METHOD : WA DOE WTPH-G - 8020 (BETX)

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 02/05/93
DATE ANALYZED : 02/05/93
UNITS : mg/Kg

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.025	1.00	0.946	95	N/A	N/A	N/A
TOLUENE	<0.025	1.00	0.981	98	N/A	N/A	N/A
TOTAL XYLENES	<0.025	2.00	1.92	96	N/A	N/A	N/A
GASOLINE	<5	50.0	46.1	92	N/A	N/A	N/A

CONTROL LIMITS

	% REC.	RPD
BENZENE	63 - 115	20
TOLUENE	75 - 110	20
TOTAL XYLENES	79 - 109	20
GASOLINE	80 - 119	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	86	N/A	52 - 116
TRIFLUOROTOLUENE	96	N/A	50 - 150



ATI I.D. # 9302-039

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: N/A
PROJECT #	: 1957-009-R04	DATE RECEIVED	: N/A
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/05/93
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 02/05/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDS

RESULTS

FUEL HYDROCARBONS	<10
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<40
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	86	50 - 150
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ATI I.D. # 9302-039-2

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : B-8-4, 13.5'
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/04/93
DATE RECEIVED : 02/05/93
DATE EXTRACTED : 02/05/93
DATE ANALYZED : 02/05/93
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<11
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<44
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

79

50 - 150



ATI I.D. # 9302-039-3

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 02/04/93
PROJECT # : 1957-009-R04	DATE RECEIVED : 02/05/93
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 02/05/93
CLIENT I.D. : B-9-6, 29.0'	DATE ANALYZED : 02/06/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS

RESULTS

FUEL HYDROCARBONS	<11
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<42
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	76	50 - 150
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ATI I.D. # 9302-039

 TOTAL PETROLEUM HYDROCARBONS
 QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-D

SAMPLE I.D. # : 9302-036-1
 DATE EXTRACTED : 02/05/93
 DATE ANALYZED : 02/05/93
 UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
MOTOR OIL	<40	<40	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
MOTOR OIL						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				86		88		50 - 150	

NC = Not Calculable.

ATI I.D. # 9302-039

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9302-036-1
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 02/05/93
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 02/05/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
DIESEL	<10	<10	NC	200	165	83	172	86	4
CONTROL LIMITS						% REC.			RPD
DIESEL						63 - 131			20
SURROGATE RECOVERIES				SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL				94		97		50 - 150	

NC = Not Calculable.

ATI I.D. # 9302-039

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 02/05/93
DATE ANALYZED : 02/05/93
UNITS : mg/Kg

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
DIESEL	<10	200	170	85	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		92		N/A		50 - 150	



Analytical Technologies, Inc.

ATI I.D. # 9302-039

METALS ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

ELEMENT

DATE PREPARED

DATE ANALYZED

LEAD

02/09/93

02/10/93



ATI I.D. # 9302-039

METALS ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

MATRIX : SOIL

UNITS : mg/Kg

ATI I.D. #	CLIENT I.D.	LEAD
9302-039-1	B-8-2, 9.0'	14
9302-039-2	B-8-4, 13.5'	3.5
METHOD BLANK	-	<1.5

ATI I.D. # 9302-039

METALS ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : mg/Kg

ELEMENT	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
LEAD	9302-039-1	14	11	24	65.4	60.2	85
LEAD	BLANK SPIKE	<1.5	N/A	N/A	44.7	50.0	89

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



ATI I.D. # 9302-039

GENERAL CHEMISTRY ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

PARAMETERDATE ANALYZED

MOISTURE

02/05/93



ATI I.D. # 9302-039

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
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9302-039-1	B-8-2, 9.0'	8.2
9302-039-2	B-8-4, 13.5'	8.3
9302-039-3	B-9-6, 29.0'	5.6

ATI I.D. # 9302-039

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9302-039-3	5.6	5.6	0	N/A	N/A	N/A

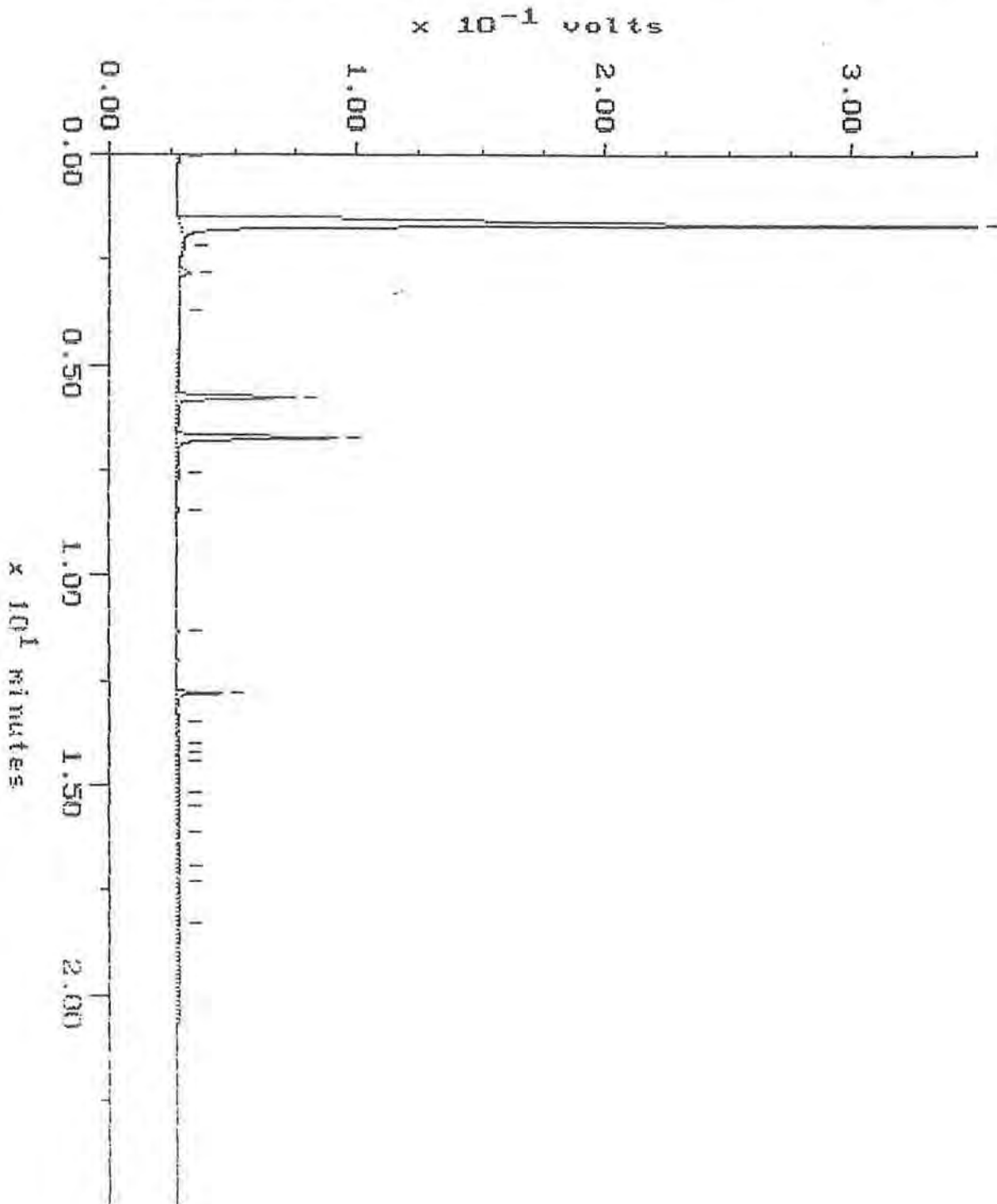
$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

WA DOE WTPH-G

Sample: 9302-039-1 Channel: FID
Acquired: 05-FEB-93 19:39 Method: N:\BRU2\MAXDATA\GLAD\020593GS
Comments: AFI : A COMMITMENT TO QUALITY

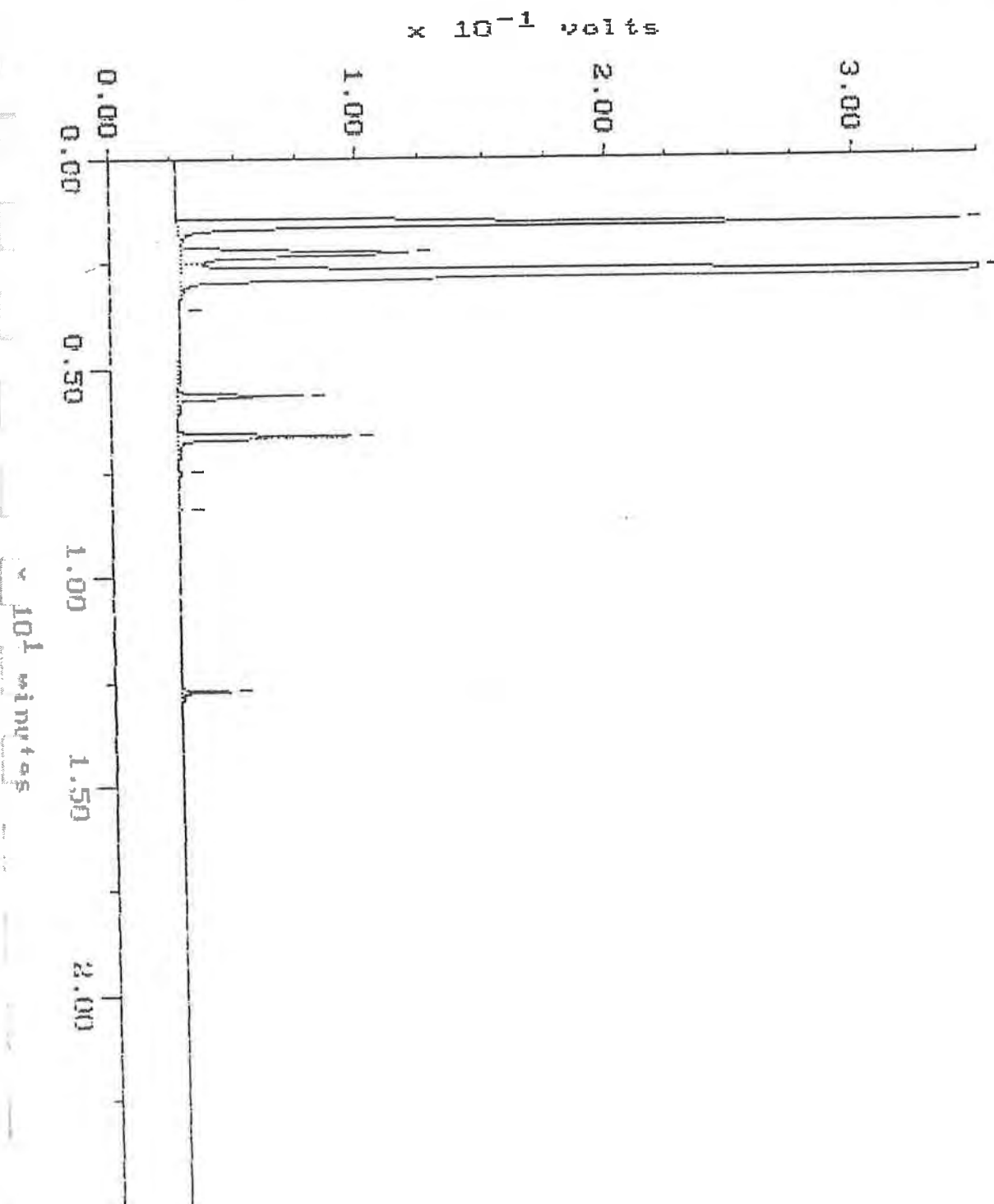
Filename: R2059612
Operator: AFI



WA DOE WTPH-G

Sample: 9302-039-2 Channel: FID
Acquired: 08-FEB-93 16:08 Method: N:\8002\MAXDATA\GLAD\02089368
Comments: ATI : A COMMITMENT TO QUALITY

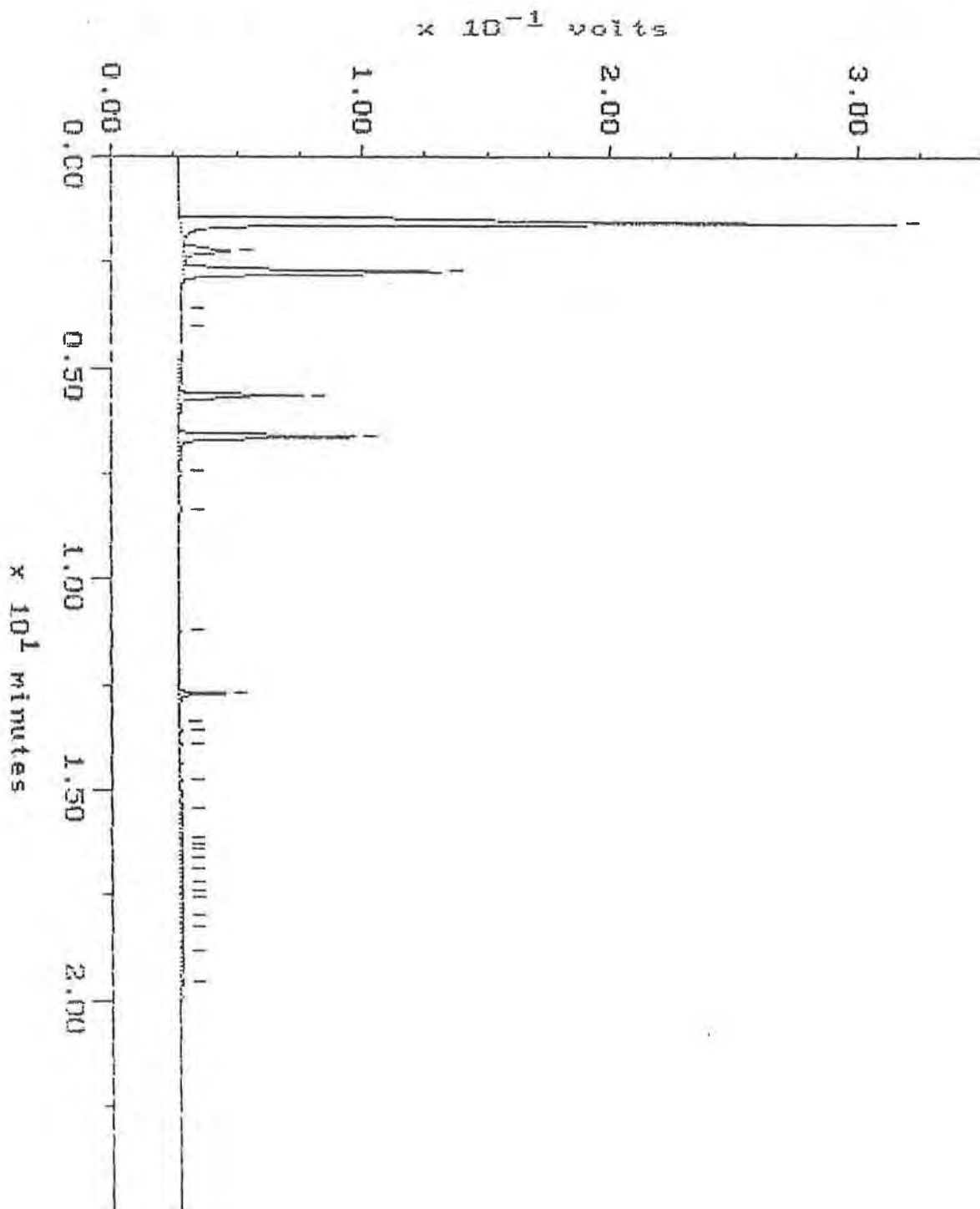
Filename: R2089610
Operator: ATI



WA DOE WTPH-G

Sample: 9302-039-3 Channel: FID
Acquired: 08-FEB-93 16:38 Method: N:\6R02\MAXDATA\GLAD\02089303
Comments: ATI : A COMMITMENT TO QUALITY

Filename: K2089611
Operator: Afi



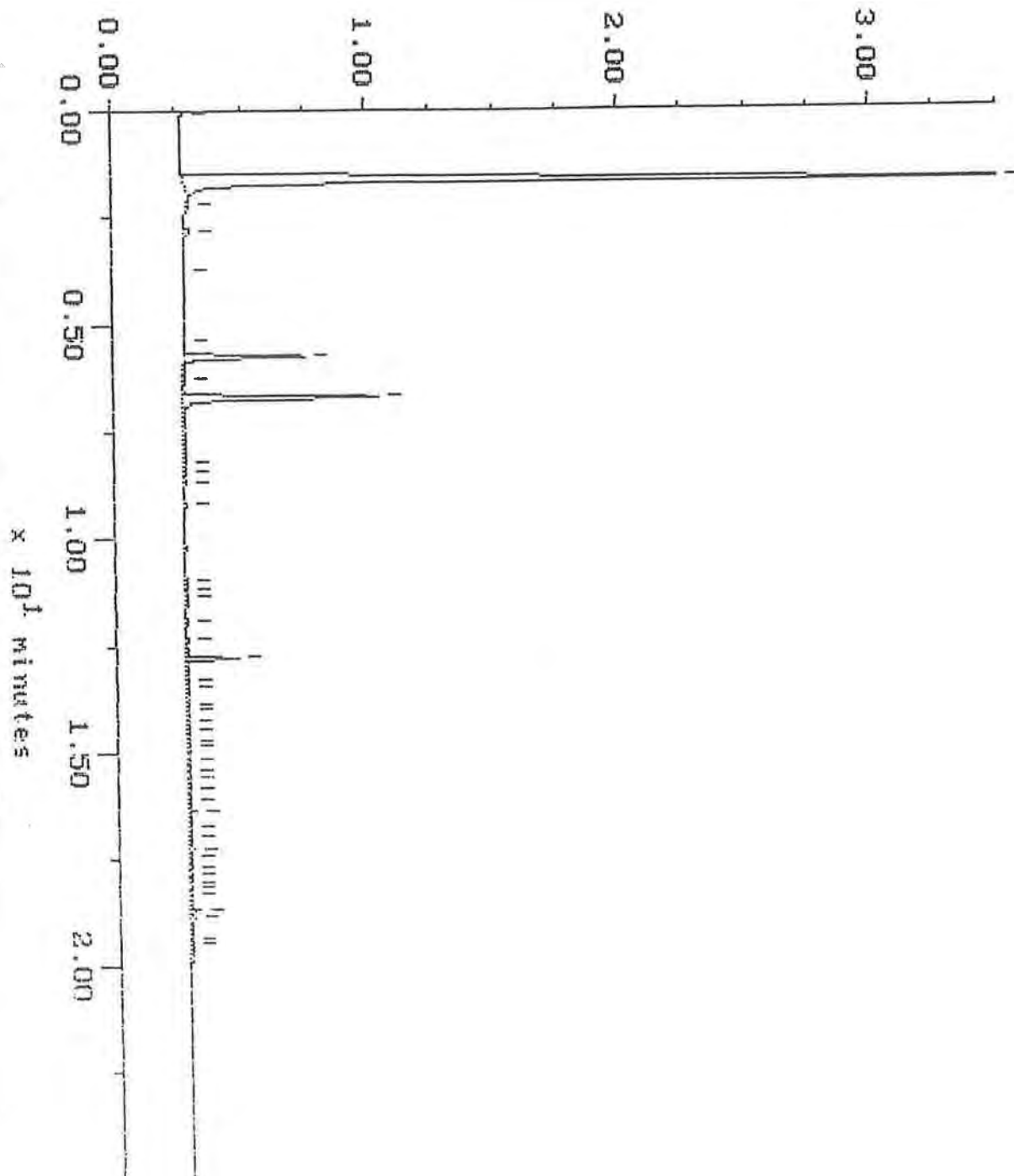
WA DOE WTPH-G

Blank

Sample: SR8 2/5 Channel: FID
 Acquired: 05-FEB-93 16:43 Method: N:\8RD2\MAXDATA\GLAD\0205936S
 Comments: AFI : A COMMITMENT TO QUALITY

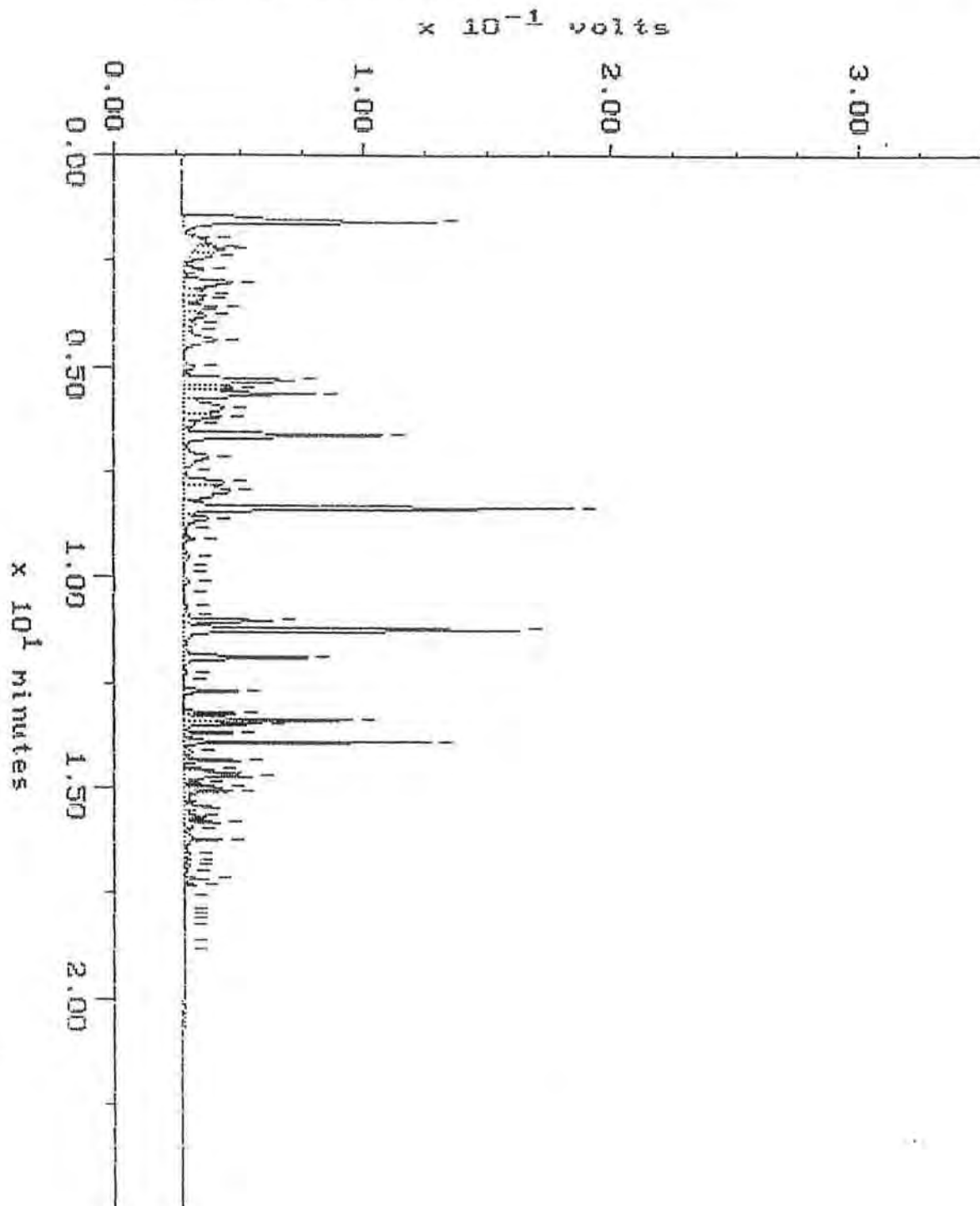
Filename: R2059606
 Operator: AFI

$\times 10^{-1}$ volts



Sample: STD-C Channel: FID
Acquired: 08-FEB-93 8:34 Method: N:\BRU2\MAXDATA\GLAD\02009363
Comments: AFI : A COMMITMENT TO QUALITY

Filename: R2089602
Operator: AFI

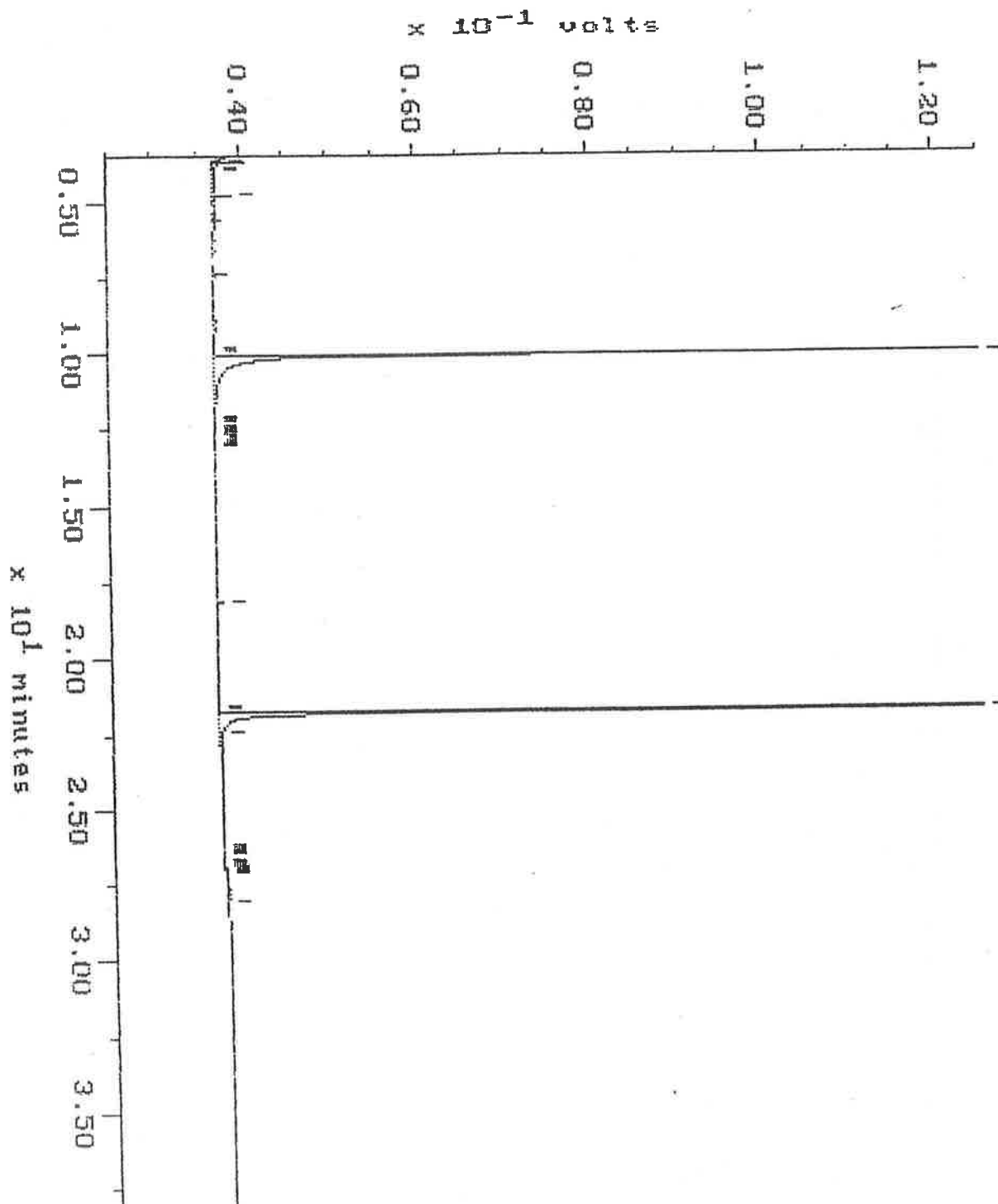


WA DOE WTPH-D

Sample: 9302-339-2
Acquired: 25-FEB-93 23:28

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL9205

Filename: R2050009
Operator: AT1

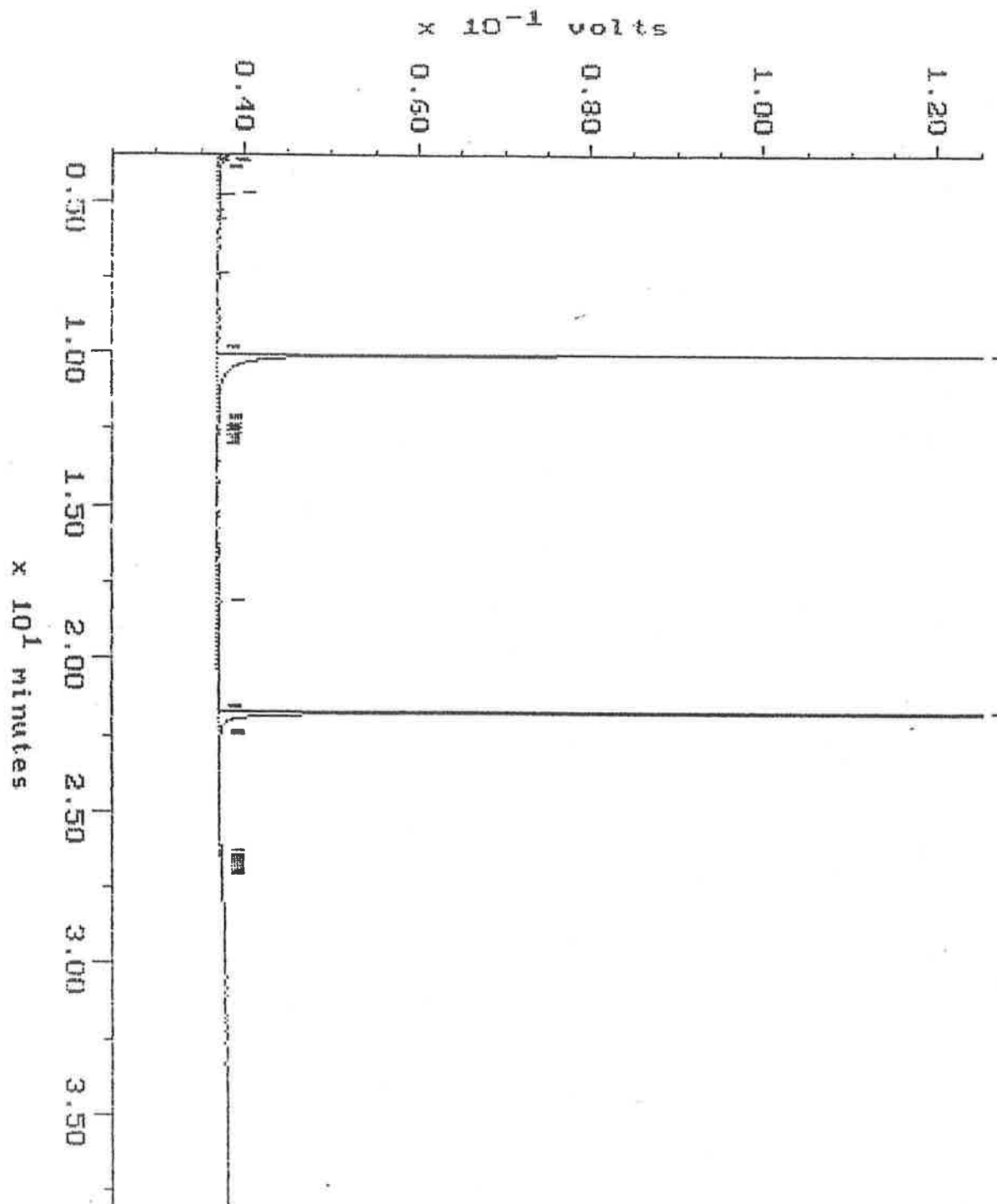


WA DOE WTPH-D

Sample: 9302-039-3
Acquired: 86-FEB-93 0:14

Channel: DEMITRI
Method: H:\3R02\MAXDATA\SERGE-D\FUEL0205

Filename: R2958D10
Operator: ATI

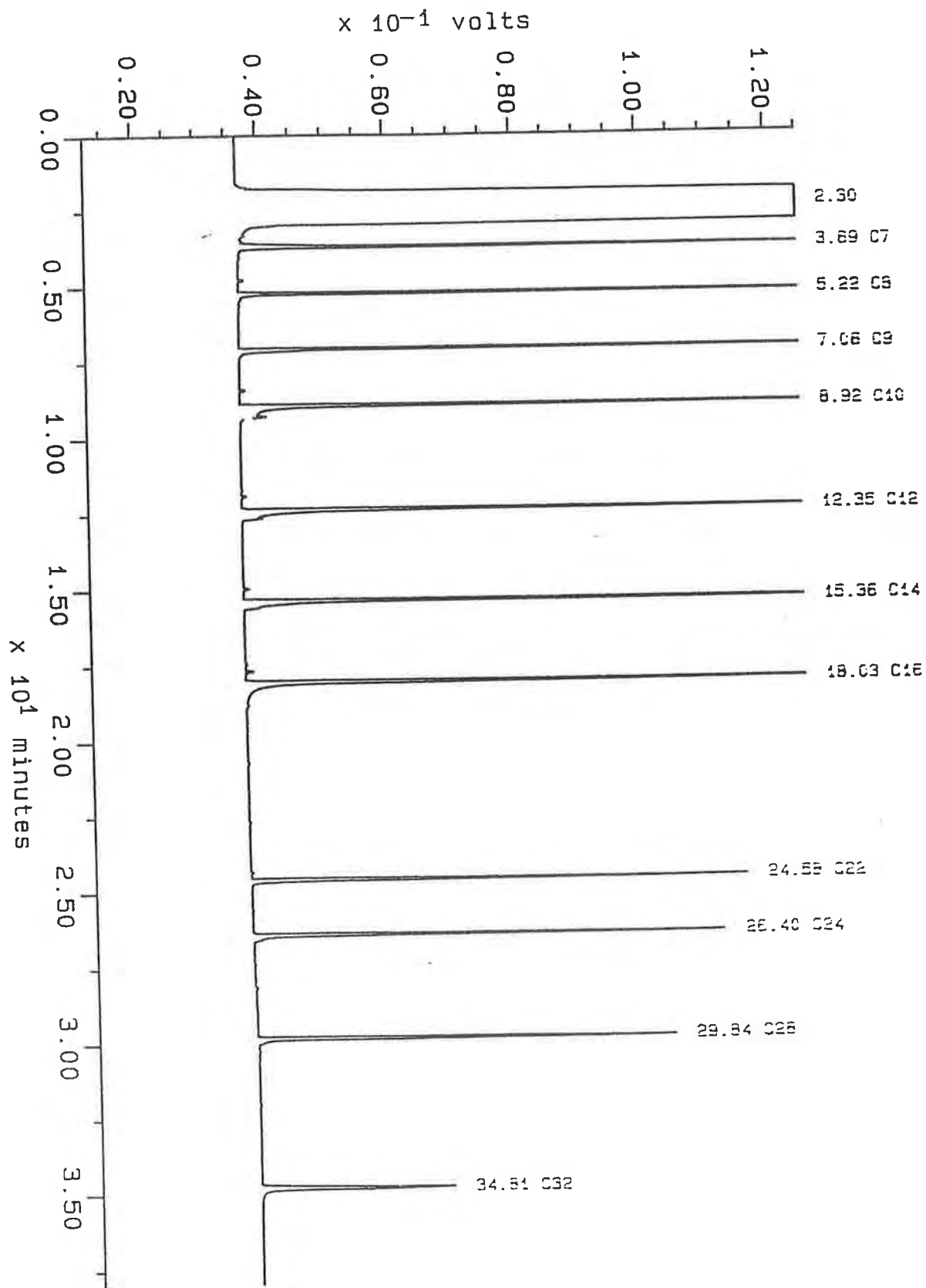


Sample: ALKANE
Acquired: 29-JAN-93 19: 44
Inj Vol: 1.00

Channel: DEMETRI
Method: H: \BR02\MAXDATA\SERGE-D\FUEL0129

Filename: R1298D02
Operator: ATI

Alkane

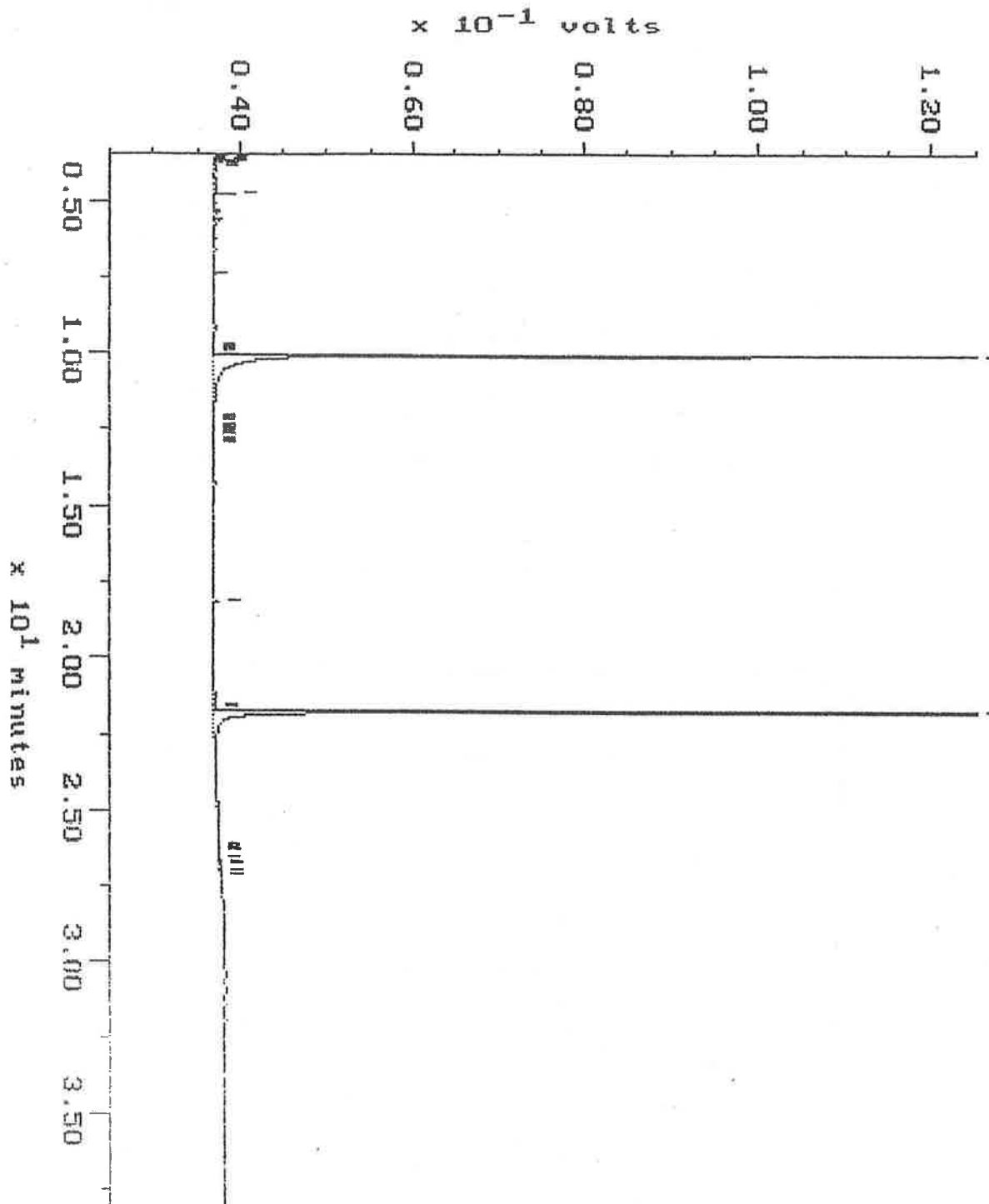


Blank

Sample: SRB 2-5
Acquired: 05-FEB-93 18:50

Channel: DEMITRI
Method: H:\BRQ2\MAXDATA\SERGE-D\FUEL0205

Filename: R2058D03
Operator: ATI

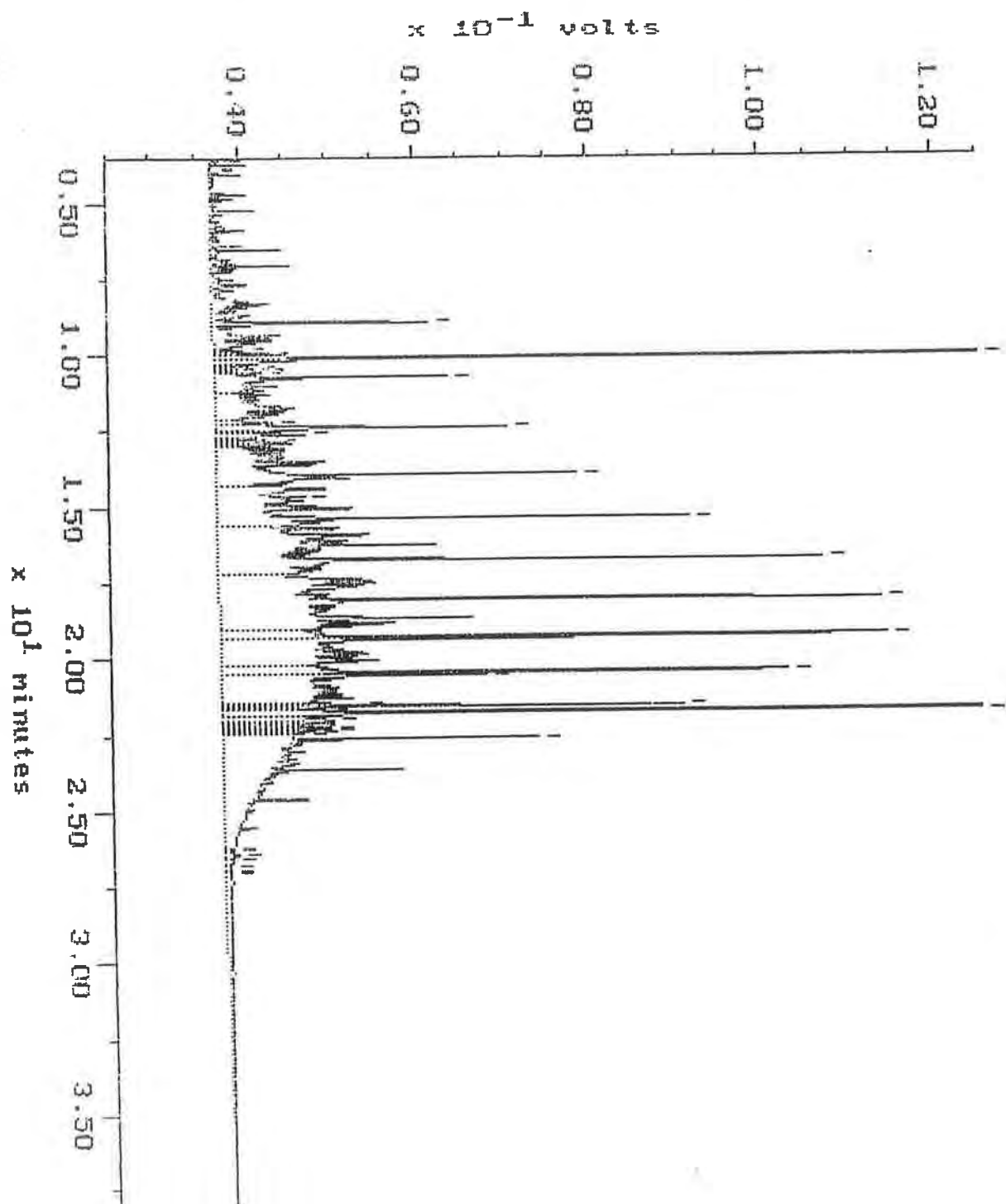


Continuing Calibration

Sample: D 500
Acquired: 05-FEB-93 17:17

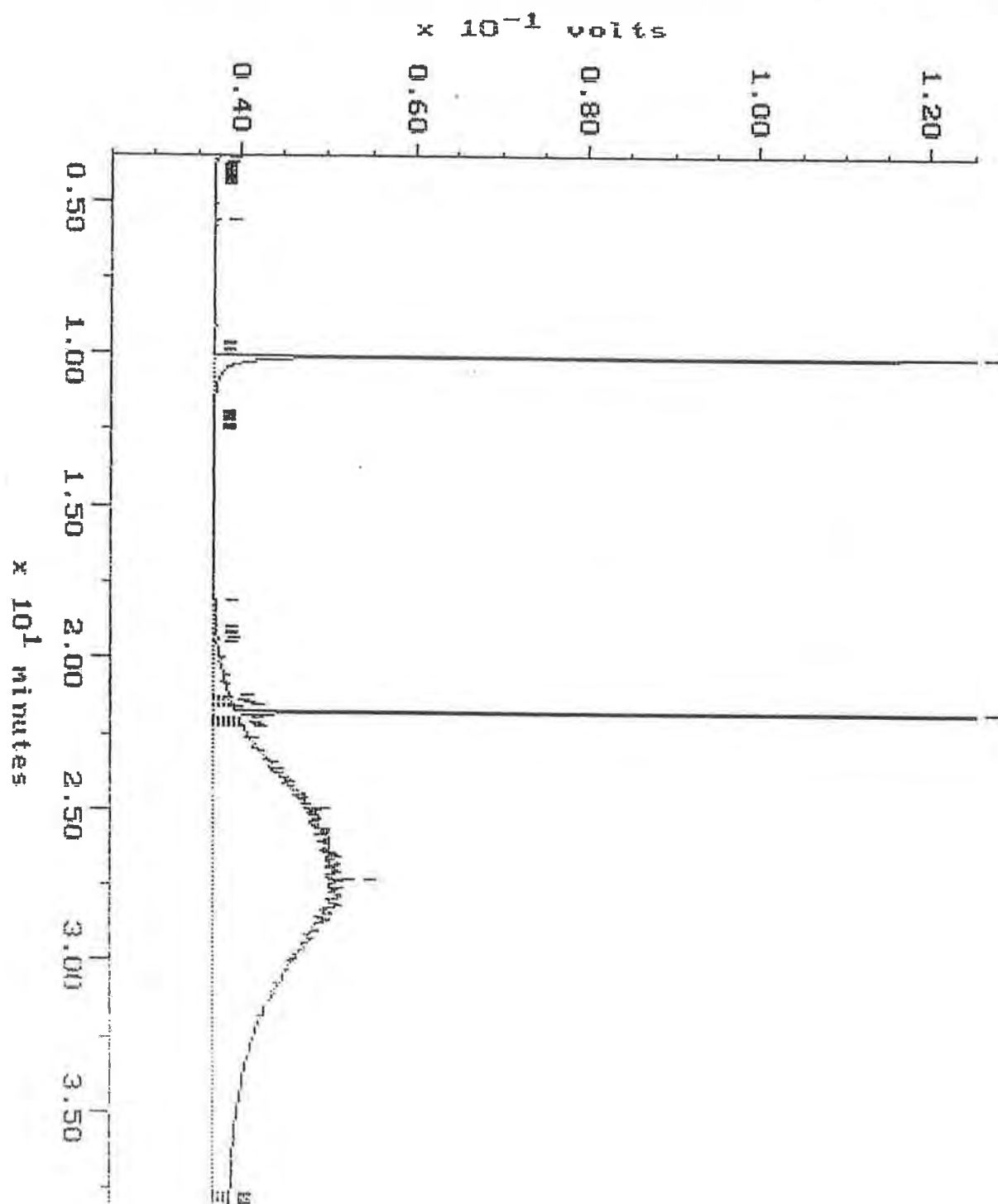
Channel: DENITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL0205

Filename: R205ED01
Operator: AT1



Continuing Calibration

Sample: NO 530 Channel: DEMITRI Filename: R2058D02
Acquired: 05-FEB-93 18:04 Method: H:\BRO2\MAXDATA\SERGE-D\FUEL0205 Operator: ATI
Comments: ATI RUSH FUELS: PROVIDERS OF EXCELLENCE AND QUALITY IN CLIENT SERVICE



B - 398



Analytical**Technologies, Inc.**

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John H. Taylor, Jr., Laboratory Manager
Frederick W. Grothkopp, Technical Director

ATI I.D. # 9302-030

February 26, 1993

GeoEngineers, Inc.
8410 154th Ave. N.E.
Redmond WA 98052

GeoEngineers

MAR 01 1993

Routing

File

Attention : Don Hanson


Project Number : 1957-009-R04

Project Name : Time Oil Jackpot

Dear Mr. Hanson:

On February 4, 1993, Analytical Technologies, Inc. (ATI), received 13 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.

Sincerely,


Mary C. Silva
Senior Project Manager

MCS/hal/dmc

Enclosure

ATI I.D. # 9302-030

SAMPLE CROSS REFERENCE SHEET

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9302-030-1	B-1-7, 23.5'	02/01/93	SOIL
9302-030-2	B-2-3, 11.5'	02/01/93	SOIL
9302-030-3	B-3-2, 13.5'	02/02/93	SOIL
9302-030-4	B-3-3, 18.5'	02/02/93	SOIL
9302-030-5	B-3-5, 29'	02/02/93	SOIL
9302-030-6	B-3-7, 39'	02/02/93	SOIL
9302-030-7	B-4-7, 34'	02/02/93	SOIL
9302-030-8	B-5-7, 34'	02/02/93	SOIL
9302-030-9	B-6-6, 29'	02/03/93	SOIL
9302-030-10	B-7-2, 9.5'	02/03/93	SOIL
9302-030-11	B-7-3, 14.5'	02/03/93	SOIL
9302-030-12	B-7-7, 34.5'	02/03/93	SOIL
9302-030-13	B-7-9, 44.5'	02/03/93	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 the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ATI I.D. # 9302-030

ANALYTICAL SCHEDULE

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-G	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
LEAD	ICAP	EPA 6010	R
MOISTURE	GRAVIMETRIC	CLP SOW ILMO1.0	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

ATI I.D. # 9302-030

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : METHOD BLANK
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-G - 8020 (BETX)
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : N/A
 DATE RECEIVED : N/A
 DATE EXTRACTED : 02/04/93
 DATE ANALYZED : 02/04/93
 UNITS : mg/Kg
 DILUTION FACTOR : 1

 COMPOUNDS

RESULTS

 BENZENE <0.025
 ETHYLBENZENE <0.025
 TOLUENE <0.025
 TOTAL XYLENES <0.025

FUEL HYDROCARBONS <5
 HYDROCARBON RANGE TOLUENE TO DODECANE
 HYDROCARBON QUANTITATION USING GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	92	52 - 116
TRIFLUOROTOLUENE	90	50 - 150

ATI I.D. # 9302-030

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : N/A
PROJECT # : 1957-009-R04	DATE RECEIVED : N/A
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 02/09/93
CLIENT I.D. : METHOD BLANK	DATE ANALYZED : 02/09/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-G - 8020 (BETX)	DILUTION FACTOR : 1

RESULTS ARE CORRECTED FOR MOISTURE CONTENT

COMPOUNDS	RESULTS
BENZENE	<0.025
ETHYLBENZENE	<0.025
TOLUENE	<0.025
TOTAL XYLENES	<0.025
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
BROMOFLUOROBENZENE	81	52 - 116
TRIFLUOROTOLUENE	94	50 - 150

ATI I.D. # 9302-030-1

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : B-1-7, 23.5'
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-G - 8020 (BETX)
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/01/93
 DATE RECEIVED : 02/04/93
 DATE EXTRACTED : 02/04/93
 DATE ANALYZED : 02/05/93
 UNITS : mg/Kg
 DILUTION FACTOR : 1

 COMPOUNDS

RESULTS

BENZENE	<0.027
ETHYLBENZENE	<0.027
TOLUENE	<0.027
TOTAL XYLENES	<0.027

FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	88	52 - 116
TRIFLUOROTOLUENE	78	50 - 150

ATI I.D. # 9302-030-2

BETX - GASOLINE
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 02/01/93
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 02/04/93
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/04/93
CLIENT I.D.	: B-2-3, 11.5'	DATE ANALYZED	: 02/04/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-G - 8020 (BETX)	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDS

RESULTS

BENZENE	<0.027
ETHYLBENZENE	<0.027
TOLUENE	0.072
TOTAL XYLENES	0.076
FUEL HYDROCARBONS	6
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	88	52 - 116
TRIFLUOROTOLUENE	74	50 - 150



ATI I.D. # 9302-030-4

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : B-3-3, 18.5'
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-G - 8020(BETX)
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/02/93
DATE RECEIVED : 02/04/93
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/05/93
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUNDS

RESULTS

BENZENE	<0.027
ETHYLBENZENE	<0.027
TOLUENE	0.052
TOTAL XYLENES	0.033
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	79	52 - 116
TRIFLUOROTOLUENE	74	50 - 150

ATI I.D. # 9302-030-5

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 02/02/93
PROJECT # : 1957-009-R04	DATE RECEIVED : 02/04/93
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 02/04/93
CLIENT I.D. : B-3-5, 29'	DATE ANALYZED : 02/05/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-G - 8020 (BETX)	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUNDS

RESULTS

BENZENE	<0.027
ETHYLBENZENE	<0.027
TOLUENE	0.037
TOTAL XYLENES	0.033
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	91	52 - 116
TRIFLUOROTOLUENE	78	50 - 150

ATI I.D. # 9302-030-7

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : B-4-7, 34'
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-G - 8020 (BETX)
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/02/93
 DATE RECEIVED : 02/04/93
 DATE EXTRACTED : 02/04/93
 DATE ANALYZED : 02/05/93
 UNITS : mg/Kg
 DILUTION FACTOR : 1

 COMPOUNDS

RESULTS

 BENZENE <0.027
 ETHYLBENZENE <0.027
 TOLUENE <0.027
 TOTAL XYLENES <0.027

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

13
 TOLUENE TO DODECANE
 GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	90	52 - 116
TRIFLUOROTOLUENE	78	50 - 150

ATI I.D. # 9302-030-8

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 02/02/93
PROJECT # : 1957-009-R04	DATE RECEIVED : 02/04/93
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 02/04/93
CLIENT I.D. : B-5-7, 34'	DATE ANALYZED : 02/05/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-G - 8020 (BETX)	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUNDS	RESULTS
BENZENE	<0.027
ETHYLBENZENE	<0.027
TOLUENE	<0.027
TOTAL XYLENES	<0.027
FUEL HYDROCARBONS	11
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
BROMOFLUOROBENZENE	87	52 - 116
TRIFLUOROTOLUENE	72	50 - 150

ATI I.D. # 9302-030-9

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : B-6-6, 29'
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-G - 8020 (BETX)
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/03/93
DATE RECEIVED : 02/04/93
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/05/93
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUNDS

RESULTS

BENZENE	<0.027
ETHYLBENZENE	<0.027
TOLUENE	<0.027
TOTAL XYLENES	<0.027

FUEL HYDROCARBONS	8
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	88	52 - 116
TRIFLUOROTOLUENE	74	50 - 150

ATI I.D. # 9302-030-10

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 02/03/93
PROJECT # : 1957-009-R04	DATE RECEIVED : 02/04/93
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 02/09/93
CLIENT I.D. : B-7-2, 9.5'	DATE ANALYZED : 02/09/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-G - 8020 (BETX)	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUNDS

RESULTS

BENZENE	<0.027
ETHYLBENZENE	<0.027
TOLUENE	<0.027
TOTAL XYLENES	<0.027
FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	76	52 - 116
TRIFLUOROTOLUENE	72	50 - 150

ATI I.D. # 9302-030-11

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : B-7-3, 14.5'
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-G - 8020 (BETX)
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/03/93
 DATE RECEIVED : 02/04/93
 DATE EXTRACTED : 02/04/93
 DATE ANALYZED : 02/05/93
 UNITS : mg/Kg
 DILUTION FACTOR : 1

 COMPOUNDS

RESULTS

BENZENE	<0.027	
ETHYLBENZENE	<0.027	
TOLUENE		0.032
TOTAL XYLENES		0.039

FUEL HYDROCARBONS
 HYDROCARBON RANGE
 HYDROCARBON QUANTITATION USING

15
 TOLUENE TO DODECANE
 GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	91	52 - 116
TRIFLUOROTOLUENE	78	50 - 150

ATI I.D. # 9302-030-12

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 02/03/93
PROJECT # : 1957-009-R04	DATE RECEIVED : 02/04/93
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 02/04/93
CLIENT I.D. : B-7-7, 34.5'	DATE ANALYZED : 02/05/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-G - 8020(BETX)	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUNDS

RESULTS

BENZENE	0.034
ETHYLBENZENE	0.69
TOLUENE	1.1
TOTAL XYLENES	5.1
FUEL HYDROCARBONS	120
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	91	52 - 116
TRIFLUOROTOLUENE	78	50 - 150

ATI I.D. # 9302-030-13

BETX - GASOLINE
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
 PROJECT # : 1957-009-R04
 PROJECT NAME : TIME OIL JACKPOT
 CLIENT I.D. : B-7-9, 44.5'
 SAMPLE MATRIX : SOIL
 METHOD : WA DOE WTPH-G - 8020 (BETX)
 RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/03/93
 DATE RECEIVED : 02/04/93
 DATE EXTRACTED : 02/04/93
 DATE ANALYZED : 02/05/93
 UNITS : mg/Kg
 DILUTION FACTOR : 1

 COMPOUNDS

RESULTS

BENZENE	<0.026
ETHYLBENZENE	<0.026
TOLUENE	<0.026
TOTAL XYLENES	<0.026

FUEL HYDROCARBONS	<5
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	92	52 - 116
TRIFLUOROTOLUENE	78	50 - 150

ATI I.D. # 9302-030

PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
EPA METHOD : WA DOE WTPH-G

SAMPLE I.D. # : 9302-030-7
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/05/93
UNITS : mg/Kg

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
GASOLINE	243	297	20	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPI
GASOLINE						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.	LIMITS		
TRIFLUOROTOLUENE				78		77		50 - 150	

ATI I.D. # 9302-030

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.	SAMPLE I.D. # : 9302-026-3
PROJECT # : 1957-009-R04	DATE EXTRACTED : 02/04/93
PROJECT NAME : TIME OIL JACKPOT	DATE ANALYZED : 02/04/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
EPA METHOD : WA DOE WTPH-G - 8020 (BETX)	

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	0.0595	N/A	N/A	1.00	0.935	88	0.928	87	1
TOLUENE	<0.0250	N/A	N/A	1.00	0.911	91	0.920	92	1
TOTAL XYLENES	<0.0250	N/A	N/A	2.00	1.87	94	1.91	96	2
GASOLINE	<5	<5	NC	50.0	46.5	93	42.8	86	8
CONTROL LIMITS						% REC.	RPD		
BENZENE						35 - 113	20		
TOLUENE						43 - 107	20		
TOTAL XYLENES						46 - 114	20		
GASOLINE						50 - 112	20		
SURROGATE RECOVERIES				SPIKE		DUP. SPIKE	LIMITS		
BROMOFLUOROBENZENE				87		87	52 - 116		
TRIFLUOROTOLUENE				76		76	50 - 150		

NC = Not Calculable.

ATI I.D. # 9302-030

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9302-058-2
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 02/09/93
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 02/09/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: WA DOE WTPH-G - 8020 (BETX)		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	<0.0250	N/A	N/A	1.00	0.675	68	0.687	69	2
TOLUENE	<0.0250	N/A	N/A	1.00	0.719	72	0.733	73	2
TOTAL XYLENES	<0.0250	N/A	N/A	2.00	1.42	71	1.45	73	2
GASOLINE	<5	<5	NC	50.0	40.9	82	42.8	86	5
CONTROL LIMITS						% REC.	RPD		
BENZENE						35 - 113	20		
TOLUENE						43 - 107	20		
TOTAL XYLENES						46 - 114	20		
GASOLINE						50 - 112	20		
SURROGATE RECOVERIES				SPIKE		DUP. SPIKE	LIMITS		
BROMOFLUOROBENZENE				68		67	52 - 116		
TRIFLUOROTOLUENE				72		73	50 - 150		

NC = Not Calculable.

ATI I.D. # 9302-030

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
EPA METHOD : WA DOE WTPH-G - 8020 (BETX)

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.0250	1.00	1.00	100	N/A	N/A	N/A
TOLUENE	<0.0250	1.00	1.03	103	N/A	N/A	N/A
TOTAL XYLENES	<0.0250	2.00	2.04	102	N/A	N/A	N/A
GASOLINE	<5	50.0	49.4	99	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
BENZENE	63 - 115	20
TOLUENE	75 - 110	20
TOTAL XYLENES	79 - 109	20
GASOLINE	80 - 119	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	94	N/A	52 - 116
TRIFLUOROTOLUENE	94	N/A	50 - 150

ATI I.D. # 9302-030

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: BLANK SPIKE
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 02/09/93
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 02/09/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
EPA METHOD	: WA DOE WTPH-G - 8020 (BETX)		

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPI
BENZENE	<0.0250	1.00	0.897	90	N/A	N/A	N/A
TOLUENE	<0.0250	1.00	0.950	95	N/A	N/A	N/A
TOTAL XYLENES	<0.0250	2.00	1.87	94	N/A	N/A	N/A
GASOLINE	<5	50.0	46.0	92	N/A	N/A	N/A

CONTROL LIMITS

	% REC.	RPI
BENZENE	63 - 115	20
TOLUENE	75 - 110	20
TOTAL XYLENES	79 - 109	20
GASOLINE	80 - 119	20

SURROGATE RECOVERIES

	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	85	N/A	52 - 116
TRIFLUOROTOLUENE	96	N/A	50 - 150



ATI I.D. # 9302-030

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : METHOD BLANK
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<10
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<40
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

88

50 - 150

ATI I.D. # 9302-030-1

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 02/01/93
PROJECT # : 1957-009-R04	DATE RECEIVED : 02/04/93
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 02/04/93
CLIENT I.D. : B-1-7, 23.5'	DATE ANALYZED : 02/04/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<11
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<43
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

79

50 - 150

ATI I.D. # 9302-030-4

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : B-3-3, 18.5'
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/02/93
DATE RECEIVED : 02/04/93
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<11
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<44
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

87

50 - 150

ATI I.D. # 9302-030-5

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 02/02/93
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 02/04/93
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/04/93
CLIENT I.D.	: B-3-5, 29'	DATE ANALYZED	: 02/04/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDS

RESULTS

FUEL HYDROCARBONS	<11
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<43
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	82	50 - 150
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ATI I.D. # 9302-030-7

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : B-4-7, 34'
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

DATE SAMPLED : 02/02/93
DATE RECEIVED : 02/04/93
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/05/93
UNITS : mg/Kg
DILUTION FACTOR : 1

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<11
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<43
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

83

50 - 150

ATI I.D. # 9302-030-8

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 02/02/93
PROJECT # : 1957-009-R04	DATE RECEIVED : 02/04/93
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 02/04/93
CLIENT I.D. : B-5-7, 34'	DATE ANALYZED : 02/05/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<11
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<43
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

84

50 - 150

FROM TOC ENVIR SERV. 12/15/92 12:12 P.12

FRIEDMAN & BRUYA, INC.
ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR VOLATILE ORGANIC COMPOUNDS
BY GC/FID-ECD
Results Reported as ng/g (ppb)

<u>Sample #</u>	<u>1284-0102-12-12'</u>
<u>Analyte:</u>	
1,1-Dichloroethylene	10
Methylene Chloride	10
t-Dichloroethylene	4
1,1-Dichloroethane	<1
Chloroform	<1
1,1,1-Trichloroethane	<1
Carbon Tetrachloride	<1
Benzene	<1
Trichloroethylene	<1
Toluene	8
Tetrachloroethylene	<1
Ethylbenzene	36
m,p-Xylenes	220
o-Xylene	190

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
 Date Submitted: January 4, 1991
 Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
 FOR VOLATILE ORGANIC COMPOUNDS
 BY GC/FID-ECD
 Results Reported as ng/g (ppb)
Quality Assurance

<u>Sample #</u>	<u>Blank</u>	1284-0102-12-12' (Duplicate)
<u>Analyte:</u>		
1,1-Dichloroethylene	<1	<1
Methylene Chloride	<1	10
t-Dichloroethylene	<1	5
1,1-Dichloroethane	<1	<1
Chloroform	<1	<1
1,1,1-Trichloroethane	<1	<1
Carbon Tetrachloride	<1	<1
Benzene	<1	<1
Trichloroethylene	<1	<1
Toluene	<1	20
Tetrachloroethylene	<1	<1
Ethylbenzene	<1	64
m,p-Xylenes	<1	400
o-Xylene	<1	410

FROM TOC ENUIR SERU 12/15/92 12:18 P.14
FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR VOLATILE ORGANIC COMPOUNDS
BY GC/FID-ECD
Results Reported as ng/g (ppb)
Quality Assurance

1284-0102-12-12'	
<u>Matrix Spike</u>	
<u>Spiked @ 1,000 ppb</u>	
<u>Sample #</u>	<u>% Recovery</u>
<u>Analyte:</u>	
1,1-Dichloroethylene	110%
Methylene Chloride	130%
c-Dichloroethylene	98%
1,1-Dichloroethane	120%
Chloroform	130%
1,1,1-Trichloroethane	87%
Carbon Tetrachloride	79%
Benzene	120%
Trichloroethylene	110%
Toluene	120%
Tetrachloroethylene	91%
Ethylbenzene	110%
m,p-Xylenes	98%
o-Xylene	110%

* Insufficient sample for MSD analysis.

1-736-A

[illegible]

* S = Soil W = Water P = Product

Reinforced By:

Received By:

Date & Time

Willingulshad Av.

Received For LAB By:

Date & Time:

Please provide the requested information

- NOTIFY TIME OIL CO. BEFORE DISPOSAL

IMPORTANT! PLEASE RETURN A COPY OF THIS FORM WITH YOUR REPORT TO TIME OIL CO.
Attn: Environmental Manager, PO Box 24447 Terminal Sta., Seattle, WA 98124 (206) 285-2400

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/08/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/09/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/09/92
CLIENT I.D.	: HW-4	DATE ANALYZED	: 12/10/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 10
RESULTS CORRECTED FOR THE MOISTURE CONTENT		%MOISTURE	: 13.0

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

1200
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

~~1100~~ 6600 1A 12-14-92
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

101

50-150

Motor Oil value from a 1:50 dilution, file # 12/15D04 12-14-92

Analyst C 14 Date 12-10-92
Reviewer 11 Date 12-14-92

Page 1

Sample File : 1209ER23

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/08/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/09/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/09/92
CLIENT I.D.	: HW-2	DATE ANALYZED	: 12/09/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS CORRECTED FOR THE MOISTURE CONTENT		%MOISTURE	: 10.0

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<28
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<110
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

78

50-150

Analyst C-17 Date 11-10-92
Reviewer 11/14 Date 12-14-92

Page 1

Sample File : 1209ER13

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT :	DATE SAMPLED :	N/A
PROJECT # :	DATE RECEIVED :	N/A
PROJECT NAME :	DATE EXTRACTED :	12/10/92
CLIENT I.D. :	DATE ANALYZED :	12/11/92
SAMPLE MATRIX : SOIL <i>WP-1</i>	UNITS :	mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR :	5
RESULTS CORRECTED FOR THE MOISTURE CONTENT	%MOISTURE :	15.0

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

220
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

1700
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

81

50-150

Analyst *just* Date *12-14-91*
Reviewer *[signature]* Date *12-14-92*

Page 1

Sample File : 1211SD08

TOTAL PETROLEUM HYDROCARBONS -
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
CLIENT I.D. : DSP-2
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D
RESULTS CORRECTED FOR THE MOISTURE CONTENT

DATE SAMPLED : 12/08/92
DATE RECEIVED : 12/09/92
DATE EXTRACTED : 12/09/92
DATE ANALYZED : 12/10/92
UNITS : mg/Kg
DILUTION FACTOR : 20
%MOISTURE : 11.0

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

1300
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

8100
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

92

50-150

Analyst CH Date 12-10-92
Reviewer /// Date 12-14-92

Page 1

Sample File : 1209ER18

pgies, Inc.

DATE: 12-9-92

Page 1 of 1

ATI ACCESSION #

9212-

[illegible]

C - 26

Total # of Containers/sample	
------------------------------	--

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

ATI I.D. # 9212-040-6

DRAFT

[illegible]

11:4 11:21 26/51/21 FROM TOC ENVIR SERV.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
 Date Submitted: January 4, 1991
 Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
 FOR VOLATILE ORGANIC COMPOUNDS
 BY GC/FID-ECD
 Results Reported as ng/g (ppb)**

<u>Sample #</u>	<u>1204-0102- 8-7'</u>	<u>1204-0102- 9-10'</u>	<u>1284-0102- 10-10'</u>	<u>1284-0102- 11-11'</u>
<u>Analytc:</u>				
1,1-Dichloroethylene	9	7	2	1
Methylene Chloride	160	20	10	10
t-Dichloroethylene	10	<1	2	1
1,1-Dichloroethane	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1
Carbon Tetrachloride	<1	<1	<1	<1
Benzene	<1	<1	<2	<1
Trichloroethylene	<1	<1	<1	<1
Toluene	4	<1	98	<1
Tetrachloroethylene	<1	<1	<2	<1
Ethylbenzene	5	<1	170	28
m,p-Xylenes	28	<1	650	220
o-Xylene	26	<1	750	200

01-15-92 12:10 P.10
FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

FROM TOC ENVIR SERV.

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261

Results Reported as mg/L (ppm)
Quality Assurance

<u>Sample #</u>	<u>Blank</u>	<u>Regulatory Level</u>
<u>Analyte:</u>		
Arsenic	0.02	5.0
Barium	<0.01	100
Cadmium	<0.01	1.0
Chromium	<0.01	5.0
Lead	<0.01	5.0
Mercury	<0.01	0.2
Selenium	<0.01	1.0
Silver	<0.01	5.0

FROM TOP ENVR SERU. 12/15/92 12:10 P. 9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
 Date Submitted: January 4, 1991
 Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
 FOR TCLP METALS IN ACCORDANCE WITH
 40 CFR PART 261
 Results Reported as mg/L (ppm)**

<u>Sample #</u>	<u>1284-0108-W01</u>	<u>Regulatory Level</u>
<u>Analyte:</u>		
Arsenic	0.04 ^b	5.0
Barium	0.78	100
Cadmium	<0.01	1.0
Chromium	<0.01	5.0
Lead	4.9	5.0
Mercury	<0.01	0.2
Selenium	0.03	1.0
Silver	<0.01	5.0

^b - The analyte indicated was also found in the blank sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as % Recovery
TCLP Extract Spiked at the Indicated Level
Quality Assurance

<u>Sample #</u>	1284-0102-11-11' <u>Matrix Spike</u> spiked @ 5 ppm % Recovery	1284-0102-11-11' <u>Matrix Spike Duplicate</u> Spiked @ 5 ppm % Recovery
<u>Analyte:</u>		
Arsenic	100%	102%
Barium	92%	82%
Cadmium	120%	93%
Chromium	112%	93%
Lead	104%	84%
Mercury	70%	63%
Selenium	106%	94%
Silver	55%	37%

2 7 8 80:21 26/51/21 12/15/92 12:08 P. 7 FROM TOC ENVR SFRU

FRIEDMAN & BRUYA, INC.
ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as mg/L (ppm)
Quality Assurance**

<u>Sample #</u>	<u>Blank</u>	<u>1284-0102-11-11'</u> <u>Replicate</u>	<u>Regulatory</u> <u>Level</u>
<u>Analyte:</u>			
Arsenic	0.01	0.02 ^a	5.0
Barium	0.02	0.52 ^a	100
Cadmium	<0.01	<0.01	1.0
Chromium	0.06	0.01 ^a	5.0
Lead	<0.01	0.04	5.0
Mercury	<0.01	<0.01	0.2
Selenium	<0.01	0.02	1.0
Silver	<0.01	<0.01	5.0

^a - The analyte indicated was also found in the blank sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
 Date Submitted: January 4, 1991
 Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
 FOR TCLP METALS IN ACCORDANCE WITH
 40 CFR PART 261

Results Reported as mg/L (ppm)

<u>Sample #</u>	<u>1284-0102-10-10'</u>	<u>1284-0102-11-11'</u>	<u>Regulatory Level</u>
<u>Analyte:</u>			
Arsenic	0.03 ^a	0.02 ^a	5.0
Barium	0.70 ^a	0.44 ^a	100
Cadmium	<0.01	<0.01	1.0
Chromium	0.02 ^a	0.02 ^a	5.0
Lead	2.0	0.05	5.0
Mercury	<0.01	<0.01	0.2
Selenium	0.02	0.01	1.0
Silver	<0.01	<0.01	5.0

^a - The analyte indicated was also found in the blank sample.

FROM TOC ENVR SERU 12/15/82 12:07 P. 5

FRIEDMAN & BRUYA, INC.
ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as mg/L (ppm)**

<u>Sample #</u>	<u>1284-0102-8-7'</u>	<u>1284-0102-9-10'</u>	<u>Regulatory Level</u>
<u>Analyte:</u>			
Arsenic	0.03 ^a	0.03 ^a	5.0
Barium	1.3 ^a	0.32 ^a	100
Cadmium	<0.01	<0.01	1.0
Chromium	0.01 ^a	0.01 ^a	5.0
Lead	17	0.12	5.0
Mercury	<0.01	<0.01	0.2
Selenium	0.01	0.01	1.0
Silver	<0.01	<0.01	5.0

^a - The analyte indicated was also found in the blank sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
 Date Submitted: January 4, 1991
 Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
 FOR TOTAL PETROLEUM HYDROCARBONS
 BY IR (EPA METHOD 418.1)
 Results Reported as $\mu\text{g/g}$ (ppm)**

<u>Sample #</u>	<u>Total Petroleum Hydrocarbons (ppm)</u>
1284-0102-8-7'	4,000
1284-0102-9-10'	590
1284-0102-10-10'	4,700
1284-0102-11-11'	1,300
1284-0102-12-12'	900
<u>Quality Assurance</u>	
Method Blank	<10
1284-0102-12-12' (Duplicate)	820
1284-0102-12-12' (Matrix Spike) Spiked @ 100 ppm Percent Recovery	a
1284-0102-12-12' (Matrix Spike Duplicate) Spiked @ 100 ppm Percent Recovery	a

a - The amount spiked was insufficient to give meaningful recovery data.

E 'd 90:21 26/51/21
FRIEDMAN & BRUYA, INC.
ENVIRONMENTAL CHEMISTS

FROM TOC ENUIR SERV

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSIS OF THE SOIL SAMPLES
FOR PCB AS AROCHLOR 1254 BY GC/ECD
Results Reported as $\mu\text{g/g}$ (ppm)

<u>Sample #</u>	<u>PCB</u> (ppm)
1284-0102-8-7'	<1
1284-0102-9-10'	<1
1284-0102-10-10'	1
1284-0102-11-11'	<1
1284-0102-12-12'	<1

Quality Assurance

Method Blank	<1
1284-0102-8-7' (Duplicate)	<1
1284-0102-8-7' (Matrix Spike) Spiked @ 10 ppm Percent Recovery	64%
1284-0102-8-7' (Matrix Spike Duplicate) Spiked @ 10 ppm Percent Recovery	58%

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

January 17, 1991

Fred Proby, Project Leader
Time Oil Company
2737 West Commodore Way
Seattle, WA 98199

Dear Mr. Proby:

Enclosed are the results of the analyses of the samples submitted on January 4, 1991 from Project Des Moines Way 01-284, P.O. #17226.

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,



Tod S. Becherer, Chemist

TSD

Enclosures

Hauling Contractor:

Glacier Environmental Services, Inc.
12512 Evergreen Drive, Ste. A
Lynnwood, Washington 98037
Contact: Steve miles: 355-2826

Environmental Consultation Services:

GeoEngineers
8410 - 154th Ave. N.E.
Redmond, WA 98052
Contact: Donald E. Hanson: (206) 861-6000

◀ ◊ ▶

Thank you for your assistance in this matter. Please call if you require further information regarding this project.

Yours very truly,

GeoEngineers, Inc.


Donald E. Hanson
Project Manager

DEH:inc

Document ID: 1957009.SD

Attachments

cc: Time Oil Company
P.O. Box 24447
Seattle, Washington 98124-0447
Attention: Mr. Scott Sloan
(no attachments)

Woodworth and Company, Inc.
1200 East D Street
Tacoma, Washington 98421
Attention: Mr. Mike Skrivan
(no attachments)

organic compounds either were not detected or were detected at concentrations less than the MTCA Method A cleanup levels. PCBs were detected in one soil sample at a concentration of 1 mg/kg. Analytical data sheets for analyses conducted in January 1991 are attached.

About 30 cubic yards of petroleum-contaminated soil removed from this excavation was approved for disposal at Woodworth and Company based on the analytical tests of soil samples obtained from soil removed from the excavation. This soil was transported to Woodworth and Company in January 1991.

Additional excavation in the vicinity of the former heating oil and waste oil USTs is currently being conducted at the site. Soil samples have been obtained from contaminated soil as it has been excavated as indicated in Ecology's (Washington State Department of Ecology) Guidance for Remediation of Releases from Underground Storage Tanks. Four discrete samples (DSP-1 through DSP-4) of soil excavated in December 1992 have been analyzed for one or more of the following to date: diesel-range hydrocarbons by WTPH-D, heavy oil-range hydrocarbons by WTPH-D (extended to range C24-C34) and priority pollutant metals by EPA Method 6010.

Diesel-range hydrocarbons have been detected at concentrations of 220 mg/kg, 1,300 mg/kg, 5,900 mg/kg and 660 mg/kg in samples DSP-1 through DSP-4, respectively. Heavy-range hydrocarbons have been detected in these samples at concentrations of 1,700 mg/kg, 8,100 mg/kg, 37,000 mg/kg and 1,600 mg/kg, respectively. Analytical data sheets for analyses conducted on this soil to date are attached.

The contaminants present in the stockpiled soil are primarily heavy-range hydrocarbons (motor oil) and diesel-range hydrocarbons based on 1991 analytical data, soil analytical results from our current excavation and chromatographic analyses.

We estimate that approximately 700 cubic yards (1,260 tons) of soil will require disposal. The soil is currently stockpiled at the site.

We hope that this soil can be approved for disposal at the Woodworth facility based on analytical results received to date from this excavation.

The following contacts are included for your convenience:

Generator:

Time Oil Company

P.O. Box 24447

Seattle, Washington 98124-0447

Contact: Mr. Scott Sloan: 286-6457, or Ms. Anastasia Duarte: 286-4495

December 21, 1992

Geotechnical,
Geoenvironmental and
Geologic Services

Tacoma-Pierce County Health Department
Environmental Health Division
3629 South "D" Street
Tacoma, Washington 98408

Attention: Mr. David Bosch

Request for Soil Disposal
Time Oil Jackpot Food Mart
Property No. 01-295
Seattle, Washington
File No. 1957-009-R04

GeoEngineers is providing consulting services to Time Oil regarding the excavation and removal of petroleum-contaminated soil from their Jackpot Food Mart service station located at 12807 Des Moines Way in Seattle, Washington. On behalf of Time Oil we are requesting permission for disposal of soil from this site at Woodworth and Company, Inc. Soil from the same location at the jackpot site has previously been accepted for disposal at Woodworth. We would like to begin transporting material to Woodworth the week of December 21, 1992, if possible because we are under a time constraint and must finish site work prior to January 1, 1993. We would appreciate a response as soon as possible.

One heating oil UST and one waste oil UST were removed from the site between December 1990 and January 1991. Petroleum contamination was detected in the soil removed during the UST removal. Five soil samples were collected from the heating oil and waste oil UST excavation and were tested for TPH, TCLP lead, volatile organic compounds and PCBs (polychlorinated biphenyls). TPH was detected at concentrations exceeding the MTCA Method A cleanup level in the five samples from the heating oil and waste oil UST excavation. Volatile



GENERAL CONTRACTORS

WOODWORTH & COMPANY

1200 East D Street / Tacoma, Washington 98421 / Tacoma (206) 363-3505 / Seattle (206) 430-9090 / FAX 472-8549

BILL OF LADING

BILL OF LADING #:

DATE:

GENERATOR NAME/ADDRESS: <u>Turne Oil Company</u> <u>PO Box 24447</u> <u>Seattle, WA 98124-0047</u> <u>Anastasia Duarte</u> CONTACT/TEL #: <u>286-4495</u>	SITE OF GENERATION: STREET <u>12807 Des Moines Way</u> TOWN <u>Seattle</u> STATE <u>WA</u> TRANSPORT ACCIDENT <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
--	---

PCS (TOTAL PROJECTED QUANTITY): WT (tons) **VOL (cu yds)** 7

TYPE OF CONTAMINATION:

☐ GASOLINE ☒ DIESEL ☒ WASTE OIL 1992.

☐ KEROSENE ☐ OTHER (specify)

ANALYSIS ATTACHED:

☐ YES ☒ NO

LAB NAME: Analytical Technologies, Inc.

TRANSPORTER NAME/ADDRESS:

Glacier Environmental
12521 Evergreen Dr., Suite A
Lynnwood, WA 98037
Steve Milas
CONTACT/TEL #: 355-2826

DESTINATION NAME/ADDRESS:

WOODWORTH AND COMPANY, INC.
1200 EAST 'D' STREET
TACOMA, WASHINGTON, 98421
PH: (206) 363-3505

GENERATOR'S SIGNATURE: [Signature] for Turne Oil Co. **DATE:** 2-16-93

TRANSPORTER'S SIGNATURE: **DATE:**

MATERIALS RECEIVED AT PIT:

DATE:

QUANTITY RECEIVED: **TONS**

NUMBER OF TRUCKS DELIVERING:

SCAF FOLIOSE SIGNATURE:

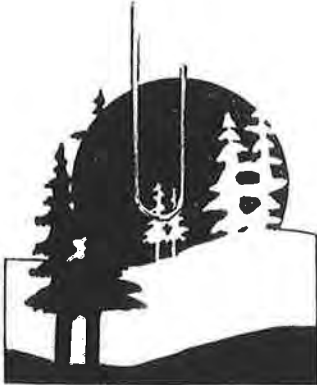
COMMENTS:

WOODWORTH & COMPANY, INC.
1200 East "D" Street
Tacoma, WA 98421

TESTED MATERIAL ACCEPTANCE AGREEMENT

[_____]

- A. TREATMENT SITE: 2800 - 104th Street South, Tacoma, WA.
- D. OWNER OF MATERIAL: Time Oil Company
1. Address: PO Box 24447, Seattle, WA 98124-0047
 2. Telephone: 206-286-6457
 3. Contractor License or Business License Number _____
 4. Contact Person: Scott Sloan or Anastasia Duarte
 5. Contact Person Telephone: 286-6457 or 286-4495
 6. EPA ID Number (if applicable): _____
- C. LOCATION OF THE MATERIAL:
1. Address of Location from which Material was removed:
12801 Des Moines Way, Seattle, WA
 - a. Date of Removal: 12/8/92 - 12/18/92
 2. Address of Current Location of Material:
same
- D. TYPE OF MATERIAL TO BE ACCEPTED: sand + gravel
petroleum-contaminated soil
- E. TREATMENT PRICE: Determined pursuant to Exhibit A attached hereto.
- F. TESTING LAB INFORMATION:
1. Name: Analytical Technologies Inc.
 2. Address: 5600 Naches Ave S., Renton, WA
 3. Telephone: 228-8335
 4. EPA Certification Date: _____
 5. Tests performed on the Material: EPA Methods 418.1, 8080, 8240, 8270, ~~8270~~ Ecology Methods WTPH-D
 - a. Date: 12/10 - 12/12/92
 - b. TPH Levels: 860 mg/kg - 57,000 mg/kg
 - c. Contain any PCB's, herbicides, pesticides or asbestos?: No.
 - d. Complete copy of test results attached hereto as Exhibit B. yes.
- G. TRANSPORTER:
1. Name: Glacier Environmental
 2. Address: 12521 Evergreen Drive, Suite A
Lynnwood, WA 98037
 3. Contact Person: Steve Miles
 4. Telephone: 833 (206) 355-1826
 5. Contractors' License Number or Business License Number: 601225417, Cont. Lic.: GLACIES108C7 Exp 2/9/93
 6. EPA ID Number (if applicable): _____



\$ 80 ⁰⁰

ALFRED M. ALLEN, M.D., M.P.H. • DIRECTOR OF HEALTH

**Tacoma-Pierce County
Health Department**

WASTE DISPOSAL AUTHORIZATION

Date: 12/23/92

- A. Generator Name: Time Oil (Jackpot Food Mart)
B. Generator Address: 12807 Des Moines Way, Seattle ^{→ site address}
C. Transporter Name: Glacier Environmental
D. Technical Contact: Don Hansen, GEO ^{Engineers} Phone: 861-6000
E. Waste Description: Waste oil contaminated soils
Liquid () Sludge () Other ()
F. Estimated Quantity: ~ 700 cubic yards
G. Total Actual Quantity (to be filled in upon disposal): _____
H. Multiple Loads: Yes (X) No ()
I. Dates of Disposal: Dec 23 1992 - Jan 23, 1993
J. Testing: VOCs, semi-VOC, TPH, metals, PCBs
K. Reviewed by Department of Ecology: Yes () No (X)
L. Disposal/Transportation Requirements: No free liquids.
May only transport soils described/characterized in letter dated
M. Waste Disposal Destination: () Fort Lewis Landfill 12/22/92.
() City of Tacoma () Thun Field () Purdy Landfill

(X) Woodworth PCS treatment facility **CERTIFICATION**

I hereby certify that I have personally examined and am familiar with the information submitted in this document. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete to the best of my knowledge and ability and that all known and suspected hazards have been disclosed.

12/23/92
Date

Staff 2 Geologist
Title

Christine Kimmel for
Signature
Time Oil

AUTHORIZATION SIGNATURE:

Daniel Busch

DEC 23 1992

APPENDIX C

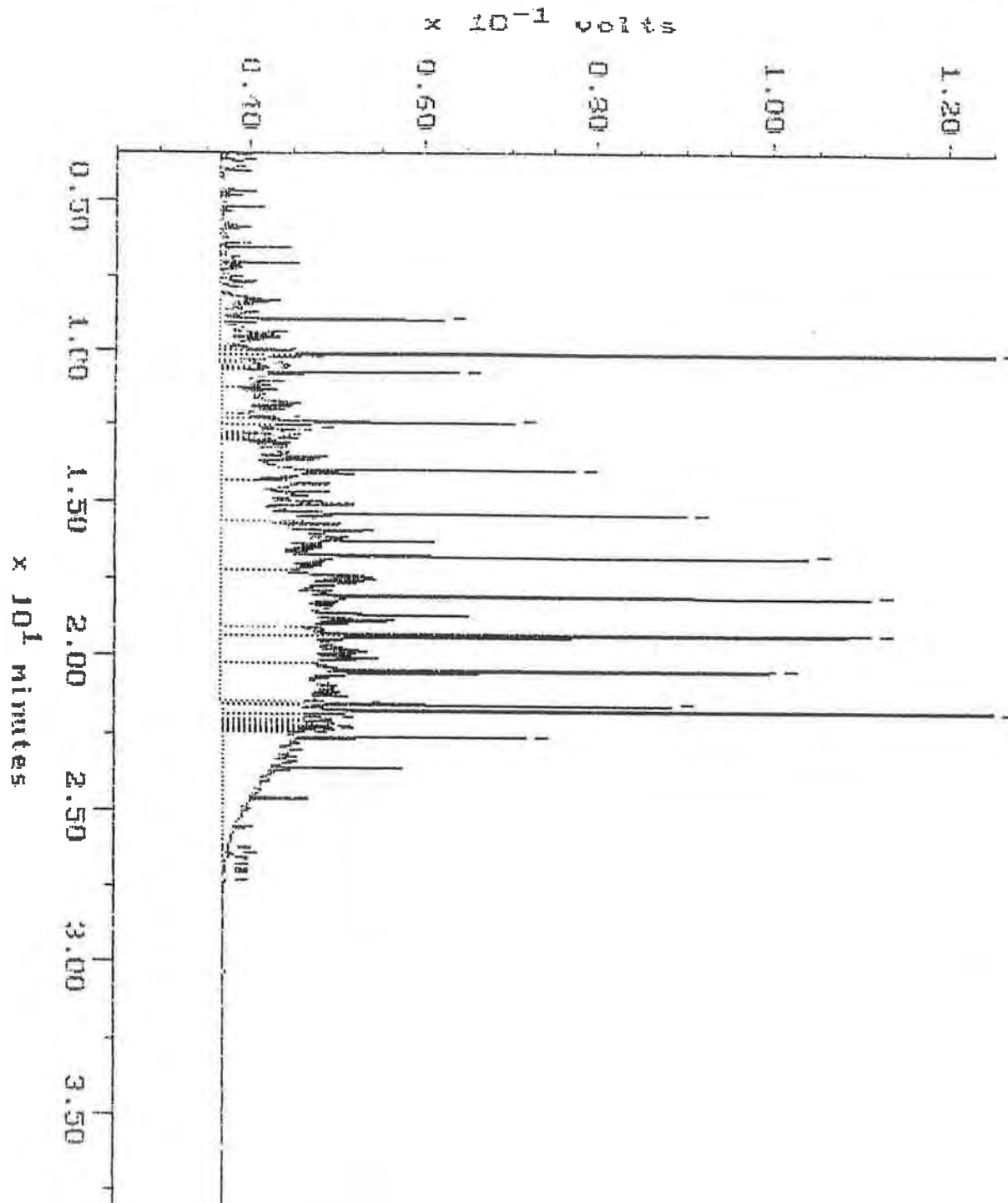
COMPANY: <i>ATI Analytical</i>			REPORT TO:			FUELS			ORGANIC COMPOUNDS			METALS			TCLP			OTHER					
ADDRESS: <i>1410 154th Ave SE</i>			PHONE: <i>(206) 866-1000 FAX: (206) 866-0050</i>			PROJECT MANAGER: <i>Don Henson</i>			PROJECT NUMBER: <i>1957-009-1204</i>			PROJECT NAME: <i>Time 211 Ticket</i>			ATTI will DISPOSE RETURN samples (circle one)			TPH-HCID			WA/OR		
Sample ID			Date			Time			Matrix			LabID			BETX/TPH-G combo			WA/OR					
B-1-9, 23.5'			2/1/93						Soil			1			BETX (by 8020)			WA/OR					
B-2-3, 11.5'			2/1/93						Soil			2			TPH-G / <i>BETX Combo</i>			WA/OR					
B-3-2, 13.5'			2/2/93						Soil			3			TPH-D (extended)			WA/OR					
B-3-3, 18.5'			2/2/93						Soil			4			8015 modified			WA/OR					
B-3-5, 24.1'			2/2/93						Soil			5			418.1			WA/OR					
B-3-7, 39.1'			2/2/93						Soil			6			413.2								
B-4-7, 34.1'			2/2/93						Soil			7			AK-GRO								
B-5-7, 34.1'			2/2/93						Soil			8			AK-DRO								
B-6-6, 29.1'			2/3/93						Soil			9			8240 GCMS Volatiles								
B-7-2, 24.5'			2/3/93						Soil			10			8270 GCMS Semivolatiles								
B-7-3, 14.5'			2/3/93						Soil			11			8080 Pesticides/PCBs								
B-7-7, 24.5'			2/3/93						Soil			12			PCB only (by 8080) STD/10 level								
B-7-9, 24.5'			2/3/93						Soil			13			8010 Halogenated VOCs								
Turnaround Time			Sample Receipt			Relinquished By:			Relinquished By:			Relinquished By:			Metals (Indicate below *)								
STANDARD TAT			TOTAL # CONTAINERS RECD			Date:			Date:			Date:			Total Lead								
1 WEEK TAT			COC SEALS PRESENT?			Time:			Time:			Time:			Priority Pollutant Metals (13)								
4 WORK DAY TAT			COC SEALS INTACT?			Time:			Time:			Time:			TAL Metals (23)								
3 WORK DAY TAT			RECEIVED COLD?			Time:			Time:			Time:			TCLP-Volatiles (ZHE-8240)								
2 WORK DAY TAT			RECEIVED INTACT?			Time:			Time:			Time:			TCLP-Semivolatiles (8270)								
24 HOUR TAT			RECEIVED VIA: <i>URGENT</i>			Time:			Time:			Time:			TCLP-Pesticides (8080)								
Special Instructions: <i>* = Field work call for analysis results</i>			Received By: <i>Don Henson</i>			Date: <i>2/5/93</i>			Received By: <i>Don Henson</i>			Date: <i>2/5/93</i>			TCLP-Herbicides (8150)								
* = Field work call for analysis results			Received By: <i>Don Henson</i>			Date: <i>2/5/93</i>			Received By: <i>Don Henson</i>			Date: <i>2/5/93</i>			TCLP-Metals (8 metals)								
* Metals needed:			Received By: <i>Don Henson</i>			Date: <i>2/5/93</i>			Received By: <i>Don Henson</i>			Date: <i>2/5/93</i>			% Moisture (please indicate)								
Corporate Offices: 5550 Morehouse Drive, San Diego, CA 92121 (619) 458-9141			Received By: <i>Don Henson</i>			Date: <i>2/5/93</i>			Received By: <i>Don Henson</i>			Date: <i>2/5/93</i>			Total # of Containers/sample								

Continuing Calibration

Sample: 0 500
Acquired: 04-FEB-93 14:26

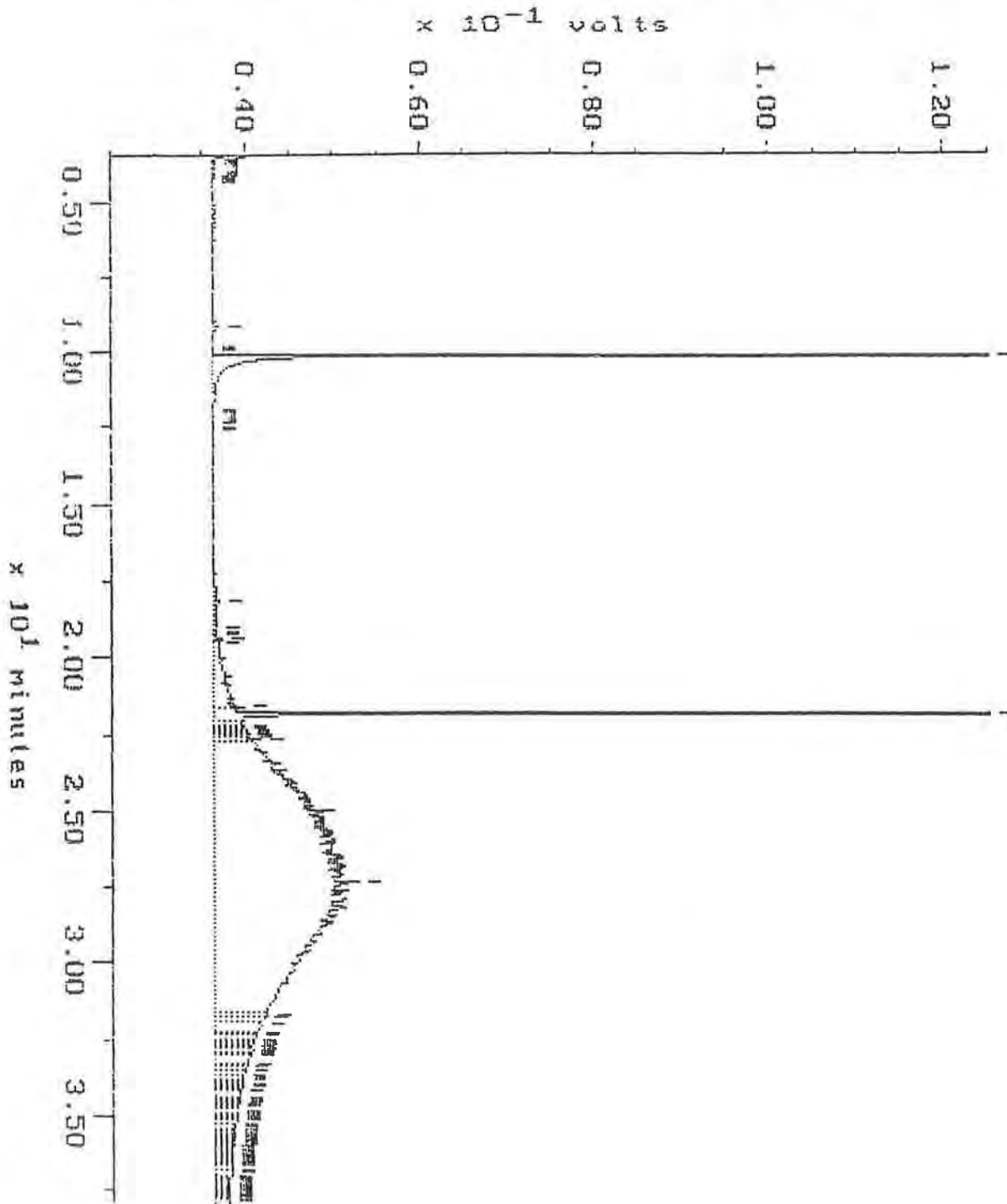
Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL0204

Filename: R2345001
Operator: ATI



Continuing Calibration

Sample: MO 530 Channel: DEMITRI Filename: R2042002
Acquired: 04-FEB-93 15:12 Method: H:\BRO2\MAXDATA\SERGE-D\FUEL0304 Operator: HTI
Comments: ATI RUSH FUELS: PROVIDERS OF EXCELLENCE AND QUALITY IN CLIENT SERVICE



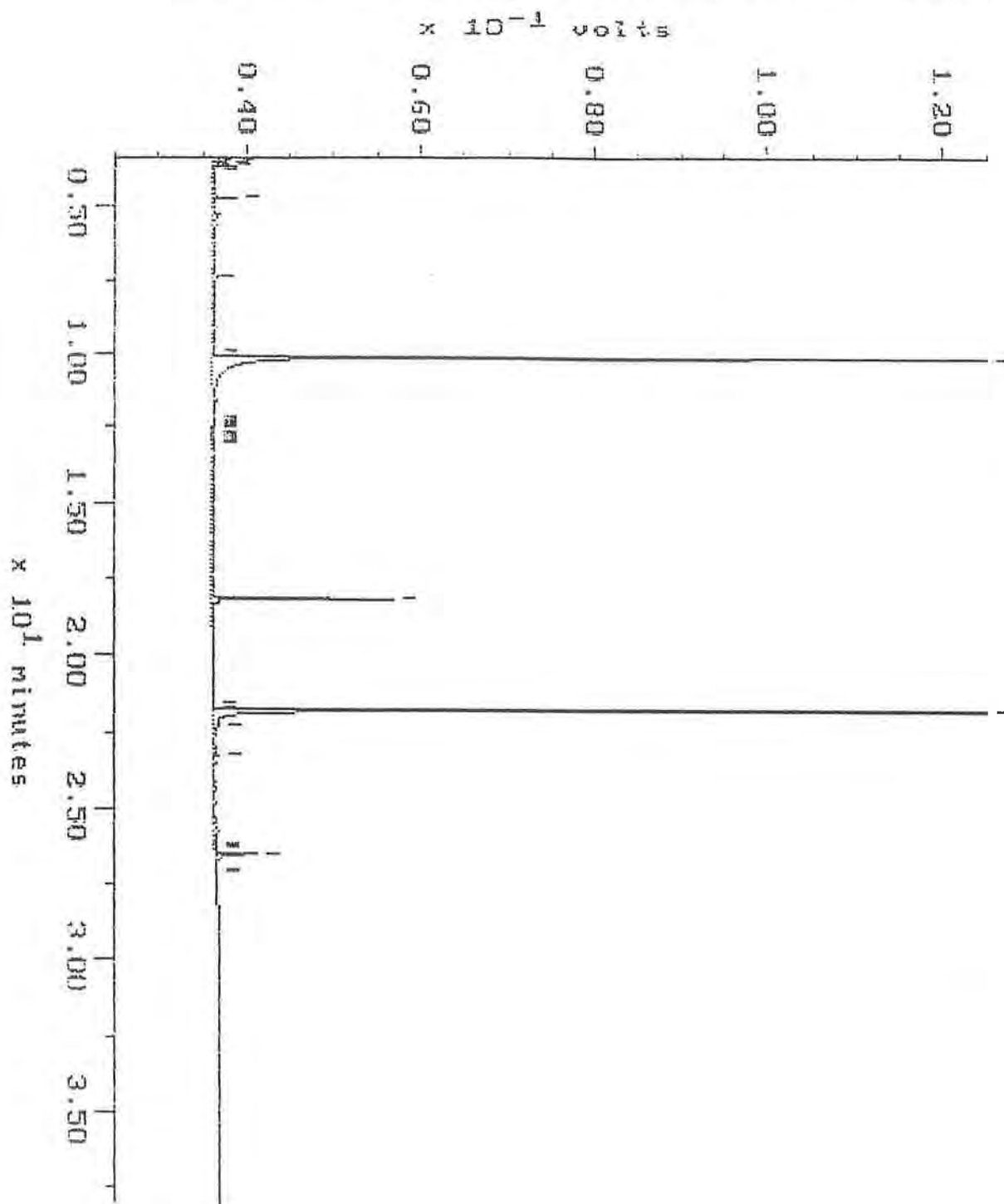
Blank

WA DOE WTPH-D

Sample: SRB 2-4
Acquired: 04-FEB-93 17:23

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL3204

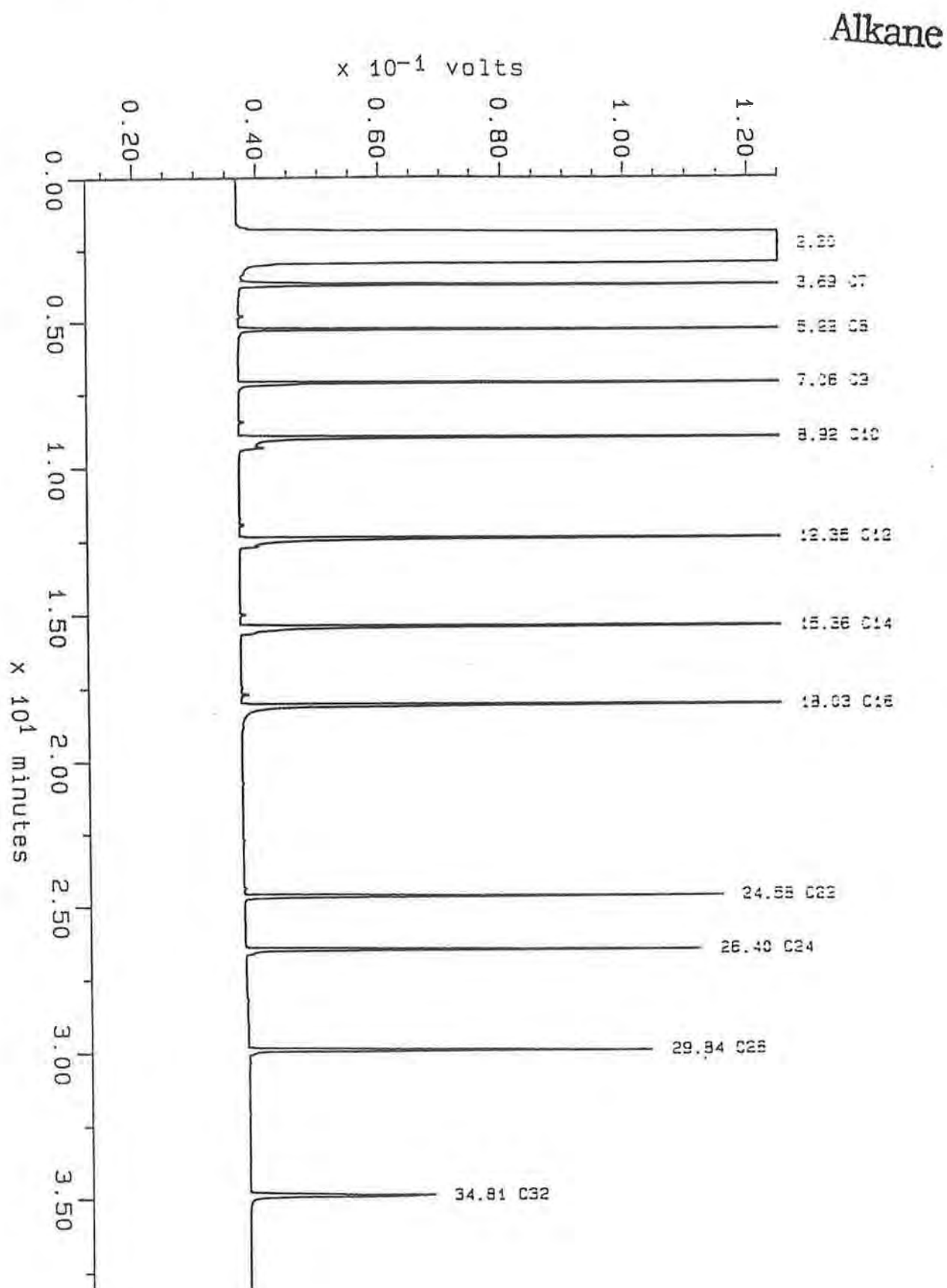
Filename: R2043003
Operator: ATI



Sample: ALKANE
Acquired: 29-JAN-92 12:44
Inj Vol: 1.00

Channel: DEMETRI
Method: H:\ER02\MAXDATA\3ERG2-DV\FIEL0129

Filename: R1293002
Operator: ATI

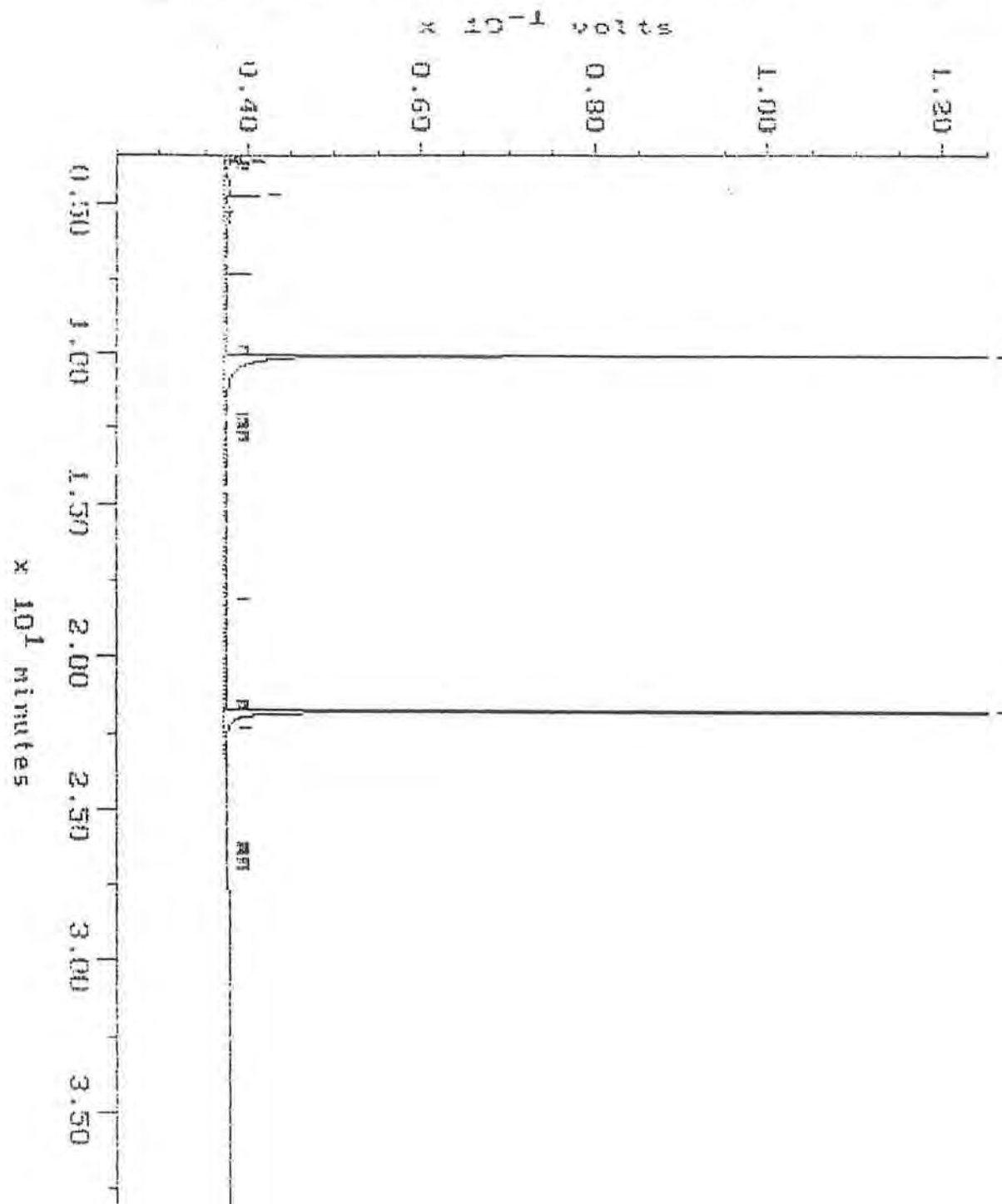


WA DOE WTPH-D

Sample: 9302-030-13
Acquired: 05-FEB-88 3:19

Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL0204

Filename: 92048016
Operator: RTI



WA DOE WTPH-D

Sample: 9392-033-12

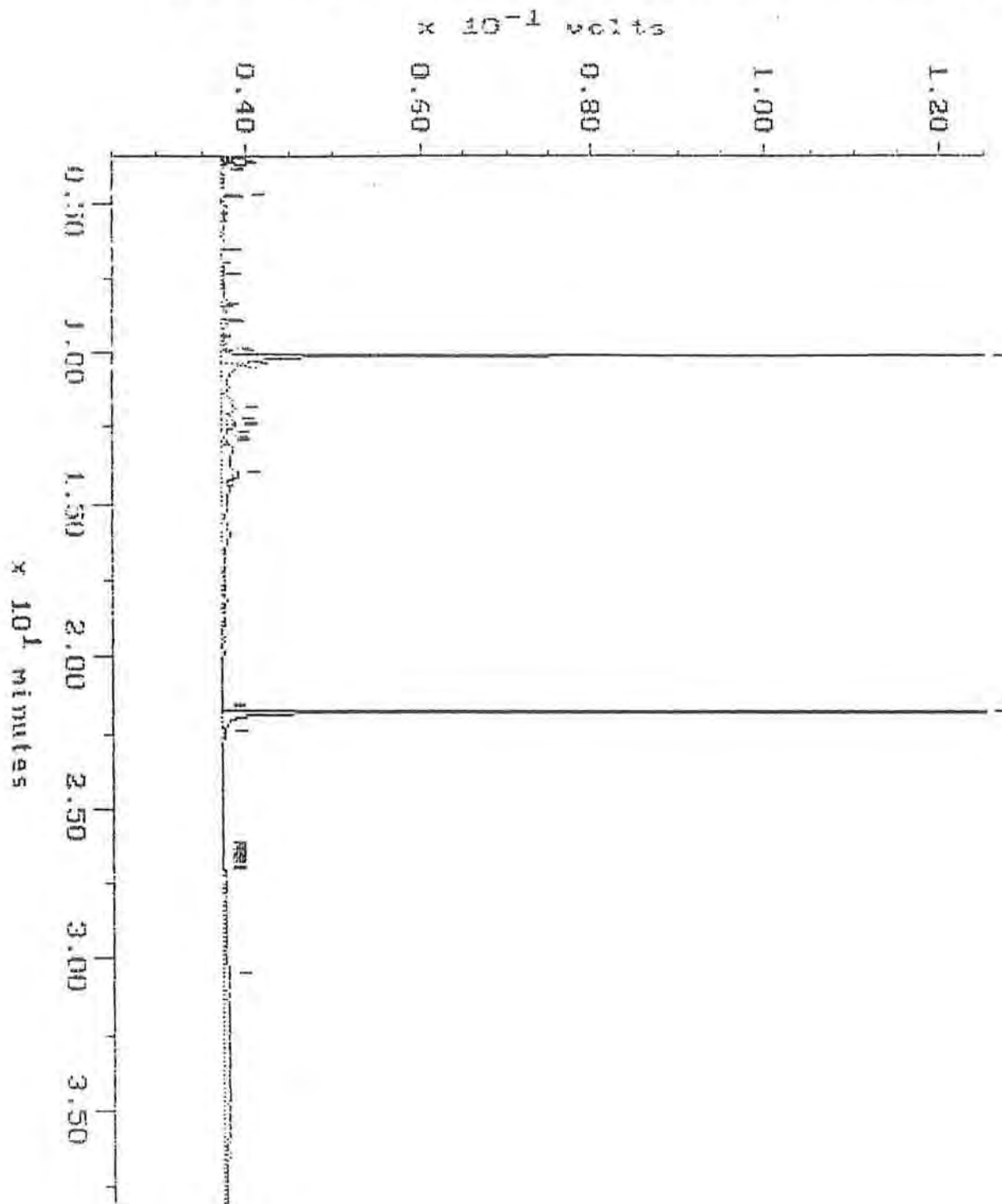
Channel: CEMITAI

Filename: R2048D17

Acquired: 05-FEB-93 4:04

Method: H:\BRC2\MAXDATA\CEXGE-DV\FUEL0204

Operator: AT

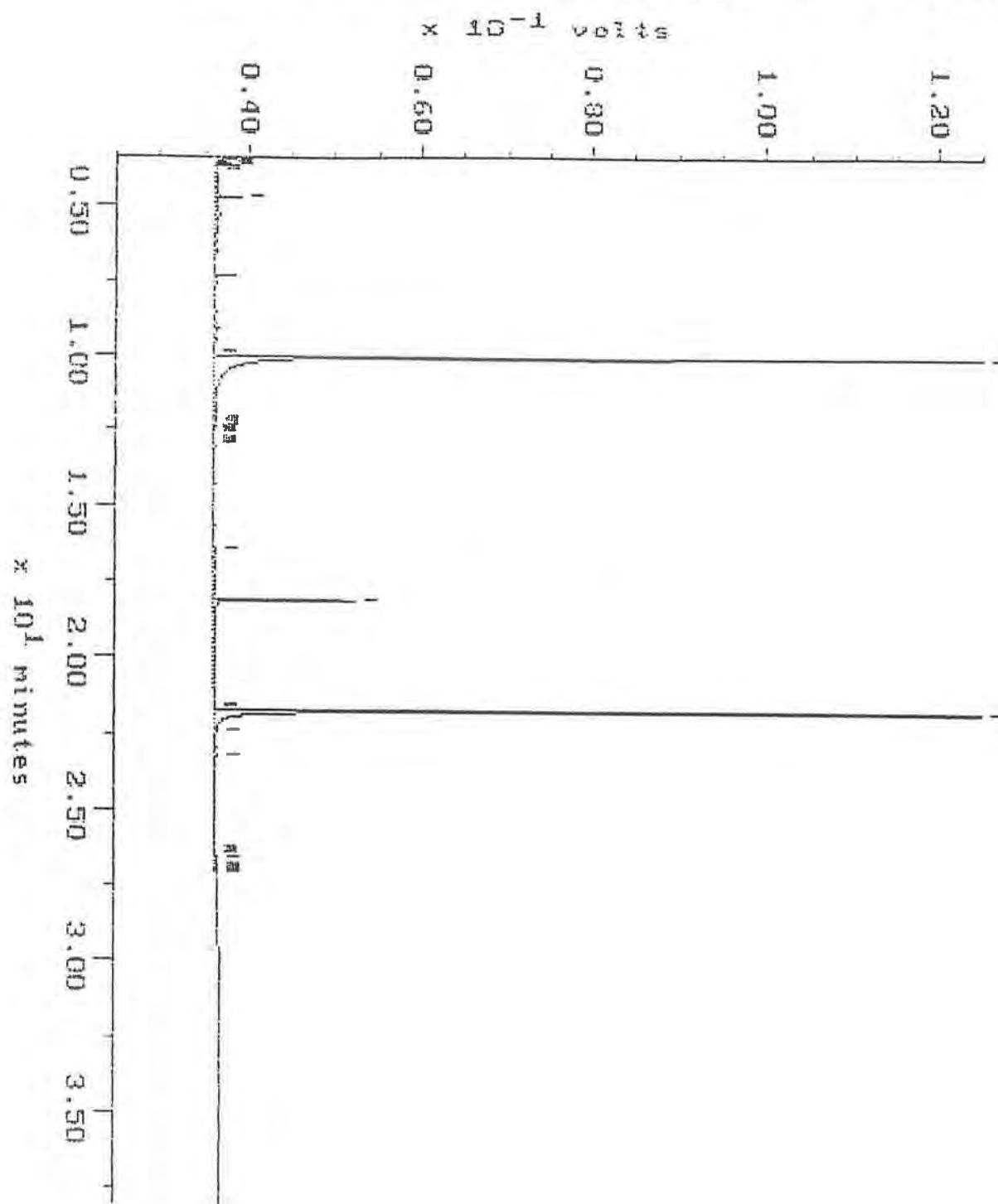


WA DOE WTPH-D

Sample: 9302-030-3
Acquired: 04-Feb-93 18:55

Channel: DEMITRI
Method: H:\6002\MAXDATA\SERGE-D\FUEL0204

Filename: R204ED05
Operator: ATI

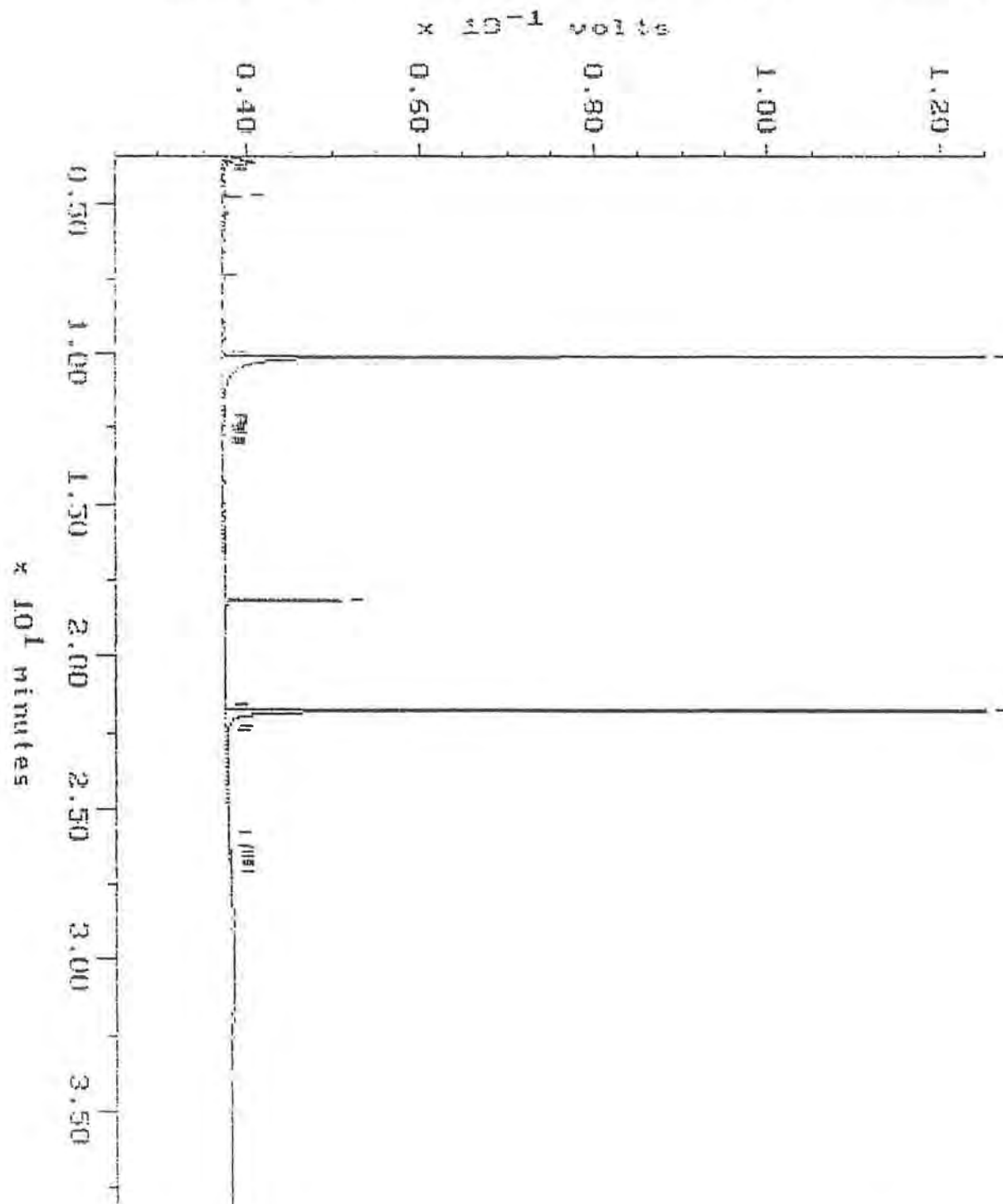


WA DOE WTPH-D

Sample: 9302-030-8
Acquired: 05-FEB-93 2:33

Channel: DEMITRI
Method: H:\BACE\MAXDATA\SERGE-DAFUEL0204

Filename: R2040018
Operator: ATI



WA DOE WTPH-D

Sample: 9382-333-7

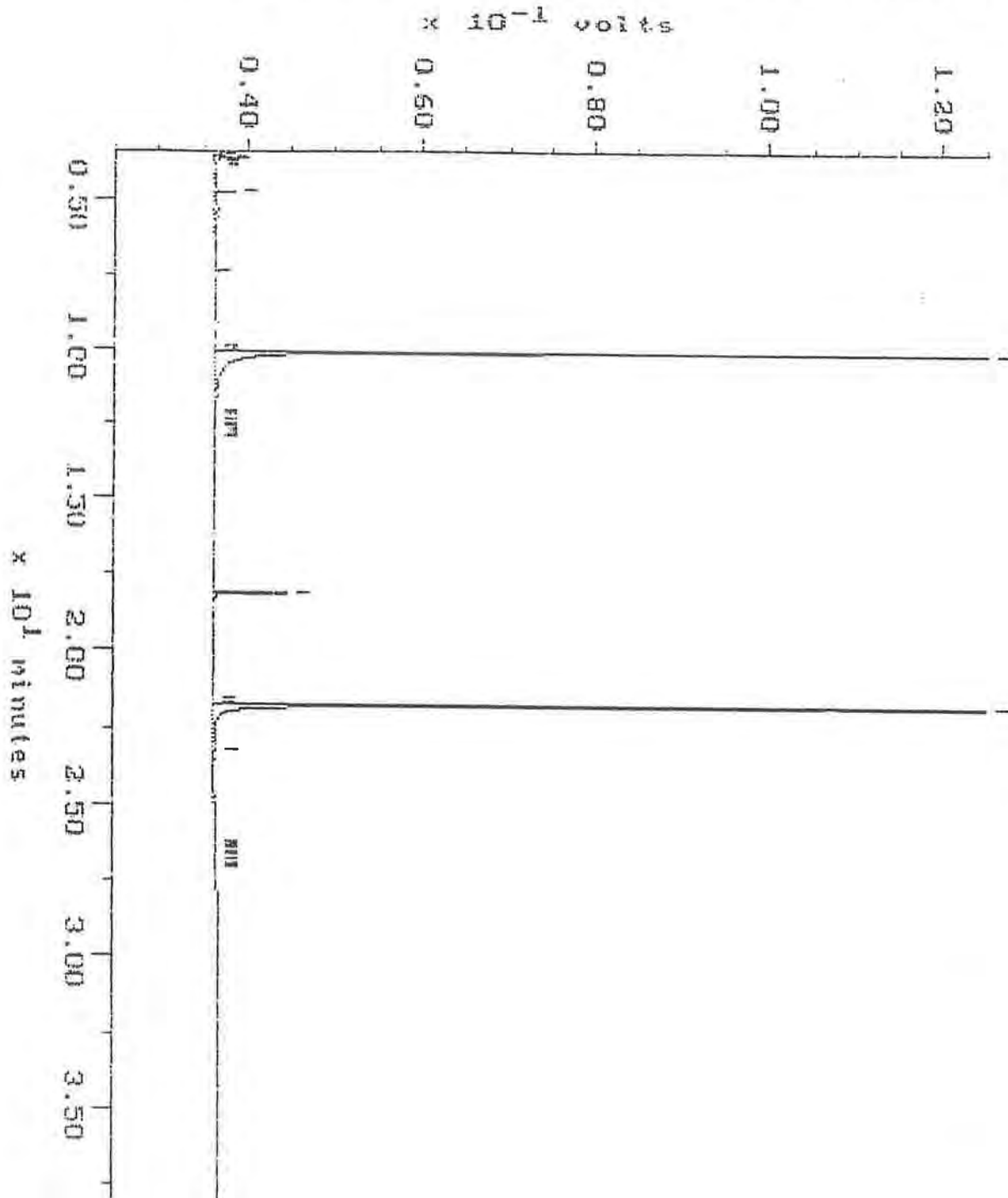
Channel: DEMITRI

Filename: K2046D1E

Acquired: 05-FEB-93 0:16

Method: H:\BROCK\MAXDATA\SERCE-D\FUEL0204

Operator: ATI

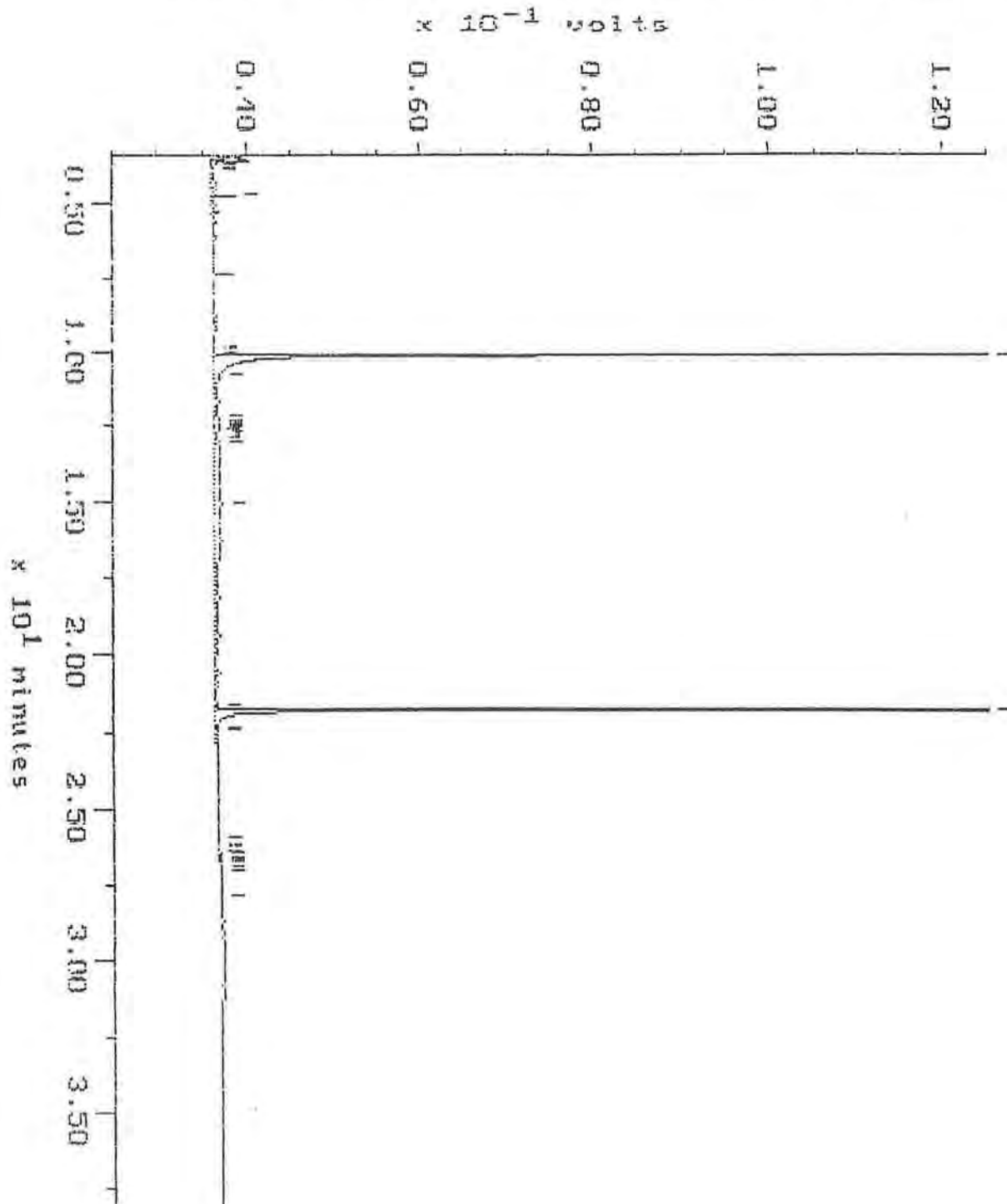


WA DOE WTPH-D

Sample: 9302-030-5
Acquired: 04-FEB-93 23:20

Channel: DENITRI
Method: H:\BRO2\MAXDATA\GERGE-D\FCEL0204

Filename: R2045D11
Operator: ATI



WA DOE WTPH-D

Sample: 9302-030-4

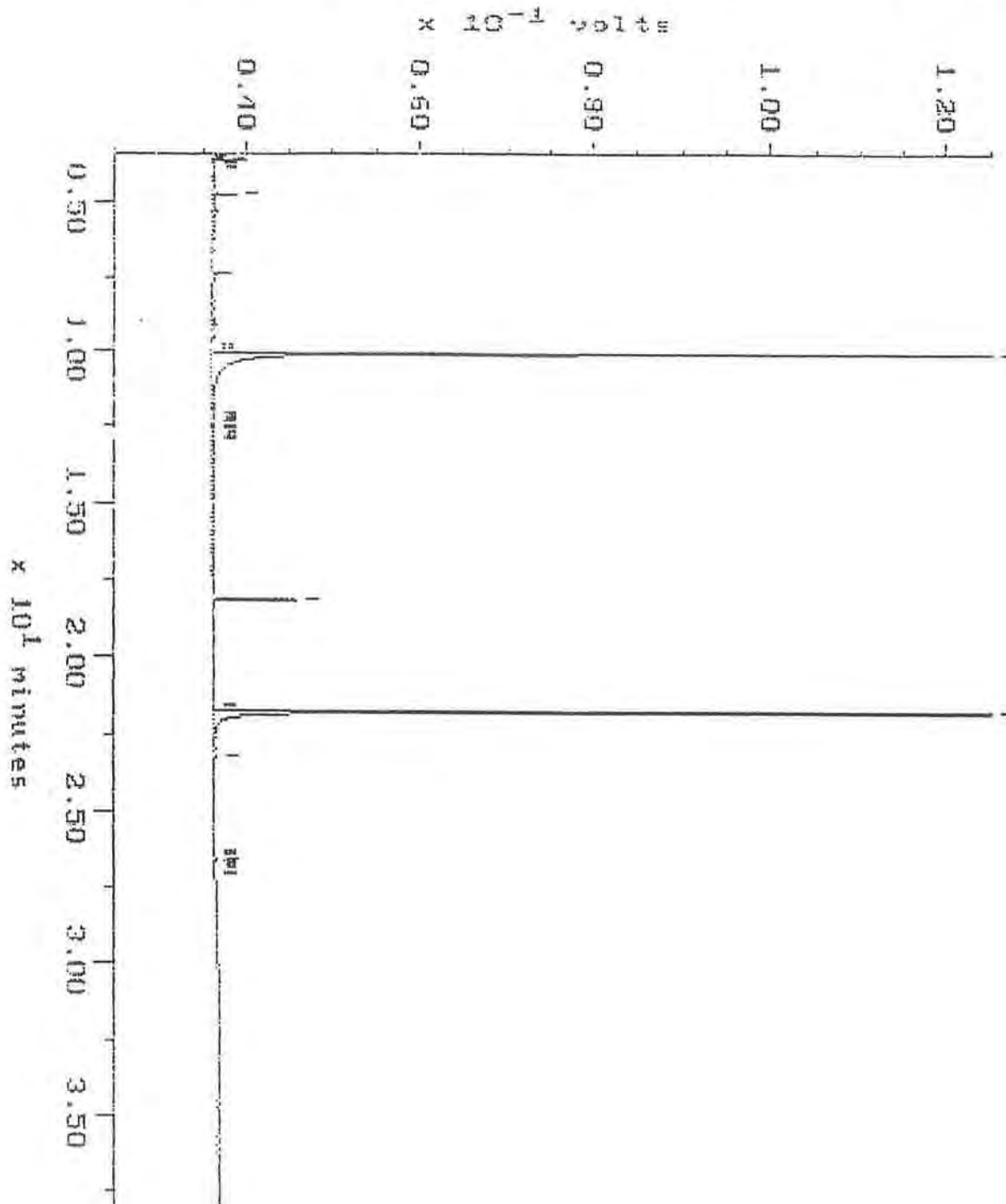
Channel: DEMITRI

Filename: R2046010

Acquired: 04-FEB-93 22:44

Method: H:\BRO2\MAXDATA\SERGE-D\FUEL0204

Operator: ATI

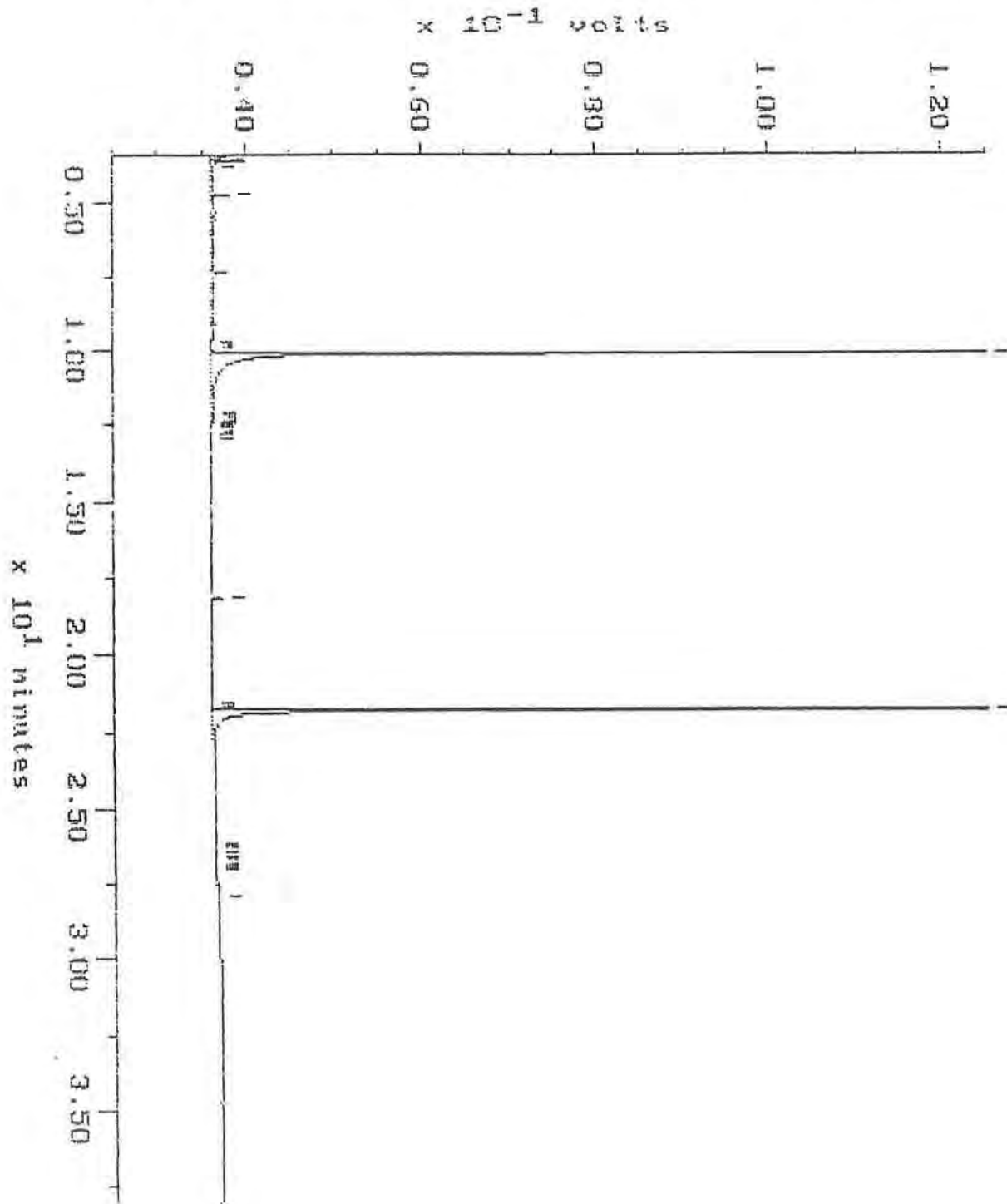


WA DOE WTPH-D

Sample: 9302-930-1
Acquired: 04-FEB-93 21:53

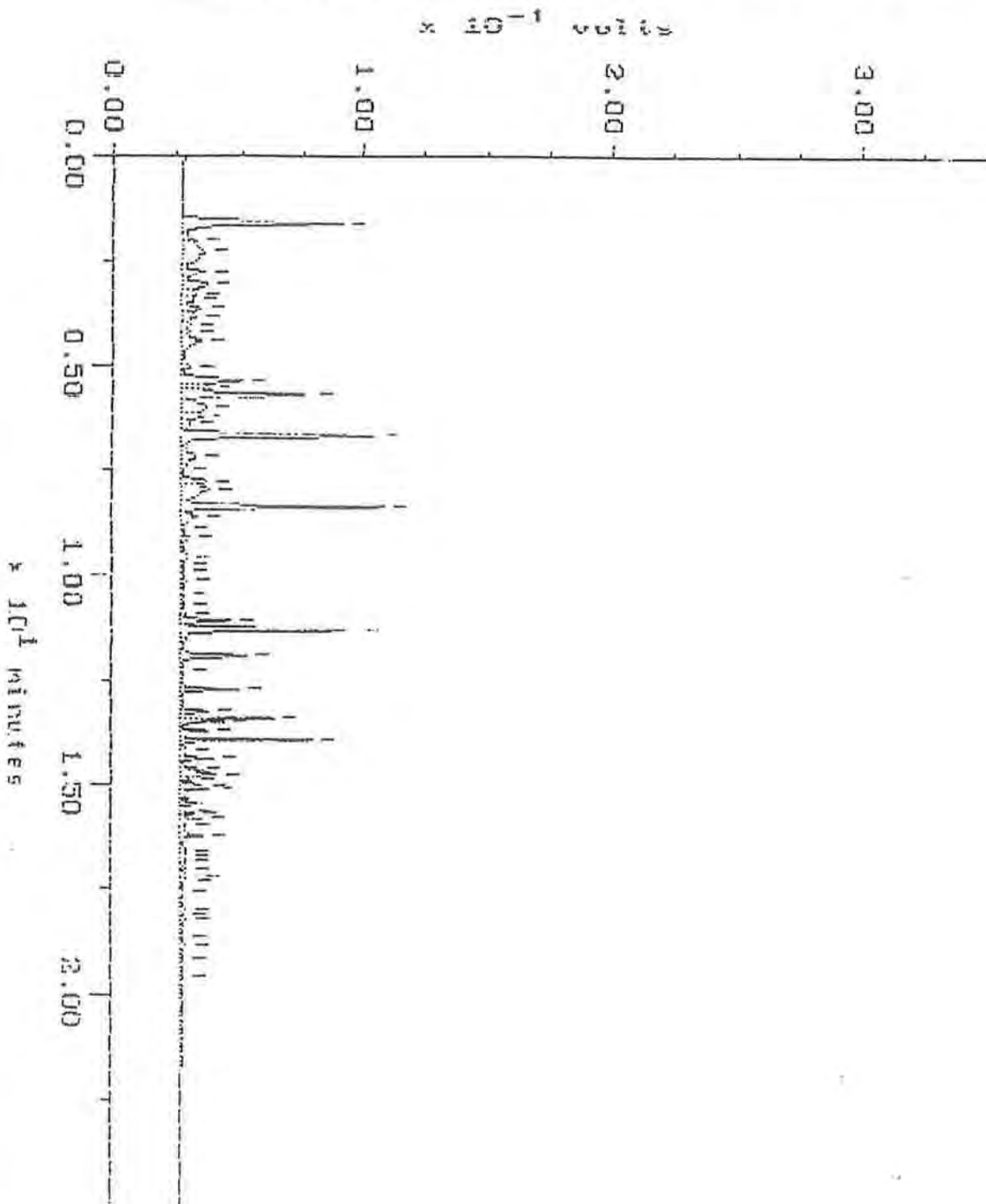
Channel: DEMITRI
Method: H:\BRO2\MAXDATA\SERGE-D\FUEL3204

Filename: R2048D09
Operator: ATI



Sample: STD-C Channel: FID
 Acquired: 09-FEB-93 9:54 Method: N:\BRUCE\WADSWORTH\GLAD\020993.JUS
 Comments: All : A COMMITMENT TO QUALITY

Filename: 020993.JUS
 Operator: A11

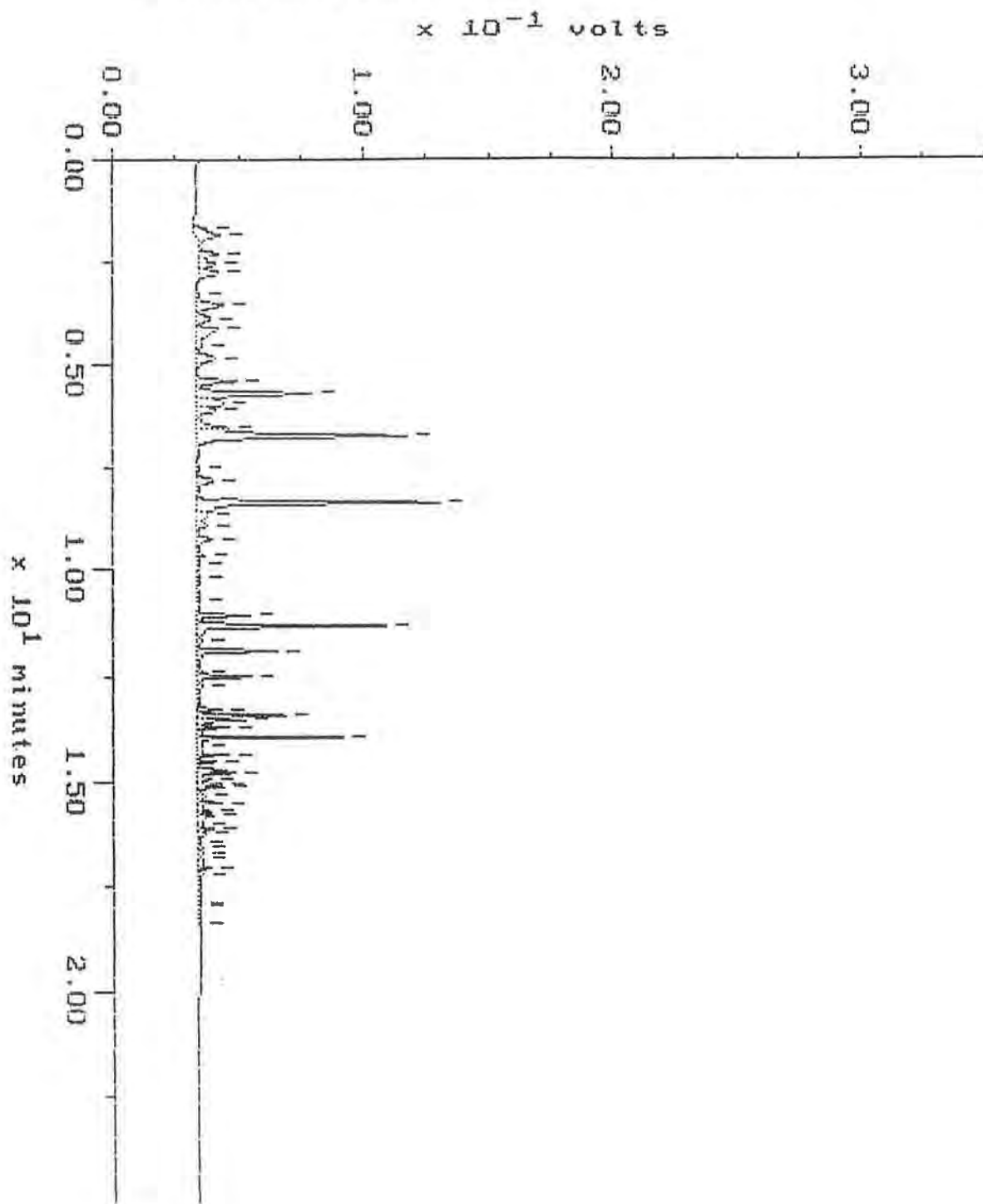


Continuing Calibration

Sample: STD-C.6
Acquired: 04-FEB-93 6:40

Channel: JEROME-FID
Method: H:\BRD2\MAXDATA\JEROME\020493JR

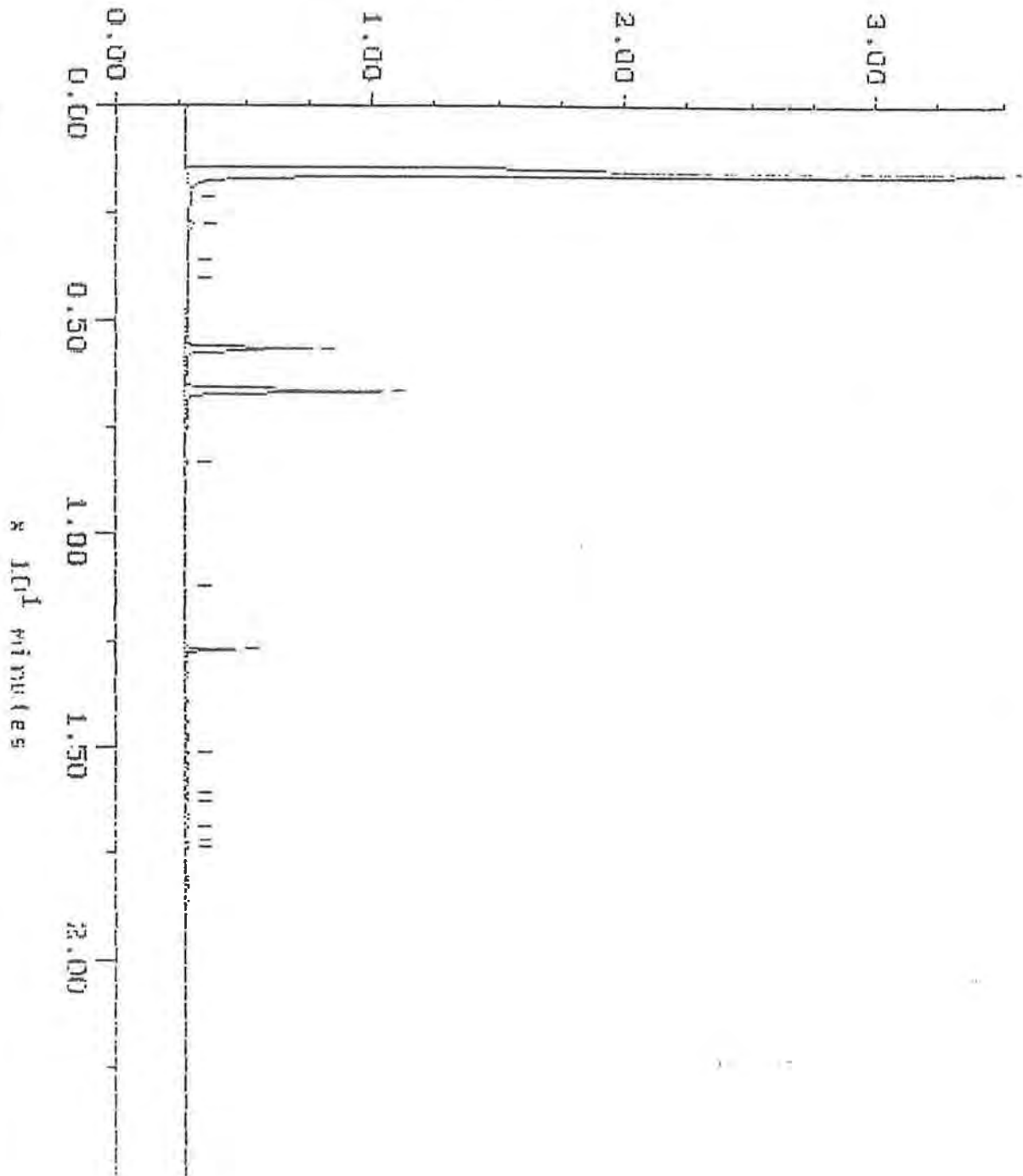
Filename: R2049J01
Operator:



Sample: SRB-A 2-4 Channel: FID
Acquired: 09-FEB-93 10:45 Method: N:\MSDCHEM\DATA\GLAD\02099305
Comments: AT1 : A COMMITMENT TO QUALITY

Filename: 02099307
Operator: R11

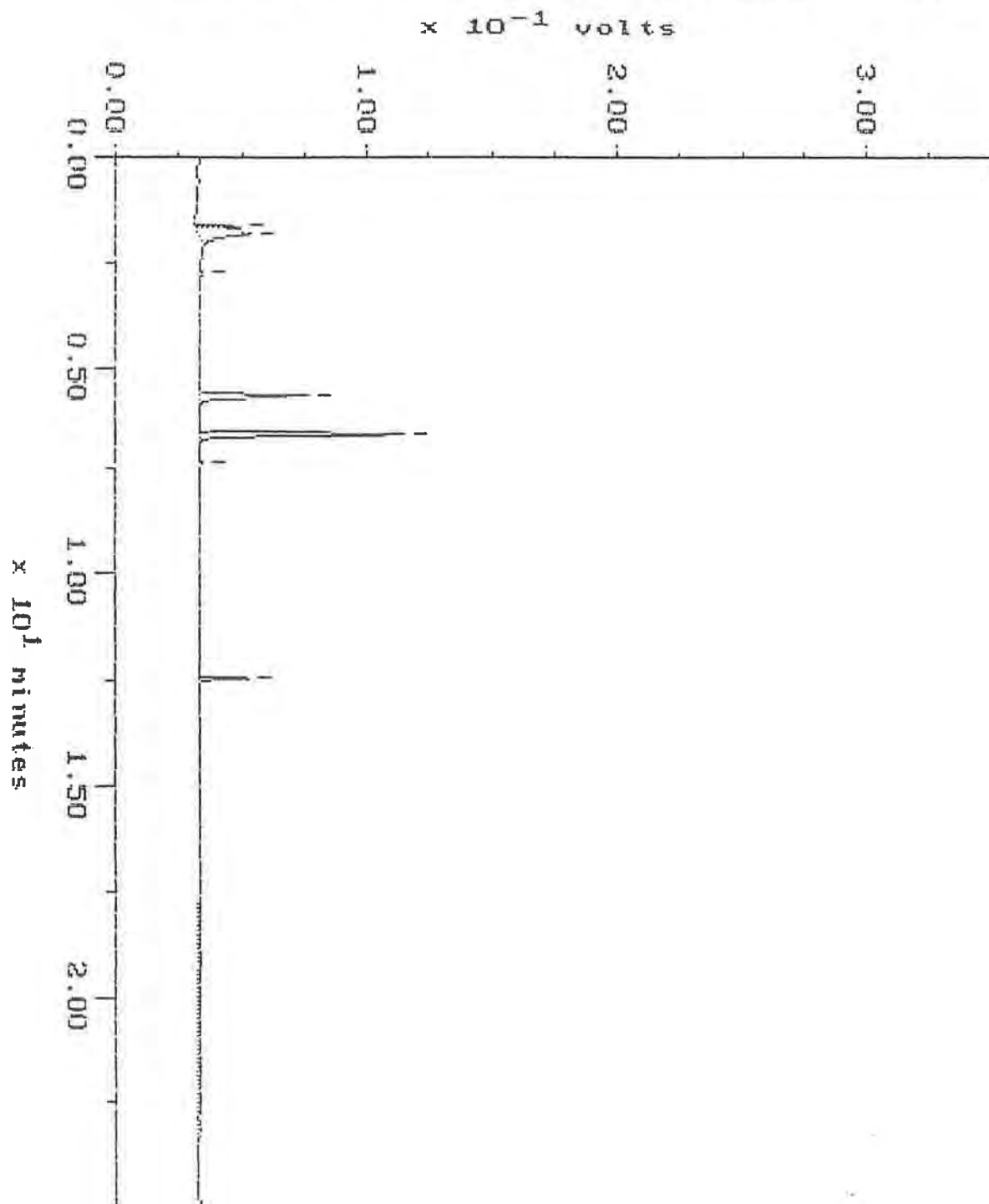
$\times 10^{-1}$ volts



Sample: SRB-A 2/4
Acquired: 04-FEB-93 15:47

Channel: JEROME-FID
Method: H:\BR02\MAXDATA\JEROME\020493JR

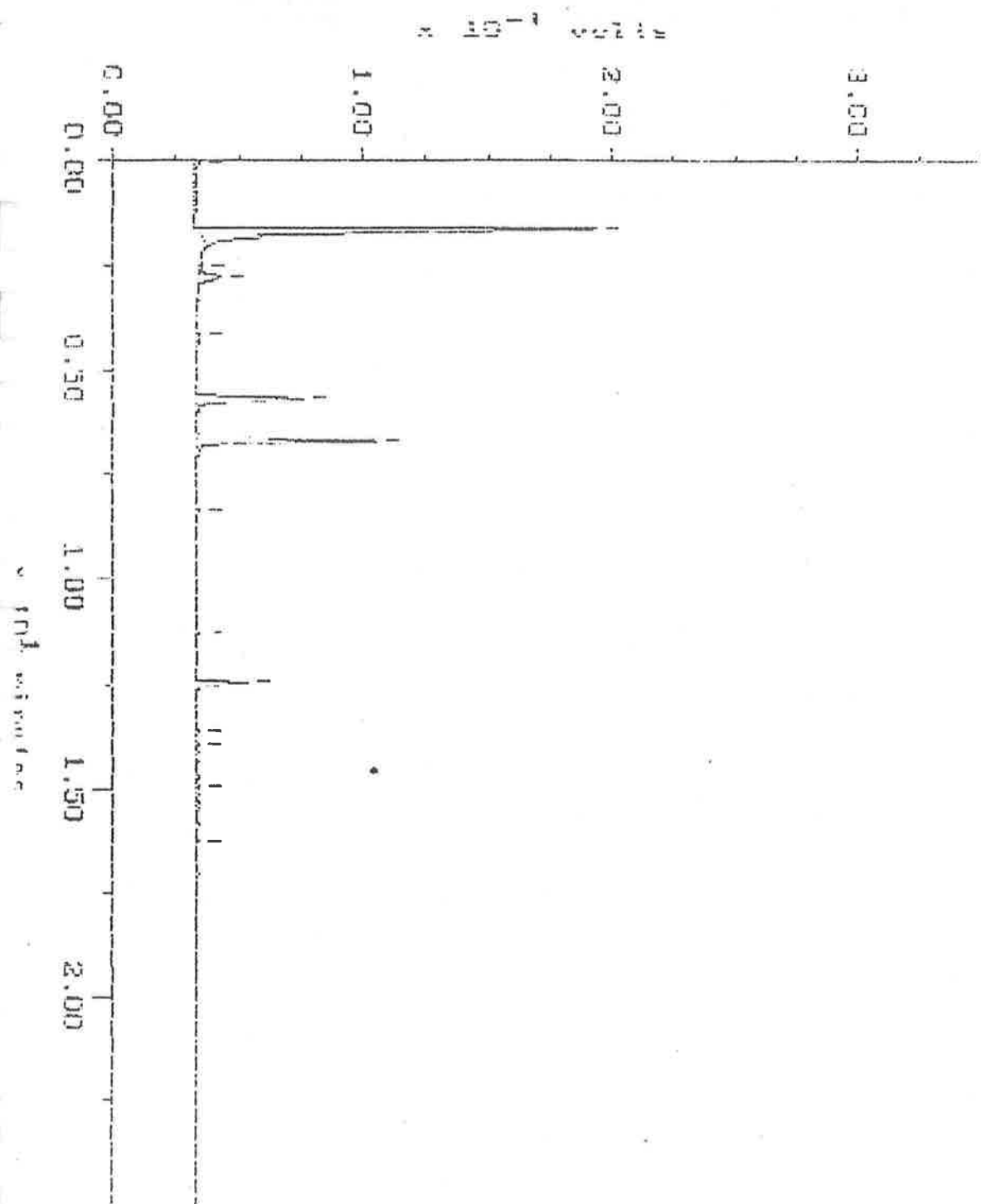
Filename: R2049J15
Operator:



Sample: 9302-050-13
Acquired: 05-18-93 12:29

Channel: JEROME-FLD
Method: H: WINDS MAXIMUM IN JEROME VOLCANIC

```
Filename: H255361
Operator:
```

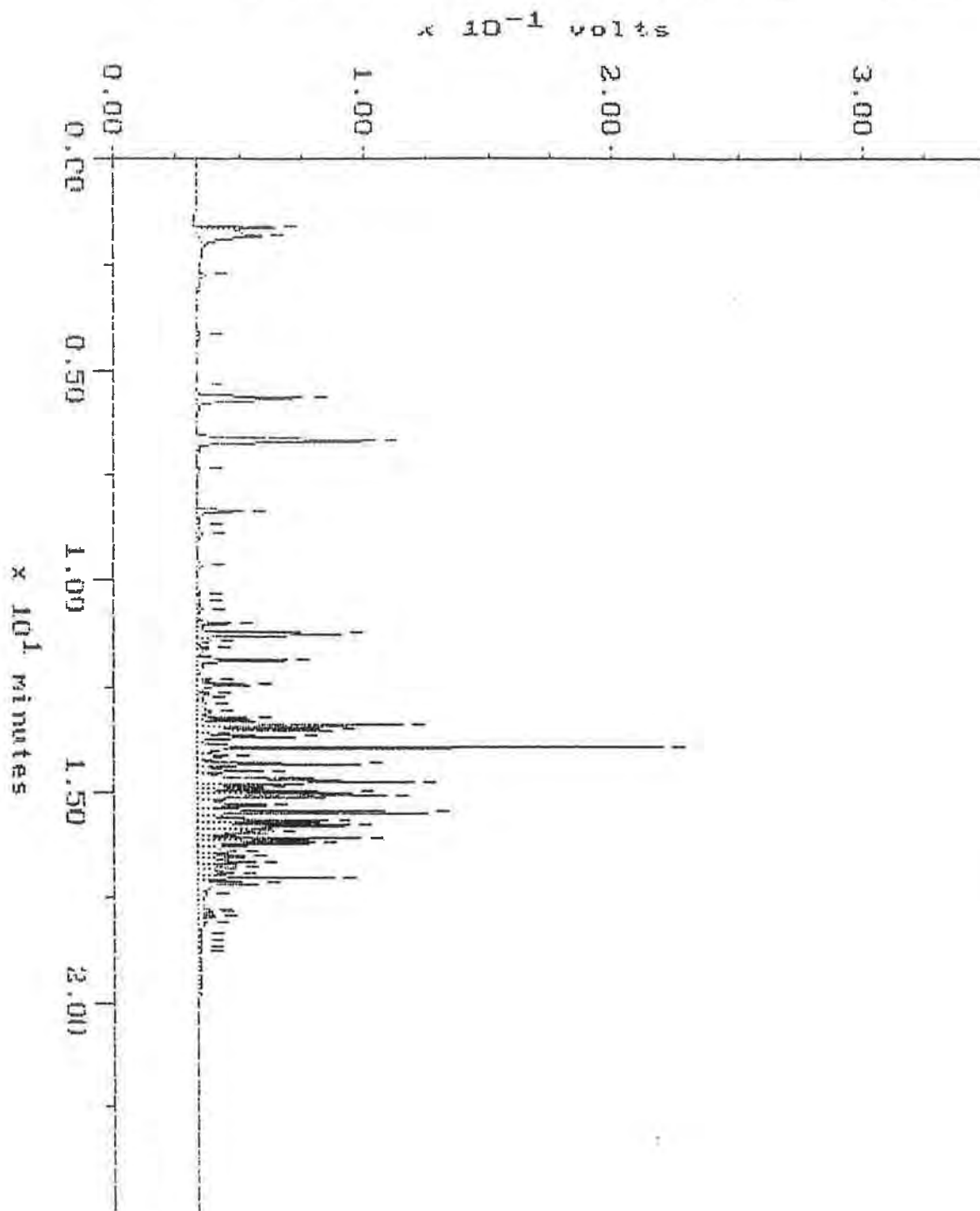


WA DOE WIPH-G

Sample: 9302-030-12
Acquired: 05-FEB-93 4:44

Channel: JEROME-FID
Method: H:\8RU2\MAXDATA\JEROME\02049JJR

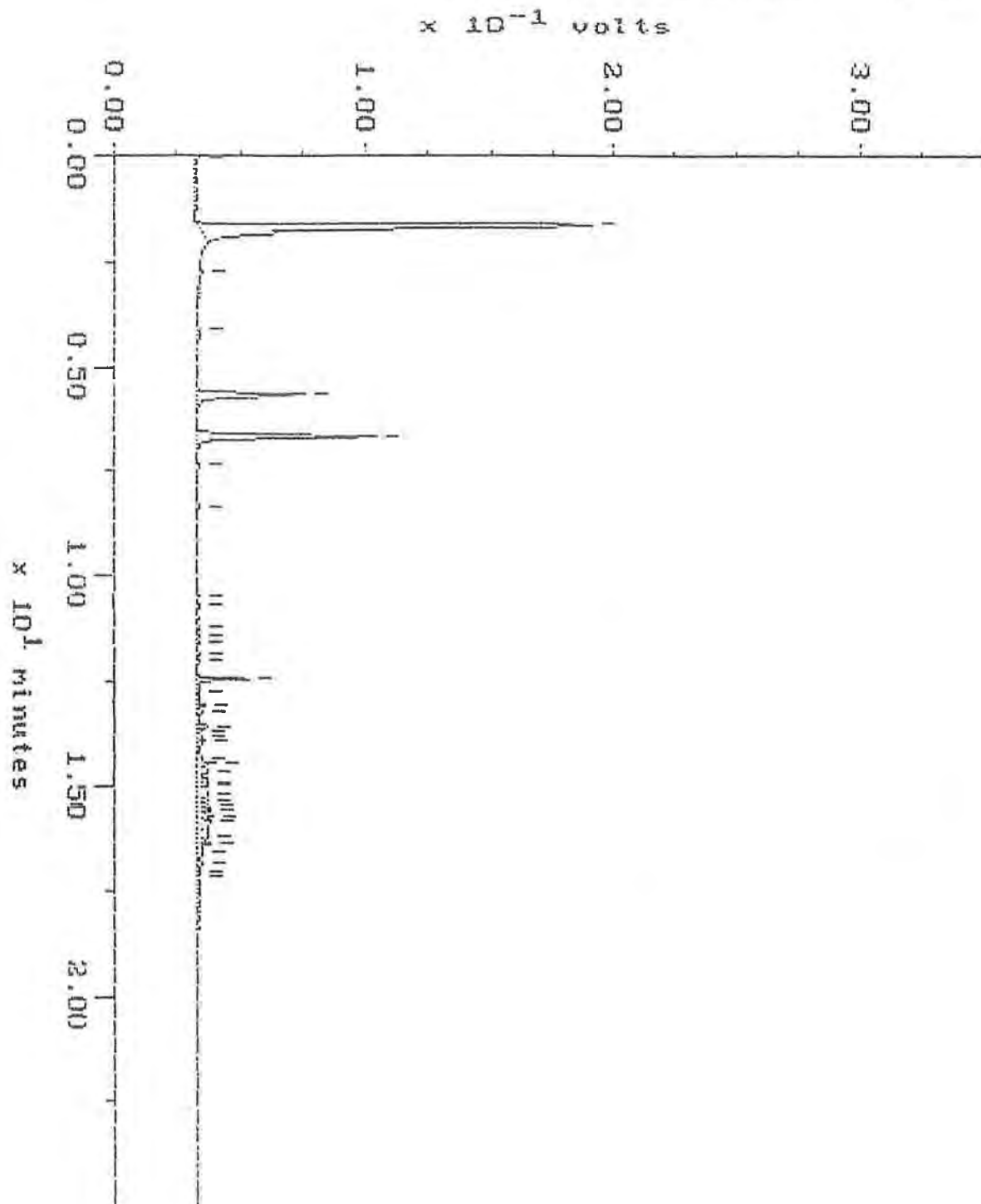
Filename: R2049J41
Operator:



Sample: 9302-030-11
Acquired: 05-FEB-93 4:14

Channel: JEROME-FID
Method: H:\BRU2\MAXDATA\JEROME\020493JR

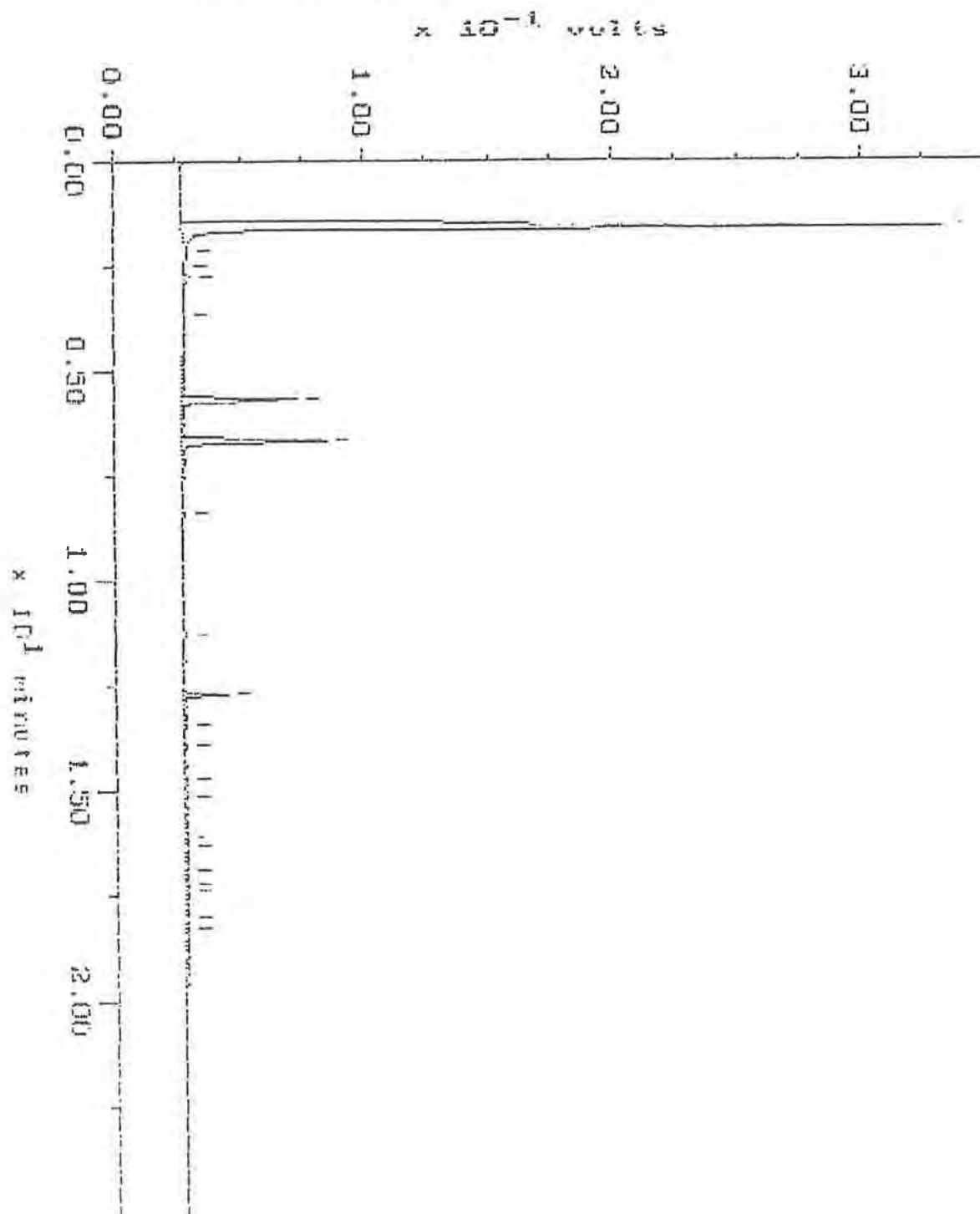
Filename: R2049J40
Operator:



WA DOE WITH-G

Sample: 9302-630-1W Channel: FID
 Acquired: 09-FEB-93 23:53 Method: H:\MSDCHEM\DATA\GLAD\MSD779303
 Comments: ATI : A COMMITMENT TO QUALITY

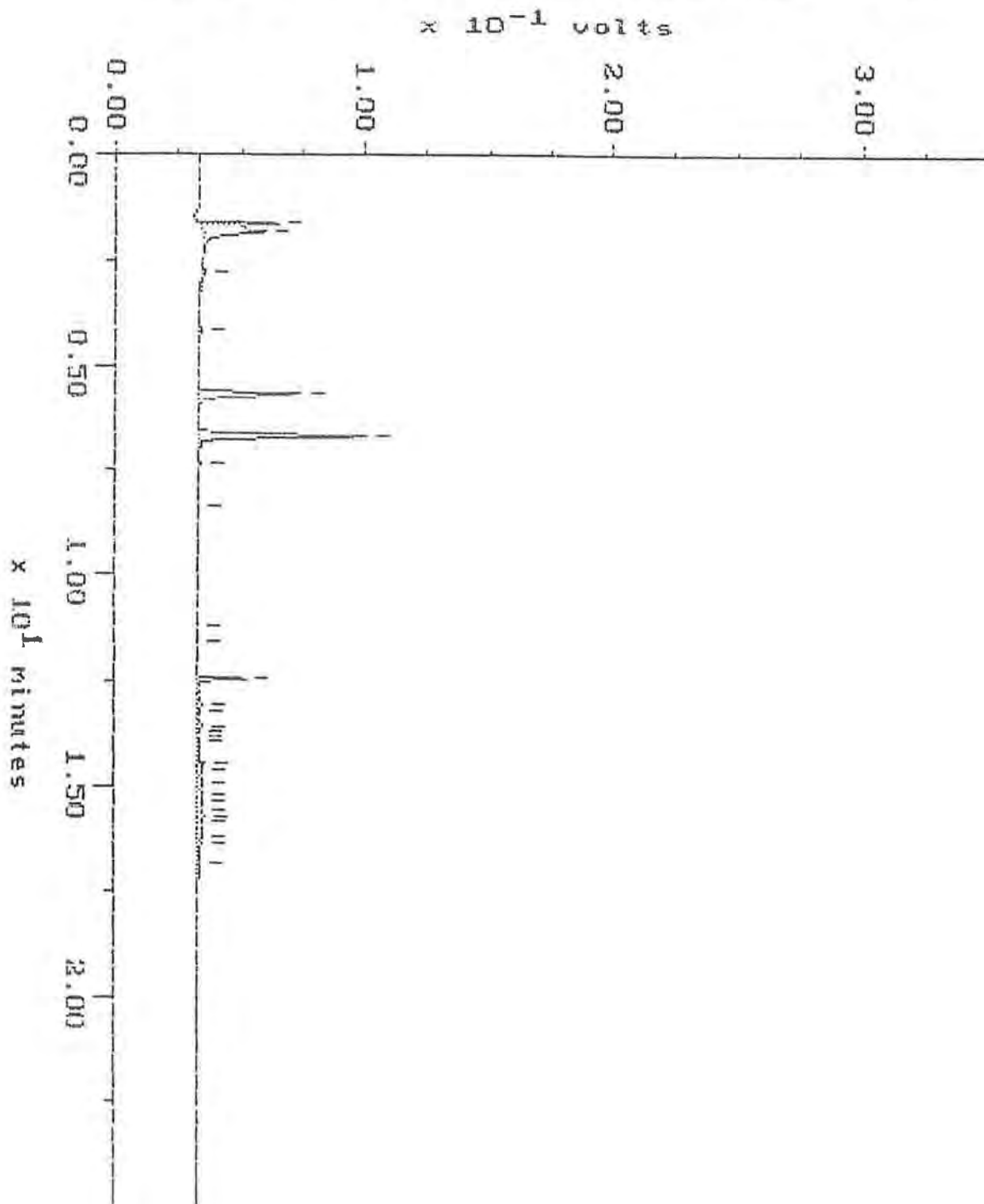
Filename: MSD779317
 Operator: ATI



Sample: 9302-030-9
Acquired: 05-FEB-93 3:44

Channel: JEROME-FID
Method: H:\BRU2\MAXDATA\JEROME\020493JR

Filename: R2049J39
Operator:

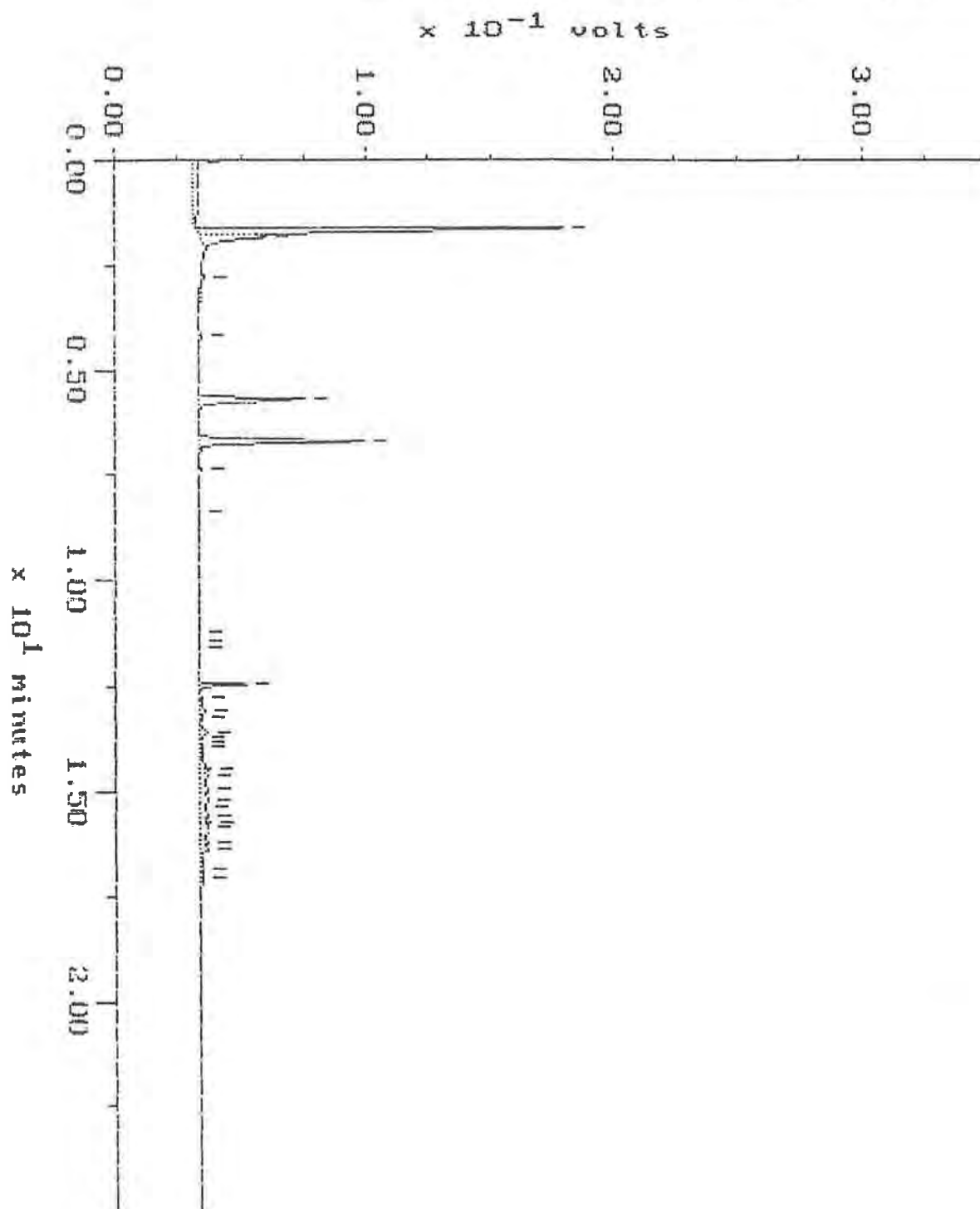


WA DOE WTPH-G

Sample: 9302-030-3
Acquired: 05-FEB-93 3:14

Channel: JERCME-FID
Method: H:\BND2\MAXDATA\JERCME\020493JR

Filename: R2049J38
Operator:

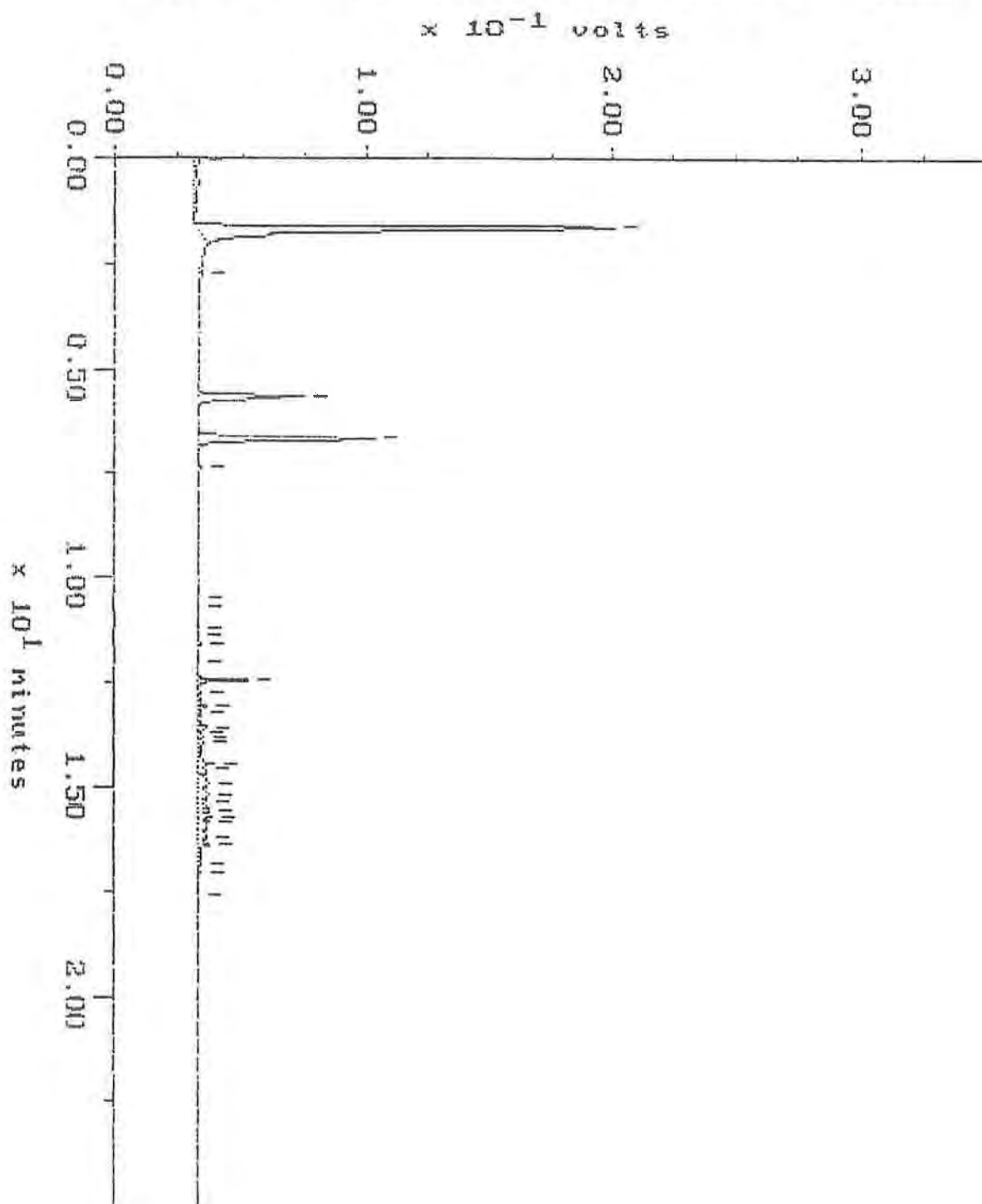


WA DOE WTPH-G

Sample: 9302-030-7
Acquired: 05-FEB-93 1:15

Channel: JEROME-FID
Method: H:\BRU2\MAXDATA\JEROME\020493JR

Filename: R2049J34
Operator:

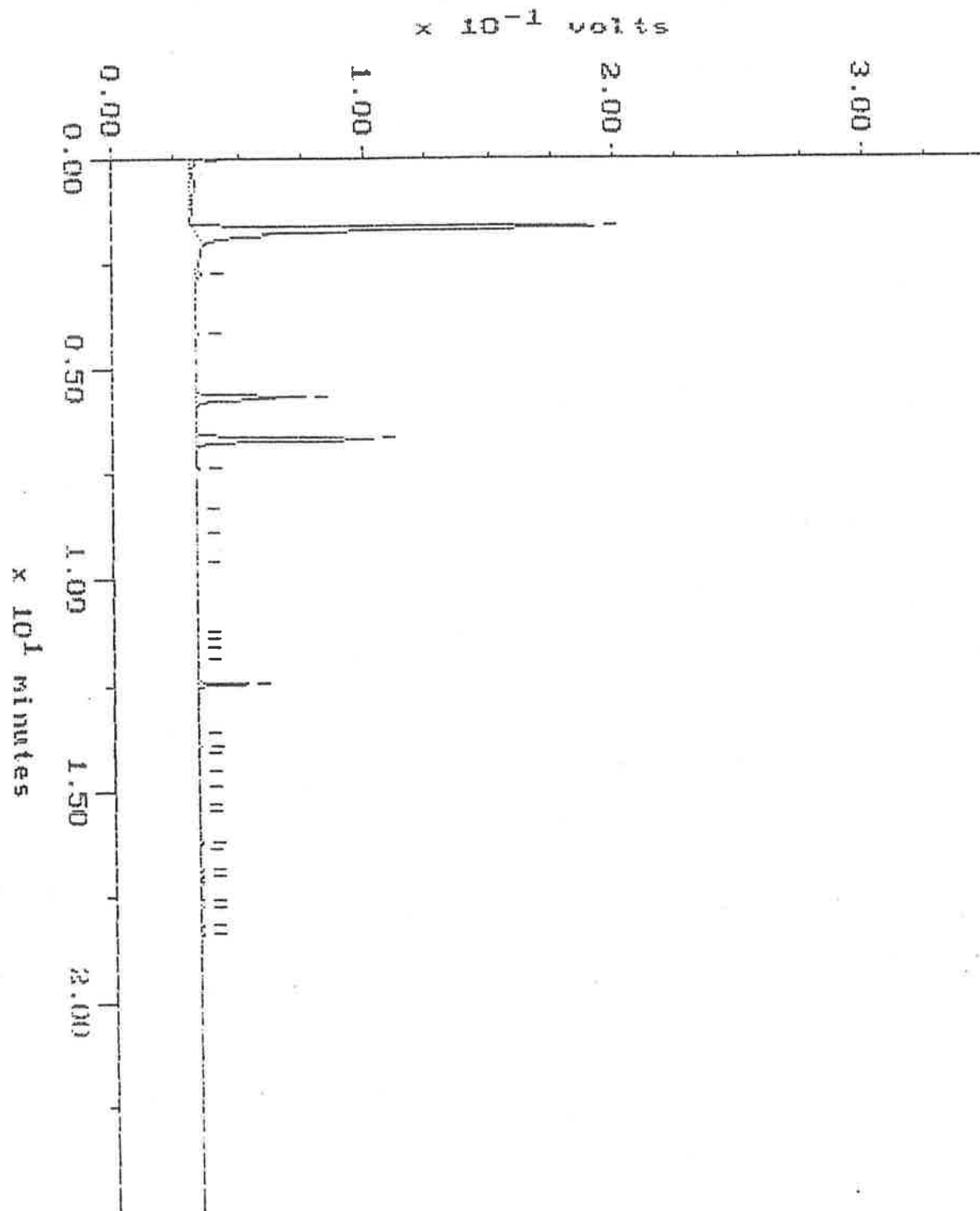


WA DOE WTPH-G

Sample: 9302-030-5
Acquired: 05-FEB-93 0:46

Channel: JEROME-FID
Method: H:\8R02\MAXDATA\JEROME\020493JR

Filename: R2049J33
Operator:



WA DOE WTPH-G

Sample: 9302-030-4

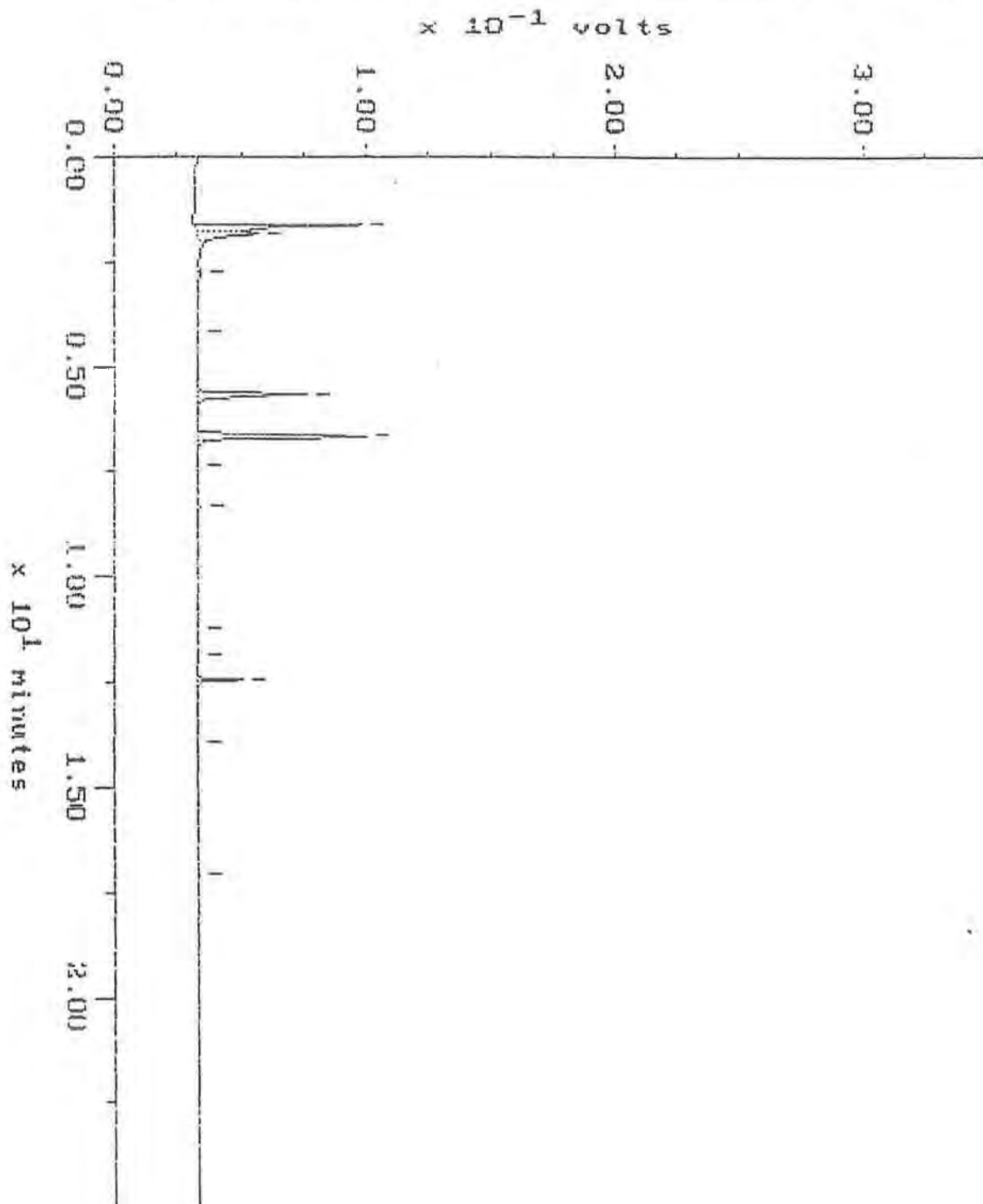
Channel: JEROME-FID

Filename: R2049J32

Acquired: 05-FEB-93 0:16

Method: H:\BRU2\MAXDATA\JEROME\020493JR

Operator:

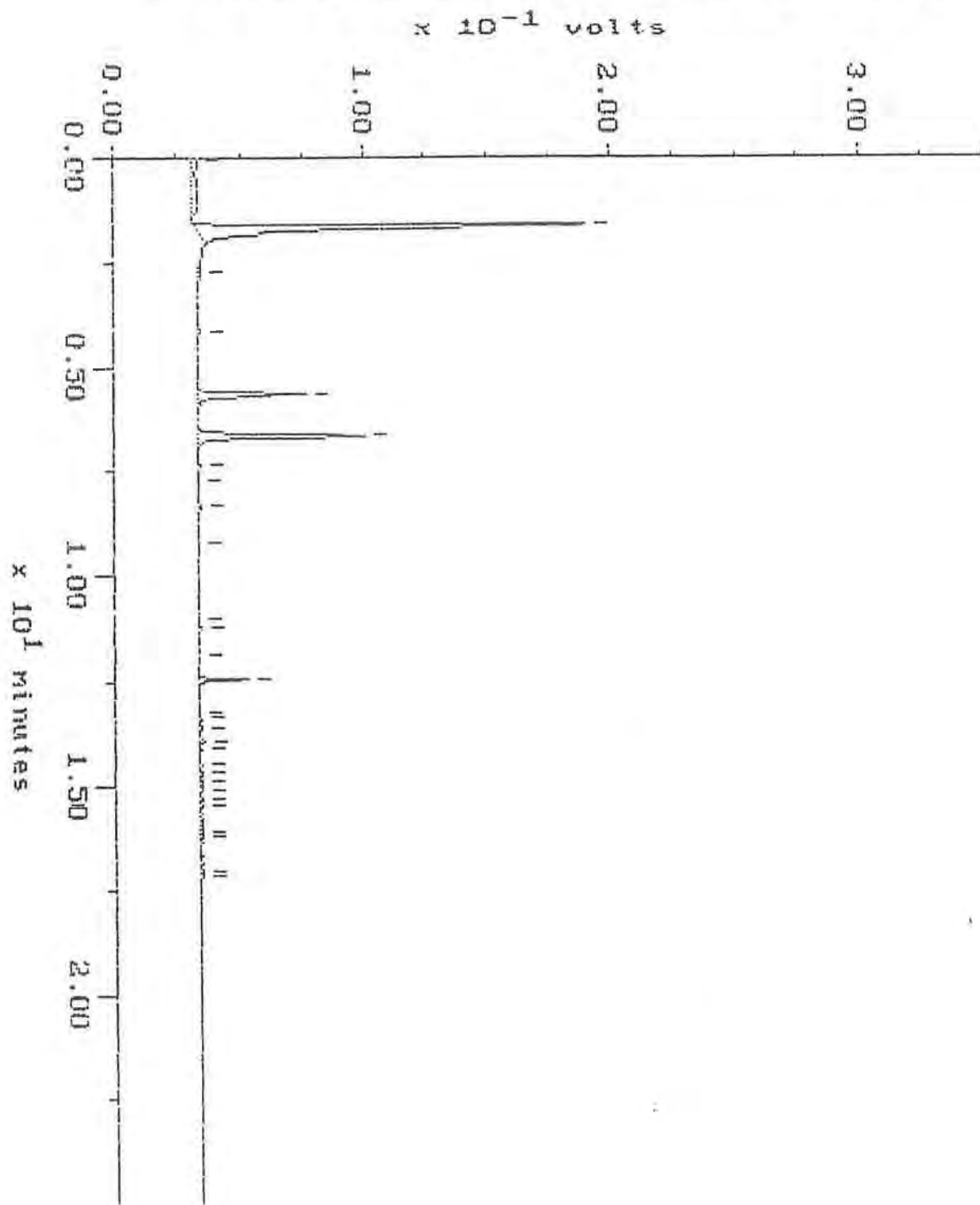


WA DOE WTPH-G

Sample: 9302-030-2
Acquired: 04-Feb-93 23:46

Channel: JEROME-FID
Method: H:\BRUE\MAXDATA\JEROME\020493JR

Filename: R2049J01
Operator:



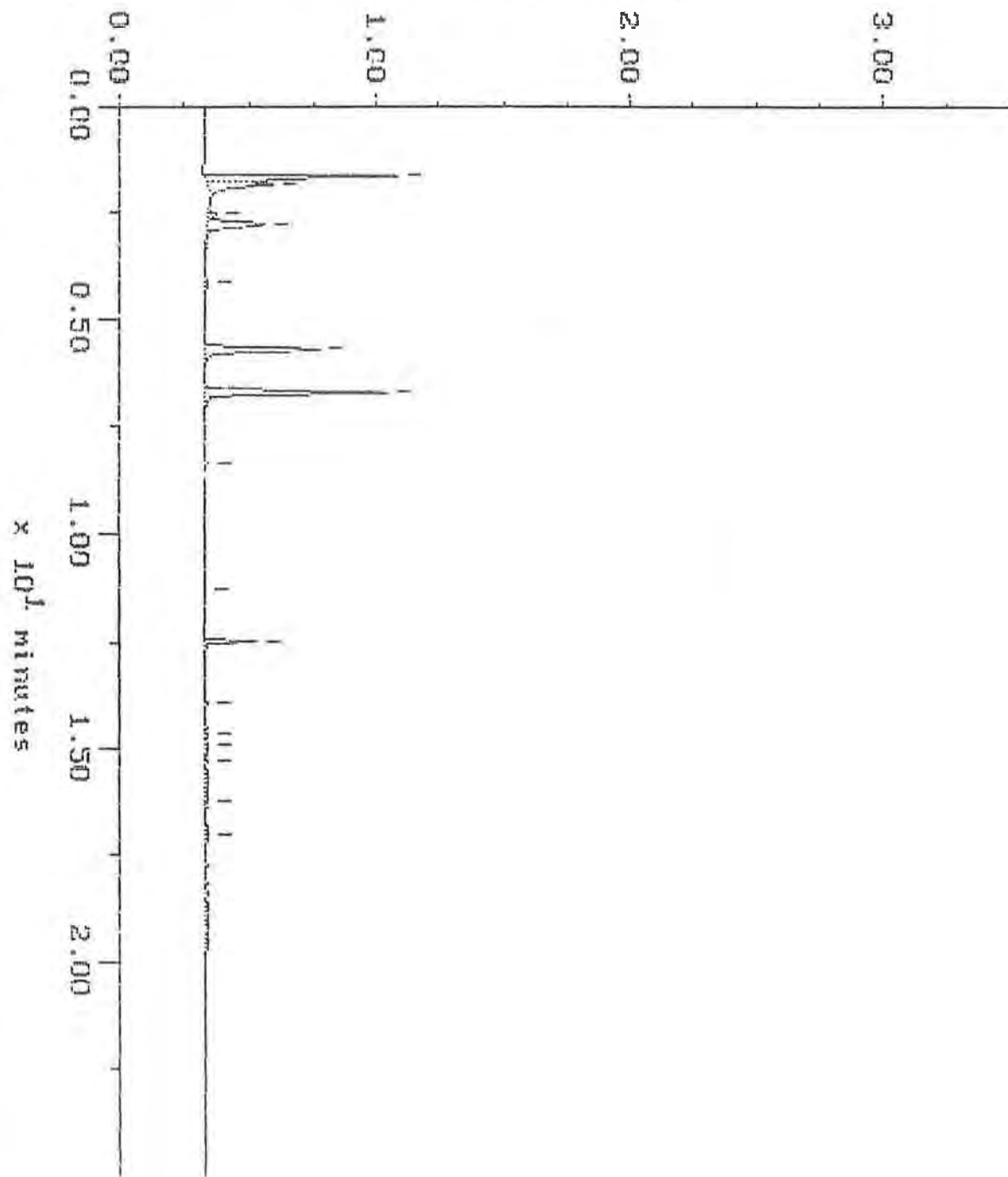
WA DOE WTPH-G

Sample: 9302-030-1
Acquired: 05-FEB-93 12:00

Channel: JEROME-FID
Method: H:\BRU2\MAXDATA\JEROME\020593JR

Filename: K2059J06
Operator:

$\times 10^{-1}$ volts



ATI I.D. # 9302-030

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9302-030-5	5.9	5.5	7	N/A	N/A	N/A
MOISTURE	9302-030-10	7.3	7.3	0	N/A	N/A	N/A
MOISTURE	9302-030-13	5.3	5.5	4	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

ATI I.D. # 9302-030

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARYCLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9302-030-1	B-1-7, 23.5'	7.9
9302-030-2	B-2-3, 11.5'	6.9
9302-030-4	B-3-3, 18.5'	8.4
9302-030-5	B-3-5, 29'	5.9
9302-030-7	B-4-7, 34'	7.9
9302-030-8	B-5-7, 34'	7.6
9302-030-9	B-6-6, 29'	6.9
9302-030-10	B-7-2, 9.5'	7.3
9302-030-11	B-7-3, 14.5'	6.6
9302-030-12	B-7-7, 34.5'	5.1
9302-030-13	B-7-9, 44.5'	5.3

ATI I.D. # 9302-030

GENERAL CHEMISTRY ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

PARAMETERDATE ANALYZED

MOISTURE
(SAMPLES -1, -2, -4,
-5, -7 THROUGH -9,
-11 THROUGH -13)

02/04/93

MOISTURE
(SAMPLE -10)

02/10/93

ATI I.D. # 9302-030

METALS ANALYSIS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

UNITS : mg/Kg

ELEMENT	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
LEAD	9302-030-10	2.0	1.7	16	51.2	56.9	86
LEAD	BLANK SPIKE	<1.5	N/A	N/A	45.2	50.0	90

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

ATI I.D. # 9302-030

METALS ANALYSIS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC. MATRIX : SOIL
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT UNITS : mg/Kg
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

ATI I.D. #	CLIENT I.D.	LEAD
------------	-------------	------

9302-030-10	B-7-2, 9.5'	2.0
METHOD BLANK	-	<1.5



ATI I.D. # 9302-030

METALS ANALYSIS

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT

MATRIX : SOIL

ELEMENT

DATE PREPARED

DATE ANALYZED

LEAD

02/10/93

02/10/93

ATI I.D. # 9302-030

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D

SAMPLE I.D. # : BLANK SPIKE
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
DIESEL	<10	200	178	89	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
DIESEL				69 - 122			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		94		N/A		50 - 150	

ATI I.D. # 9302-030

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D

SAMPLE I.D. # : 9302-030-9
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg

COMPOUNDS	SAMPLE RESULT	DUP. SAMPLE RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
DIESEL	<10	<10	NC	200	181	91	179	90	1
CONTROL LIMITS						% REC.			RPD
DIESEL						63 - 131			20
SURROGATE RECOVERIES				SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL				89		90		50 - 150	

NC = Not Calculable.



ATI I.D. # 9302-030

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9302-030-9
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 02/04/93
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 02/04/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D		

COMPOUNDS	SAMPLE RESULT	DUP. SAMPLE RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
MOTOR OIL	<40	<40	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
MOTOR OIL						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				92		94		50 - 150	

NC = Not Calculable.



ATI I.D. # 9302-030

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT : GEOENGINEERS, INC.
PROJECT # : 1957-009-R04
PROJECT NAME : TIME OIL JACKPOT
SAMPLE MATRIX : SOIL
METHOD : WA DOE WTPH-D

SAMPLE I.D. # : 9302-030-12
DATE EXTRACTED : 02/04/93
DATE ANALYZED : 02/04/93
UNITS : mg/Kg

COMPOUNDS	SAMPLE RESULT	DUP. SAMPLE RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
DIESEL	<10	<10	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
DIESEL						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				84		84		50 - 150	

NC = Not Calculable.



ATI I.D. # 9302-030

 TOTAL PETROLEUM HYDROCARBONS
 QUALITY CONTROL DATA

CLIENT	: GEOENGINEERS, INC.	SAMPLE I.D. #	: 9302-030-12
PROJECT #	: 1957-009-R04	DATE EXTRACTED	: 02/04/93
PROJECT NAME	: TIME OIL JACKPOT	DATE ANALYZED	: 02/04/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D		

COMPOUNDS	SAMPLE RESULT	DUP. SAMPLE RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
MOTOR OIL	<40	<40	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
MOTOR OIL						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
O-TERPHENYL				84		84		50 - 150	

NC = Not Calculable.

ATI I.D. # 9302-030-13

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 02/03/93
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 02/04/93
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/04/93
CLIENT I.D.	: B-7-9, 44.5'	DATE ANALYZED	: 02/05/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDS

RESULTS

FUEL HYDROCARBONS	<11
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL
FUEL HYDROCARBONS	<42
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	79	50 - 150
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ATI I.D. # 9302-030-12

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT : GEOENGINEERS, INC.	DATE SAMPLED : 02/03/93
PROJECT # : 1957-009-R04	DATE RECEIVED : 02/04/93
PROJECT NAME : TIME OIL JACKPOT	DATE EXTRACTED : 02/04/93
CLIENT I.D. : B-7-7, 34.5'	DATE ANALYZED : 02/05/93
SAMPLE MATRIX : SOIL	UNITS : mg/Kg
METHOD : WA DOE WTPH-D	DILUTION FACTOR : 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT	

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<11
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

<42
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

84

50 - 150

ATI I.D. # 9302-030-9

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 02/03/93
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 02/04/93
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 02/04/93
CLIENT I.D.	: B-6-6, 29'	DATE ANALYZED	: 02/04/93
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1
RESULTS ARE CORRECTED FOR MOISTURE CONTENT			

COMPOUNDS

RESULTS

FUEL HYDROCARBONS	<11
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL

FUEL HYDROCARBONS	<43
HYDROCARBON RANGE	C24 - C34
HYDROCARBON QUANTITATION USING	MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	92	50 - 150
-------------	----	----------

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT : Geo Engineers
PROJECT # : 1957-0090 Roy
PROJECT NAME : Time Oil Jackpot
CLIENT I.D. :
SAMPLE MATRIX : SOIL D58-3
METHOD : WA DOE WTPH-D
RESULTS CORRECTED FOR THE MOISTURE CONTENT

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED : 12/10/92
DATE ANALYZED : 12/11/92
UNITS : mg/Kg
DILUTION FACTOR : 200
%MOISTURE : 7.2

COMPOUNDS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

5900
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

37000
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

O-TERPHENYL

LIMITS
128 50-150

Analyst mk Date 12-14-92
Reviewer AK Date 12-14-92

Page 1

Sample File : 1211SD06

mg/kg (dry)

DATE PREPARED: 12/16/92

ANALYZED	ELEMENT	Blank	92/2099 -2	099 -3	099 -4		
	ALUMINUM						
	ANTIMONY						
	ARSENIC						
2/16/92	BARIUM	<0.50	42	48	40.29 55		
	BERYLLIUM				mm		
//	CADMIUM	<0.25	0.35	0.34	0.40		
	CALCIUM						
//	CHROMIUM	<0.50	19	17	22		
	COBALT						
//	COPPER	<0.50	13	15	14		
	IRON						
//	LEAD	<1.5	17 28 mm	4.7	13		
	MAGNESIUM						
	MANGANESE						
	MERCURY						
//	NICKEL	<0.50	28	28	34		
	POTASSIUM						
	SELENIUM						
//	SILVER	<0.25	<0.31	<0.31	<0.29		
	SODIUM						
	THALLIUM						
	VANADIUM						
//	ZINC	<0.50	23	27	29		

new
12/17/92

DATE: 12-9-92 Page 7 of 7 ATI ACCESSION # 9212-048

COMPANY: Cretagenium REPORT TO: Don Hanson ADDRESS: PHONE: (916) 661-6000 FAX: (916) 605-0 PROJECT MANAGER: Don Hanson PROJECT NUMBER: 957-009-004 PROJECT NAME: Time Oil Jacket			ATI WILL DISPOSE / RETURN samples (circle one) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Sample ID</th> <th>Date</th> <th>Time</th> <th>Matrix</th> <th>LabID</th> </tr> <tr> <td>DSP-3</td> <td>12-9-92</td> <td>0910</td> <td>SOIL</td> <td>1</td> </tr> <tr> <td>CSP-1</td> <td>12-9-92</td> <td>0910</td> <td>SOIL</td> <td>2</td> </tr> <tr> <td>DSP-2</td> <td>12-9-92</td> <td>0910</td> <td>SOIL</td> <td>3</td> </tr> </table>			Sample ID	Date	Time	Matrix	LabID	DSP-3	12-9-92	0910	SOIL	1	CSP-1	12-9-92	0910	SOIL	2	DSP-2	12-9-92	0910	SOIL	3
Sample ID	Date	Time	Matrix	LabID																					
DSP-3	12-9-92	0910	SOIL	1																					
CSP-1	12-9-92	0910	SOIL	2																					
DSP-2	12-9-92	0910	SOIL	3																					
FUELS			ORGANIC COMPOUNDS			METALS			TCLP			OTHER													
TPH-HCID WA/OR			TPH-G WA/OR			TPH-D (EXTENDED) WA/OR			8015 modified WA/OR			8020 Aromatic VOCs			TCLP-Volatiles (ZHE-8240)			Total # of Containers/sample							
BETX/TPH-G combo WA/OR			BETX (by 8020) WA/OR			8010 Halogenated VOCs			8030 HPLC PAHs			8150 OC Herbicides			TCLP-Pesticides (8080)			TCLP-Herbicides (8150)			7. Moisture (please indicate)				
418.1 WA/OR			413.2 WA/OR			8040 Phenols			8040 OP Pesticides			8040 Phenols			TCLP-Semivolatiles (8270)			TCLP-Hermetals (8 metals)							
AK-DRO			AK-GRO			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs			8040 OP Pesticides			TCLP-Pesticides (8080)			TCLP-Hermetals (8 metals)							
8260 CCMs Volatiles			8270 CCMs Semivolatiles			8080 Pesticides/PCBs			8020 Aromatic VOCs																

* Metals needed: *any* *any*
Corporate Offices: 5550 Warehouse Drive, San Diego, CA 92121 (619) 458-9141



Analytical Technologies, Inc.

560 Naches Avenue SW, Suite 101 Renton, WA 98055 (206) 228-8335

Chain of Custody LABORATORY NUMBER:

ANALYSIS REQUEST

DATE 12/15/92 PAGE 1

9213-048

PROJECT MANAGER: Don Hanson

COMPANY: Gene Engineers

ADDRESS: 8410 154th Ave NE

Redmond WA 98052

PHONE: 861-6000

SAMPLED BY: Lisa Buma

SAMPLE DISPOSAL INSTRUCTIONS

☒ ATT Disposal @ \$5.00 each

☐ Return

SAMPLE ID

DATE TIME MATRIX LAB ID

HVEXC

12/15/92 1515 water

1

DSP-5

50.1

2

DSP-6

3

DSP-7

5

CSP-3

6

CSP-4

8010 Halogenated Volatiles

8020 Aromatic Volatiles

8020 BETX ONLY

8240 GCMS Volatiles

8270 GCMS BNA

8310 HPLC PNA

8080 Pesticides & PCB's

8080 PCB's ONLY

8140 Phosphate Pesticides

8150 Herbicides

WDOE PAH/HH (WAC 173)

418.1 (TPH) WA DOE

419.2 Grease & Oil

8015 (Modified)

TOX 9020 Specific Grav

TOX 9020

% Moisture

EP TOX Metals (8) EP EXT

Priority Pollutant Metals (8)

8080 Pesticide (4)

8240 ZH-EXT

8270

8150 Herbicides (2)

Metals (8)

WTPH-D (extended)

Flashpoint

NUMBER OF CONTAINERS

PROJECT INFORMATION

SAMPLE RECEIPT

PROJECT NUMBER: 1957-009-R04

TOTAL NUMBER OF CONTAINERS: 12

PROJECT NAME: Turne Oil Refinery

OC SEAL/INACT? Y/NNA

PURCHASE ORDER NUMBER:

RECEIVED GOOD COND/COLD: Y/N

ONGOING PROJECT? ☒ YES ☐ NO

RECEIVED VIA: hand del.

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

TAT: (NORMAL) ☐ 2WKS (RUSH) ☐ 24HR ☐ 48HRS ☐ 72HRS ☐ 1WK

GREATER THAN 24 HR. NOTICE? ☐ YES ☐ NO (LAB USE ONLY)

SPECIAL INSTRUCTIONS:

DSP-5 thru DSP-7 4 day or 5 day TAT

CSP-3 & CSP-4 3 day TAT

HVEXC: HOLD until notice

RELINQUISHED BY: Don Hanson

Time: 1615

Signature: [Signature]

Time: 1

Signature: [Signature]

Printed Name: Lisa Buma

Date: 12/15/92

Printed Name: [Signature]

Date: [Signature]

Company: Gene Engineers

RECEIVED BY: [Signature]

Time: 1

Signature: [Signature]

Time: 2

Signature: [Signature]

Time: 4:15 p.m.

Signature: [Signature]

Time: [Signature]

Time: [Signature]

Printed Name: Don Hanson

Date: 12/15/92

Printed Name: [Signature]

Date: [Signature]

Company: ATL - WA

Company: [Signature]

Company: [Signature]

Company: [Signature]

Company: [Signature]

Labels: - n. Diego (619) 458-5141 • Phoenix (602) 438-1530 • Seattle (206) 228-8335 • Pensacola (904) 474-1001

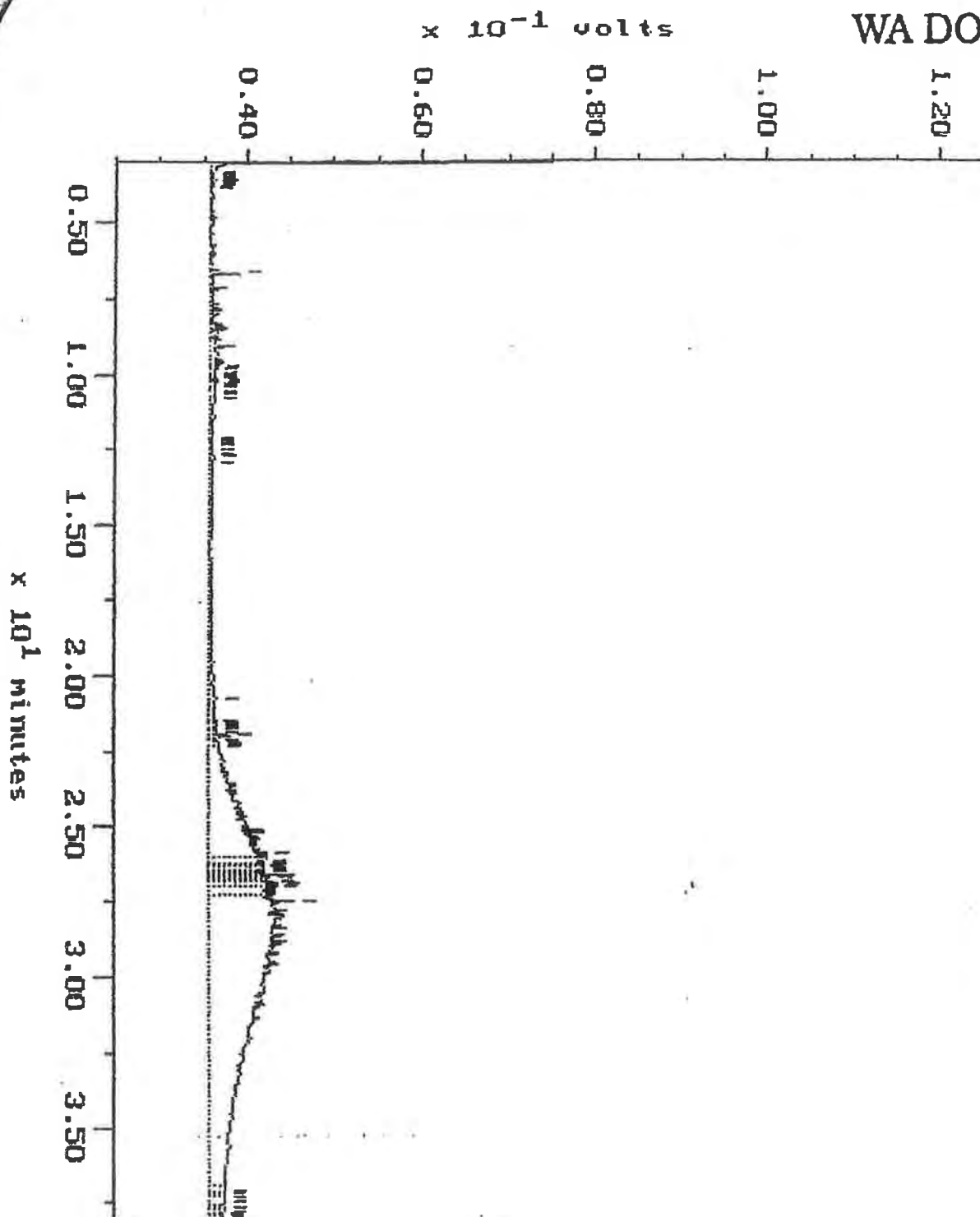
DISTRIBUTION: White, Canary - ATT - Pink - ORIGINATOR

Sample: 9212-048-1b
 Acquired: 11-DEC-92 15:53
 Dilution: 1 : 200.000

Channel: DEMITRI
 Method: H:\BRO2\MAXDATA\SERGE-D\FUEL1211

Filename: 1211S006
 Operator: ATI

WA DOE WTPH-D



TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: GEOENGINEERS, INC.	DATE SAMPLED	: 12/14/92
PROJECT #	: 1957-009-R04	DATE RECEIVED	: 12/14/92
PROJECT NAME	: TIME OIL JACKPOT	DATE EXTRACTED	: 12/15/92
CLIENT I.D.	: DSP-4	DATE ANALYZED	: 12/16/92
SAMPLE MATRIX	: SOIL	UNITS	: mg/Kg
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 5
RESULTS CORRECTED FOR THE MOISTURE CONTENT		%MOISTURE	: 9.1

COMPOUNDS

RESULTS

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

660
C12 - C24
DIESEL

FUEL HYDROCARBONS
HYDROCARBON RANGE
HYDROCARBON QUANTITATION USING

1600
C24 - C34
MOTOR OIL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL

112

50-150

Analyst CLT Date 12-18-92
Reviewer HA Date 12-16-92

Page 1

Sample File : 1215SD33

Chain of Custody LABORATORY NUMBER: 9212-092

DATE 12/14/92 PAGE 1 OF 1

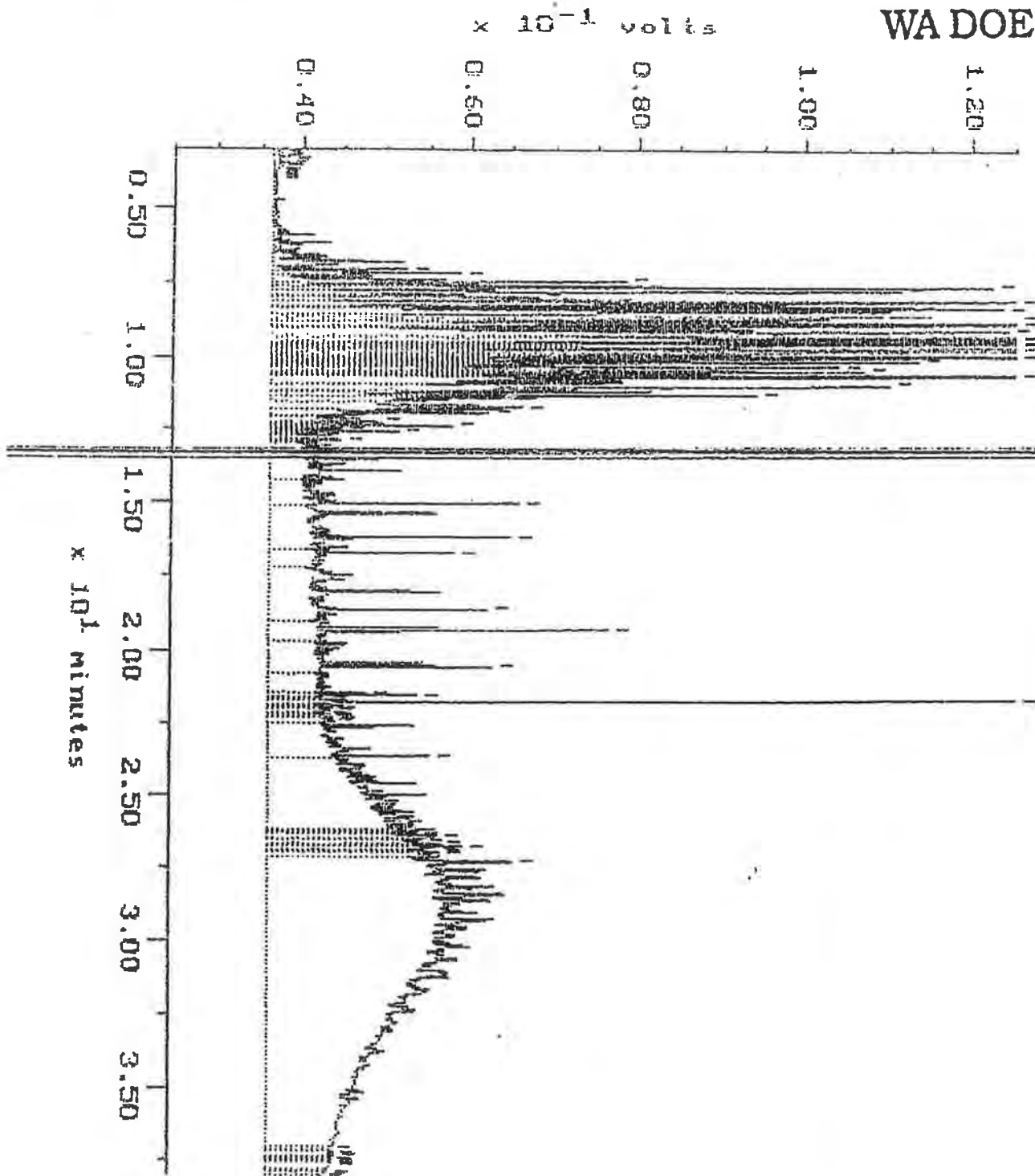
PROJECT MANAGER: <u>Don Hanson</u>		COMPANY: <u>Geo Engeneers</u>		ADDRESS: <u>5410 15th Ave NE</u>		PHONE: <u>861-6000</u>		SAMPLED BY: <u>Lisa Bona</u>	
SAMPLE DISPOSAL INSTRUCTIONS		<input checked="" type="checkbox"/> All Disposal @ \$5.00 each		<input type="checkbox"/> Return					
SAMPLE ID	DATE	TIME	MATRIX	LAB ID					
DSR-4	12/14/92	11:30	Soil	1					
HW-5		11:40		2					
HW-6		12:00		3					
					8010	Halogenated Volatiles			
					8020	Aromatic Volatiles			
					8020	BETX ONLY			
					8240	GCMS Volatiles			
					8270	GCMS BNA			
					8310	HPLC PNA			
					8080	Pesticides & PCB's			
					8080	PCB's ONLY			
					8140	Phosphate Pesticides			
					8150	Herbicides			
					WDOE PAHHH (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)				
					8080 Pesticide (4)				
					8240 ZH-EXT				
					8270				
					8150 Herbicides (2)				
					Metals (8)				
					WTPH-D (extended)				
					NUMBER OF CONTAINERS				

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT NUMBER: <u>1957-009-R04</u>	TOTAL NUMBER OF CONTAINERS: <u>3</u>		
PROJECT NAME: <u>Time O. Isakpat</u>	COC'S ANALYSIS: <u>YANNA</u>		
PURCHASE ORDER NUMBER:	RECEIVED GOOD COND/COLD: <u>Y/V</u>		
ONGOING PROJECT? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	RECEIVED VIA: <u>handed</u>		
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS			
TAT: (NORMAL) <input type="checkbox"/> 2WKS (RUSH) <input type="checkbox"/> 24HR <input type="checkbox"/> 48HRS <input type="checkbox"/> 72HRS <input type="checkbox"/> 1WK			
GREATER THAN 24 HR. NOTICE? YES <input type="checkbox"/> NO <input type="checkbox"/> (LAB USE ONLY)			
SPECIAL INSTRUCTIONS:			
<u>3 day TAT on DSR-4 to HW-5</u> <u>2 day TAT on HW-6</u>			

RELINQUISHED BY: 1.		RELINQUISHED BY: 2.		RELINQUISHED BY: 3.	
Signature: <u>Lisa Bona</u>	Time: <u>12/14/92</u>	Signature: <u>Lisa Bona</u>	Time: <u>12/14/92</u>	Signature: <u>Lisa Bona</u>	Time: <u>12/14/92</u>
Printed Name: <u>Lisa Bona</u>	Date: <u>12/14/92</u>	Printed Name: <u>Lisa Bona</u>	Date: <u>12/14/92</u>	Printed Name: <u>Lisa Bona</u>	Date: <u>12/14/92</u>
Company: <u>Geo Engeneers</u>		Company: <u>Geo Engeneers</u>		Company: <u>Geo Engeneers</u>	
RECEIVED BY: <u>Lisa Bona</u>	Time: <u>4:35</u>	RECEIVED BY: <u>Lisa Bona</u>	Time: <u>4:35</u>	RECEIVED BY: <u>Lisa Bona</u>	Time: <u>4:35</u>
Printed Name: <u>Lisa Bona</u>	Date: <u>12/14/92</u>	Printed Name: <u>Lisa Bona</u>	Date: <u>12/14/92</u>	Printed Name: <u>Lisa Bona</u>	Date: <u>12/14/92</u>
Company: <u>Geo Engeneers</u>		Company: <u>Geo Engeneers</u>		Company: <u>Geo Engeneers</u>	

Inj Vol: 1.08

WA DOE WTPH-D

x 10³ minutes

4-8-D

TIME OIL FOOD MART 01-284 (JACKPOT)
Seattle, K. 12807 Des Moines Way

(2079)

Wells, Desiree

To: Bails, John
Cc: Fisher, Teri
Subject: Jackpot Station 284

Region: NW
UST Site ID: 4050
LUST Release ID: 2079
FS ID: 45191292
Site Name: Jackpot Station 284 - Time Oil 01-284
Site Address: 12807 Des Moines Memorial Dr S, Burien (Des Moines Way S, Seattle)

Cleanup Status after File Review:
Type of Letter Sent:

Cleanup Started
MTCA - Request More Info - VCP Letter
with enclosed VCP Focus Sheet
September 26, 2002

Date Letter is to be mailed:



LUST - Letter for LUST
File Su...



LUST - Letter for New
MTCA-Mor...



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

September 26, 2002

Time Oil Company
PO Box 24447 Terminal Annex
Seattle WA 98124

Dear Time Oil Company:

Re: Jackpot Station 284 - Time Oil 01-284
12807 Des Moines Way S, Seattle (12807 Des Moines Memorial Dr S, Burien)
Ecology UST #4050

The Department of Ecology (Ecology) is currently reviewing site files related to leaking underground storage tank sites. Since receipt of your reports (see below), some of the cleanup levels for petroleum products have changed due to amendments to the Model Toxics Control Act, Washington Administrative Code Chapter 173-340.

- Underground Storage Tank Removal - Jackpot Food Mart 01-284, prepared for Mr. Joe Hickey - Department of Ecology, prepared by Time Oil Co., May 20, 1991
- Report of Geoenvironmental Services Subsurface Soil Explorations and Remediation - Jackpot Food Mart 01-284, prepared for Time Oil Co., prepared by GeoEngineers Inc., April 28, 1993
- Remediation of Former Used Motor Oil Tank Bed and Site Assessment - Jackpot Food Mart 01-284, prepared for Department of Ecology, prepared by Time Oil Co., October 25, 1993
- Remedial Investigation Report - Time Oil Facility No. 01-284, prepared for Time Oil Co., prepared by Alisto Engineering Group, November 12, 1997
- Re: Submittal of "Remedial Investigation Report" for Jackpot Food Mart Letter, prepared for Mr. John Bails - Department of Ecology, prepared by Ms. Anastasia E. Duarte-Wilkinson - Time Oil Co., December 4, 1997

Based upon the above listed information, Ecology has determined that not all waste oil, diesel, gasoline, and PCB contamination above cleanup levels has been removed from the soils, associated with the December 12, 1990 and January 2, 1991 removal of five underground storage



tanks. Oil and Diesel impacted soils remain beneath and slightly south of the Jackpot Food Mart store. Gasoline impacted soils remain to the east. A Vapor Extraction System was proposed and tested in March 1997.

Ecology is requesting any updated information you may have on the cleanup activities at this site by October 26, 2002. Please submit the documents to John Bails at the Department of Ecology, Northwest Regional Office – Toxics Cleanup Program, Attn: John Bails, 3190 160th Ave SE, Bellevue, WA 98008-5452. Ecology's objective is to facilitate the cleanup process at the site, with the goal of moving the site into a "Reported Cleaned Up" or "No Further Action" status with regard to the above mentioned petroleum release.

Your site is eligible for the Voluntary Cleanup Program. The Voluntary Cleanup Program is a fee-based service that Ecology offers to parties who want a detailed review of independent cleanup activities conducted at their site, and who want a determination documented by a letter. The Voluntary Cleanup Program offers a range of opportunities for assistance on completing the cleanup of your site, including the review of plans and proposals. Eventually, after the successful review of a completed cleanup, the result is a "No Further Action" letter. The "No Further Action" letter may be useful in the future to a buyer, seller, or financial institution in the event of a property transaction.

A "Reported Cleaned Up" status is not the same as a "No Further Action" status. It does not involve a detailed review by Ecology. The "Reported Cleaned Up" status may be based on the opinion of the site owner, consultant, or contractor as stated in the reports submitted to Ecology.

Your reports will be kept in the Central Files of the Northwest Regional Office of Ecology for public review by appointment only. Appointments can be made to review files by calling the Northwest Regional Office Records Center, at (425) 649-7190.

If you have questions about any of the information presented in this letter, please contact John Bails at (425) 649-7099.

Sincerely,



Desiree L. Wells

Toxics Cleanup Program
Department of Ecology

Enclosure

cc: John Bails, State of Washington Department of Ecology, NWRO-TCP
Teri Fisher, State of Washington Department of Ecology, NWRO-TCP

LUST File Summary

Site Name: Jackpot Station 284 - Time Oil 01-284
ID: FS # 45191292 UST # 4050 LUSTS # 2079
Address: 12807 Des Moines Way S, Seattle
County: King

Reference:
Underground Storage Tank Removal - Jackpot Food Mart 01-284, prepared for Mr. Joe Hickey - Department of Ecology, prepared by Time Oil Co., May 20, 1991

Report of Geoenvironmental Services Subsurface Soil Explorations and Remediation - Jackpot Food Mart 01-284, prepared for Time Oil Co., prepared by GeoEngineers Inc., April 28, 1993

Remediation of Former Used Motor Oil Tank Bed and Site Assessment - Jackpot Food Mart 01-284, prepared for Department of Ecology, prepared by Time Oil Co., October 25, 1993

Remedial Investigation Report - Time Oil Facility No. 01-284, prepared for Time Oil Co., prepared by Alisto Engineering Group, November 12, 1997

Re: Submittal of "Remedial Investigation Report" for Jackpot Food Mart Letter, prepared for Mr. John Bails - Department of Ecology, prepared by Ms. Anastasia E. Duarte-Wilkinson - Time Oil Co., December 4, 1997

Summary: **Location and Reason for Cleanup:**
Located at intersection between S 128th St and Des Moines Memorial Dr S
Correct street address is 12807 Des Moines Memorial Dr S, Burien 98168-2843
Parcel #1623049066
Reason for Cleanup was a facility upgrade in December 1990

Historical and Current Owner:
Prior: Hudson service station with at least one service bay
Current Use: Shell Jackpot Foodmart
Current Tax Payer: Time Oil Co
PO Box 24447 Terminal Annex
Seattle WA 98124

Cleanup:
December 12, 1990:

Removed from common excavation	Tank 261	8000-gal	unleaded gas
	Tank 364	8000-gal	unleaded gas
	Tank 428	10,000-gal	leaded gas

Highly contaminated soil near fill ends of both 8000-gal gas tanks
100' perforated piping placed into excavation at 8' to 10' bgs for future in-situ remediation
Excavated soil, with imported soil, used as backfill
No GW encountered in gas excavation

Sample 1 Beneath fill end of east tank at 12' bgs 0.91 ppm benzene

January 2, 1991:
Removed from west portion of property from a common excavation

	Tank 1	550-gal	heating oil
	Tank 2	300-gal	waste oil

Evidence of overfill at waste oil tank

Lateral migration of contamination had occurred at a depth of 10' bgs.

Excavation depth was 12' bgs

17 cu yd from heating oil and waste oil excavation excavated and stockpiled on site, with 5 cu yd disposed off site and the remainder (12 cu yd) used as backfill

Asphalt paving not replaced following 1991 excavation activities

No GW encountered in waste oil excavation

Heating Oil - CLEAN

Sample 8 Waste oil tank at 7' bgs 4000 ppm TPH-Oil

Sample 10 Waste oil tank at 10' bgs 4700 ppm TPH-Oil
1 ppm PCB (Aroclor 1254)

May 7, 1991: Contaminated soil had been excavated, with a venting system installed. There were originally four soil stockpiles behind the station. One remains, with three removed from the site. Some contamination remains in place.

April 28, 1993:

Gas excavation

Conducted a VES test and monitored combustible vapor concentrations vented from gas excavation

Heating oil and Waste oil excavation

Encountered Jan 1991 remaining waste oil PCS stockpile on site

Over excavated heating oil and waste oil excavation on December 8, 1992

Lateral contamination from waste oil UST west beneath adjacent Albertson's parking lot

Over excavation included parking lot, off-site

Depth of excavation to 28' bgs

200 cu yd clean overburden soil stockpiled on site -

Samples CSP-1 through CSP-5 - CLEAN

720 cu yd PCS stockpiled on Albertsons property -

Samples DSP-1 through DSP-4 - 5,900 ppm, 8,100 ppm, & 37,000 ppm TPH-D and TPH-Oil

Backfilled with clean imported fill

920 cu yd (both stockpiles) disposed at Woodworth & Company, Tacoma

Installed Dec 29, 1992 an oil/water collection sump (to 15.5' bgs) in heating oil/waste oil excavation during backfilling, in order to capture contaminated perched groundwater seeping from east wall (from under the Food Mart building) of the waste oil excavation toward Albertson's property

Sump checked Jan 15, 1993: No free product, but 4' water was present in sump

Removed 110 gallons water and transported/treated at Coastal Tank Company, Seattle

Sump sample collected January 8, 1997: no hydrocarbons detected

Decommissioned sump February 6, 1997 by filling

Perched groundwater at 9' bgs, with a heavy sheen, seeping from eastern wall

Source was surface water that percolated into excavation due to not being paved in 1991

Groundwater depth is 60' to 100' bgs

Removed 3,700 gallons water on Dec 16, 1992 by Coastal Tank for treatment/ disposal

14 samples collected- **Final over excavation samples:**

HW-3	Waste Oil Base at 14' bgs		2,400 ppm WTPH-Oil
HW-4	Waste Oil East wall at 10' bgs	High Sheen	6,600 ppm WTPH-Oil
HW-14	Waste Oil East wall at 10' bgs	High Sheen	1,300 ppm WTPH-G
HW-12	Waste Oil South wall at 16' bgs	High Sheen	2,700 ppm WTPH-G

PCS remains in eastern wall (at 9' to 14' bgs) and southern wall (at 16' bgs) from waste oil, yet excavation limited east under Food Mart due to building and sewer pipe, and south under Albertson's parking lot due to time

Because PCS was used as backfill in the **former gasoline UST excavation**, a site assessment was initiated in February 1993. 7 soil borings were advanced, and 2 vapor extraction wells were installed (B-1 through B-9):

B-2, B-7, B-8	drilled after VES test to evaluate for contamination remaining in the backfill and in native soil of former gas UST excavation
B-1, B-4, B-5, B-6	drilled to evaluate lateral and vertical extent of soil contamination south, southwest and southeast of heating oil and waste oil excavation
B-3	drilled to confirm contaminated soil had been removed from base of south end of waste oil excavation
B-9	drilled to access whether the new gas USTS, located in northeast portion of site, were contributing to contamination of waste oil excavation, B-1, & B-7

B-1-12	Soil Boring at 31' bgs High Sheen	30 ppm Xylenes	13,000 ppm TPH-G
B-1-18	Soil Boring at 46' bgs Med Sheen	23 ppm Xylenes	7,700 ppm TPH-G
B-7-7	Soil Boring at 34.5' bgs High Sheen		120 ppm TPH-G

November 1997:

Extent of soil contamination is well defined. Oil- and diesel-impacted soils limited to area beneath and slightly south of the existing Jackpot Food Mart store. Gasoline-impacted soils located in same vicinity and extend slightly to the east in the direction of the former gasoline tanks.

Installed two vapor extraction wells (VP-101 and VP-102) on February 6, 1997

Advanced one soil boring (B-10) on February 6, 1997

No groundwater encountered

No hydrocarbons detected

March 7, 1997: Tested VES system. SVE appears feasible for site remediation of residual hydrocarbons

Action:

Time Oil
Contact ~~Exxon~~ to see if any additional cleanup was completed at the site and/or if the SVE system has been utilized

Reviewed by:

Desiree L. Wells 09/18/2002

South 128th Street

New Tank Location

Des Moines Way South

Existing Store

Heating Oil

8, 10, 11, 12
Waste Oil

Former Gasoline Tanks

Pump Islands

Perforated Piping

Explanation
● = Sampling Locations



TIME OIL CO. 2737 W. Commodore Way, Seattle, WA 98119
Attachment 1 - SITE PLAN
Jackpot Food Mart Property No. 01-284 12807 Des Moines Way, Seattle WA
4/91

Attachment 2
ANALYTICAL RESULTS (ppm)

Gasoline Tanks:

<u>Sample No.</u>	<u>Depth (ft.)</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
1	12	6	0.91	2.0	0.13	2.38
2	12	ND	ND	1	2	3
3	13	8	0.13	0.26	0.034	3.1
4	13	ND	ND	0.001	0.012	0.012
5	15	ND	ND	ND	ND	ND
6	10	ND	0.001	ND	ND	ND
7	18	ND	ND	ND	ND	ND

Oil Tanks:

<u>Sample No.</u>	<u>Depth (ft.)</u>	<u>TPH</u>	<u>TCLP Lead</u>	<u>Methylene Chloride</u>	<u>PCBs</u>	<u>Toluene</u>	<u>Ethyl benzene</u>	<u>Xylenes</u>
8	7	4000	17	0.16	ND	0.004	0.005	0.054
9-HOT	10	590	0.12	0.02	ND	ND	ND	ND
10	10	4700	2	0.01	1	0.098	0.17	1.4
11	11	1300	0.05	0.01	ND	ND	0.028	0.420
12	12	900	0.04	0.01	ND	0.008	0.036	0.410

Soil Stockpile:

<u>Sample No.</u>	<u>TCLP Lead</u>
W01	4.5

TABLE 2
SUMMARY OF SOIL FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS¹
HEATING OIL AND WASTE OIL UST EXCAVATION

Sample Number	Date Sampled	Sample Location ²	Depth of Sample (feet)	Field Screening Results ³		Volatile Aromatic Hydrocarbons ⁴ (EPA Method 8020) (mg/kg)					Gasoline-range Hydrocarbons (Ecology Method WTPH-G) (mg/kg)	Diesel- and Oil-range Hydrocarbons (Ecology Method WTPH-D [extended]) (mg/kg)	
				Headspace Vapors (ppm)	Sheen	B	E	T	X			Diesel-range	Oil-range
HW-1	12/08/92	Base	12	<100	SS	-	-	-	-	-	-	<29	150
HW-2	12/08/92	North wall	10	<100	NS	-	-	-	-	-	-	<28	<110
HW-3 ⁵	12/08/92	Base	14	<100	SS	<0.029	0.11	<0.029	1.6	68	68	280	2,400
HW-4 ⁵	12/08/92	East wall	10	-	HS	-	-	-	-	-	-	1,200	6,600
HW-5	12/14/92	Base	16	-	SS	-	-	-	-	-	-	<27	<110
HW-6	12/14/92	West wall	14	-	SS	-	-	-	-	-	-	<27	<110
HW-7	12/16/92	North wall	14	<100	SS	-	-	-	-	-	-	<27	<110
HW-8	12/17/92	Base	19	<100	SS	-	-	-	-	-	-	<27	<110
HW-9	12/17/92	Base	23	<100	SS	-	-	-	-	-	-	<27	<110
HW-10 ⁶	12/18/92	Base	28	<100	SS	-	-	-	-	-	-	-	-
HW-11	12/18/92	Base	16	<100	SS	-	-	-	-	<6	<6	<28	<110
HW-12 ⁷	12/18/92	South wall	16	800	HS	<0.027	0.64	0.076	3.1	2,700	2,700	410	640
HW-13	12/18/92	West wall	25	110	MS	-	-	-	-	32	32	34	<110
HW-14 ⁷	12/29/92	East wall	10	320	HS	<0.027	0.18	<0.027	1.3	1,300	1,300	470	1,400
MTCA (Model Toxics Control Act) Method A Soil Cleanup Levels						0.5	20.0	40.0	20.0	100.0	200.0	200.0	200.0

Notes:

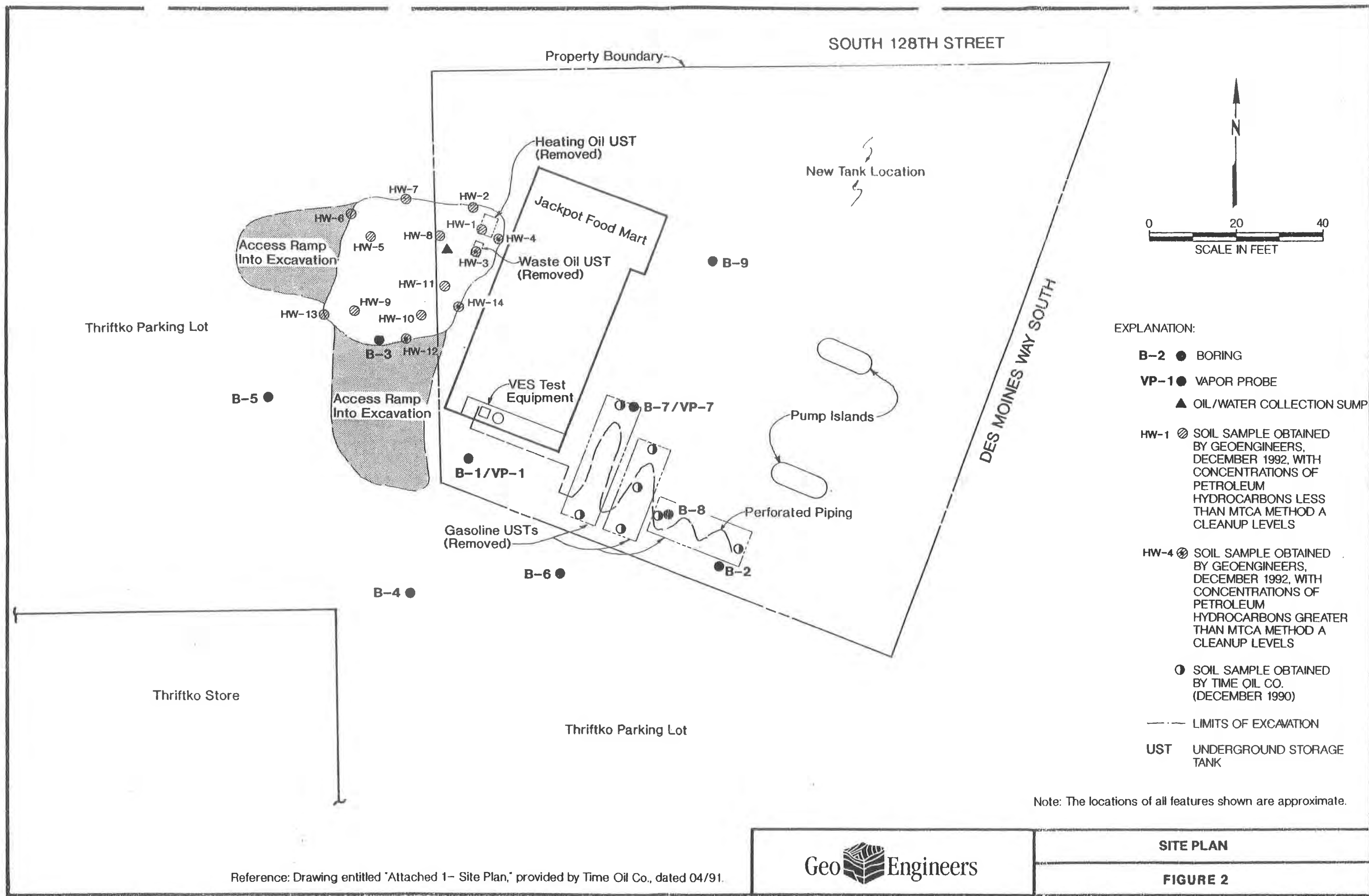
- ¹Laboratory reports are presented in Appendix B. Chemical analyses performed by ATI (Analytical Technologies, Inc.) of Renton, Washington.
- ²Approximate sample locations are shown in Figure 2.
- ³Field screening procedures are described in Appendix A. NS = no sheen; SS = slight sheen; MS = moderate sheen; HS = heavy sheen.
- ⁴B = benzene, E = ethylbenzene, T = toluene, X = xylenes
- ⁵Hydrocarbons detected in this sample were primarily in the heavy oil-range based on our interpretation of the sample chromatogram.
- ⁶Sample analyzed for hydrocarbon identification by Ecology Method WTPH-HCID. Gasoline-, diesel- and oil-range hydrocarbons were not detected.
- ⁷Hydrocarbons detected in this sample were primarily in the gasoline- and heavy oil-ranges based on our interpretation of the sample chromatogram.

ppm = parts per million

mg/kg = milligrams per kilogram

— = not tested

Shaded areas indicate concentrations that exceed MTCA Method A soil cleanup levels.



Reference: Drawing entitled "Attached 1- Site Plan," provided by Time Oil Co., dated 04/91.

Geo  Engineers

SITE PLAN

FIGURE 2

TABLE 4 (Page 1 of 2)
SUMMARY OF SOIL FIELD SCREENING AND CHEMICAL ANALYTICAL RESULTS¹
SOIL BORINGS

Sample Number ²	Date Sampled	Depth of Sample (feet)	Field Screening Results ³		Volatile Aromatic Hydrocarbons ⁴				WTPH-HCID ⁵			Gasoline-range Hydrocarbons ⁶ (mg/kg)	Diesel-range Hydrocarbons ⁷ (mg/kg)	Oil-range Hydrocarbons ⁸ (mg/kg)	Total Lead ⁹ (mg/kg)
			Headspace Vapors (ppm)	Sheen	B	E	T	X	Gasoline	Diesel	Heavy Oil				
B-1-7	02/01/93	23.5	<100	NS	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	<11	<43	-
B-1-12	02/01/93	31.0	500	HS	<1.4	3.5	2.1	30	Detected	Detected	Detected	13,000	1,100	720	-
B-1-18	02/01/93	46.0	900	MS	<1.3	1.5	<1.3	23	Detected	Detected	Detected	7,700	1,100	580	-
B-1-21	02/01/93	53.0	<100	SS	<0.026	<0.026	<0.026	<0.026	-	-	-	<5	<11	<42	-
B-2-3	02/01/93	11.5	<100	SS	<0.027	<0.027	0.072	0.076	-	-	-	6	-	-	-
B-3-3	02/02/93	18.5	<100	SS	<0.027	<0.027	0.052	0.033	-	-	-	<5	<11	<44	-
B-3-5	02/02/93	29.0	<100	SS	<0.027	<0.027	0.037	0.033	-	-	-	-	<11	<43	-
B-4-7	02/02/93	34.0	<100	NS	<0.027	<0.027	<0.027	<0.027	-	-	-	13	<11	<43	-
B-5-7	02/02/93	34.0	<100	SS	<0.027	<0.027	<0.027	<0.027	-	-	-	11	<11	<43	-
B-6-6	02/03/93	29.0	<100	SS	<0.027	<0.027	<0.027	<0.027	-	-	-	8	<11	<43	-
B-7-2	02/03/93	9.5	<100	SS	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	-	-	2.0
B-7-3	02/03/93	14.5	<100	SS	<0.027	<0.027	0.032	0.039	-	-	-	15	-	-	-
B-7-7	02/03/93	34.5	1,000	HS	0.034	0.69	1.1	5.1	-	-	-	120	<11	<42	-
B-7-9	02/03/93	44.5	<100	SS	<0.026	<0.026	<0.026	<0.026	-	-	-	<5	<11	<42	-
B-8-2	02/04/93	9.0	<100	SS	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	-	-	14
B-8-4	02/04/93	13.5	<100	SS	<0.027	<0.027	<0.027	<0.027	-	-	-	<5	<11	<44	3.5
B-9-6	02/04/93	29.0	<100	SS	<0.026	<0.026	<0.026	<0.026	-	-	-	<5	<11	<42	-
MTCA ¹⁰ Method A Soil Cleanup Levels					0.50	20	40	20				100	200	200	250.0

Notes appear on page 2 of 2.

TABLE 5
SUMMARY OF SOIL FIELD SCREENING RESULTS AND CHEMICAL ANALYTICAL RESULTS¹
SOIL STOCKPILES

Sample Number	Date Sampled	Field Screening Results ²		Diesel- and Oil-range Hydrocarbons ³		Total Petroleum Hydrocarbons ⁴ (mg/kg)	Volatile Organic Compounds ⁵ (mg/kg)	Semivolatile Organic Compounds ⁶ (mg/kg)	Metals ⁷ (mg/kg)														
		Headspace Vapors (ppm)	Sheen	Oil-range (mg/kg)					As	Ba	Cd	Cr	Cu	Pb	Ni								
				Diesel-range	Oil-range																		
Overburden Soil Stockpile																							
CSP-1	12/09/92	<100	NS	<30	<120	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CSP-2	12/09/92	<100	SS	55	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CSP-3	12/15/92	<100	SS	260	<110	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CSP-4	12/15/92	<100	SS	100	<110	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CSP-5	12/16/92	<100	SS	190	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Diesel- and Oil-contaminated Soil Stockpile																							
DSP-1	12/08/92	<100	HS	220	1,700	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
DSP-2	12/08/92	-	HS	1,300	8,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
DSP-3	12/09/92	1,100	HS	5,900	37,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
DSP-4	12/14/92	-	HS	660	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
DSP-5 ⁸	12/15/92	400	HS	-	-	6,500	xylenes 1.5	naphthalene 0.54 bis(2-ethylhexyl)phthalate 0.71 2-methylnaphthalene 1.1 phenanthrene 0.19 pyrene 0.30	1.5	42	0.35	19	13	17	28	23							
DSP-6 ⁸	12/15/92	240	HS	-	-	860	xylenes 0.94 pyrene	0.040 bis(2-ethylhexyl)phthalate	2.3	48	0.34	17	15	4.7	28				37				
DSP-7 ⁸	12/15/92	140	HS	-	-	4,400	xylenes 0.58 pyrene	0.24 bis(2-ethylhexyl)phthalate	1.4	55	0.40	22	14	13	34								

Notes:

¹Laboratory reports are presented in Appendix B. Chemical analyses performed by ATI (Analytical Technologies, Inc.) of Renton, Washington.

²Field screening procedures are described in Appendix A. NS = no sheen, SS = slight sheen, HS = heavy sheen.

³Diesel- and oil-range hydrocarbons analyzed by Ecology Method WTPH-D (extended range).

⁴Total petroleum hydrocarbons analyzed by Ecology Method WTPH-418.1 modified.

⁵Volatile organic compounds analyzed by EPA Method 8240.

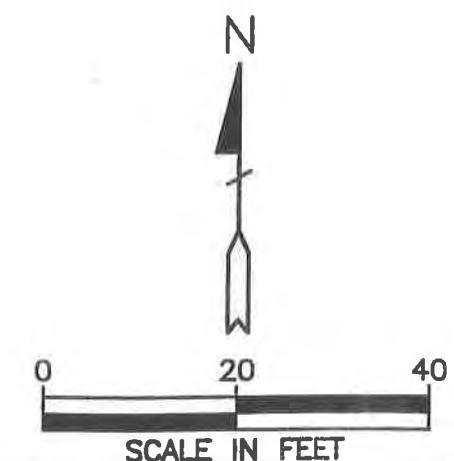
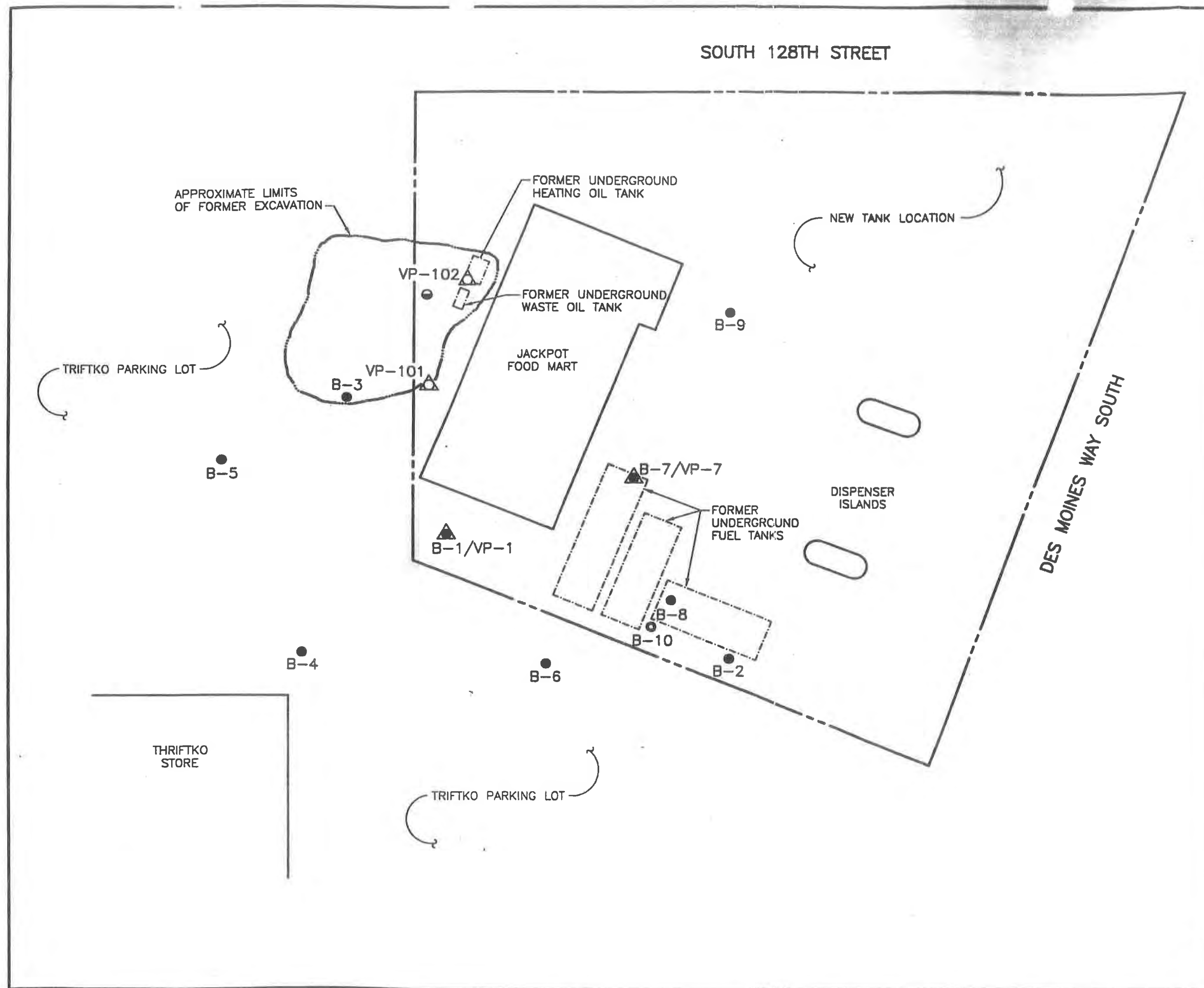
⁶Semivolatile organic compounds analyzed by EPA Method 8270.

⁷Metals analyzed by EPA 6000 and 7000 series methodologies. As = arsenic, Ba = barium, Cd = cadmium, Cr = chromium, Cu = copper, Pb = lead, Ni = nickel, Zn = zinc. Only those metals that were detected are listed.

⁸Analyses required by Tacoma-Pierce County Health Department disposal criteria. Only those compounds that were detected are listed. Sample also analyzed for PCBs (polychlorinated biphenyls).

ppm = parts per million; mg/kg = milligrams per kilogram; "-" = not tested

Shaded areas indicate concentrations that exceed MTCA Method A soil cleanup levels.



LEGEND

- ▲ PREVIOUSLY INSTALLED VAPOR POINT
- PREVIOUSLY DRILLED SOIL BORING
- △ VAPOR POINT
- SOIL BORING
- OIL/WATER COLLECTION SUMP

FIGURE 2

SITE PLAN

TIME OIL CO. FACILITY NO. 01-284
12807 DES MOINES WAY SOUTH
SEATTLE, WASHINGTON

PROJECT NO. 20-023

SEATTLE
TACOMA
PORTLAND
STOCKTON
RENO
RICHMOND
LOS ANGELES



TIME OIL CO.

2737 WEST COMMODORE WAY
P.O. BOX 24447

SEATTLE, WA 98199-1233
SEATTLE, WA 98124-0447

November 21, 2002

PHONE 285-2400
CABLE ADDRESS: TIMOIL
(FAX) 206-283-8036

Release # 2079
Time Oil 01-284
JACKPOT

SMILE

RECEIVED

NOV 22 2002

DEPT OF ECOLOGY

Mr. John Bails
Washington State Department of Ecology
Northwest Regional Office
3190 - 160th Avenue Southeast
Bellevue, Washington 98008-5452

RE: Status of Cleanup Activities at
Jackpot Food Mart/12807 Des Moines Way/Seattle, Washington (Property No. 01-284)

Dear Mr. Bails:

This letter has been prepared in response to Ecology's correspondence dated September 26, 2002, pertaining to the above-referenced site.

In December 1990, three gasoline tanks were removed from the subject site as part of a facility upgrade. Discolored soil was visible on the sidewalls and floor of the excavation and field screening detected elevated levels of organic vapors from samples collected in these areas. In January 1991, two additional tanks were removed from the west portion of the property: a 550-gallon tank which formerly contained heating oil and a 300-gallon tank which formerly contained waste oil. Although neither tank appeared to have leaked, there was evidence of overfilling near the waste oil tank.

In December 1992, remediation efforts were undertaken to address impacted soils in the vicinity of the former waste oil and heating oil tanks. Because contamination was thought to be limited, it was estimated that the removal of approximately 75 cubic yards of soil from the floor and sidewalls of the former oil tank bed would be sufficient to remediate this area. However, as overburden was removed from the excavation, it became apparent that contamination was much more widespread than anticipated. Lateral migration appeared to have occurred to the south and west, impacting soils beneath an adjacent parking lot owned by Albertson's. The overexcavation of impacted soils was continued until space and equipment limitations prohibited further removal. The final area of the excavation extended to a depth of 19 feet in the north half and to 28 feet in the south half. Approximately 900 yards of oil-impacted soils were removed. During overexcavation activities, a small amount of perched water (due to surface drainage) was encountered in the excavation. A sump was installed to collect this water. Because analytical results indicated that water within the sump was not impacted by hydrocarbons, it was decommissioned in February 1997.

Site assessment activities were conducted in February 1993 and February 1997. Field activities included the advancement of eight borings and installation of four vapor extraction wells to assist in determining if contamination was present in the area of the former gasoline tanks and to determine if cleanup was complete in the area of the former oil tanks. Data collected during the investigations suggested that the extent of soil contamination at the subject site is well defined. Oil- and diesel-impacted soils appear to remain limited to the area beneath and slightly to the south of the existing store. Gasoline-impacted soils appear to be located in the same vicinity and extend slightly to the east of the former tank bed. With the exception of a small amount of contamination indicated in the sample collected from the south sidewall of the remedial excavation, it appears as though contamination has been removed from the adjacent property. Pilot testing conducted during the February 1997 investigation indicated that vapor extraction would be feasible for addressing hydrocarbon-impacted soils associated with the site.

✓ Although Time Oil intends to address hydrocarbon impacts associated with the subject property, remediation efforts have not been implemented to date and no additional data has been collected since

the submittal of Alison Engineering Group's "Remedial Investigation Report" dated November 1997, was forwarded to Ecology on December 4, 1997.

I hope that the information contained in this letter is sufficient to update your records. Should you have any questions or require additional site-specific information, please do not hesitate to contact me at (206) 286-4495.

Sincerely,
Time Oil Co.

A handwritten signature in cursive script, reading "Anastasia E. Duarte-Wilkinson".

Anastasia E. Duarte-Wilkinson
Environmental Toxicologist

WASHINGTON
OREGON
CALIFORNIA
NEVADA
IDAHO



4050/2079

TIME OIL CO.

2737 WEST COMMODORE WAY
P.O. BOX 24447

SEATTLE, WA 98199-1233
SEATTLE, WA 98124-0447

RECEIVED
DEC 05 1997
DEPT. OF ECOLOGY

PHONE (206) 285-2400
FAX (206) 283-8036

December 4, 1997

Mr. John Bails
Washington State Department of Ecology
Northwest Region
3190 160th SE
Bellevue, Washington 98008-5452

Reference ID 2079
TIME OIL 01-284
KING/SEATTLE

RE: Submittal of "Remedial Investigation Report" for
Jackpot Food Mart, 12807 Des Moines Way South, Seattle, Washington (Property No. 01-284)

Dear Mr. Bails,

During a facility upgrade at the above-referenced site in December 1990, soils which appeared to be impacted with hydrocarbons were discovered in the vicinity of the underground storage tanks. In December 1992, over 900 cubic yards of impacted soils were overexcavated from the vicinity of the former waste oil and heating oil tanks, and a site assessment was completed. Data collected during the site work indicated that the extent of soil contamination at the subject site is well defined. Oil- and diesel-impacted soils appear to remain limited to the area beneath and slightly to the south of the existing Jackpot Food Mart store. Gasoline-impacted soils appear to be located in the same vicinity and extend slightly to the east in the vicinity of the former gasoline tanks.

Please find enclosed a copy of Alisto Engineering Group's "Remedial Investigation Report" dated November 1997. This report contains the results of a pilot test conducted to evaluate the feasibility of utilizing vapor extraction to remediate the site, describes the abandonment of a water collection sump, and discusses the installation and operation of a proposed remediation system.

For your convenience, a summary of previous site activities is attached.

Remedial Investigation - January 1997

Abandonment of Water Collection Sump

During the removal of oil-impacted soils, perched groundwater with a heavy sheen was encountered at a depth of 9 feet below the existing grade. This water appeared to be entering the excavation from seeps on the east sidewall and was most likely a result of surface infiltration through the tank bed backfill. To assist in further overexcavation, approximately 3,700 gallons of water were removed from the excavation with a vacuum truck on December 16, 1992. Although the water did not readily appear to recharge, a collection sump was installed in the center of the excavation on December 29, 1992. The sump consisted of 10-inch diameter corrugated piping which extended to a depth of 15.5 feet below ground surface. The piping was slotted from a depth of approximately 8 feet to 11 feet, and solid (to allow the collection of water) from 11 feet to 15.5 feet. Pea gravel backfill was placed around the slotted interval to facilitate the flow of water into the sump. On January 15, 1993, approximately 110 additional gallons of water were removed from the sump.

On January 8, 1997, depth to water in the sump was determined to be 8.5 feet below ground surface (bgs) as measured by a representative of Alisto. Following the purging of approximately 110 gallons of water from the sump, a sample was collected. This sample was analyzed for flashpoint, metals, volatiles by EPA Method 8260, PCBs by EPA Method 8080, and total oil and grease by EPA Method 418.1. With the exception of 0.010 ppm barium, no other constituents were identified in the sample at detectable

concentrations. Flashpoint was found to be less than 140 degrees Fahrenheit. Laboratory reports are included as Appendix C in Alisto's report.

Because analytical results indicated that water within the sump was not impacted by hydrocarbons, it was decommissioned by Cascade drilling on February 6, 1997, by filling it within three feet of ground surface with crushed rock and filling the remainder of the piping with concrete to ground surface.

Installation of Additional Wells

On February 6, 1997, two vapor extraction wells (VP-101 and VP-102) were installed and one soil boring (B-10) was advanced on the subject site. The vapor extraction wells were installed for use in a pilot test and a potential future remediation system, while B-10 was advanced to confirm that soil cleanup near the former tank bed was complete.

During field activities, soil generally consisted of fill to a depth of 6 feet to 7 feet bgs, and was underlain by glacial till (silty sand with varying degrees of gravel and cobbles) to a depth of 21 feet to 41 feet. Dense sand was encountered beneath the till to the extent of each boring. Groundwater was not observed in any of the borings. Water well logs indicate that static water in the area is generally encountered at depths of 78 feet to 168 feet bgs.

Each of the wells were installed and borings were advanced as follows:

Well No.	Casing Diameter (in.)	Total Depth (ft.)	Screened Interval (ft.)	Purpose
VW-101	4	55	40	Vapor extraction below south portion of oil tank excavation
VW-102	2	30	25	Vapor extraction below north portion of oil tank excavation
B-10	-	56	-	Verification that soils below former tank bed are not impacted

The casing diameter, well depth, and screened interval of each well was selected by a representative of Alisto based on the proposed use of each well. Each of the wells was constructed with 0.020-inch slotted casing. Figure 2 in the attached report includes drilling locations while Appendix B contains boring logs and well construction details.

Soil samples collected from each of the drilling locations (VP-101 at 10 feet, 15 feet, 30 feet, and 55 feet bgs; VP-102 at 10 feet, 15 feet, 20 feet and 30 feet bgs; and B-10 at 20 feet, 30 feet, 40 feet, and 55 feet bgs) were submitted to a laboratory and analyzed by WTPH-HCID. None of the samples contained detectable concentrations of hydrocarbons. Laboratory reports are included as Appendix C in Alisto's report.

Remediation Pilot Testing

On March 7, 1997, a pilot test was performed using VP-1, VP-7, VP-101, and VP-102 to determine if vapor extraction is feasible for remediation of impacted soils at the subject site. The test was performed by applying a vacuum with a Rotron DR 454 alternately to VP-1 (120 minutes), VP-7 (120 minutes), and VP-101 (140 minutes), while measuring vacuum at each of the other wells to determine the radius-of-influence. Air samples were collected from each extraction well near the end of the tests and analyzed for volatile organic compounds using EPA Method TO-14. Test results are summarized below:

Test 1:

Extraction Well: VP-1

Vacuum and Extraction flow rate: up to 23 inches of water at 76 cubic feet per minute

Analytical results: 2773 ppmv TNMOC, 0.070 ppmv benzene, 0.880 ppmv toluene, 2.54 ppmv xylenes

Vacuum measurements at:

VP-7 (40 feet from VP-1): 0.95 inches of water

VP-101 (30.5 feet from VP-1): 1.2 inches of water

VP-102 (54 feet from VP-1): 0.90 inches of water

Test 2:

Extraction Well: VP-7

Vacuum and Extraction flow rate: 24 inches of water at 85 cubic feet per minute

Analytical results: 180 ppmv TNMOC, 0.054 ppmv benzene, 1.90 ppmv toluene, 1.20 ppmv ethylbenzene, and 15.30 ppmv xylenes

Vacuum measurements at:

VP-1 (40 feet from VP-7): 1.1 inches of water

VP-101 (47 feet from VP-7): 0.74 inches of water

VP-102 (54 feet from VP-7): 0.66 inches of water

Test 3:

Extraction Well: VP-101

Vacuum and Extraction flow rate: 22 inches of water at 107 cubic feet per minute

Analytical results: 610 ppmv TNMOC, 0.84 ppmv toluene, 0.15 ppmv xylenes

Vacuum measurements at:

VP-1 (30.5 feet from VP-101): 1.0 inches of water

VP-7 (47 feet from VP-101): 3.1 inches of water

VP-102 (24 feet from VP-101): 1.8 inches of water

Results of the pilot test indicate that vapor extraction is feasible for remediating hydrocarbon-impacted soils at the subject site, and that the radius of influence observed during pilot testing will be sufficient for addressing the zone of impacted soils. Laboratory reports for vapor samples are included as Appendix C in Alisto's report.

Proposed Remediation System

Data collected to date indicate that the extent of soil impacts at the subject site are well defined and very limited. It does not appear as though groundwater has been impacted, as soil impacts appear to exist primarily in a zone extending to 45 feet below ground surface. Accordingly, remediation at the subject site would be conducted to reduce hydrocarbon concentrations in soils to protect human health and the environment.

Based on data collected during the pilot test, Alisto is proposing the installation of a vapor extraction system which incorporates VP-1, VP-7, VP-101. Piping would be run from each of the wells to a blower located within a remediation system compound. Extracted vapors would be abated with carbon or an IC engine to levels acceptable for discharge. Prior to the installation of the remediation system, appropriate permits would be obtained from the Puget Sound Air Pollution Control Agency, the Burien Fire Department, and any other applicable agencies. The preliminary layout of the proposed vapor extraction system, schematic details, and a process and instrumentation diagram are included as Appendix E of Alisto's report.

I hope that the information contained in this report is sufficient for your records. If you have any questions regarding this letter, or the information contained within, please contact me at (206) 286-4495.

Sincerely,
Time Oil Co.

Anastasia E. Duarte-Wilkinson
Anastasia E. Duarte-Wilkinson
Environmental Toxicologist

004050

SEATTLE
TACOMA
PORTLAND
STOCKTON
RENO
RICHMOND
LOS ANGELES



TIME OIL CO.

2737 WEST COMMODORE WAY
P.O. BOX 24447

SEATTLE, WA 98199-1233
SEATTLE, WA 98124-0447

October 25, 1993

PHONE 285-2400
CABLE ADDRESS: TIMOIL
(FAX) 206-283-8036

RECEIVED

OCT 27 1993

DEPT. OF ECOLOGY

Washington State Department of Ecology
Underground Storage Tank Section
3190 - 160th Ave. SE
Bellevue, Washington 98008-5452

RE: Remediation of Former Used Motor Oil Tank Bed and Site Assessment
Jackpot Food Mart, 12807 Des Moines Way, Seattle, WA (Property No.01-284)

To Whom It May Concern: 22807

This report has been prepared to provide you with information regarding the completion of a site assessment in the vicinity of former gasoline tanks, and the overexcavation of oil-impacted soils associated with former heating oil and used motor oil tanks at the above-referenced site. Consultant services were provided by GeoEngineers and contractor services were provided by Glacier Environmental Contractors. Please find enclosed a copy of GeoEngineer's "Report of Geoenvironmental Services Subsurface Explorations and Remediation, Jackpot Food Mart Property No. 01-284, Seattle, Washington" dated April 28, 1993 which documents field activities and contains analytical reports.

Site Background

On December 12, 1990, three gasoline tanks, two with volumes of 8,000 gallons and one with a volume of 10,000 gallons, were removed from the above referenced site as part of a facility upgrade. The location of the former tanks are identified on Figure 2 - Site Plan of the attached report.

Seven soil samples were collected from the area beneath the former tanks at depths of 10 to 18 feet. Low levels of gasoline were indicated in the samples collected from beneath the fill ends of the former 8,000 gallon tanks; however, none exceeded MTCA cleanup guidelines. Due to space limitations, the backfill excavated to facilitate the tank removal could not be stockpiled on the site and was used to backfill the excavation. Because the backfill was thought to be contaminated, approximately 100 feet of perforated piping was placed into the excavation at a depth of 8 to 10 feet for future in-situ remediation, if needed.

On January 2, 1991, a 550 gallon tank which formerly contained heating oil and a 300 gallon tank which formerly contained used motor oil were removed from the west portion of the property. Although neither tank appeared to have leaked, stained soils indicated that overfilling of the tanks had occurred. Glacial till was encountered at a depth of 10 feet and appeared to have caused lateral migration of the contamination.

Five samples were collected from the excavation and analyzed for TPH by EPA Method 418.1, PCB's, TCLP metals, and volatile organic compounds. Samples collected from 7 feet, 10 feet, 11 feet, and 12 feet beneath the waste oil tank

contained 900 to 4,700 ppm TPH. A sample collected from a depth of 10 feet below the former heating oil tank contained 590 ppm TPH. Low levels of chlorinated solvents, including methylene chloride, were present in nearly all of the samples, however, none were present at levels above recommended cleanup guidelines. A letter report documenting the tank removal and a Site Assessment Check list were forwarded to Ecology on May 20, 1991.

Based on data collected during the tank removal, remedial and investigative activities were initiated in December 1992. Site work was performed in two phases. The first phase involved the overexcavation of impacted soils in the vicinity of the former used motor oil and heating oil tanks, and the second phase involved performing a site assessment near the former gasoline tanks.

Overexcavation of Oil-Impacted Soil

On December 8, 1992, the overexcavation of contaminated soil was implemented in the vicinity of the former heating oil and used motor oil tanks. Because contamination was thought to be limited, it was estimated that the removal of approximately 75 cubic yards of soil from the floor and sidewalls of the former tank bed would be sufficient to remediate this area. However, as overburden was removed from the excavation, it became apparent that contamination was much more widespread than anticipated. Lateral migration appeared to have occurred to the south and west of the former tank bed, impacting soils beneath an adjacent parking lot owned by Albertson's.

From December 8 to December 21, the overexcavation of impacted soils was continued until space and equipment limitations prohibited further removal. The final area of the excavation measured approximately 30 feet by 35 feet and extended to a depth of 19 feet in the north half and to 28 feet in the south half. Altogether, approximately 900 yards of impacted soils were removed and stockpiled on plastic sheeting. Figure 2 in the attached report identifies the dimensions of the remedial excavation.

During field activities, soil was found to consist of dense silty fine to medium sands with occasional cobbles (glacial till) to a depth of approximately 20 feet. This strata was underlain by glacial till with increasing cobbles. Preferential migration appeared to have occurred laterally to the south and west of the excavation through slightly less dense soils. Visual observation and field instrumentation indicated that the majority of impacted soils existed from a depth of 9 feet to 19 feet in the north portion of the excavation and from a depth of 15 feet to 23 feet in the south portion of the excavation.

At the conclusion of overexcavation activities, soil samples were taken from the floor and sidewalls of the excavation at depths of 12 to 28 feet. In general, samples were analyzed for diesel- and oil-range hydrocarbons; however, several samples were also analyzed for gasoline and its constituents based on the observance of a gasoline-like odor in several areas of the excavation. Analyses indicated the presence of oil at concentrations ranging from 1,400 ppm to 6,600 ppm, and diesel at concentrations of 280 ppm to 1,200 ppm in samples collected from the east sidewall of the excavation on the subject site (HW-4, HW-3, and HW-14) at depths of 10 feet to 14 feet. Gasoline was also indicated in one of the samples (HW-12, 14 feet) at 1,300 ppm. A sample collected from the south sidewall on the adjacent property (HW-12) at a depth of 16 feet was found to contain 2,700 ppm gasoline, 410 ppm diesel, and 640 ppm oil. Samples collected from the floor of the excavation, north sidewall, and west sidewall were not

found to contain diesel or oil at concentrations exceeding MTCA guidelines. Sampling points are identified on Figure 2 of the attached report and analytical results are summarized on Table 2. Analytical reports are included as Appendix B.

During the removal of oil-impacted soils, perched groundwater with a heavy sheen was encountered at a depth of 9 feet below the existing grade. The majority of this water appeared to be entering the excavation from seeps on the east sidewall. To assist in further overexcavation, approximately 3,700 gallons of water were removed from the excavation with a vacuum truck on December 16, 1992. Although the water did not readily appear to recharge, a collection sump was installed in the center of the excavation on December 29, 1992. The sump consists of 10-inch diameter corrugated piping which extends to a depth of 15.5 feet below ground surface. The piping is slotted from a depth of approximately 8 feet to 11 feet, and solid (to allow the collection of water) from 11 feet to 15.5 feet. Pea gravel backfill was placed around the slotted interval to facilitate the flow of water into the sump. (Construction details are included as Figure 3.) On January 15, approximately 110 additional gallons of water were removed from the sump. It is thought that the water encountered in this area was related to a storm line leak or poor surface drainage.

On December 29 and 30, the excavation was backfilled with clean imported fill material and compacted in 12- to 18-inch lifts. Prior to backfilling, a 40-mil HDEP liner was placed along the east sidewall of the excavation to assist in preventing the migration of contaminants back into the remediated area. Upon completion of backfilling, the area was paved with asphalt. All soils removed from the excavation were transported to Woodworth & Co. in Tacoma, Washington for treatment by thermal desorption.

Soil Investigation

Because impacted soils were used to backfill the excavation during the removal of the gasoline tanks, a site assessment was initiated in February 1993. Prior to implementing drilling activities, a pilot test was performed to evaluate if hydrocarbon contamination could be removed from the backfill within the former tank bed by utilizing the perforated piping which had been installed at the time of the tank removal. The pilot test was continued from early December 1992 to early January 1993. Intermittent monitoring performed with a photoionization detector indicated that only low concentrations of hydrocarbons were being extracted from the former excavation.

During the week of February 1, 1993, a drill rig was utilized to advance seven soil borings and install two vapor extraction wells. Borings B-1 (VP-1), B-2, B-7 (VP-7), B-8, and B-9 were installed to assist in determining if contamination was present in the area of the former gasoline tanks. Borings B-3, B-4, B-5, and B-6 were installed to assist in determining the extent of contamination associated with the former oil tanks. The locations of the borings and wells are located on Figure 2 of the attached report.

During field activities, soil generally consisted of fill to a depth of 3 feet and was underlain by glacial till. Dense sand was generally encountered from depths of 28 feet to the extent of each boring. Groundwater was not observed in any of the borings. Borings B-1 (VW-1) and B-7 (VW-7) were completed as 2-inch diameter vapor extraction wells to depths of approximately 55 feet. Both wells were screened through the observed zone of contamination (25 - 55 feet in VW-1

and 30 - 55 feet in VW-7) with 0.020 slotted well screen. The soil borings were terminated at depths of 35 feet to 45 feet, with the exception of B-8 which was installed to 14 feet for the purpose of evaluating the backfill within the former tank excavation. Boring logs and well construction details are presented in Appendix A of the attached report.

Soil samples collected from each boring were submitted for analyses based on visual observation and field instrumentation readings. Samples were analyzed for gasoline and its constituents, and several samples were also analyzed for diesel and oil. Analyses indicated the presence of gasoline (13,000 ppm and 7,700 ppm), diesel (1,100 ppm each), and oil (720 ppm and 580 ppm) in samples collected from depths of 31 feet and 46 feet in VW-1; however, a sample collected from 53 feet was not found to contain detectable concentrations of contaminants. The sample collected from a depth of 34.5 feet in VW-7 was found to contain 120 ppm gasoline, while the sample collected at 44.5 feet did not contain contaminants. Low concentrations of gasoline were indicated in samples collected from B-2, B-4, B-5, and B-6, but none of these exceeded 20 ppm. Table 4 in the attached report summarizes analytical results and Appendix B contains laboratory reports.

Conclusions

Based on the results of the investigation, further action is warranted at this site. Data collected during the overexcavation of oil-impacted soils and subsequent site assessment indicate that the extent of soil contamination at the subject site is well defined. Oil- and diesel-impacted soils appear to remain limited to the area beneath and slightly to the south of the existing store. Gasoline-impacted soils appear to be located in the same vicinity and extend slightly to the east, beneath the former gasoline tanks. With the exception of a small amount of contamination indicated in the sample collected from the south sidewall of the remedial excavation, it appears as though contamination has been removed from the adjacent property.

Due to the extremely slow recharge of water into the collection sump and the lack of water in each of the borings, it does not appear as though groundwater has been impacted at the subject site. It is estimated that the placement of asphalt over the remedial excavation will prevent surface runoff from percolating back into the excavation and remobilizing contamination.

It is anticipated that vapor extraction and subsequent bioventing will be utilized to address contamination on the subject site and remove residual contamination on the adjacent property. Upon determination of an appropriate remedial method, site cleanup will be implemented.

If you have any questions regarding this matter, please do not hesitate to contact me at/(206) 286-4495/ If I am unavailable, Kevin Murphy may be able to answer any questions that you may have.

Sincerely,

Anastasia E. Duarte
Anastasia E. Duarte
Environmental Toxicologist

cc: Ms. Karen Lucas, Albertsons
Mr. Michael Lougherty, Thriftko
aed/oct93/1284.lt6

SEATTLE
TACOMA
PORTLAND
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LOS ANGELES



TIME OIL CO.

2737 WEST COMMODORE WAY
P.O. BOX 24447

SEATTLE, WA 98199-1233
SEATTLE, WA 98124-0447

May 20, 1991

DEPT. OF ECOLOGY

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MAY 24 1991
PHONE 285-2400
CABLE ADDRESS: TIMOIL
(FAX) 206-283-8036

Interim Report
Soils
5/26/91

Mr. Joe Hickey
Washington State Department of Ecology
3190 - 160th Ave. SE
Bellevue, Washington 98008-5452

RE: Underground Storage Tank Removal
Jackpot Food Mart, 12807 Des Moines Way, Seattle, WA (Property No.01-284)

Dear Mr. Hickey:

This letter report has been prepared to provide you with information regarding the removal of underground storage tanks at the Jackpot Food Mart located at 12807 Des Moines Way, Seattle, Washington. A verbal report regarding site conditions was provided to Ms. Christine Madden of the Washington State Department of Ecology on December 12, 1990.

On December 12, 1990, three gasoline tanks, two with volumes of 8,000 gallons and one with a volume of 10,000 gallons, were removed from the above referenced site as part of a facility upgrade. Although some areas of corrosion were present on the tank walls, it did not appear that any of them had leaked. The tanks and lines were last precision tested on November 27, 1990 and proved tight. The location of the tanks is provided on Attachment 1 - Site Plan.

Backfill within the excavation consisted of fine to medium sand and appeared to be highly contaminated, particularly near the fill ends of the tanks. Natural soil at the site consisted of sand and gravel to a depth of approximately 11 feet which was underlain by glacial till. Discolored soil was visible on the sidewalls and floor of the excavation and field screening detected elevated levels of organic vapors from samples collected in these areas. No groundwater was encountered within the excavation.

Seven soil samples were collected from the area beneath the former tanks at depths of 10 to 18 feet. These samples were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015 and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020. Low levels of TPH were indicated in the samples collected from beneath the fill ends of the former 8,000 gallon tanks, however, the levels detected were far below cleanup recommendations. Sample 1, collected from beneath the fill end of the east tank, contained 0.91 ppm benzene. Attachment 2 summarizes the analytical results and laboratory reports are provided as Attachment 3.

Due to space limitations, the fill material could not be stockpiled on the site and was used to backfill the excavation. Approximately 100 feet of perforated

pipng was placed into the excavation at a depth of 8 to 10 feet for future in-situ remediation, if needed.

On January 2, 1991, two additional tanks were removed from the west portion of the property: a 550 gallon tank which formerly contained heating oil and a 300 gallon tank which formerly contained waste oil. Although neither tank appeared to have leaked, there was evidence of overfilling near the waste oil tank. Approximately 17 cubic yards of contaminated material was excavated from the area surrounding the tanks, stockpiled, and covered with plastic sheeting to prevent runoff. Glacial till was encountered at a depth of 10 feet and appeared to have caused lateral migration of the contamination.

A total of 5 samples were collected from the excavation and analyzed for TPH by EPA Method 418.1, PCB as arochlor 1254, TCLP metals, and volatile organic compounds by EPA Method 8240. Samples collected from 7 feet, 10 feet, 11 feet, and 12 feet beneath the waste oil tank contained 900 to 4,700 ppm TPH. Lead was present at 17 ppm in the sample collected from a depth of 7 feet. A sample collected from a depth of 10 feet below the former heating oil tank contained 590 ppm TPH. Low levels of chlorinated solvents, including methylene chloride, were present in nearly all of the samples, however, none were present at levels above recommended cleanup guidelines. PCBs were indicated at 1 ppm in the sample collected from a depth of 10 feet below the waste oil tank.

A site assessment will be performed to determine the vertical and lateral extent of contamination in the area of both excavations. Once the extent of contamination is defined, a work plan will be developed for site remediation. The contaminated soil excavated from near the waste oil tank will be characterized for disposal.

If you have any further questions, please feel free to phone me at (206) 285-2400. If I am not available, Fred Proby will be able to answer any questions that you may have.

Sincerely,

Anastasia E Duarte

Anastasia E. Duarte
Environmental Toxicologist

Attachments

cc: Thom Lufkin
Washington State Department of Ecology

South 128th Street

New Tank Location

Existing Store

Heating Oil
8, 10, 11, 12
Waste Oil

Former Gasoline Tanks

Pump Islands

Perforated Piping

Des Moines Way South

Explanation
● = Sampling Locations

Scale in Feet
0 5 10 15 20

TIME OIL CO.

2737 W. Commodore Way, Seattle, WA 98119

Attachment 1 - SITE PLAN

Jackpot Food Mart

Property No. 01-284

12807 Des Moines Way, Seattle WA

4/91

Attachment 2
ANALYTICAL RESULTS (ppm)

Gasoline Tanks:

<u>Sample No.</u>	<u>Depth (ft.)</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
1	12	6	0.91	2.0	0.13	2.38
2	12	ND	ND	1	2	3
3	13	8	0.13	0.26	0.034	3.1
4	13	ND	ND	0.001	0.012	0.012
5	15	ND	ND	ND	ND	ND
6	10	ND	0.001	ND	ND	ND
7	18	ND	ND	ND	ND	ND

Oil Tanks:

<u>Sample No.</u>	<u>Depth (ft.)</u>	<u>TPH</u>	<u>TCLP Lead</u>	<u>Methylene Chloride</u>	<u>PCBs</u>	<u>Toluene</u>	<u>Ethyl benzene</u>	<u>Xylenes</u>
8	7	4000	17	0.16	ND	0.004	0.005	0.054
9	10	590	0.12	0.02	ND	ND	ND	ND
10	10	4700	2	0.01	1	0.098	0.17	1.4
11	11	1300	0.05	0.01	ND	ND	0.028	0.420
12	12	900	0.04	0.01	ND	0.008	0.036	0.410

Soil Stockpile:

<u>Sample No.</u>	<u>TCLP Lead</u>
W01	4.5

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

January 17, 1991


Fred Proby, Project Leader
Time Oil Company
2737 West Commodore Way
Seattle, WA 98199

Dear Mr. Proby:

Enclosed are the results of the analyses of the samples submitted on January 4, 1991 from Project Des Moines Way 01-284, P.O. #17226.

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,



Tod S. Becherer, Chemist

TSB

Enclosures

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
 Date Submitted: January 4, 1991
 Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES FOR PCB AS AROCHLOR 1254 BY GC/ECD Results Reported as $\mu\text{g/g}$ (ppm)

<u>Sample #</u>	<u>PCB</u> (ppm)
1284-0102-8-7'	<1
1284-0102-9-10'	<1
1284-0102-10-10'	1
1284-0102-11-11'	<1
1284-0102-12-12'	<1

Quality Assurance

Method Blank	<1
1284-0102-8-7' (Duplicate)	<1
1284-0102-8-7' (Matrix Spike) Spiked @ 10 ppm Percent Recovery	64%
1284-0102-8-7' (Matrix Spike Duplicate) Spiked @ 10 ppm Percent Recovery	58%

FRIEDMAN & BRUYA, INC
ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS
BY IR (EPA METHOD 418.1)
Results Reported as $\mu\text{g/g}$ (ppm)**

<u>Sample #</u>	<u>Total Petroleum Hydrocarbons</u> (ppm)
1284-0102-8-7'	4,000
1284-0102-9-10'	590
1284-0102-10-10'	4,700
1284-0102-11-11'	1,300
1284-0102-12-12'	900
<u>Quality Assurance</u>	
Method Blank	<10
1284-0102-12-12' (Duplicate)	820
1284-0102-12-12' (Matrix Spike) Spiked @ 100 ppm Percent Recovery	a
1284-0102-12-12' (Matrix Spike Duplicate) Spiked @ 100 ppm Percent Recovery	a

a - The amount spiked was insufficient to give meaningful recovery data.

FRIEDMAN & BRUYA, INC**ENVIRONMENTAL CHEMISTS**

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR GASOLINE BY GC/FID (MODIFIED 8015)
Results Reported as $\mu\text{g/g}$ (ppm)**

<u>Sample #</u>	<u>Gasoline</u> (ppm)
1284-1217-1-12'	6
1284-1217-2-12'	<1
1284-1217-3-13'	8
1284-1217-4-13'	<1
1284-1217-5-15'	<1
1284-1217-6-10'	<1
1284-1217-7-18'	<1

Quality Assurance

Method Blank	<1
1284-1217-7-18' (Duplicate)	<1
1284-1217-7-18' (Matrix Spike) Spiked @ 500 ppm Percent Recovery	77%
1284-1217-7-18' (Matrix Spike Duplicate) Spiked @ 500 ppm Percent Recovery	80%

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
 Date Submitted: January 4, 1991
 Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES FOR VOLATILE AROMATIC ORGANIC COMPOUNDS USING EPA METHOD 8020 Results Reported as ng/g (ppb)

<u>Sample #</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Et-Benzene</u>	<u>Xylene</u> <i>m,p</i>	<i>o</i>
1284-1217-1-12'	910	2,000	130	980	1,400
1284-1217-2-12'	<1	1	2	1	2
1284-1217-3-13'	130	260	34	400	2,700
1284-1217-4-13'	<1	1	12	3	9
1284-1217-5-15'	<1	<1	<1	<1	<1
1284-1217-6-10'	1	<1	<1	<1	<1
1284-1217-7-18'	<1	<1	<1	<1	<1

Quality Assurance

Method Blank	<1	<1	<1	<1	<1
1284-1217-6-10' (Duplicate)	<1	<1	<1	<1	<1
1284-1217-6-10' (Matrix Spike) Spiked @ 1,000 ppb Percent Recovery	110%	120%	110%	110%	130%
1284-1217-6-10' (Matrix Spike Duplicate) Spiked @ 1,000 ppb Percent Recovery	100%	110%	110%	110%	120%

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as mg/L (ppm)

<u>Sample #</u>	<u>1284-0102-8-7'</u>	<u>1284-0102-9-10'</u>	<u>Regulatory Level</u>
<u>Analyte:</u>			
Arsenic	0.03 ^a	0.03 ^a	5.0
Barium	1.3 ^a	0.32 ^a	100
Cadmium	<0.01	<0.01	1.0
Chromium	0.01 ^a	0.01 ^a	5.0
Lead	17	0.12	5.0
Mercury	<0.01	<0.01	0.2
Selenium	0.01	0.01	1.0
Silver	<0.01	<0.01	5.0

^a - The analyte indicated was also found in the blank sample.

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as mg/L (ppm)

<u>Sample #</u>	<u>1284-0102-10-10'</u>	<u>1284-0102-11-11'</u>	<u>Regulatory Level</u>
<u>Analyte:</u>			
Arsenic	0.03 ^a	0.02 ^a	5.0
Barium	0.70 ^a	0.44 ^a	100
Cadmium	<0.01	<0.01	1.0
Chromium	0.02 ^a	0.02 ^a	5.0
Lead	2.0	0.05	5.0
Mercury	<0.01	<0.01	0.2
Selenium	0.02	0.01	1.0
Silver	<0.01	<0.01	5.0

^a - The analyte indicated was also found in the blank sample.

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as mg/L (ppm)
Quality Assurance**

<u>Sample #</u>	<u>Blank</u>	1284-0102-11-11' <u>Replicate</u>	<u>Regulatory Level</u>
<u>Analyte:</u>			
Arsenic	0.01	0.02 ^a	5.0
Barium	0.02	0.52 ^a	100
Cadmium	<0.01	<0.01	1.0
Chromium	0.06	0.01 ^a	5.0
Lead	<0.01	0.04	5.0
Mercury	<0.01	<0.01	0.2
Selenium	<0.01	0.02	1.0
Silver	<0.01	<0.01	5.0

^a - The analyte indicated was also found in the blank sample.

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as % Recovery
TCLP Extract Spiked at the Indicated Level
Quality Assurance**

<u>Sample #</u>	1284-0102-11-11' <u>Matrix Spike</u> Spiked @ 5 ppm % Recovery	1284-0102-11-11' <u>Matrix Spike Duplicate</u> Spiked @ 5 ppm % Recovery
<u>Analyte:</u>		
Arsenic	100%	102%
Barium	92%	82%
Cadmium	120%	93%
Chromium	112%	93%
Lead	104%	84%
Mercury	70%	63%
Selenium	106%	94%
Silver	55%	37%

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as mg/L (ppm)**

<u>Sample #</u>	<u>1284-0108-W01</u>	<u>Regulatory Level</u>
<u>Analyte:</u>		
Arsenic	0.04 ^b	5.0
Barium	0.78	100
Cadmium	<0.01	1.0
Chromium	<0.01	5.0
Lead	4.9	5.0
Mercury	<0.01	0.2
Selenium	0.03	1.0
Silver	<0.01	5.0

^b - The analyte indicated was also found in the blank sample.

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as mg/L (ppm)
Quality Assurance

<u>Sample #</u>	<u>Blank</u>	<u>Regulatory Level</u>
<u>Analyte:</u>		
Arsenic	0.02	5.0
Barium	<0.01	100
Cadmium	<0.01	1.0
Chromium	<0.01	5.0
Lead	<0.01	5.0
Mercury	<0.01	0.2
Selenium	<0.01	1.0
Silver	<0.01	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
 Date Submitted: January 4, 1991
 Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS BY GC/FID-ECD Results Reported as ng/g (ppb)

<u>Sample #</u>	<u>1284-0102- 8-7'</u>	<u>1284-0102- 9-10'</u>	<u>1284-0102- 10-10'</u>	<u>1284-0102- 11-11'</u>
<u>Analyte:</u>				
1,1-Dichloroethylene	9	7	2	1
Methylene Chloride	160	20	10	10
t-Dichloroethylene	10	<1	2	1
1,1-Dichloroethane	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1
Carbon Tetrachloride	<1	<1	<1	<1
Benzene	<1	<1	<2	<1
Trichloroethylene	<1	<1	<1	<1
Toluene	4	<1	98	<1
Tetrachloroethylene	<1	<1	<2	<1
Ethylbenzene	5	<1	170	28
m,p-Xylenes	28	<1	650	220
o-Xylene	26	<1	750	200

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR VOLATILE ORGANIC COMPOUNDS
BY GC/FID-ECD
Results Reported as ng/g (ppb)

<u>Sample #</u>	<u>1284-0102-12-12'</u>
<u>Analyte:</u>	
1,1-Dichloroethylene	10
Methylene Chloride	10
t-Dichloroethylene	4
1,1-Dichloroethane	<1
Chloroform	<1
1,1,1-Trichloroethane	<1
Carbon Tetrachloride	<1
Benzene	<1
Trichloroethylene	<1
Toluene	8
Tetrachloroethylene	<1
Ethylbenzene	36
m,p-Xylenes	220
o-Xylene	190

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR VOLATILE ORGANIC COMPOUNDS
BY GC/FID-ECD
Results Reported as ng/g (ppb)
Quality Assurance

<u>Sample #</u>	<u>Blank</u>	1284-0102-12-12' (Duplicate)
<u>Analyte:</u>		
1,1-Dichloroethylene	<1	<1
Methylene Chloride	<1	10
t-Dichloroethylene	<1	5
1,1-Dichloroethane	<1	<1
Chloroform	<1	<1
1,1,1-Trichloroethane	<1	<1
Carbon Tetrachloride	<1	<1
Benzene	<1	<1
Trichloroethylene	<1	<1
Toluene	<1	20
Tetrachloroethylene	<1	<1
Ethylbenzene	<1	64
m,p-Xylenes	<1	400
o-Xylene	<1	410

FRIEDMAN & BRUYA, INC

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR VOLATILE ORGANIC COMPOUNDS
BY GC/FID-ECD
Results Reported as ng/g (ppb)
Quality Assurance

<u>Sample #</u>	1284-0102-12-12' <u>Matrix Spike</u> Spiked @ 1,000 ppb % Recovery
<u>Analyte:</u>	
1,1-Dichloroethylene	110%
Methylene Chloride	130%
t-Dichloroethylene	98%
1,1-Dichloroethane	120%
Chloroform	130%
1,1,1-Trichloroethane	87%
Carbon Tetrachloride	79%
Benzene	120%
Trichloroethylene	110%
Toluene	120%
Tetrachloroethylene	91%
Ethylbenzene	110%
m,p-Xylenes	98%
o-Xylene	110%

* Insufficient sample for MSD analysis.

1 - TSB - A

* S = Soil W = Water P = Product

IMPORTANT! PLEASE RETURN A COPY OF THIS FORM WITH YOUR REPORT TO TIME OIL CO.
Attn: Environmental Manager, PO Box 24447 Terminal Sta., Seattle, WA 98124 (206) 285-2400

Sampler: Des Moines Wa
Prop. No: 01-284 Address: 12807 Des Moines Way
Date: 1/8/91
Purpose: K Murphy
Method: Grab ☒ S.Spoon ☐ Bailer ☐ Pump ☐
Lab Name: Tank Removal
Preserved: Ice ☒ Acid ☐ None ☐
Lab Address: E+B Phone: _____ PO No.: 17224

Sample #	Location/Description	Type*	Analysis Instructions	EPA Method
1	1284 - 0108 - W01	SWP	TCLP metals	
2	-	SWP		
3	-	SWP		
4	-	SWP		
5	-	SWP		
6	-	SWP		
7	-	SWP		
8	-	SWP		
9	-	SWP		
10	-	SWP		
11	-	SWP		
12	-	SWP		
13	-	SWP		
14	-	SWP		
15	-	SWP		
16	-	SWP		
17	-	SWP		
18	-	SWP		
19	-	SWP		
20	-	SWP		
21	-	SWP		
22	-	SWP		

Other Instructions:

Sample Count =

Check sample jar count against Log!

* S = Soil W = Water P = Product

CHAIN OF CUSTODY RECORD

Relinquished By: _____ Received By: _____ Date & Time: _____
Relinquished By: K Murphy Received For Lab By: _____ Date & Time: 1-9-91

GENERAL LAB INSTRUCTIONS

Please provide the requested information

- Sample numbers assigned by Lab: 17070 to 17081 Date Analyzed: 1.8.91
- Person performing analysis: KMC, EZ Data Reviewer: JS, TSB
- Scheduled sample disposal date: 2.8.91 NOTIFY TIME OIL CO. BEFORE DISPOSAL
- Provide copies of ALL chromatograms, including QA/QC runs.

IMPORTANT! PLEASE RETURN A COPY OF THIS FORM WITH YOUR REPORT TO TIME OIL CO.
Attn: Environmental Manager, PO Box 24447 Terminal Sta., Seattle, WA 98124 (206) 285-2400

INITIAL INVESTIGATION

✓✓
#2079

SITE NAME: Time Oil Food Mart #01-284
ADDRESS: 12807 Des Moines, Seattle
INSP. DATE: 5/7/91
INSP. NAME: John Stormon

An initial investigation was conducted at Time Oil Food Mart #01-284 on 5/7/91 by John Stormon. Sandy, the Station Manager told me that the contaminated soil was excavated and that a venting system was installed. There were originally four soil stockpiles behind the station, all but one have been removed from the site.

On 5/13/91 I spoke with Ann Duarte of Time Oil, who told me that a second site assessment will be done at the station because some contamination remains in place. A report on the site is being prepared and a copy will be forwarded to Ecology as soon as it is complete.

STATUS: Cleanup Ongoing

PHOTO No. 3

TIME OIL FOOD MART # 1-284

DATE: 5-7-91

TIME: _____

TAKEN BY:
STORMUN

WITNESS:

FILM: 9404

CAMERA:
E111304

DESCRIPTION:
CONTAMINATED
SOIL STOCKPILE ON
WEST SIDE OF



COMMENTS: _____

PHOTO No. _____

DATE: _____

TIME: _____

TAKEN BY: _____

WITNESS: _____

FILM: _____

CAMERA: _____

DESCRIPTION: _____

COMMENTS: _____

Department of Ecology-NWRO

Underground Storage Tank
Notice of Confirmed Release

Complaint received by Madden Date 12/21/90
Reporter name Fred Proby Time Oil
address _____
phone no. 286-6444

004050 TIME OIL #01-284
Site name Tackport Food Mart site phone no. 433-8077
address 22807 Des Moines Wy (Burien)
city Seattle county King zip 98125

Site owner Time Oil owner's phone 286-6444
owner's address PO Box 24447 Terminal Sta.
city Seattle zip 98124

Consultant company _____
name _____ phone no. _____

Other contact _____ phone no. _____
contact affiliation Lee Morse Constr. / Tank pull

Description of Incident

Material	# Tanks	Status/Date
gasoline.....	<u>3</u>	<u>Reg Pres Unl. 2-10,000 1-8,000</u> } <u>12/17/90</u>
diesel
waste oil
heat fuel
"Ghost" tanks	<u>2</u>	<u>W/H & plan to pull 2/2/91</u> T&C field screen

Total number tanks: 5 Cleanup Status On-Going
eventually to be 3 tanks (gas)

Comments Cont soil under 2 tanks - apparently just backfill
down into native (hard till) 3-4'
now venting. No GW noted.

Date inspected _____ Investigator _____ Referred to _____

004050



UST #4050

USTRAC

Facility C&E History

Owner Name and Address: Time Oil Co.

2737 W. Commodore Way, P.O. Box 24447 Seattle WA 98124

Facility ID	Location Name	Location Street Address	Location City State	Zip	County	Tribes	Inspection	C&E Status	LUST Status
WA4050	Food Mart 284	12807 Des Moines Way S.	Seattle, WA 98148	98148	King		4/4/2007	Passed	NA

Facility Visit Action

Date:	Inspector:	Status:	Last Due Date:	Last Closed Date:	Num Violations:	Outstndg Violations:	Action:	Form #:	SOC:	SOC UST	Status:	Paid	CCDS:	ICDS:	SBA:	UIC
4/4/2007	Adam Baron	Passed			0	0	Passed - No		SOC		Operating				Yes	1 1 1 1

Comments



USTRAC

Facility Summary

Owner Name and Address: Time Oil Co. 2737 W. Commodore Way, P.O. Box 24447 Seattle WA 98124

Facility ID	Location Name	Location Street Address	Location City State	Zip	County	Tribe	SOC	C&E Status	LUST
WA4050	Food Mart 284	12807 Des Moines Way S.	Seattle, WA	98148	King		In SOC	Passed	NA

Financial Responsibility

Type	Issuer	Policy Number	Effective Date Start	Effective Date End
------	--------	---------------	----------------------	--------------------

Contacts

Contact Name:	Address:	City State Zip:	Phone:	Fax:	Email:
Matthew, Steve	12807 Des Moines Way S.	Seattle WA 98148	(206) 433-8077		

Tank Summary

M* = Manifold; C*=Compartment

Tank ID	Status	M* C* Installed	Closed	Product	Capacity	Tank Material / Sec. Mat.	Piping Material / Sec. Mat. / Type	Over / Spill / CP
1	Currently in Use	No	No 1/1/1990	Gasoline	10000	Composite (Steel w/ FRP)	Double-Walled Fiberglass Reinforced Plastic	None Safe Suction Yes Yes Yes
2	Currently in Use	No	No 1/1/1990	Gasoline	10000	Composite (Steel w/ FRP)	Double-Walled Fiberglass Reinforced Plastic	None Safe Suction Yes Yes Yes
3	Currently in Use	No	No 1/1/1990	Gasoline	10000	Composite (Steel w/ FRP)	Double-Walled Fiberglass Reinforced Plastic	None Safe Suction Yes Yes Yes

Facility Actions

Inspection Date	Inspector	Action	SOC	C & E Status	SOC UST Status	Last Due Date	Closed Date	Number of Violations	Outstanding Violations
04/04/07	Adam Baron	Passed - No Action	In SOC	Passed	Operating			0	0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

April 10, 2007

Reply To
Attn Of: OCE-082

Mr. Steve Matthew
Time Oil Company
P.O. Box 24447
Seattle, WA 98124-0447

Re: Underground Storage Tank (UST) Inspection of Food Mart 284 (WDOE # 4050)

Dear Mr. Matthew:

This letter is a follow-up to the Underground Storage Tank (UST) inspection conducted on April 4, 2007, by the U.S. Environmental Protection Agency. Your facilities were found to be in compliance with Washington Department of Ecology (Ecology) Underground Storage Tank regulations under WAC 173-360, for the items inspected for, at the time of inspection. We recognize the steps you have taken to achieve compliance and appreciate the ongoing efforts necessary to stay on top of the operation and maintenance required for your UST systems.

If you have any questions in reference to this inspection, please call me at (206) 553-1193. In the future, if you have any questions about the Ecology UST Program (e.g., inspections, permits, etc.), please contact Annette Ademasu, Ecology NW Regional Office, at (425) 649-4426.

Sincerely,

A handwritten signature in black ink, appearing to read "Kimberly Mills", is written over a horizontal line.

Kimberly Mills
Environmental Scientist
Underground Storage Tank Program

cc: Robert Cutler, EPA inspector

9/20/06 Final

**EPA REGION 10
UNDERGROUND STORAGE TANK
INSPECTION FORM**

Significant Compliance:

RD RP
Y N Y N

Facility# WA4050Inspection Date 4/4/07Time 11 to 12:00GPS Reading 313 N 47° 29' 18" W 122° 13' 43.3"Lead Inspector Barton Others MillsFacility Reps SSUS MATHEWS

(* Credentials Presented)

Visual Documentation of Inspection: ☐ 35mm pictures ☐ Video ☐ Digital ☐ OtherWaste Fluid Questionnaire: ☐ Completed ☒ Not Completed ☐ Not Applicable

Enforcement Actions Taken Onsite: FNNC # _____ FC # _____ For S _____

Verbal Warning for 40 CFR 280. _____ SBA Info Sheet Given? Y ☒ N

Enforcement Action Delayed for (Reason): _____

Facility InformationLocation Name Food Mart 284Owner Time Oil Company Operator TALIB KARAMALIAddress (Loc/Owner/Op) P.O. Box 24447City Seattle State WA Zip 98124 Phone 206 433 8077Address (Loc/Owner/Op) 12807 Des Moines Way S.City Seattle State WA Zip 98148 Phone _____

Tank #	1	2	3	4	5	6
FINANCIAL RESPONSIBILITY						
<input checked="" type="checkbox"/> Meets FR requirements?						
<input type="checkbox"/> All tanks covered or (check which tanks are covered)						
Type: <input type="checkbox"/> Ins <input checked="" type="checkbox"/> Self <input type="checkbox"/> PSTF <input type="checkbox"/> Ltr Credit <input type="checkbox"/> Stdby Trust <input type="checkbox"/> LG Bond Rating Test <input type="checkbox"/> LG Fin Test <input type="checkbox"/> Other						
Issuing Entity: <u>Time Oil</u> Dates Coverage: <u>1/8/07 - 08</u> In EPA Format? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N						
TANK STATUS						
Manifolded (M) or Compartmented (C) Tank?						
Status (circle):	<u>CIU</u>	TOU	POU	<input checked="" type="checkbox"/> All or		
Date installed:	<input checked="" type="checkbox"/> All or	<u>140</u>				
Tank cap (gal):	<input checked="" type="checkbox"/> All or	<u>10 K</u>	<u>10 K</u>	<u>10 K</u>		
Substance in Tank:	<input type="checkbox"/> All or	<u>N</u>	<u>P</u>	<u>S</u>		
Tank Material: BS	<u>COM</u>	<u>FRP</u>	<u>DW</u>	ExL Lin	<input checked="" type="checkbox"/> All or	
Verified by:	<u>Visual</u>	Invoice	Warranty	Picture	<input type="checkbox"/> All or	
Emergency Generator Tank(s)?	<input type="checkbox"/> All or					
Piping Material: GS CPS	<u>FRP</u>	FlexP	DW	SecC	<input checked="" type="checkbox"/> All or	
Verified by:	<u>Visual</u>	Invoice	Warranty	Picture	<input type="checkbox"/> All or	
Piping Type:	<u>Grav</u>	<u>SafeSue</u>	U.S.Suc		<input checked="" type="checkbox"/> All or	
Date last used:	<input checked="" type="checkbox"/> NA	<input type="checkbox"/> All or				
Closure Status: Removed	In-Place	Chg-in-Svc	<u>NA</u>	<input type="checkbox"/> All or		

Tank #

1

2

3

4

5

6

RELEASE DETECTION - TANKS☒ **Primary RD method present for ALL tanks & meets specific performance standards as stated in 280.43?** ☐ NA☐ **Manual Tank Gauging (MTG)** ☐ All or☐ **Tank Tightness Testing (TTT)** ☐ All or

Last TTT date? _____ Passed? Y N

☐ **Inventory Control (IC)** ☐ All or☐ **Vapor Monitoring (VM)** ☐ All orSite Assessment? Y N ☐ All or☐ **Ground Water Monitoring (GWM)** ☐ All orSite Assessment? (i.e. 3' < gw < 20') Y N ☐ All or☐ **Automatic Tank Gauge (ATG)** ☐ All orJan 30 2007
Notes: TTT on 1/3/07☒ **Interstitial Monitoring (IM)** ☒ All or☐ **SIR** ☐ All or☐ **Deferred (Emergency Generators ONLY)** ☐ All or**Tank primary RD method?** IM ☐ All orIf TOU, does tank comply with RD requirements? Y N NA ☐ All or

Amount of Product in Tank: _____ Water: _____

Are hazardous substance USTs secondarily contained? Y N NA ☐ All or**RELEASE DETECTION - PIPING**☒ **Primary RD method present for ALL piping & meets specific performance standards as stated in 280.44?** ☐ NA☐ **ALLD (Pressurized Systems Only)** ☒ **NA (Suction)** ☐ All orDate of test: _____ ☐ ELLD or ☐ MLLD**Piping RD Primary Method?:** LTT Monthly NA ☐ All or☐ **LTT** Date of test: _____ ☐ All or☒ **Monthly Monitoring Method:** ☐ All orVM GWM IM SIR Sump Sensor Other _____ ☐ All or☐ **Deferred (Emergency Generators ONLY)** ☐ All or**RELEASE DETECTION COMPLIANCE**Release detection systems operating properly? Y N ☐ All orIf applicable, are there monthly monitoring records (for tanks and / or piping) for the 2 most recent months and 8 of the last 12 months? Y N ☐ All orOf the last 12 months monitoring records, 12 were reviewed:Tanks (months) PASSED: 12 FAILED: _____ INVALID: _____Piping (months) PASSED: 12 FAILED: _____ INVALID: _____All non-passing results resolved? Y N/A ☐ All orIf not resolved, was the implementing agency notified of a suspected release? Y N No release suspected ☐ All orIf equipment installed within the last 5 years, is the third party evaluation(s) available? Y N NAFor? ATG SIR IM Sensors ALLD Other _____ In Compliance with Evaluation? Y NATG/IM/SIR Equipment Manufacturer/Vendor: VR Model: 2501

ALLD Equipment Manufacturer (optional): _____ Model: _____

Notes: _____

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
(1) January					
(2) February					
(3) March					
(4) April					
(5) May					
(6) June					
(7) July					
(8) August					
(9) September					
(10) October					
(11) November					
(12) December					
(1) January					
(2) February					
(3) March					
(4) April					
(5) May					
(6) June					
(7) July					
(8) August					
(9) September					
(10) October					
(11) November					
(12) December					

SEATTLE
TACOMA
PORTLAND
STOCKTON
RENO
RICHMOND
LOS ANGELES



TIME OIL COMPANY

2737 WEST COMMODORE WAY
P.O. BOX 24447, TERMINAL STATION

SEATTLE, WASHINGTON 98199-1233
SEATTLE, WASHINGTON 98124-0447

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS

August 29, 1990

SEP 06 1990

Storage Tank Unit
Department of Ecology
Mail Stop PV-11
Olympia, WA 98801

Dear Sir or Madam:

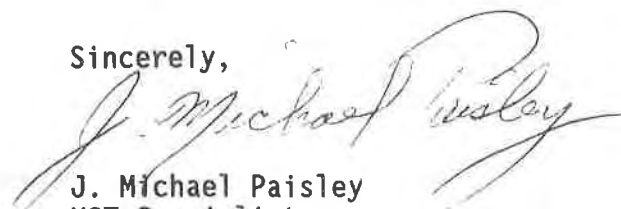
The purpose of this letter is to inform you of Time Oil Co.'s intent to remove the underground petroleum storage tanks from the ground at 12807 Des Moines Way S., Seattle, WA 98125. (State I.D. 004050)

Removal of the tanks will be coordinated with the local Fire Marshal. When the tanks are removed, soil samples will be collected from the excavation for analysis.

A Notice of Permanent Closure will be completed and submitted to your office after the soil analysis is complete.

If you have any questions, do not hesitate to call me at (206) 286-6449.

Sincerely,



J. Michael Paisley
UST Specialist

JMP/jam

0197E

SEATTLE
TACOMA
PORTLAND
STOCKTON
RENO
RICHMOND
LOS ANGELES



TIME OIL CO.

PHONE 285-2400
CABLE ADDRESS: TIMOIL
(FAX) 206-283-8036

2737 WEST COMMODORE WAY
P.O. BOX 24447

SEATTLE, WA 98199-1233
SEATTLE, WA 98124-0447

May 20, 1991

Mr. Thom Lufkin
Underground Storage Tank Section
Washington State Department of Ecology
Mail Stop PV-11
Olympia, Washington 98504-8711

RE: Underground Storage Tank Removal
Jackpot Food Mart, 212807 Des Moines Way, Seattle, WA (Property No. 01-284)

Dear Mr. Lufkin:

This letter report has been prepared to provide you with information regarding the removal of underground storage tanks at the Jackpot Food Mart located at 212807 Des Moines Way, Seattle, Washington. A verbal report regarding site conditions was provided to Ms. Christine Madden of the Washington State Department of Ecology on December 12, 1990.

On December 12, 1990, three gasoline tanks, two with volumes of 8,000 gallons and one with a volume of 10,000 gallons, were removed from the above referenced site as part of a facility upgrade. Although some areas of corrosion were present on the tank walls, it did not appear that any of them had leaked. The tanks and lines were last precision tested on November 27, 1990 and proved tight. The location of the tanks is provided on Attachment 1 - Site Plan.

Backfill within the excavation consisted of fine to medium sand and appeared to be highly contaminated, particularly near the fill ends of the tanks. Natural soil at the site consisted of sand and gravel to a depth of approximately 11 feet which was underlain by glacial till. Discolored soil was visible on the sidewalls and floor of the excavation and field screening detected elevated levels of organic vapors from samples collected in these areas. No groundwater was encountered within the excavation.

Seven soil samples were collected from the area beneath the former tanks at depths of 10 to 18 feet. These samples were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015 and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020. Low levels of TPH were indicated in the samples collected from beneath the fill ends of the former 8,000 gallon tanks, however, the levels detected were far below cleanup recommendations. Sample 1, collected from beneath the fill end of the east tank, contained 0.91 ppm benzene. Attachment 2 summarizes the analytical results and laboratory reports are provided as Attachment 3.

Due to space limitations, the fill material could not be stockpiled on the site and was used to backfill the excavation. Approximately 100 feet of perforated

pipng was placed into the excavation at a depth of 8 to 10 feet for future in-situ remediation, if needed.

On January 2, 1991, two additional tanks were removed from the west portion of the property: a 550 gallon tank which formerly contained heating oil and a 300 gallon tank which formerly contained waste oil. Although neither tank appeared to have leaked, there was evidence of overfilling near the waste oil tank. Approximately 17 cubic yards of contaminated material was excavated from the area surrounding the tanks, stockpiled, and covered with plastic sheeting to prevent runoff. Glacial till was encountered at a depth of 10 feet and appeared to have caused lateral migration of the contamination.

A total of 5 samples were collected from the excavation and analyzed for TPH by EPA Method 418.1, PCB as arochlor 1254, TCLP metals, and volatile organic compounds by EPA Method 8240. Samples collected from 7 feet, 10 feet, 11 feet, and 12 feet beneath the waste oil tank contained 900 to 4,700 ppm TPH. Lead was present at 17 ppm in the sample collected from a depth of 7 feet. A sample collected from a depth of 10 feet below the former heating oil tank contained 590 ppm TPH. Low levels of chlorinated solvents, including methylene chloride, were present in nearly all of the samples, however, none were present at levels above recommended cleanup guidelines. PCBs were indicated at 1 ppm in the sample collected from a depth of 10 feet below the waste oil tank.

A site assessment will be performed to determine the vertical and lateral extent of contamination in the area of both excavations. Once the extent of contamination is defined, a work plan will be developed for site remediation. The contaminated soil excavated from near the waste oil tank will be characterized for disposal.

As required, a completed Site Check/Site Assessment Checklist has been included. I apologize for the delay in submitting this report and hope that it has not caused you any inconvenience. If you have any further questions, please feel free to phone me at (206) 285-2400. If I am not available, Fred Proby will be able to answer any questions that you may have.

Sincerely,

Anastasia E Duarte

Anastasia E. Duarte
Environmental Specialist

Attachments

cc: Joe Hickey
Washington State Department of Ecology

aed\may91\1284.20d



South 128th Street

New Tank Location

Existing Store

Heating Oil
8, 10, 11, 12
Waste Oil

Des Moines Way South

Former Gasoline Tanks

Pump Islands

Perforated Piping

Explanation
● = Sampling Locations



TIME OIL CO. 2737 W. Commodore Way, Seattle, WA 98119
Attachment 1 - SITE PLAN
Jackpot Food Mart Property No. 01-284 12807 Des Moines Way, Seattle WA 98119

Attachment 2
ANALYTICAL RESULTS (ppm)

Gasoline Tanks:

<u>Sample No.</u>	<u>Depth (ft.)</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
1	12	6	0.91	2.0	0.13	2.38
2	12	ND	ND	1	2	3
3	13	8	0.13	0.26	0.034	3.1
4	13	ND	ND	0.001	0.012	0.012
5	15	ND	ND	ND	ND	ND
6	10	ND	0.001	ND	ND	ND
7	18	ND	ND	ND	ND	ND

Oil Tanks:

<u>Sample No.</u>	<u>Depth (ft.)</u>	<u>TPH</u>	<u>TCLP Lead</u>	<u>Methylene Chloride</u>	<u>PCBs</u>	<u>Toluene</u>	<u>Ethyl benzene</u>	<u>Xylenes</u>
8	7	4000	17	0.16	ND	0.004	0.005	0.054
9	10	590	0.12	0.02	ND	ND	ND	ND
10	10	4700	2	0.01	1	0.098	0.17	1.4
11	11	1300	0.05	0.01	ND	ND	0.028	0.420
12	12	900	0.04	0.01	ND	0.008	0.036	0.410

Soil Stockpile:

<u>Sample No.</u>	<u>TCLP Lead</u>
W01	4.5

FRIEDMAN & BRUYA, F
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

January 17, 1991

Fred Proby, Project Leader
Time Oil Company
2737 West Commodore Way
Seattle, WA 98199

Dear Mr. Proby:

Enclosed are the results of the analyses of the samples submitted on January 4, 1991 from Project Des Moines Way 01-284, P.O. #17226.

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,



Tod S. Becherer, Chemist

TSB

Enclosures

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR PCB AS AROCHLOR 1254 BY GC/ECD
Results Reported as $\mu\text{g/g}$ (ppm)

<u>Sample #</u>	<u>PCB</u> (ppm)
1284-0102-8-7'	<1
1284-0102-9-10'	<1
1284-0102-10-10'	1
1284-0102-11-11'	<1
1284-0102-12-12'	<1
<u>Quality Assurance</u>	
Method Blank	<1
1284-0102-8-7' (Duplicate)	<1
1284-0102-8-7' (Matrix Spike) Spiked @ 10 ppm Percent Recovery	64%
1284-0102-8-7' (Matrix Spike Duplicate) Spiked @ 10 ppm Percent Recovery	58%

FRIEDMAN & BRUYA, INC.**ENVIRONMENTAL CHEMISTS**

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS
BY IR (EPA METHOD 418.1)
Results Reported as $\mu\text{g/g}$ (ppm)**

<u>Sample #</u>	<u>Total Petroleum Hydrocarbons</u> (ppm)
1284-0102-8-7'	4,000
1284-0102-9-10'	590
1284-0102-10-10'	4,700
1284-0102-11-11'	1,300
1284-0102-12-12'	900

Quality Assurance

Method Blank	<10
1284-0102-12-12' (Duplicate)	820
1284-0102-12-12' (Matrix Spike) Spiked @ 100 ppm Percent Recovery	a
1284-0102-12-12' (Matrix Spike Duplicate) Spiked @ 100 ppm Percent Recovery	a

a - The amount spiked was insufficient to give meaningful recovery data.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR GASOLINE BY GC/FID (MODIFIED 8015)
Results Reported as $\mu\text{g/g}$ (ppm)**

<u>Sample #</u>	<u>Gasoline (ppm)</u>
1284-1217-1-12'	6
1284-1217-2-12'	<1
1284-1217-3-13'	8
1284-1217-4-13'	<1
1284-1217-5-15'	<1
1284-1217-6-10'	<1
1284-1217-7-18'	<1
<u>Quality Assurance</u>	
Method Blank	<1
1284-1217-7-18' (Duplicate)	<1
1284-1217-7-18' (Matrix Spike) Spiked @ 500 ppm Percent Recovery	77%
1284-1217-7-18' (Matrix Spike Duplicate) Spiked @ 500 ppm Percent Recovery	80%

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991

Date Submitted: January 4, 1991

Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR VOLATILE AROMATIC ORGANIC COMPOUNDS
USING EPA METHOD 8020
Results Reported as ng/g (ppb)

<u>Sample #</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Et-Benzene</u>	<u>Xylene</u>	
				<u>m,p</u>	<u>o</u>
1284-1217-1-12'	910	2,000	130	980	1,400
1284-1217-2-12'	<1	1	2	1	2
1284-1217-3-13'	130	260	34	400	2,700
1284-1217-4-13'	<1	1	12	3	9
1284-1217-5-15'	<1	<1	<1	<1	<1
1284-1217-6-10'	1	<1	<1	<1	<1
1284-1217-7-18'	<1	<1	<1	<1	<1
<u>Quality Assurance</u>					
Method Blank	<1	<1	<1	<1	<1
1284-1217-6-10' (Duplicate)	<1	<1	<1	<1	<1
1284-1217-6-10' (Matrix Spike) Spiked @ 1,000 ppb Percent Recovery	110%	120%	110%	110%	130%
1284-1217-6-10' (Matrix Spike Duplicate) Spiked @ 1,000 ppb Percent Recovery	100%	110%	110%	110%	120%

FRIEDMAN & BRUYA, INC.**ENVIRONMENTAL CHEMISTS**

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as mg/L (ppm)**

<u>Sample #</u>	<u>1284-0102-8-7'</u>	<u>1284-0102-9-10'</u>	<u>Regulatory Level</u>
<u>Analyte:</u>			
Arsenic	0.03 ^a	0.03 ^a	5.0
Barium	1.3 ^a	0.32 ^a	100
Cadmium	<0.01	<0.01	1.0
Chromium	0.01 ^a	0.01 ^a	5.0
Lead	17	0.12	5.0
Mercury	<0.01	<0.01	0.2
Selenium	0.01	0.01	1.0
Silver	<0.01	<0.01	5.0

^a - The analyte indicated was also found in the blank sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as mg/L (ppm)

<u>Sample #</u>	<u>1284-0102-10-10'</u>	<u>1284-0102-11-11'</u>	<u>Regulatory Level</u>
<u>Analyte:</u>			
Arsenic	0.03 ^a	0.02 ^a	5.0
Barium	0.70 ^a	0.44 ^a	100
Cadmium	<0.01	<0.01	1.0
Chromium	0.02 ^a	0.02 ^a	5.0
Lead	2.0	0.05	5.0
Mercury	<0.01	<0.01	0.2
Selenium	0.02	0.01	1.0
Silver	<0.01	<0.01	5.0

^a - The analyte indicated was also found in the blank sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as mg/L (ppm)
Quality Assurance

<u>Sample #</u>	<u>Blank</u>	1284-0102-11-11' <u>Replicate</u>	<u>Regulatory Level</u>
<u>Analyte:</u>			
Arsenic	0.01	0.02 ^a	5.0
Barium	0.02	0.52 ^a	100
Cadmium	<0.01	<0.01	1.0
Chromium	0.06	0.01 ^a	5.0
Lead	<0.01	0.04	5.0
Mercury	<0.01	<0.01	0.2
Selenium	<0.01	0.02	1.0
Silver	<0.01	<0.01	5.0

^a - The analyte indicated was also found in the blank sample.

FRIEDMAN & BRUYA, INC.**ENVIRONMENTAL CHEMISTS**

Date of Report: January 17, 1991

Date Submitted: January 4, 1991

Project: Des Moines Way 01-284, P.O. #17226

**RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261****Results Reported as % Recovery
TCLP Extract Spiked at the Indicated Level
Quality Assurance**

<u>Sample #</u>	1284-0102-11-11'	1284-0102-11-11'
	<u>Matrix Spike</u> Spiked @ 5 ppm % Recovery	<u>Matrix Spike Duplicate</u> Spiked @ 5 ppm % Recovery
<u>Analyte:</u>		
Arsenic	100%	102%
Barium	92%	82%
Cadmium	120%	93%
Chromium	112%	93%
Lead	104%	84%
Mercury	70%	63%
Selenium	106%	94%
Silver	55%	37%

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261
Results Reported as mg/L (ppm)

<u>Sample #</u>	<u>1284-0108-W01</u>	<u>Regulatory Level</u>
<u>Analyte:</u>		
Arsenic	0.04 ^b	5.0
Barium	0.78	100
Cadmium	<0.01	1.0
Chromium	<0.01	5.0
Lead	4.9	5.0
Mercury	<0.01	0.2
Selenium	0.03	1.0
Silver	<0.01	5.0

^b - The analyte indicated was also found in the blank sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991

Date Submitted: January 4, 1991

Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR TCLP METALS IN ACCORDANCE WITH
40 CFR PART 261

Results Reported as mg/L (ppm)
Quality Assurance

<u>Sample #</u>	<u>Blank</u>	<u>Regulatory Level</u>
<u>Analyte:</u>		
Arsenic	0.02	5.0
Barium	<0.01	100
Cadmium	<0.01	1.0
Chromium	<0.01	5.0
Lead	<0.01	5.0
Mercury	<0.01	0.2
Selenium	<0.01	1.0
Silver	<0.01	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
 Date Submitted: January 4, 1991
 Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
 FOR VOLATILE ORGANIC COMPOUNDS
 BY GC/FID-ECD
 Results Reported as ng/g (ppb)

<u>Sample #</u>	<u>1284-0102- 8-7'</u>	<u>1284-0102- 9-10'</u>	<u>1284-0102- 10-10'</u>	<u>1284-0102- 11-11'</u>
<u>Analyte:</u>				
1,1-Dichloroethylene	9	7	2	1
Methylene Chloride	160	20	10	10
t-Dichloroethylene	10	<1	2	1
1,1-Dichloroethane	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1
Carbon Tetrachloride	<1	<1	<1	<1
Benzene	<1	<1	<2	<1
Trichloroethylene	<1	<1	<1	<1
Toluene	4	<1	98	<1
Tetrachloroethylene	<1	<1	<2	<1
Ethylbenzene	5	<1	170	28
m,p-Xylenes	28	<1	650	220
o-Xylene	26	<1	750	200

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR VOLATILE ORGANIC COMPOUNDS
BY GC/FID-ECD
Results Reported as ng/g (ppb)

<u>Sample #</u>	<u>1284-0102-12-12'</u>
<u>Analyte:</u>	
1,1-Dichloroethylene	10
Methylene Chloride	10
t-Dichloroethylene	4
1,1-Dichloroethane	<1
Chloroform	<1
1,1,1-Trichloroethane	<1
Carbon Tetrachloride	<1
Benzene	<1
Trichloroethylene	<1
Toluene	8
Tetrachloroethylene	<1
Ethylbenzene	36
m,p-Xylenes	220
o-Xylene	190

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991

Date Submitted: January 4, 1991

Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR VOLATILE ORGANIC COMPOUNDS
BY GC/FID-ECD
Results Reported as ng/g (ppb)
Quality Assurance

<u>Sample #</u>	<u>Blank</u>	1284-0102-12-12' (Duplicate)
<u>Analyte:</u>		
1,1-Dichloroethylene	<1	<1
Methylene Chloride	<1	10
t-Dichloroethylene	<1	5
1,1-Dichloroethane	<1	<1
Chloroform	<1	<1
1,1,1-Trichloroethane	<1	<1
Carbon Tetrachloride	<1	<1
Benzene	<1	<1
Trichloroethylene	<1	<1
Toluene	<1	20
Tetrachloroethylene	<1	<1
Ethylbenzene	<1	64
m,p-Xylenes	<1	400
o-Xylene	<1	410

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 17, 1991
Date Submitted: January 4, 1991
Project: Des Moines Way 01-284, P.O. #17226

RESULTS OF ANALYSES OF THE SOIL SAMPLES
FOR VOLATILE ORGANIC COMPOUNDS
BY GC/FID-ECD
Results Reported as ng/g (ppb)
Quality Assurance

<u>Sample #</u>	1284-0102-12-12' <u>Matrix Spike</u> Spiked @ 1,000 ppb % Recovery
<u>Analyte:</u>	
1,1-Dichloroethylene	110%
Methylene Chloride	130%
t-Dichloroethylene	98%
1,1-Dichloroethane	120%
Chloroform	130%
1,1,1-Trichloroethane	87%
Carbon Tetrachloride	79%
Benzene	120%
Trichloroethylene	110%
Toluene	120%
Tetrachloroethylene	91%
Ethylbenzene	110%
m,p-Xylenes	98%
o-Xylene	110%

* Insufficient sample for MSD analysis.

TIME OIL CO. SAMPLE LOG

1-TSB-A

Prop. No: 01-284 Address: 12807 Des Moines Way
 Date: 12/17/92 & 1/2/91 Seattle WA
 Method: Grab ☒ S.Spoon ☐ Bailer ☐ Pump ☐
 Preserved: Ice ☒ Acid ☐ None ☐
 Lab Name: F&B Phone: _____ PO No.: 17226
 Lab Address: _____

Sample #	Location/Description	Type*	Analysis Instructions	EPA Method
1 1284-1217 - 1-12' } Tank #1		SWP		17070
2 1284-1217 - 2-12' }		SWP		17071
3 1284-1217 - 3-13' } Tank #2		SWP	*Numbers 1-7 TPH g + BTEX	17072
4 1284-1217 - 4-13' }		SWP		17073
5 1284-1217 - 5-15' } Tank #3		SWP		17074
6 1284-1217 - 6-10' }		SWP		17075
7 1284-1217 - 7-18' Tank #2		SWP		17076
8 1284-0102 - 8-7' Waste Oil Tank		SWP		17077
9 1284-0102 - 9-10' Heating Oil Tank		SWP	*Numbers 8-12	17078
10 1284-0102 - 10-10' }		SWP	TPH PCB TCLP Metals Solvents/chemicals	17079 Per WA Rules
11 1284-0102 - 11-11' } Waste Oil Tank		SWP		17080
12 1284-0102 - 12-12' }		SWP		17081
13 -		SWP		
14 -		SWP	WASTE OIL METALS	
15 -		SWP	Pb Id	
16 -		SWP		
17 -		SWP		
18 -		SWP		
19 -		SWP		
20 -		SWP	consumed in analysis	
21 -		SWP	17077, 78, 79	
22 -		SWP	*17081 - If. mess. w/ Fred Proby regarding insufficient sample to run TCLP (1-8-90)	

Other Instructions: Samples #1-7 were frozen, so I don't believe that the excessive holding time should be a problem.

Sample Count = 12 Check sample jar count against Log!

* S = Soil W = Water P = Product

CHAIN OF CUSTODY RECORD

Relinquished By: _____ Received By: _____ Date & Time: _____
 Relinquished By: Fred Proby Received For Lab By: Ted A. Becherer Date & Time: 1.4.90 4:50pm

GENERAL LAB INSTRUCTIONS

Please provide the requested information

1. Sample numbers assigned by Lab: 17070 to 17081 Date Analyzed: 1.8.91
 2. Person performing analysis: KMC, EZ Data Reviewer: JS, TSB
 3. Scheduled sample disposal date: 2.8.91 NOTIFY TIME OIL CO. BEFORE DISPOSAL
 4. Provide copies of ALL chromatograms, including QA/QC runs.

IMPORTANT! PLEASE RETURN A COPY OF THIS FORM WITH YOUR REPORT TO TIME OIL CO.
 Attn: Environmental Manager, PO Box 24447 Terminal Sta., Seattle, WA 98124 (206) 285-2400

Sampler: Des Moines, Wa
 Prop. No: 01-284 Dress: 12807 Des Moines, Wa
 Date: 1/8/91
 Purpose: K Murphy
 Lab Name: Tank Removal
 Method: Grab ☒ S.Spoon ☐ Bailer ☐ Pump ☐
 Lab Address: E + B Preserved: Ice ☒ Acid ☐ None ☐
 Phone: _____ PO No.: 17224

Sample #	Location/Description	Type*	Analysis Instructions	EPA Method
1	1284 - 0108 - W01	(S) W P	TCLP metals	
2	-	S W P		
3	-	S W P		
4	-	S W P		
5	-	S W P		
6	-	S W P		
7	-	S W P		
8	-	S W P		
9	-	S W P		
10	-	S W P		
11	-	S W P		
12	-	S W P		
13	-	S W P		
14	-	S W P		
15	-	S W P		
16	-	S W P		
17	-	S W P		
18	-	S W P		
19	-	S W P		
20	-	S W P		
21	-	S W P		
22	-	S W P		

Other Instructions:

Sample Count =

Check sample jar count against Log!

* S = Soil W = Water P = Product

CHAIN OF CUSTODY RECORD

Relinquished By:

Received By:

Date & Time

Relinquished By:

Received For Lab By:

Date & Time: 1-9-91

GENERAL LAB INSTRUCTIONS

Please provide the requested information

- Sample numbers assigned by Lab: 17070 to 17081 Date Analyzed: 1-8-91
- Person performing analysis: KMC, EZ Data Reviewer: JS, TSB
- Scheduled sample disposal date: 2-8-91 NOTIFY TIME OIL CO. BEFORE DISPOSAL
- Provide copies of ALL chromatograms, including QA/QC runs.

IMPORTANT! PLEASE RETURN A COPY OF THIS FORM WITH YOUR REPORT TO TIME OIL CO.
 Attn: Environmental Manager, PO Box 24447 Terminal Sta., Seattle, WA 98124 (206) 285-2400



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

For further information about completing this form, please contact the Department of Ecology UST Program.

The completed checklist should be mailed to the following address:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator: Time Oil Co.

Owners Address: 2737 West Commodore Way

Street

P.O. Box

Seattle, WA 98199

City

State

ZIP-Code

Telephone: (206) 285-2400

Site ID Number (on invoice or available from Ecology if tank is registered): 4050

Site/Business Name: Jackpot Food Mart

Site Address: 2412807 Des Moines Way South

Street

King

County

Seattle

City

WA

State

98125

ZIP-Code

2. SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Registered Person: Fred Proby

Address: Time Oil Co., 2737 West Commodore Way

Street

P.O. Box

Seattle, WA 98199

City

State

ZIP-Code

Telephone: (206) 285-2400

U.S.T.
#4050



STATE OF
WASHINGTON

MASTER LICENSE SERVICE

PO Box 9034 • Olympia, WA 98507-9034 • (360) 684-1400

REGISTRATIONS AND LICENSES

Unified Business ID #: 602 771 149

Business ID #: 1

Location: 15

Expires: 10-31-2010

PETROSUN WEST, LLC
PETROSUN #1284
12807 DES MOINES MEMORIAL DR
BURIEN WA 98168 2843

TAX REGISTRATION
LIQUID FUEL METER-LOW (12)
UNDERGROUND STORAGE TANKS (3): 429, 430, 425

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. Luse
Director, Department of Licensing

UST #4050



12/15/2009 8:46:01 AM



12/15/2009 8:46:53 AM



12/15/2009 9:03:51 AM

UST# 4050

Buchan, Arthur (ECY)

From: Steven Matthew [SMatthew@pcandf.com]
Sent: Thursday, December 10, 2009 10:25 AM
To: Buchan, Arthur (ECY)
Subject: Re: Inspections on Tuesday

Confirmed see you Tuesday. Hopefully it will be a little warmer

From: Buchan, Arthur (ECY)
To: Steven Matthew
Sent: Thu Dec 10 09:09:36 2009
Subject: Inspections on Tuesday

Steve,

I left you a voicemail. We have 4 inspections scheduled for Tuesday, December 15th starting at 9:00am.

First site is 128th and Des Moines Memorial Drive.

I think we are working our way South after that.

Call or reply for verification.

Thanks

Arthur Buchan

Washington Department of Ecology

Northwest Regional Office

3190 160th Ave SE

Bellevue, WA 98008-5452

Phone: (425) 649-7149

www.ecy.wa.gov/programs/tcp/ust-lust/tanks.html

UST # 4050

Buchan, Arthur (ECY)

From: Buchan, Arthur (ECY)
Sent: Friday, October 30, 2009 7:49 AM
To: 'Steven Matthew'
Subject: RE: Inspections

12/15 at 9:00 am. Start North and work our way South. So:

Start with: 9:00 am – Petrosun 1284

Followed by:

Convenience Retailers 2705480

Convenience Retailers 2701991

Convenience Retailers 2705491

Thank you,

Arthur Buchan
Washington Department of Ecology
Northwest Regional Office
3190 160th Ave SE
Bellevue, WA 98008-5452
Phone: (425) 649-7149
www.ecy.wa.gov/programs/tcp/ust-lust/tanks.html

From: Steven Matthew [mailto:SMatthew@pcandf.com]
Sent: Thursday, October 29, 2009 7:52 PM
To: Buchan, Arthur (ECY)
Subject: RE: Inspections

Dec 15 works for me. Do you want to work from north to south or south to north? Let me know where and what time.

Steve Matthew

Pacific Convenience and Fuels, LLC
Compliance and Maintenance Manager
Northern Washington
Phone: 253 255 0487
e-mail: smatthew@pcandf.com

From: Buchan, Arthur (ECY) [mailto:ABUC461@ECY.WA.GOV]
Sent: Thursday, October 29, 2009 10:47 AM
To: Steven Matthew
Subject: Inspections

Steve,

The following sites need UST Compliance Inspections by DOE:

UST #	Site Name	Address
100018	Convenience Retailers 2701991	17700 Ambaum Blvd S, Burien
6328	Convenience Retailers 2705491	16405 SE 272 nd , Kent
10132	Convenience Retailers 2705480	15846 1 st Ave S, Burien
4050	Petrosun 1284	12807 Des Moines Memorial Drive, Seattle

I have the following dates available:

12/15, 12/22, 12/23, 12/29, 12/30.

Please let me know what date (or dates if you want to split them up) work best for you, a time you want to start, and the location you would like to start at.

Arthur Buchan

Washington Department of Ecology

Northwest Regional Office

3190 160th Ave SE

Bellevue, WA 98008-5452

Phone: (425) 649-7149

www.ecy.wa.gov/programs/tcp/ust-lust/tanks.html



State of Washington Department of Ecology
UST Site Inspection

UST # 4050
651

Inspection Date: 15 Dec 09 Time: 0900 Inspector(s): Buchan, Lee
Inspection Type: (circle) UST Compl Tech. Assist. Follow-up Other

Site Name: <u>Convenience Retailers</u>	UST #: <u>4050</u>
Address: <u>12807 Des Moines Way S</u>	Site Contact: <u>Steve Matthew</u>
City: <u>Seattle WA</u>	Phone: <u>253-255-0487</u>

Tank #	Gallons	Fuel Type	Tank Model (i.e. STI-P3, Xerxes)	Compartment/Manifold
<u>4251</u>	<u>10K</u>	<u>u/L</u>	<u>D/W</u>	
<u>3429</u>	<u>10K</u>	<u>u/L</u>	<u>↓</u>	
<u>3430</u>	<u>10K</u>	<u>u/L</u>	<u>↓</u>	

Fuel Distributor:	Distr. Phone:
-------------------	---------------

I. RECORDKEEPING REQUIREMENTS

A. General Documents:

Compliant?

1. TAG visible to distributor: (TAG # <u>A0044</u>) WAC 173-360-130(4)	<u>Y</u>	<u>N</u>	<u>N/A</u>
* 2. MBL compliant: (UBI# <u>602-771-149-001015</u> (exp. date <u>10-31-09</u>) WAC 173-360-130(2)(d)	<u>Y</u>	<u>N</u>	<u>N/A</u>
* 3. Fin. Resp. in compliance: (circle) <u>insur. co.</u> self-insur. state/fed. WAC 173-360 Part IV	<u>Y</u>	<u>N</u>	<u>N/A</u>
Tank Insurance Co. <u>Colony Ins.</u> Expiration Date <u>11-14-09</u>			

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.

N 47° 29' 18.4"
W 122° 18' 43.5"
± 3

Interior lining install date	Int. Lining inspection date			
4. Interior lining meets 10 & 5 yr. inspection frequency: WAC 173-360-310(2)(a)(ii)	<u>Y</u>	<u>N</u>	<u>N/A</u>	
5. Interior lining inspection has Pass or equivalent results: WAC 173-360-310(2)(a)(ii)	<u>Y</u>	<u>N</u>	<u>N/A</u>	
Cath. Prot. Test date _____ for: (circle) <u>Steel Tank(s)</u> <u>Steel Line(s)</u>				
6. Cathodic Protection test frequency in compliance: WAC 173-360-320(2)(a)	<u>Y</u>	<u>N</u>	<u>N/A</u>	
7. CP test has Passing or equivalent results: WAC 173-360-320(1)	<u>Y</u>	<u>N</u>	<u>N/A</u>	
8. Records indicate tanks and piping are corrosion protected: WAC 173-360-305/310	<u>Y</u>	<u>N</u>	<u>N/A</u>	

C. Tank Inventory Control is conducted: (circle) Daily Weekly Monthly

9. Inventory control is performed correctly: WAC 173-360-345(6)(a)/(b)/(c)	<u>Y</u>	<u>N</u>	<u>N/A</u>
10. Tanks do not exceed 10 yr. limit for inventory control: WAC 173-360-345(2)	<u>Y</u>	<u>N</u>	<u>N/A</u>
Tank(s) met corrosion protection requirements (date)			
11. Tank tight. test frequency compliant: (last date _____) WAC 173-360-345(5)/(6)(a)(b)(c)	<u>Y</u>	<u>N</u>	<u>N/A</u>

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)	<u>Y</u>	<u>N</u>	<u>N/A</u>
13. Equip. service checks per mnfctr's instruct.: (date <u>1-27-09</u>) WAC 173-360-335(1)(b)	<u>Y</u>	<u>N</u>	<u>N/A</u>
14. SIR Vendor (_____) records and frequency compliant: WAC 173-345(6)(i)	<u>Y</u>	<u>N</u>	<u>N/A</u>

Comments: _____

UST Site Inspection (cont.)

UST # 4050 Insp. Date 15 Dec 09

I. RECORDKEEPING REQUIREMENTS (cont.)

Compliant?

E. Piping Pumping System: (circle) Pressure Suction(Tank) Suction(Pump) Other

15. Pressure Lines have annual ALLD test: (date _____) WAC 173-360-350(3)(a)	Y	N	<u>N/A</u>
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 _____) WAC 173-360-350(3)(b)	Y	N	<u>N/A</u>
18. Press. Lines Elec. ALLD tight. test compliant: (date _____) WAC 173-360-350(3)(b)	Y	N	<u>N/A</u>
19. Pressure Lines VM, GWM, Interstitial, or SIR compliant: WAC 173-360-350(3)(c)	Y	N	<u>N/A</u>
20. Int. sump sensor service check per mnfr's instruct: (date _____) WAC 173-360-335(1)(b)	Y	N	<u>N/A</u>
21. Suction Line (tank valve) 3 yr. Tight. Test: (date _____) WAC 173-360-350(2)(b)	Y	N	<u>N/A</u>
22. Suction Line (tank valve) VM, GW, Intst. or SIR compliant: WAC 173-360-350(2)(b)	Y	N	<u>N/A</u>

II. EQUIPMENT CHECKS

A. Rectifier for Impressed Current System:

23. Imp. Curr. system operated and maintained continuously: WAC 173-360-320(1)	Y	N	<u>N/A</u>
24. Imp. Curr. system inspected every 60 days: WAC 173-360-320(3)	Y	N	<u>N/A</u>
25. Imp. Curr. Amp/Volt readings within specified range: WAC 173-360-320(3)	Y	N	<u>N/A</u>
Readings: Amp _____ Volt _____ Meter/Clock _____ Rectifier Model _____ Install Date _____			

B. Monthly monitoring: (circle) ATG Vapor GW Interstitial SIR Other

Release Detection Model <u>Veeder Root TLS-250i</u>			
26. Rel. Det. Equip. is NOT in alarm: WAC 173-360-335(1)(b)	Y	N	<u>N/A</u>
If no, why is it in alarm _____			
27. Rel. Det. equipment and/or alarms operational: WAC 173-360-335(1)(b)	Y	N	<u>N/A</u>
28. Rel. Det. equipment printer or modem operational: WAC 173-360-335(1)(b)	Y	N	<u>N/A</u>
29. Vapor or GW MWs placed around tanks and piping runs: WAC 173-360-335(1)(a)	Y	N	<u>N/A</u>

C. Lines:

30. Pressurized Lines ALLD is present: WAC 173-360-350(3)(a)	Y	N	<u>N/A</u>
31. Corr. Res. lines verified: (circle) <u>at sump</u> at dispenser records WAC 173-360-305(2)	Y	N	<u>N/A</u>
32. Interstitial Line sump sensors are placed correctly: WAC 173-360-335(1)(a)	Y	N	<u>N/A</u>
33. Turbine Sumps are free of liquid: WAC 173-360-335(1)(b)	Y	N	<u>N/A</u>

D. Spill/Overfill:

34. Spill Bucket does NOT have obvious cracks, holes. WAC 173-360-305(3)(a)(i)	Y	N	<u>N/A</u>
35. Overfill device used: (circle) <u>Auto-Shut</u> Alarm Ball-float WAC 173-360-305(3)(a)(ii)	Y	N	<u>N/A</u>
36. Overfill auto. shut-off device is NOT tampered with: WAC 173-360-305(3)(a)(ii)(A)	Y	N	<u>N/A</u>
37. Overfill alarm set at 90% and audible to delivery driver: WAC 173-360-305(3)(a)(ii)(B)	Y	N	<u>N/A</u>
38. Overfill ball-float valve present: (circle) visual records WAC 173-360-305(3)(a)(ii)(B)	Y	N	<u>N/A</u>

* Comments: Spill buckets have water

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# 002721

Inspector Signature [Signature] Date 15 Dec 09

VEEDER-ROOT
TLS-250
TANK LEVEL SENSOR

DEC 15, 2009
9:19 AM

SENSOR STATUS

SENSOR 1A NORMAL
SENSOR 1B NORMAL
SENSOR 2A NORMAL
SENSOR 2B NORMAL
SENSOR 3A NORMAL
SENSOR 3B NORMAL

EXTERNAL INF. STATUS
OPEN

Underground Storage Tank Notice of Non-Compliance (NONC)

UST Site ID: 4050 Suite 350

Site Name: <u>Convenience Retailers</u>	Mailing Address: <u>2603 Camino</u>
Site Address: <u>12807 De Meines way S.</u>	City, State, Zip: <u>San Ramon, CA</u>
Site City: <u>Seattle WA</u>	<u>94583</u>
Site Contact: <u>Steve Matthew</u>	Phone: <u>253-255-0487</u>

Ecology Inspector(s): <u>Buchan, Leo</u>	Inspection Date: <u>15 Dec 09</u>
Inspector Phone: <u>425-649-7149</u> FAX: _____	Email: <u>abuc 461 @ecy.wa.gov</u>
Notice of Penalty Issued <input checked="" type="checkbox"/>	Field Citation # <u>002721</u>

The Department of Ecology is responsible for overseeing environmental laws that protect human health and the environment in Washington State. During this visit, Ecology observed violations of Chapter 173-360 of the Washington Administrative Code, the Underground Storage Tank Regulations.

Violations observed are checked below.

Violation No.	WAC 173-360	Violation
<input checked="" type="checkbox"/> 1	130(1) (D)	Operating regulated UST without a valid permit
<input type="checkbox"/> 2	210(2)	Failure of owner/operator to keep and maintain necessary records and/or documentation
<input type="checkbox"/> 3	210(3)	Failure of owner/operator to have necessary records and/or documentation available at the time of inspection
<input checked="" type="checkbox"/> 4	305(3) (i)	Failure to provide spill and/or overfill prevention equipment on a new UST system
<input type="checkbox"/> 5	310(4)	Failure to provide spill and/or overfill prevention equipment as an upgrading requirement
<input type="checkbox"/> 6	320(1)	Failure to operate and maintain corrosion protection system to provide continuous protection
<input type="checkbox"/> 7	320(2)(a)	Failure to test cathodic protection system with required frequency
<input type="checkbox"/> 8	320(3)	Failure to inspect impressed current cathodic protection system every 60 days
<input type="checkbox"/> 9	335(1)(b)	Failure to install, calibrate, operate, or maintain release detection method in accordance with manufacturer's instruction
<input type="checkbox"/> 10	335(2)	Failure to properly monitor tanks and/or piping for releases (monthly monitoring or allowed exceptions)
<input type="checkbox"/> 11	345(6)	Failure to conduct tank release detection in accordance with the particular method used
<input type="checkbox"/> 12	350(2)(a)(i)	Failure to equip pressurized piping with automatic line leak detectors
<input type="checkbox"/> 13	350(2)(a)(ii)	Failure to conduct annual line tightness test or monthly monitoring on pressurized piping
<input type="checkbox"/> 14	350(3)(a)	Failure to meet automatic line leak detector requirements including annual testing
<input type="checkbox"/> 15	350(3)(b)	Failure to conduct line tightness testing in accordance with the requirements
<input type="checkbox"/> 16	350(3)(c)	Failure to meet one of the applicable tank methods for piping release detection
<input type="checkbox"/> 17	400	Failure of owner/operator to comply with the financial responsibility requirement
<input type="checkbox"/> 18		
<input type="checkbox"/> 19		
<input type="checkbox"/> 20		
<input type="checkbox"/> 21		

END

Violation No.	What Was Observed and Action(s) Required to Achieve Compliance	Submit to Ecology by
1	WAC 173-360-130(i)(D) Failure regulated UST without a valid permit Fax copy of valid MBL license to Dept. of Ecology by: Jan 10 th 2010.	1-10-10 15 Dec
2	WAC 173-360-305(3)(i) Spill buckets full of water. Clean by 15 Dec 09, action completed. 15 Dec 09	15 Dec 09

Instructions:

- This Notice of Non-Compliance (NONC) is not an enforcement order and is **not appealable**.
- If a penalty accompanies this NONC, the **penalty is appealable**.
- **Appeal directions are on the back of the penalty.**
- Failure to comply with this NONC may result in further enforcement action.

1. You must complete the actions identified above to be in compliance with the UST Regulations.
2. Direct any questions to Antony Leu, Ecology Inspector, at 425-649-4318.
3. To request an extension, **submit the written request** to the Ecology Inspector by N/A.

Please include:

- Reason extension is needed.
- Steps already taken.
- Description of work that remains to be completed.
- Anticipated completion date.

You will be notified if an extension can be granted.

Submit required documentation to the Regional Office indicated:

Central Regional Office
15 W. Yakima Ave
Yakima, WA 98902
Phone: 509/575-2490
Fax: 509/575-2809

Eastern Regional Office
4601 N. Monroe St.
Spokane, WA 98205
Phone: 509/329-3400
Fax: 509/329-3572

NW Regional Office
3190 160 Ave. SE
Bellevue, WA 98008
Phone: 425/649-7000
Fax: 425/649-7098

SW Regional Office
P O Box 47775
Olympia, WA 98504
Phone: 360/407-6300
Fax: 360/407-6305

Headquarters
P O Box 47600
Olympia, WA 98504
Phone: 360/407-7170
Fax: 360/407-7154

Ecology Inspector Signature: [Signature] Date: 15 Dec 09Owner/Operator Signature: [Signature] Date: 12-15-09Owner/Operator Print Name: Steve Math

UST # 4050

Response to Docket Request

If you have problems with this process or if you should need to modify any of the information you provided when you requested this docket number please call Maylee Collier (360) 407-6712.

Location Information

Facility Site ID:	45191292	Location Address:	
Name:	JACKPOT STATION 284		12807 DES MOINES MEMORIAL DR S
Latitude:	47.48843		
Longitude:	-122.31216	STR:	Section 16, T. 23 N., R. 4 E.

Docket Information - Docket Number: 7281

Date Docket Created:	12/16/2009	Issuing Program:	Toxics Clean Up
Docket Creator:	Miller, Tricia	Action Type:	UST Field Penalty
Program Contact:	Leo, Antony	Issuing Office:	Northwest Regional Office
Violation Type:	Admin	Date Action Issued:	12/15/2009
Violation Date:	12/15/2009	Field Action #:	
Voided:	No		
Description:	Operating Underground Storage Tank without a valid Master Business License with Tank Endorsements.		
	General Notes:		

Docket #	Amended By	Date Created	Contact	Docket #	Amends Docket	Date Created	Contact
----------	------------	--------------	---------	----------	---------------	--------------	---------

Docket Recipients

Name	Comment
Steve Matthew, Compliance Manager	Recipient

Docket Citations

- 173-360 - Underground storage tank regulations

[close window](#)

UST # 4050



Washington State Department of Ecology
Underground Storage Tank Program

NOTICE OF PENALTY

Penalty # UST 002721 UST Site # 4050 Agency Docket # 09NWRO7281
 Responsible Party: Convenience Retailers c/o Steve Matthews
 Location of Violation 12807 Drs Moines Way S Mailing Address 2603 Camino Ranch
 (Address): Seattle (if different): Suite 350
 State/Zip: WA 98168 State/Zip: San Ramon 94583

			Penalty Amount	
Date Issued: <u>12/15/09</u> Time: <u>0900</u> Region: <u>NWRO</u>			Unit Assessment	TOTAL
RCW 90.76.020(1)(c) RCW 90.76.020(3)(d) WAC 173-360-200	Failure to notify of existing or new UST system	\$100		
RCW 90.76.020(3)(d) WAC 173-360-200(6)	Failure to report changes in UST system information within 30 days including temporary closure	\$100		
RCW 90.76.020(4) or (5) WAC 173-360-130 (1)	Operating UST without a valid license and/or permit (tag)	\$100	x 1	100.00
RCW 90.76.020(1)(a) or (b) WAC 173-360-305(3) or 310(4)	Failure to provide required overfill and/or spill protection	\$100		
RCW 90.76.020(1)(c), (3)(a), or (d) RCW 90.76.080(1) WAC 173-360-210	Failure to comply with reporting and recordkeeping requirements.	\$100		
RCW 90.76.020(4) RCW 90.76.050 WAC 173-360-130(5)	Waste oil pumped/emptied without UST having a valid license and/or permit (tag)	\$100		
RCW 90.76.020(1)(d) WAC 173-360-335 through 355	Failure to comply with release detection requirements.	\$200		
RCW 90.76.020(1)(f) WAC 173-360-380 through 398	Failure to comply with closure requirements	\$200		
RCW 90.76.020(1)(a), (b) or (c) WAC 173-360-305, 310, 320	Failure to comply with corrosion protection requirements.	\$200		
RCW 90.76.020(1)(g) WAC 173-360-400 through 499	Failure to comply with financial responsibility requirements	\$400		
RCW 90.76.050 WAC 173-360-130(4)	Delivering to UST without a valid permit (tag)	\$500		
RCW 90.76.020(1)(f) WAC 173-360-390	Failure to conduct required site assessment	\$500		
RCW 90.76.020(1)(e) WAC 173-360-360, 372, or 375	Failure to comply with release reporting requirements	\$500	Per Site	
RCW 90.76.020(1)(c) WAC 173-360-375	Failure to immediately contain and cleanup any spill or overfill of petroleum or hazardous substance	\$500	Per Site	
RCW 90.76.020(6) WAC 173-360-620, 630	Failure to comply with certification requirements	\$500	Per Site	
RCW 90.76.020(1)(e) WAC 173-360-370	Failure to investigate for a suspected release	\$500	Per Site	
WAC 173-360-370 through 375 WAC 173-360-399/ WAC 173-340-450	Failure to comply with Corrective Action Requirements	\$500	Per Site	
		Total for above penalty(s) <u>\$100.00</u>		

I personally investigated or observed the violation(s) noted above.

Signature of UST Inspector

Date

Printed Name of UST Inspector

I acknowledge receipt of this action. A signature does not imply agreement.

Signature of Responsible Party or Site Contact

Date

Printed Name of Responsible Party or Site Contact

Evidence Collected:

No Current MBL

Regional Office Mailing Addresses

Phone Numbers

NWRO 3190 160th Ave SE, Bellevue WA 98008-5452 (425) 649-7000

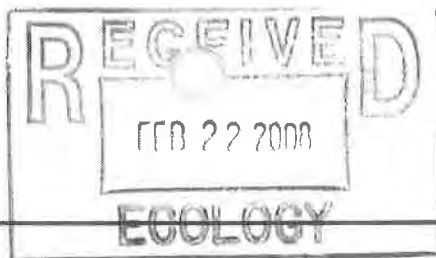
SWRO PO Box 47775, Olympia, WA 98504-7775 (360) 407-6300

VFO Field Office 2108 Grand Blvd, Vancouver, WA 98661 (360) 690-7171

CRO 15 W Yakima Ave Ste 200, Yakima, WA 98902 (509) 575-2490

ERO 4601 N Monroe, Spokane, WA 99205-1295 (509) 329-3400

This action does not limit the Department from other enforcement actions as deemed necessary. You have a right to appeal this penalty. Refer to the back of this penalty for detailed instructions. Immediately contact the inspector that issued this penalty if you do not understand the appeal process.
 Authority to Issue Penalties for these Violations is found in RCW 90.76.060.



NWRO - King
4050
FS# 45191292



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: 178-047-526 Site ID Number: _____
(UBI # from Master Business License) (Available from Ecology if tank is Registered)

Site/Business Name: PetroSun #01284

Site Address: 12807 Des Moines Way S. King
Street County
Seattle, WA. 98168
City State Zip+4 (required)

Telephone: _____

UST Owner/Operator: PetroSun Fuel, Inc.

Mailing Address: 22018 84th. Ave. S.
Street P.O. Box
Kent, WA. 98032
City State Zip+4 (required)

Telephone: (253) 437-5980

2. FIRM PERFORMING WORK

Service Company: Northwest Pump & Equipment Co.

Service Co. Address: 2800 N.W. 31st. Avenue
Street
Portland, OR. 97210
City State Zip+4 (required)

Certified Supervisor: Steven R. Colby

Address: 22914 64th. Ave. S.
Street P.O. Box
Kent WA 98032-1846
City State Zip+4 (required)

ICBO Certification Number: 0875024-U3 Certification Issue Date (Month/Year): 10/2007

Telephone: (866) 205-7777

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)

4050

DEPT. OF ECOLOGY
TCP-NWRO

MAR 10 2008

RECEIVED

Underground Storage Tank

Tightness Testing Checklist

Site ID # _____
Site Address _____ 12807 Des Moines Way S.
City <u>Seattle</u> , WA.

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD

Date of Test: 1/18/08

1. Tightness testing method(s) used (indicate if more than one method was used):

Test method name/version _____

Test method manufacturer _____

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)
☐ Line Leak Detector test 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 | 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%). | <input checked="" type="checkbox"/> SRC | <input type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input checked="" type="checkbox"/> SRC | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Was the product level in the tank during the test within the limitations of the test methods performance standards? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> SRC |
| 4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> SRC |
| 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.) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> SRC |

* Item not applicable

White Copy (Ecology), Yellow Copy (Owner/Operator), Pink Copy (Service Provider)

Site ID # _____
Site Address _____ 12807 Des Moines Way S.
City <u>Seattle, WA.</u>

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID # (tank name registered with Ecology)	Safe Suction	Safe Suction	Safe Suction	
2. Date installed	SIR	SIR	SIR	
3. Tank capacity in gallons	10079	10079	10079	
4. Last substance stored	Unleaded	Plus	Supreme	
5. Number of tank compartments	1	1	1	
6. Tank type: (S) single wall; (D) double wall; (P) partitioned	S	S	S	NA
7. Is overfill device present? (Yes/No)	Yes	Yes	Yes	NA
8. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)	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	
10. The numerical tank test results are? (in gallons per hour)	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)*	NA	NA	NA	NA

IV. Line Information

	Line 1	Line 2	Line 3	Line 4
1. Piping type: (S) single wall; (D) double wall	S	S	S	NA
2. Pump type: (T) turbine; (S) suction	S	S	S	NA
3. (a) If turbine, is line leak detector present? (Yes/No)	NA	NA	NA	NA
(1) If present, was lead seal intact? (Yes/No N/A)	NA	NA	NA	NA
(2) Line leak detector results? (Pass/Fail)	NA	NA	NA	NA
(b) If suction, check valve located at? (T) tank (P) pump	P	P	P	NA
4. The numerical line test results are? (in gallons per hour)				
5. Line tightness test results? (Pass/Fail)*	NA	NA	NA	NA

* 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.

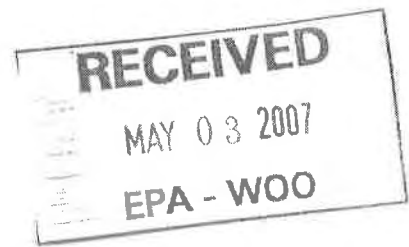
V. REQUIRED SIGNATURES

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.

1/18/08	<i>Steven R. Colby</i>	Steven R. Colby
Date	Signature of Certified Supervisor	Printed Name
2/20/08	<i>Brian Clark</i>	BRIAN CLARK w/ DWP
Date	Signature of Tank Owner/Authorized Representative	Printed Name

EPA Inspection at WA UST Sites
Data Entry Form



UST SITE #

WA 4050

Facility Name

Food Mart 284

Inspection Date

4/4/07

Inspector

Baron

Result (circle)

Enforcement Action Issued: FC FNONC AO Referral

No Additional Action Required: **PASSED**

Site Contact

Talib Karamali

SOC Spill/Overfill/Corrosion

☒ Yes ☐ No

SOC Release Detection

☒ Yes ☐ No

Comments



Underground Storage tank

UST # 4050

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: _____ Site ID Number: 004050
(UBI # from Master Business License) (Available from Ecology if tank is Registered)

Site/Business Name: 01-284 SHELL

Site Address: 12807 Des Moines Way KING
Street County
Telephone: Seattle, WA 98168
City State Zip+4(required)

UST Owner/Operator: TIME OIL CO.

Mailing Address: 2737 W. COMMODORE WAY KING
Street County
SEATTLE, WA. 98199-1233
City State Zip+4(required)

Telephone: 206-285-2400

RECEIVED

APR 03 2007

DEPT OF ECOLOGY

2. FIRM PERFORMING WORK

Service company: TIME OIL CO.

Service Co. Address: 2737 W. COMMODORE WAY
Street
SEATTLE, WA. 98199-1233
City State Zip+4(required)

Certified Supervisor: STEVE MATTHEW (UST SPECIALIST)

Address: 2737 W. COMMODORE WAY
Street
SEATTLE WA. 98199-1233
City State Zip+4(required)

IFIC Certification Number: 1036154-25 (INST.) 27(TEST) Certification Issue Date (Month/Year): FEB 2005
26 (DEC.) 28(CP)

Telephone: 206-285-2400

Ecology is an equal opportunity and affirmative action employer

For special accommodation needs, please contact the Underground Storage Tanks Section At (360)407-7170

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 cover sheet 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 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 named 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 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.

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.

Northwest
(206) 649-7000

Southwest
(360) 407-6300

Central
(509) 574-2490

Eastern
(509) 456-2926

Underground Storage tanks

Tightness Testing Checklist

Site ID # 004050

Site Address

12807 DES MOINES WAY

City SEATTLE

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD

Date of Test: 1-8-07

1. Tightness testing method(s) used (indicate if more than one method was used):

Test method name/version UST 2000P PETRO-TITE
Test method manufacturer USTEST HEATH

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): WELL OTHER

3. Method used for release detection:

☐ Weekly manual gauging
☒ Daily manual inventory control
☐ Automatic tank gauging
☒ 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)

S. Suction

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.

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 alarms of no more than 5%).
2. Have all written testing procedures developed by the manufacturer of the testing equipment and methods 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? (require 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 with 24 hours to UST staff at the appropriate Ecology regional office.)

Yes No NA*

☒ ☐ ☐☒ ☐ ☐☒ ☐ ☐☐ ☐ ☒

*Item not applicable

Site ID #	004050
Site Address	12807 DES MOINES WAY
City	SEATTLE

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID # (tank name registered with Ecology)	429	430	425	
2. Date installed	1990	1990	1990	
3. Tank capacity in gallons	10000	10000	10000	
4. Last substance stored	REG	MID	PRE	
5. Number of tank compartments	1	1	1	
6. Tank type: (S) single wall; (D) double wall; (p) partitioned	D	D	D	
7. Is overfill device present? (Yes/No)	Y	Y	Y	
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	S	S	S	
2. Pump type: (T) turbine; (S) suction	S	S	S	
3. (a) 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)				
(b) If suction, check valve located at? (T) Tank (P) Pump	P	P	P	
4. The numerical line test results are: (in gallons per hour)	NA	NA	NA	
5. Line tightness test results? (Pass/fail)	P	P	P	

* Inconclusive test results for tanks or piping will not be considered as a valid tightness test for the purpose 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 procedure, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

1-8-02 [Signature] STEVE MATTHEW
 Date Signature of Certified Supervisor Printed Name

 Date Signature of Tank Owner or Authorized Representative Printed Name

UNDERGROUND STORAGE TANK COMPLIANCE CHECKLIST

PROP NO 01-284
 NAME/BRAID Shell
 ADDRESS 12807 Des Moines Dr SW
 CITY, STATE, ZIP Seattle WA 98168

License Supv / Tester STEVE MATTHEW

Lic. No. / Exp 1036154-27/28

Office Space

DW



TANK TEST



LINE/LEAK DETECTOR TEST

Tank +/- +/- .050 GPH
 Turbine - Yearly
 Suction - Tank Top Every 3 Years
 Dispenser Every 5 Years

Regular
 Midgrade
 Premium
 Diesel
 Other

Results

Tank	Line	Pass/Fail	Date
<u>DW</u>	<u>SS</u>	<u>PASS</u>	<u>1-8-07</u>
<u>1</u>	<u>1</u>	<u>1</u>	



AUTOGAUGE

VeederRoot Checklist

System

Pass/Fail

Date

Yearly

YN

TAS 250i

PASS

1-8-07



CATHODIC PROTECTION

3 Year Testing Criteria
 Monthly Inspection -850MV

Soil to Structure

Regular
 Midgrade
 Premium
 Diesel
 Other

Date

Pass/Fail

Repairs/Comments



METER PROVING

Adjusted



SITE INSPECTION

1-8-07

Yearly

YN

Yearly

Repairs/Comments



STAGE I / STAGE II Testing/Inspection

WA/OR Vacuum Assist - Yearly/Daily
 Balance - N/A /Daily

System OK Pass / Fail

No. of Nozzles

No. of Tanks

4

3

System Type Healy / 2pt

Repairs/Comments

01-284 Shell
 12807 Des Moines DR SW
 Seattle WA 98116



Srove Matthew
 DATE: 1-8-07

TLS-250i SYSTEM PERIODIC MAINTENANCE CHECKLIST

Maintenance Operation	When To Perform	What To Do	✓
TLS-250i Console 7941XX-XXX	Yearly	1. Check printer for paper if equipped. 2. Run system diagnostic check. 3. Print out or check TLS inventory and verify to actual inventory. 4. Print out or check TLS setup values. 5. Verify battery backup is working. See Note 1.	
Cap "O" Probe 7842XX-XXX Cap "I" Probe 8472XX-XXX	Yearly	1. Run diagnostic check on probes and verify there are no open or shorted segments. 2. Inspect probe cables for any cracking or swelling and replace as necessary.	
Mag Probe 8473XX-XXX	Yearly	1. Inspect probe cables for any cracking or swelling and replace as necessary. 2. Inspect floats and probe shaft for any residue build up. Clean with mineral spirits as necessary.	
Piping Sump Sensor 794390-205	Yearly	1. Inspect sensors to verify float moves freely.	

* Mag Probes used in products such as waste oil should be checked more frequently than yearly since products of this type can leave deposits on the probe shaft and float assemblies which may restrict the measurement capability of the probe.

Note 1: Before verifying that the battery backup is working, print out or record all setup values.

Srove Matthew

VEEDER-ROOT
 Environmental Products



A.T.G. ANNUAL REPORTS

01-284 Shell

12807 Des Moines Dr SW

Seattle WA 98168

SM 9/11/02 1-8-02

VEEDER-ROCT
TLS-250
TANK LEVEL SENSOR

VEEDER-ROCT
TLS-250
TANK LEVEL SENSOR

JAN 8, 2007
11:05 AM

SENSOR STATUS

INVENTORY REPORT
JAN 8, 2007
9:35 AM

SENSOR 1A NORMAL
SENSOR 1B NORMAL
SENSOR 2A NORMAL
SENSOR 2B NORMAL
SENSOR 3A NORMAL
SENSOR 3B NORMAL

TANK 1
PRODUCT 1
6694 GALLONS FUEL
3306 GALS ULLAGE
60.93 INCHES FUEL
0.0 INCHES WATER
51.2 DEGREES F

--- SENSOR ALARM ---
SENSOR 2A
FUEL DETECT

JAN 8, 2007
9:45 AM

TANK 2
PRODUCT 2
6345 GALLONS FUEL
3655 GALS ULLAGE
58.22 INCHES FUEL
0.0 INCHES WATER
49.6 DEGREES F

--- SENSOR ALARM ---
SENSOR 1A
FUEL DETECT

JAN 8, 2007
10:11 AM

TANK 3
PRODUCT 3
4804 GALLONS FUEL
5196 GALS ULLAGE
46.52 INCHES FUEL
1.3 INCHES WATER
50.7 DEGREES F

--- SENSOR ALARM ---
SENSOR 3A
FUEL DETECT

JAN 8, 2007
10:25 AM

TIME OIL CO.

ANNUAL INTERSTITIAL SPACE AND SUMP MONITOR INSPECTION

Pro-p. No. DE-284

Address 12507 Des Moines DR SE, Seattle WA

Date 9/16/08

1-8-07

INT

Sump

YES	NO	N/A
-----	----	-----

Is interstitial monitor at the low end of tank?

✓ — —

Is any liquid present at time of inspection?

— ✓ —

If so, how many inches?

1. Petroleum 0

2. Water 0

Sump have H₂O in them out

Was cap on riser tight upon arrival?

— ✓ —

Were any damaged wires or fittings found?

— ✓ —

What type of sensor is being used?

1. Bell ✓

2. Whip —

Was sensor physically activated?

✓ — —

Did sensor alarm at console signal a release?

— — —

Did all sensors:

1. Work according to manufacturers specifications?

✓ — —

2. Meet test criteria for petroleum and water?

✓ — —

If malfunction exists, was condition corrected or reported?

— — ✓

Describe malfunction:

—

Was alarm condition reset after test?

✓ — —

Were sensor contacts cleaned prior to re-installing?

✓ — —

Was cap on riser replaced tight?

✓ — —

Inspector's Signature

[Signature]

TIME OIL CO.
MAINTENANCE REPORT FOR

31 STEVE MATTHEW

LOCATION:	STATION #	01-284	DATE REPORTED
	CITY	Seattle	DATE COMPLETED
			1-807

DESCRIPTION OF WORK PERFORMED:

Am Testing

DESCRIPTION OF MATERIALS USED:

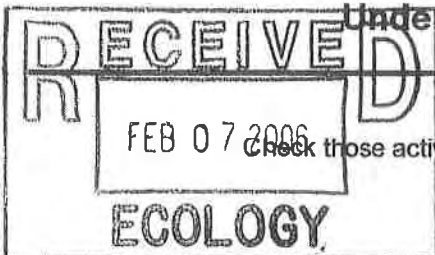
QUANTITY	DESCRIPTION	PRICE	AMOUNT
2	paint	3 ⁰⁰	6 ⁰⁰
H ₂ O	Removal (5 gal)		7 ⁰⁰

TOTAL 13⁰⁰

TOTAL HOURS WORKED: 9



WASHINGTON STATE
DEPARTMENT OF
ECOLOGY



Underground Storage tanks

NWRO-KING
4050

FS# 45191292

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: _____ Site ID Number: 004050
(UBI # from Master Business License) (Available from Ecology if tank is Registered)

Site/Business Name: 01-284 SHELL

Site Address: 12807 Des Moines Way KING
Street County

Telephone: Seattle, WA 98168
City State Zip+4(required)

UST Owner/Operator: TIME OIL CO.

Mailing Address: 2737 W. COMMODORE WAY KING
Street County

SEATTLE, WA. 98199-1233
City State Zip+4(required)

Telephone: 206-285-2400

2. FIRM PERFORMING WORK

Service company: TIME OIL CO.

Service Co. Address: 2737 W. COMMODORE WAY
Street

SEATTLE, WA. 98199-1233
City State Zip+4(required)

Certified Supervisor: STEVE MATTHEW (UST SPECIALIST)

Address: 2737 W. COMMODORE WAY
Street

SEATTLE WA. 98199-1233
City State Zip+4(required)

IFIC Certification Number: 1036154-25 (INST.) 27(TEST) Certification Issue Date (Month/Year): FEB 2005
26 (DEC.) 28(CP)

Telephone: 206-285-2400

Ecology is an equal opportunity and affirmative action employer

For special accommodation needs, please contact the Underground Storage Tanks Section At (360) 497-2479

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FEB 13 2006

DEPT OF ECOLOGY

4050

Underground Storage tanks

Tightness Testing Checklist

Site ID # 004050

Site Address

12807 DES MOINES WAY

City SEATTLE

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD

Date of Test: 1-10-06

1. Tightness testing method(s) used (indicate if more than one method was used):

Test method name/version UST 2000P PETRO-TITE
Test method manufacturer USTEST HEATH

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): WELL OTHER

3. Method used for release detection:

☐ Weekly manual gauging
☒ Daily manual inventory control
☐ Automatic tank gauging
☒ 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)

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.

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 alarms of no more than 5%).
2. Have all written testing procedures developed by the manufacturer of the testing equipment and methods 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? (require 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 with 24 hours to UST staff at the appropriate Ecology regional office.)

Yes No NA*

☒ ☐ ☐☒ ☐ ☐☒ ☐ ☐☐ ☐ ☒

*Item not applicable

Site ID #	004050
Site Address	12807 DES MOINES WAY
City	SEATTLE

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID # (tank name registered with Ecology)	429	430	425	
2. Date installed	1990	1990	1990	
3. Tank capacity in gallons	10000	10000	10000	
4. Last substance stored	REG	MID	PRE	
5. Number of tank compartments	1	1	1	
6. Tank type: (S) single wall; (D) double wall; (p) partitioned	D	D	D	
7. Is overfill device present? (Yes/No)	Y	Y	Y	
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 tan 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	S	S	S	
2. Pump type: (T) turbine; (S) suction	S	S	S	
3. (a) 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) (b) If suction, check valve located at? (T) Tank (P) Pump	P	P	P	
4. The numerical line test results are: (in gallons per hour)	NA	NA	NA	
5. Line tightness test results? (Pass/fail)	P	P	P	

* Inconclusive test results for tanks or piping will not be considered as a valid tightness test for the purpose 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 procedure, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

1-10-06  STEVE MATTHEW
Date Signature of Certified Supervisor Printed Name

Date Signature of Tank Owner or Authorized Representative Printed Name

UNDERGROUND STORAGE TANK COMPLIANCE CHECKLIST

PROP NO. 01-284
 NAME/BRAND Shell
 ADDRESS 12807 Des Moines Way
 CITY, STATE, ZIP Seattle WA 98168

License Supv./Tester STEVE MATTHEW

Lic. No./ Exp 1036154-27/28

Office Space



TANK TEST

Results

Tank

Line

Pass/Fail

Date



LINE/LEAK DETECTOR TEST

Tank +/- +/- .050 GPH

Turbine - Yearly

Suction - Tank Top Every 3 Years

Dispenser Every 5 Years

Regular

Midgrade

Premium

Diesel

Other

S. Suction

1-10-06



AUTOGAUGE

VeederRoot Checklist

System

Pass/Fail

Date

Yearly

Y/N

THS 250 i
plus

Pass

1-10-06



CATHODIC PROTECTION

Soil to Structure

Regular

Midgrade

Premium

Diesel

Other

Date

3 Year Testing

Criteria

Monthly Inspection -850MV

Pass/Fail

Repairs/Comments

Glas Clad



METER PROVING

Adjusted

1-10-06



SITE INSPECTION

1-10-06

Yearly

Y/N

Yearly

Repairs/Comments



STAGE I / STAGE II Testing/Inspection

WA/OR Vacuum Assist - Yearly/Daily

Balance -

N/A /Daily

System

Pass / Fail

No. of Nozzles

No. of Tanks

System Type

2pt w/ turbine / Healy

4

3

Repairs/Comments

01-29-94 Shield

Steve Matthews



12507 Des Moines Way

DATE: 1-10-06

Seattle WA 98168

TLS-250i SYSTEM PERIODIC MAINTENANCE CHECKLIST (plus)

Maintenance Operation	When To Perform	What To Do	✓
TLS-250i Console 7941XX-XXX	Yearly	1. Check printer for paper if equipped. 2. Run system diagnostic check. 3. Print out or check TLS inventory and verify to actual inventory. 4. Print out or check TLS setup values. 5. Verify battery backup is working. See Note 1.	[initials] [initials] [initials] [initials] [initials]
Cap "O" Probe 7842XX-XXX Cap "I" Probe 8472XX-XXX	Yearly	1. Run diagnostic check on probes and verify there are no open or shorted segments. 2. Inspect probe cables for any cracking or swelling and replace as necessary.	[initials] [initials]
Mag Probe 8473XX-XXX	Yearly	1. Inspect probe cables for any cracking or swelling and replace as necessary. 2. Inspect floats and probe shaft for any residue build up. Clean with mineral spirits as necessary.	
Piping Sump Sensor 794390-205	Yearly	1. Inspect sensors to verify float moves freely.	[initials]

* Mag Probes used in products such as waste oil should be checked more frequently than yearly since products of this type can leave deposits on the probe shaft and float assemblies which may restrict the measurement capability of the probe.

Note 1: Before verifying that the battery backup is working, print out or record all setup values.

DATE: 1-10-06

[Signature]

VEEDER-ROOT
Environmental Products



TIME OIL CO.

ANNUAL INTERSTITIAL SPACE AND SUMP MONITOR INSPECTION

Prop. No. 01-284 Address 12807 De Mow Way South Date 1-10-06

INT Beth SUMP

YES	NO	N/A
-----	----	-----

Is interstitial monitor at the low end of tank?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

Is any liquid present at time of inspection?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

If so, how many inches?

2"

1. Petroleum

2. Water

in sump (R)

Was cap on riser tight upon arrival?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

Were any damaged wires or fittings found?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

What type of sensor is being used?

1. Bell

2. Whip

Whip

Was sensor physically activated?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

Did sensor alarm at console signal a release?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

Did all sensors:

1. Work according to manufacturers specifications?

2. Meet test criteria for petroleum and water?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If malfunction exists, was condition corrected or reported?

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	--------------------------	-------------------------------------

Describe malfunction:

Was alarm condition reset after test?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

Were sensor contacts cleaned prior to re-installing?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

Was cap on riser replaced tight?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

ATT. print outs

Inspector's Signature

[Signature]

01-204 1-18-06 (SM)

--- SENSOR ALARM ---
SENSOR 3A
FUEL DETECT

JAN 10, 2006
9:48 AM

VEEDER-ROOT
TLS-250
TANK LEVEL SENSOR

INVENTORY REPORT
JAN 10, 2006
10:01 AM

--- SENSOR ALARM ---
SENSOR 2B
FUEL DETECT

JAN 10, 2006
10:04 AM

--- SENSOR ALARM ---
SENSOR 1A
FUEL DETECT

JAN 10, 2006
9:49 AM

TANK 1
PRODUCT 1
6907 GALLONS FUEL
3093 GALS ULLAGE
62.61 INCHES FUEL
0.0 INCHES WATER
52.9 DEGREES F

--- SENSOR ALARM ---
SENSOR 1B
FUEL DETECT

JAN 10, 2006
10:10 AM

--- SENSOR ALARM ---
SENSOR 2A
FUEL DETECT

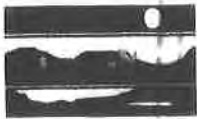
JAN 10, 2006
9:49 AM

TANK 2
PRODUCT 2
4167 GALLONS FUEL
5833 GALS ULLAGE
41.70 INCHES FUEL
0.0 INCHES WATER
50.7 DEGREES F

--- SENSOR ALARM ---
SENSOR 3B
FUEL DETECT

JAN 10, 2006
10:10 AM

TANK 3
PRODUCT 3
5747 GALLONS FUEL
4253 GALS ULLAGE
53.65 INCHES FUEL
0.0 INCHES WATER
52.4 DEGREES F



WASHINGTON STATE
DEPARTMENT OF
ECOLOGY

Underground Storage tank...

NW-KIRIG
4050
FS# 45191292

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: _____ Site ID Number: 004050
(UBI # from Master Business License) (Available from Ecology if tank is Registered)

Site/Business Name: 01-284 Shell Food Mart

Site Address: 12807 Des Moines Way King
Street County
Seattle WA 98186
City State Zip+4(required)

Telephone: (206) 285-2400

UST Owner/Operator: TIME OIL CO.

Mailing Address: 2737 W. COMMODORE WAY KING
Street County
SEATTLE WA 98199-1257
City State Zip+4(required)

Telephone: 206-286-6450

2. FIRM PERFORMING WORK

Service company: TIME OIL CO.

Service Co. Address: 2737 W. COMMODORE WAY
Street
SEATTLE WA 98199-1257
City State Zip+4(required)

Certified Supervisor: STEVE MATTHEW

Address: 2737 W. COMMODORE WAY
Street
SEATTLE WA 98199-1257
City State Zip+4(required)

IFIC Certification Number: 1036154-25 (INS) 27 (TEST Certification Issue Date (Month/Year): Jan 2005
1036154-26 (DEC) 28 (CP)

Telephone: (206) 285-2400

RECEIVED

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)

JAN 01 2005

DEPT OF ECOLOGY

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 cover sheet 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 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, 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 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.

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.

Northwest
(206) 649-7000

Southwest
(360) 407-6300

Central
(509) 574-2490

Eastern
(509) 456-2926

Underground Storage tanks

Tightness Testing Checklist

Site ID # 004050

Site Address

12807 Des Moines Way

City Seattle

For more than four UST systems, you may photocopy this form prior to completing.

I. TIGHTNESS TESTING METHOD

Date of Test: 01-27-05

1. Tightness testing method(s) used (indicate if more than one method was used):

Test method name/version UST 2000 P/U
Test method manufacturer USTESTPETRO TITE
HEATH CONS.

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): WELL POINT OR MONITORING WELL

3. Method used for release detection:

☐ Weekly manual gauging
☐ Daily manual inventory control
☐ Automatic tank gauging
☒ Interstitial monitoring
☐ Other (describe) STE D-WALL

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)

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.

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 alarms of no more than 5%).
2. Have all written testing procedures developed by the manufacturer of the testing equipment and methods 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? (require 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 with 24 hours to UST staff at the appropriate Ecology regional office.)

Yes No NA*

☒ ☐ ☐

☒ ☐ ☐

☒ ☐ ☐

☐ ☐ ☒

*Item not applicable

Site ID #	004050
Site Address	12807 Des Moines Way
City	Seattle

Tightness Testing Checklist (continued)

III. TANK INFORMATION CHECKLIST

	r	m	p	
	Tank 1	Tank 2	Tank 3	Tank 4
1. Tank ID # (tank name registered with Ecology)	429	430	425	
2. Date installed	1990	1990	1990	
3. Tank capacity in gallons	10 K	10 K	10 k	
4. Last substance stored	REG	MID	PRE	
5. Number of tank compartments	1	1	1	
6. Tank type: (S) single wall; (D) double wall; (p) partitioned	D	D	D	
7. Is overfill device present? (Yes/No)	Y	Y	Y	
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 tan 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	S	S	S	
2. Pump type: (T) turbine; (S) suction	S	S	S	
3. (a) 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)				
(b) If suction, check valve located at? (T) Tank (P) Pump	T	T	T	
4. The numerical line test results are: (in gallons per hour)	-.004/- .006	-.001/- .006	-.002/- .004	
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 purpose 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 procedure, pertaining to underground storage tanks.

Persons submitting false information are subject to formal enforcement and/or penalties under Chapter 173.360 WAC.

1-27-05
Date
Signature of Certified Supervisor
STEVE MATTHEW
Printed Name

Date
Signature of Tank Owner or Authorized Representative

Printed Name

01-284
Shell / Food Mart
12807 Des Moines Way
Seattle WA 98168



Steve Matthew
DATE: 1-27-05

TLS-250i SYSTEM PERIODIC MAINTENANCE CHECKLIST

Maintenance Operation	When To Perform	What To Do	✓
TLS-250i Console 7941XX-XXX	Yearly	1. Check printer for paper if equipped. 2. Run system diagnostic check. 3. Print out or check TLS inventory and verify to actual inventory. 4. Print out or check TLS setup values. 5. Verify battery backup is working. See Note 1.	SM SM SM SM SM
Cap "O" Probe 7842XX-XXX Cap "I" Probe 8472XX-XXX	Yearly	1. Run diagnostic check on probes and verify there are no open or shorted segments. 2. Inspect probe cables for any cracking or swelling and replace as necessary.	
Mag Probe 8473XX-XXX	Yearly	1. Inspect probe cables for any cracking or swelling and replace as necessary. 2. Inspect floats and probe shaft for any residue build up. Clean with mineral spirits as necessary.	SM SM
Piping Sump Sensor 794390-205 INT	Yearly	1. Inspect sensors to verify float moves freely.	SM

* Mag Probes used in products such as waste oil should be checked more frequently than yearly since products of this type can leave deposits on the probe shaft and float assemblies which may restrict the measurement capability of the probe.

Note 1: Before verifying that the battery backup is working, print out or record all setup values.

DATE: 1-27-05

VEEDER-ROOT
Environmental Products



125 Powder Forest Drive, Post Office Box 2003, Simsbury, CT 06070-2003 TEL: (203) 651-2700, FAX: (203) 651-2750

AUSTRALIA: Cheltenham, Victoria - BRAZIL: Sao Paulo - CANADA: Etobicoke - SCOTLAND: Dundee - WEST GERMANY: Neuhausen/Völder

TIME OIL CO.

ANNUAL INTERSTITIAL SPACE AND SUMP MONITOR INSPECTION

Prop. No. 01-284 Address 12807 Des Moines Way W Seattle ⁹⁸¹⁴⁸ Date 1-27-05

Sump and INT

YES	NO	N/A
-----	----	-----

Is interstitial monitor at the low end of tank?

✓

Is any liquid present at time of inspection?

 ✓

If so, how many inches?

0

1. Petroleum 0

2. Water 0

Was cap on riser tight upon arrival?

✓

Were any damaged wires or fittings found?

 ✓

What type of sensor is being used?

1. Bell ✓

2. Whip

Was sensor physically activated?

✓

Did sensor alarm at console signal a release?

✓

Did all sensors:

1. Work according to manufacturers specifications?

✓

2. Meet test criteria for petroleum and water?

✓

If malfunction exists, was condition corrected or reported?

 ✓

Describe malfunction:

Was alarm condition reset after test?

✓

Were sensor contacts cleaned prior to re-installing?

✓

Was cap on riser replaced tight?

✓

Inspector's Signature

SM [Signature]

UNDERGROUND STORAGE TANK COMPLIANCE CHECKLIST

DOE

NO. 01-284
 E/BRAND Shell / Food Mart
 ADDRESS 12807 Des Moines Way
 , STATE, ZIP Seattle WA 98168

License Supv./Tester STEVE MATTHEW

Lic. No./ Exp 1036154-27/28

Office Space

TANK TEST

LINE/LEAK DETECTOR TEST

Tank +/- +/- .050 GPH
 Turbine - Yearly
 Suction - Tank Top Every 3 Years
 Dispenser Every 5 Years

Tank	Results		Pass/Fail	Date
	Line			
Regular	-004 / -004		PASS	1-27-05
Midgrade	-001 / -001		PASS	
Premium	-002 / -004		PASS	
Diesel				
Other				

AUTOGAUGE

VeederRoot Checklist

System

Pass/Fail

Date

Yearly

Y/N

THS 250i

PASS

1-27-05

CATHODIC PROTECTION

3 Year Testing Criteria
 Monthly Inspection -850MV

Soil to Structure	
Regular	
Midgrade	
Premium	
Diesel	
Other	

Date

Pass/Fail

Repairs/Comments

METER PROVING

Adjusted

SITE INSPECTION

1-27-05

Yearly

Yearly

Repairs/Comments

STAGE I / STAGE II Testing / Inspection

WA/OR Vacuum Assist - Yearly/Daily
 Balance - N/A /Daily

System

OK
 Pass / Fail

No. of Nozzles

No. of Tanks

4

3

System Type VAC / 2pt

Repairs/Comments

TIME OIL CO. PETRO TITE LINE TEST SUCTION PRODUCT LINE TEST

P 1 of 2

PROP. #: 01-284 DATE: 1-27-05
 LOCATION: 12807 Des Moines Way, Seattle WA 98186
 TESTER: STEVE MATTHEW SM/94H CERTIFICATION #: 1036154-27

TRY LINE TESTED	TIME (MILITARY)	LOG OF TEST PROCEDURES, AMBIENT TEMPERATURE WEATHER, ETC.	psi OR kPa		VOLUME BURETTE READING		NET CHANGES	TEST RESULTS CONCLUSIONS, REPAIRS AND COMMENTS
			BEFORE	AFTER	BEFORE	AFTER		
4 2 3 1 0	1330	CHARGE LINE TO						LINE TEST TOL + .025 (Suction) BLEED BACK TOL + .050 <input checked="" type="checkbox"/> SUCTION LINE TIGHT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO -1.006 G.P.H.
		RECHARGE TO						
	1415	START TEST	13	15	.025	.024	-001	
	30	TEST CONTINUED	015	15		.024	+000	
	45	TEST CONTINUED	10	15		.021	-003	
	1500	TEST CONTINUED	10	15		.019	-002	
		BLEED BACK			.019	.056	+037	
4 1 1 0	1345	CHARGE LINE TO						LINE TEST TOL + .025 (Suction) BLEED BACK TOL + .050 <input checked="" type="checkbox"/> SUCTION LINE TIGHT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO -1.006 G.P.H.
		RECHARGE TO						
	1430	START TEST	11	15	.024	.020	-004	
	45	TEST CONTINUED	13	15		.018	-002	
	1500	TEST CONTINUED	15	15		.018	+000	
	15	TEST CONTINUED	15	15		.018	+000	
		BLEED BACK			.018	.062	+044	
3-4 P r e	1445	CHARGE LINE TO						LINE TEST TOL + .025 (Suction) BLEED BACK TOL + .050 <input checked="" type="checkbox"/> SUCTION LINE TIGHT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO -1.004 G.P.H.
		RECHARGE TO						
	1530	START TEST	13	15	.030	.034	-002	
	45	TEST CONTINUED	15	15		.034	+000	
	1600	TEST CONTINUED	12	15		.032	-002	
	15	TEST CONTINUED	15	15		.032	+000	
		BLEED BACK			.032	.056	+024	
		CHARGE LINE TO						LINE TEST TOL + .025 (Suction) BLEED BACK TOL + .050 <input type="checkbox"/> SUCTION LINE TIGHT <input type="checkbox"/> YES <input type="checkbox"/> NO G.P.H.
		RECHARGE TO						
		START TEST						
		TEST CONTINUED						
		TEST CONTINUED						
		TEST CONTINUED						
		BLEED BACK						

TIME OIL CO. PETRO TITE LINE TEST SUCTION PRODUCT LINE TEST

P 2082

PROP. #: 01-284 DATE: 1-27-05
 LOCATION: 17807 Des Moines Way, Seattle WA 98168
 TESTER: STEVE MATTHEW *smatthew* CERTIFICATION #: 1036154-27

IFY LINE NO ED	TIME (MILITARY)	LOG OF TEST PROCEDURES, AMBIENT TEMPERATURE WEATHER, ETC.	psi OR kPa		VOLUME		NET CHANGES	TEST RESULTS CONCLUSIONS, REPAIRS AND COMMENTS
			BEFORE	AFTER	BURETTE READING			
					BEFORE	AFTER		
2 3 6 1 D	0930	CHARGE LINE TO						LINE TEST TOL + .025 (Suction) BLEED BACK TOL + .050 <input checked="" type="checkbox"/> SUCTION LINE TIGHT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - .004 G.P.H.
		RECHARGE TO						
	1045	START TEST	7	10	.036	.034	-002	
	1100	TEST CONTINUED	10	10		.034	+000	
	15	TEST CONTINUED	8	10		.032	-002	
	30	TEST CONTINUED	10	10		.032	+000	
		BLEED BACK			.032	.076	-044	
2 1 D	1330	CHARGE LINE TO						<input checked="" type="checkbox"/> SUCTION LINE TIGHT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - .001 G.P.H.
		RECHARGE TO						
	1415	START TEST	10	10	.019	.019	+000	
	30	TEST CONTINUED	10	10		.019	+000	
	45	TEST CONTINUED	8	10		.018	-001	
	1500	TEST CONTINUED	10	10		.018	+000	
		BLEED BACK			.018	.059	-041	
2 P r e	1245	CHARGE LINE TO						<input checked="" type="checkbox"/> SUCTION LINE TIGHT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - .002 G.P.H.
		RECHARGE TO						
	1415	START TEST	7	10	.044	.043	-001	
	30	TEST CONTINUED	7	10		.042	-001	
	45	TEST CONTINUED	10	10		.042	+000	
	1500	TEST CONTINUED	10	10		.042	+000	
		BLEED BACK			.042	.076	-034	
		CHARGE LINE TO						<input type="checkbox"/> SUCTION LINE TIGHT <input type="checkbox"/> YES <input type="checkbox"/> NO G.P.H.
		RECHARGE TO						
		START TEST						
		TEST CONTINUED						
		TEST CONTINUED						
		TEST CONTINUED						
		BLEED BACK						



UNDERGROUND STORAGE TANK Tightness Testing Checklist

The purpose of this form is to certify the proper tightness testing of underground storage tank (UST) systems including connected 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.

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 photocopying page 2 and 3 of this form and completing these pages separately for each UST 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

For further information about completing this form, please contact the Department of Ecology UST Section.

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.

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator: Time Oil Co.

Owners Address: 2737 W. Commodore Way P.O. Box 24447, Terminal Station
Street P.O. Box
Seattle WA 98124-2447
City State Zip+4 (required)

Telephone: (206) 285-2400

Site ID Number (on invoice or available from Ecology if tank is registered): 604050

Site/Business Name: 01-284 Jackpot / Shell

Site Address: 12807 Des Moines Way S. King
Street County
Seattle WA 98125
City State Zip+4 (required)

2. TIGHTNESS TESTING PERFORMED BY:

Firm: Time Oil Co.

Service Provider License Number: S 000094

Address: 2737 W. Commodore Way P.O. Box 24447, Terminal Station
Street P.O. Box
Seattle WA 98124-2447
City State Zip+4 (required)

Telephone: (206) 285-2400

Licensed Supervisor: STEVE MATTHEW

Supervisor License Number: 1036151-27

3. TANK AND TESTING INFORMATION

8. Reason for conducting tightness tests:

☒ Other (describe)

- X** Total system test (tank and lines tested together)

Nonvolumetric

- Test method manufacturer USTest

37. $39\% P / 61\% U = 100\%$

13. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (for single wall tanks): well

4. CHECKLIST

Yes No NA*

- Note: A copy of Ecology's policy for demonstrating that leak detection methods meet performance standards may be obtained by contacting Ecology's UST section in Olympia.*

6

	Yes	No	NA*
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?	SM		
3. Was the product level in the tank during the test within the limitations stated in the evaluation results used to demonstrate that the tightness test method meets performance standards?	SM		
4. Was the waiting period between the addition of product to the tank and the beginning of the test at or above the minimum waiting period stated in the evaluation results?	SM		
5. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (for single wall tanks)	SM		
6. Have any loose fittings at the top of the tank been either tightened prior to beginning the test or accounted for when conducting the test and evaluating test results: (Applies to overfill methods only) Exception: Interstitial space fitting on double wall tank should remain loose during test for interstitial space to vent to atmosphere.	SM		
7. Have all vapor pockets either been removed prior to beginning the test or otherwise accounted for when conducting the test and evaluating test results?	SM		
8. Based on evaluating test results and conducting any retesting as necessary to obtain conclusive test results, the tightness test is: <div style="text-align: center;"> <input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed </div> Note: Inconclusive test results will not be considered as a valid tightness test for purpose of complying with UST release detection regulations.			
9. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? Note: 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 of being notified by the testing firm that a failed tightness test has occurred.			SM
10. If a failed test has occurred, results indicate that there is a leak in the: <input type="checkbox"/> Tank <input type="checkbox"/> Piping System If known, the leak rate is: _____ gallons per hour			

*Item not applicable

I hereby certify that I have been the licensed supervisor present 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.

2-27-97 SM
 Date Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES


3/10/97 J. Michael Paisley
 Date Signature of Licensed Service Provider firm (owner or person with signature authority)

3/10/97 J. Michael Paisley
 Date Signature of Tank Owner or Authorized Representative

3. TANK AND TESTING INFORMATION

13. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (for single wall tanks): *Well*

4. CHECKLIST

Yes	No	NA*
 X		

Yes No NA*

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?	SM		
3. Was the product level in the tank during the test within the limitations started in the evaluation results used to demonstrate that the tightness test method meets performance standards?	SM		
4. Was the waiting period between the addition of product to the tank and the beginning of the test at or above the minimum waiting period stated in the evaluation results?	SM		
5. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (for single wall tanks)	SM		
6. Have any loose fittings at the top of the tank been either tightened prior to beginning the test or accounted for when conducting the test and evaluating test results: (Applies to overfill methods only) Exception: Interstitial space fitting on double wall tank should remain loose during test for interstitial space to vent to atmosphere.	SM		
7. Have all vapor pockets either been removed prior to beginning the test or otherwise accounted for when conducting the test and evaluating test results?	SM		
8. Based on evaluating test results and conducting any retesting as necessary to obtain conclusive test results, the tightness test is: <div style="text-align: center;"> <input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed </div> Note: Inconclusive test results will not be considered as a valid tightness test for purpose of complying with UST release detection regulations.			
9. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? Note: 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 of being notified by the testing firm that a failed tightness test has occurred.			SM
10. If a failed test has occurred, results indicate that there is a leak in the: <input type="checkbox"/> Tank <input type="checkbox"/> Piping System If known, the leak rate is: _____ gallons per hour			

*Item not applicable

I hereby certify that I have been the licensed supervisor present 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.

2-27-97
Date

SM Mathew
Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

3/10/97
Date

J. Michael P. Riley
Signature of Licensed Service Provider (firm (owner or person with signature authority))

3/10/97
Date

J. Michael P. Riley
Signature of Tank Owner or Authorized Representative

3. TANK AND TESTING INFORMATION

8. Reason for conducting tightness tests:

~~X~~ Other (describe) _____

11. Tightness testing method(s) used (indicate if more than one method was used - see note following item 12):

Test method manufacturer	USTest
--------------------------	--------

- 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% fill 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.

13. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (for single wall tanks): *well*

4. CHECKLIST

Yes No NA*

- Note: A copy of Ecology's policy for demonstrating that leak detection methods meet performance standards may be obtained by contacting Ecology's UST section in Olympia.*

Yes No NA*

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?	Yes	No	NA*
3. Was the product level in the tank during the test within the limitations started in the evaluation results used to demonstrate that the tightness test method meets performance standards?	Yes	No	NA*
4. Was the waiting period between the addition of product to the tank and the beginning of the test at or above the minimum waiting period stated in the evaluation results?	Yes	No	NA*
5. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (for single wall tanks)	Yes	No	NA*
6. Have any loose fittings at the top of the tank been either tightened prior to beginning the test or accounted for when conducting the test and evaluating test results: (Applies to overfill methods only) Exception: Interstitial space fitting on double wall tank should remain loose during test for interstitial space to vent to atmosphere.	Yes	No	NA*
7. Have all vapor pockets either been removed prior to beginning the test or otherwise accounted for when conducting the test and evaluating test results?	Yes	No	NA*
8. Based on evaluating test results and conducting any retesting as necessary to obtain conclusive test results, the tightness test is: <u> X </u> Passed <u> </u> Failed Note: Inconclusive test results will not be considered as a valid tightness test for purpose of complying with UST release detection regulations.			
9. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? Note: 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 of being notified by the testing firm that a failed tightness test has occurred.			Yes
10. If a failed test has occurred, results indicate that there is a leak in the: <u> </u> Tank <u> </u> Piping System If known, the leak rate is: <u> </u> gallons per hour			

*Item not applicable

I hereby certify that I have been the licensed supervisor present 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.

2-27-97 [Signature]
Date Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

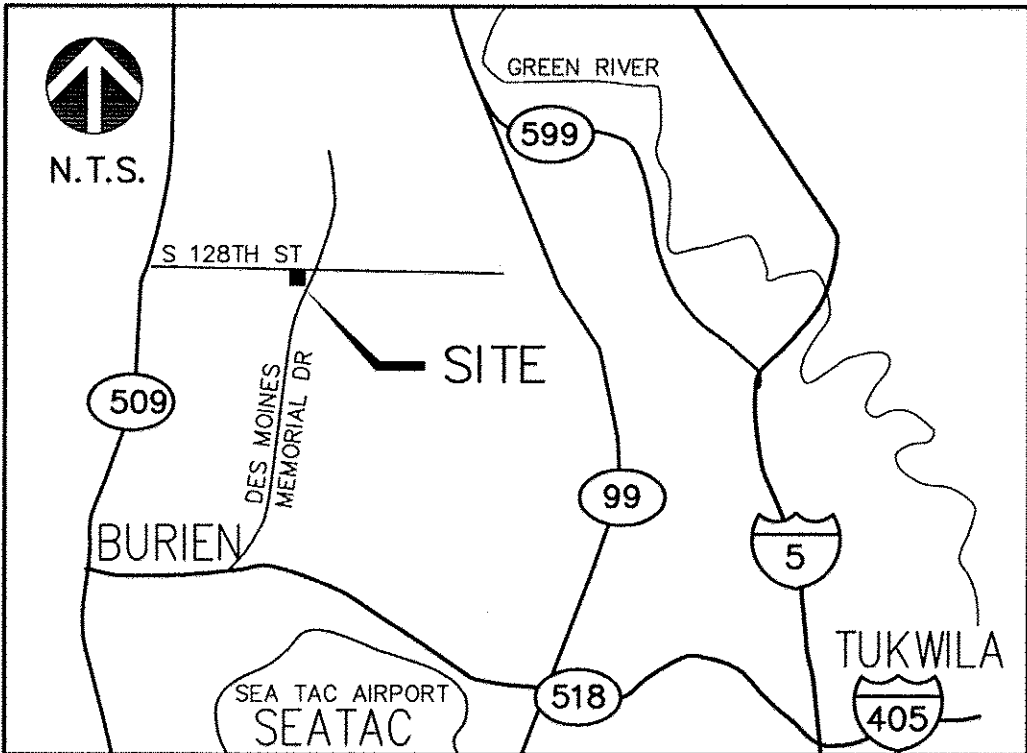
3/10/97 [Signature]
Date Signature of Licensed Service Provider firm (owner or person with signature authority)

3/10/97 [Signature]
Date Signature of Tank Owner or Authorized Representative

PORTION OF NW 1/4 OF NW 1/4, SEC. 16, TWP 23 N., RNG. 04 E., W.M.

CITY OF SEATTLE, KING COUNTY, WASHINGTON

VICINITY MAP



REFERENCES

- (C) CALCULATED
(M) MEASURED
(P) BOULEVARD PARK ADDITION TO THE CITY OF SEATTLE, AS FILED IN VOLUME 22, PAGE 64, UNDER AFN 1233266, RECORDS OF KING COUNTY, WASHINGTON

THE FOLLOWING IS A SUPPLEMENTAL LISTING OF MAPS AND/OR OTHER DOCUMENTS REVIEWED BY THE SURVEYOR DURING THE COURSE OF THIS SURVEY:

- KING COUNTY ASSESSOR MAPS OF NW 1/4 SECTION 16-23-04
- RECORD OF SURVEY, RECORDED IN VOLUME 46, PAGE 219
- RECORD OF SURVEY, RECORDED IN VOLUME 158, PAGE 108
- SHORT PLAT NO. SP98-01, CITY OF BURIED

LAND DESCRIPTION

PER LANDAMERICA TITLE REPORT, TITLE ORDER RT-10956450, DATED NOVEMBER 30, 2006.

THAT PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 16, TOWNSHIP 23 NORTH, RANGE 4 EAST, W.M., DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SAID SECTION 16; THENCE SOUTH 00°11'15" WEST, ALONG THE WEST LINE THEREOF, 50 FEET TO THE SOUTH MARGIN OF SOUTH 128TH STREET, AS WIDENED BY DEEDS RECORDED UNDER RECORDING NOS. 5876174, 5880927 AND 5934310; THENCE NORTH 89°23'21" EAST ALONG THE SOUTH MARGIN, AS NOW ESTABLISHED, 1.08 FEET TO AN ANGLE POINT THEREIN; THENCE NORTH 88°30'26" EAST, ALONG SAID SOUTH MARGIN AS NOW ESTABLISHED, 92.05 FEET TO THE TRUE POINT OF BEGINNING; THENCE SOUTH 00°00'23" WEST 89.98 FEET; THENCE SOUTH 70°23'34" EAST 100.55 FEET TO THE WESTERLY MARGIN OF DES MOINES WAY SOUTH, WHICH WAS WIDENED BY DEEDS RECORDED UNDER RECORDING NOS. 5876170, 5876171, AND 5880927; THENCE NORTH 19°34'26" EAST, ALONG SAID WESTERLY MARGIN AS NOW ESTABLISHED, 135.00 FEET TO THE SOUTH MARGIN OF SAID SOUTH 128TH STREET, AS NOW ESTABLISHED; THENCE SOUTH 88°30'26" WEST, ALONG SAID SOUTH MARGIN, 140.00 FEET TO THE TRUE POINT OF BEGINNING;

EXCEPT THAT PORTION DEEDED TO KING COUNTY UNDER RECORDING NO. 5876175;

SITUATE IN THE CITY OF BURIED, COUNTY OF KING, STATE OF WASHINGTON.

GENERAL NOTES

- 1) BASIS OF BEARING S 01°39'56" W ALONG THE WEST LINE OF SECTION 16 BETWEEN NW CORNER AND W 1/4 CORNER AS SHOWN HERE ON.
- 2) METHODOLOGY THE GROUND SURVEY PORTION OF THIS A.L.T.A. SURVEY WAS PERFORMED IN FEBRUARY, 2007 IN ACCORDANCE WITH THE "MINIMUM STANDARD DETAIL REQUIREMENTS FOR A.L.T.A. / ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY A.L.T.A., ACSM AND NSPS IN 2005.
- 3) PROPERTY CORNERS WERE STAKED IN CONJUNCTION WITH THIS SURVEY AS SHOWN HEREON.
- 4) UNDERGROUND UTILITIES SHOWN REPRESENT FIELD SURVEYED PAINT MARKS AS PLACED ON THE GROUND BY A UTILITY LOCATE SERVICE TOGETHER WITH AVAILABLE UTILITY AS-BUILT AND REFERENCE DRAWINGS. NO GUARANTEE IS MADE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED OR THAT THE UNDERGROUND UTILITIES ARE SHOWN IN THEIR EXACT LOCATION. THE UTILITIES ARE SHOWN AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION.
- 5) SUBSURFACE AND ENVIRONMENTAL SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.
- 6) 1-800-424-5555 MUST BE CALLED NOT LESS THAN 48 HOURS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. FAILURE TO DO SO COULD MEAN BEARING SUBSTANTIAL REPAIR COSTS. (UP TO THREE TIMES THE COST OF REPAIRS TO THE SERVICE). 6) SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.
- 7) IMPROVEMENTS SHOWN HEREON ARE LIMITED TO SURFACE OR ABOVE - GROUND FEATURES.

TITLE NOTES

- 1) LAND AMERICA COMMERCIAL SERVICES TITLE INSURANCE COMPANY TITLE ORDER NO. RT-10956450, DATED NOVEMBER 30, 2006, USED FOR LAND DESCRIPTION AND EASEMENTS OF RECORD. NO FURTHER SEARCH INTO THE RECORD WAS REQUESTED OR PERFORMED.
- THE FOLLOWING NOTES PERTAIN TO SCHEDULE "B", SPECIAL EXCEPTIONS, AS DISCLOSED WITHIN SAID REPORT.
- 2) PARAGRAPHS THROUGH 2 PERTAIN TO GENERAL PROPERTY TAXES NONE OF WHICH PERTAINS TO MATTERS DISCLOSED BY THIS SURVEY.
- 3) PARAGRAPH 3 SUBJECT TO SEWER CONNECTION CHARGES TO THE BENEFIT OF RAINIER VISTA SEWER DISTRICT RECORDED UNDER RECORDING NO. 8506190902.
- 4) PARAGRAPH 4 SUBJECT TO THE RIGHT TO MAKE NECESSARY SLOPE CUTS UPON THE PROPERTY DEEDED TO KING COUNTY UNDER RECORDING NOS. 5876174, 5876175, AND 5880927.
- 5) PARAGRAPH 5 SUBJECT TO COVENANTS, CONDITIONS, EASEMENTS AND RESTRICTIONS IN DOCUMENT RECORDED DECEMBER 13, 1965, RECORDING NO. 5964904.
- 6) PARAGRAPH 6 SUBJECT TO ENCUMBRANCES AND USE AGREEMENT IMPOSED BY INSTRUMENT RECORDED ON MAY 5, 1966, RECORDING NO. 6024725.
- 7) PARAGRAPH 7 PERTAINS TO LEASE HOLDERS RIGHT AND DOES NOT PERTAIN TO MATTER DISCLOSED BY THIS SURVEY.

LEGEND

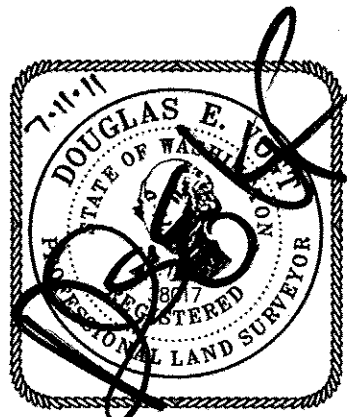
MONUMENT (FOUND AS NOTED)	ASPH	ASPHALT	SURVEY CENTER LINE
SIGN POST	BOH	BUILDING OVERHANG	FENCE LINE (TYPE AS NOTED)
BOLLARD (GUARD POST)	CLF	CHAIN LINK FENCE	EASEMENT LINE
GAS VALVE	CONC	CONCRETE	UNDERLYING PARCEL LINE
CATCH BASIN	CW	CONCRETE SIDEWALK	EXISTING RIGHT-OF-WAY LINE
ELECTRICAL JUNCTION BOX	DW	DRIVEWAY	NATURAL GAS
UTILITY POLE	EP	EDGE OF PAVEMENT	OVERHEAD UTILITY
GUY ANCHOR	PA	PLANTED AREA	UNDERGROUND POWER
WATER METER	RETW	RETAINING WALL	UNDERGROUND TELEPHONE
WATER VALVE	WDF	WOOD FENCE	DOMESTIC WATER
UNKNOWN UTILITY	CC	CURB CUT	VERTICAL CURB
SET 1/2" REBAR AND YELLOW PLASTIC CAP DEA "38962"			
SET BRASS TACK AND WASHER DEA "38962"			

CERTIFICATION

TO TIME OIL COMPANY AND LANDAMERICA COMMERCIAL SERVICES TITLE INSURANCE COMPANY:
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR A.L.T.A./ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY A.L.T.A. AND N.S.P.S. IN 2005, AND INCLUDES ITEMS 1, 2, 8, 10 AND 11(B) OF TABLE "A" THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY A.L.T.A. AND N.S.P.S. AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF WASHINGTON, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

DOUGLAS E. VOGT, L.S., 1000
7/11/11

DATE



AL.T.A./ ACSM LAND TITLE SURVEY
OF
12807 DES MOINES WAY S
FOR
TIME OIL CO.

DAVID EVANS
AND ASSOCIATES, INC.
415 - 118th Avenue SE
Bellevue Washington 98005-3516
Phone: 425.319.0500



REVISIONS: APPD.

DATE: FEBRUARY 5, 2007
DESIGN:
DRAWN: AALA
CHECKED: MHK
REVISION NUMBER:

SCALE: 1"=20'

PROJECT NUMBER:
TOIL0000-0005

DRAWING FILE:
SVLXTOIL00000005-S19

SHEET NO.

1
OF 1

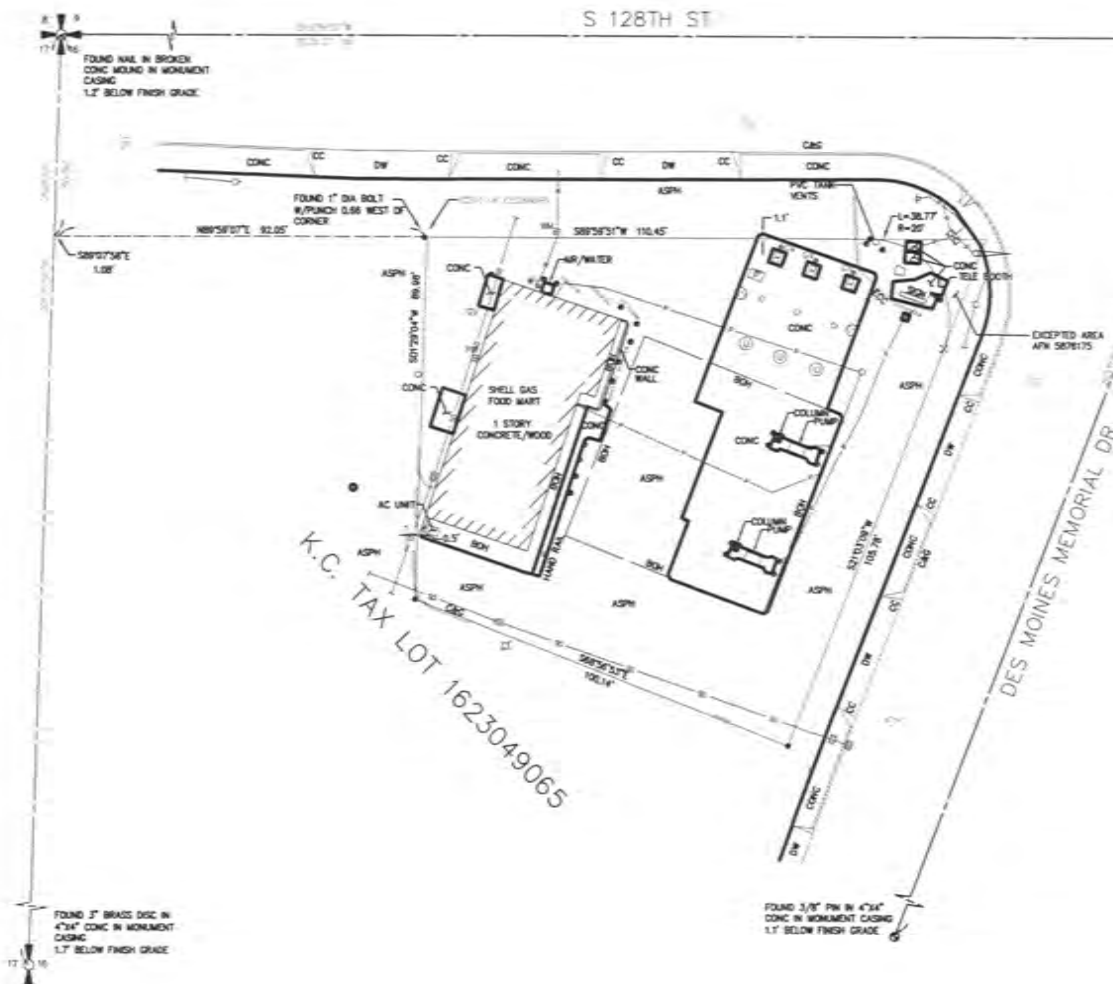
PORTION OF NW 1/4 OF NW 1/4, SEC. 16, TWP. 23 N., RNG. 04 E., W.M.

CITY OF SEATTLE, KING COUNTY, WASHINGTON



REFERENCES

- (C) CALCULATED
 - (M) MEASURED
 - (P) BOULEVARD PARK ADDITION TO THE CITY OF SEATTLE, AS FILED IN VOLUME 22, PAGE 64, UNDER APN 1233286, RECORDS OF KING COUNTY, WASHINGTON
- THE FOLLOWING IS A SUPPLEMENTAL LISTING OF MAPS AND/OR OTHER DOCUMENTS REVIEWED BY THE SURVEYOR DURING THE COURSE OF THIS SURVEY:
- KING COUNTY ASSESSOR MAPS OF NW 1/4 SECTION 16-23-04
 - RECORD OF SURVEY, RECORDED IN VOLUME 46, PAGE 219
 - RECORD OF SURVEY, RECORDED IN VOLUME 156, PAGE 108
 - SHORT PLAT NO. 5998-01, CITY OF BURDEN



LEGEND

MONUMENT (FOUND AS NOTED)	ASPH ASPHALT	SURVEY CENTER LINE
SIGN POST	BOH BUILDING OVERHANG	FENCE LINE (TYPE AS NOTED)
BOLLARD (GUARD POST)	CLF CHAIN LINK FENCE	EASEMENT LINE
GAS VALVE	CONC CONCRETE	UNDERLYING PARCEL LINE
CATCH BASIN	CW CONCRETE SIDEWALK	EXISTING RIGHT-OF-WAY LINE
ELECTRICAL JUNCTION BOX	DW DRIVEWAY	NATURAL GAS
UTILITY POLE	EP EDGE OF PAVEMENT	OVERHEAD UTILITY
GUY ANCHOR	PA PLANTED AREA	UNDERGROUND POWER
WATER METER	RETW RETAINING WALL	UNDERGROUND TELEPHONE
WATER VALVE	MOF WOOD FENCE	DOMESTIC WATER
UNKNOWN UTILITY	CC CURB CUT	VERTICAL CURB
SET 3/8" REBAR AND YELLOW PLASTIC CAP DECA "38962"		
SET BRASS TACK AND WASHER DECA "38962"		

CERTIFICATION

TO THE OIL COMPANY AND LANDAMERICA COMMERCIAL SERVICES TITLE INSURANCE COMPANY:
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/A.C.S.M. LAND TITLE SURVEYS" JOINTLY ESTABLISHED AND ADOPTED BY ALTA, A.C.S.M. AND N.S.P.S. IN 2005, AND INCLUDES ITEMS 1, 2, & 10 AND ITEM 11 OF TABLE "A" THEREOF, PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA, A.C.S.M. AND N.S.P.S. AND IN EFFECT ON THE DATE OF THIS CERTIFICATION. UNDESIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF WASHINGTON, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

MARK H. KIMBOROWICZ, P.L.S. 38962

DATE



LAND DESCRIPTION

FOR LANDAMERICA TITLE REPORT, TITLE ORDER RT-1058450, DATED NOVEMBER 30, 2006.

THAT PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 16, TOWNSHIP 23 NORTH, RANGE 4 EAST, W.M., DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SAID SECTION 16; THENCE SOUTH 00°11'15" WEST, ALONG THE WEST LINE THEREOF, 50 FEET TO THE SOUTH MARSH OF SOUTH 128TH STREET, AS MOVED BY DEEDS RECORDED UNDER RECORDING NOS. 5676174, 5880827 AND 5843430; THENCE NORTH 89°25'21" EAST, ALONG THE SOUTH MARSH, AS NOW ESTABLISHED, 1.08 FEET TO AN ANGLE POINT THEREIN; THENCE NORTH 89°25'21" EAST, ALONG SAID SOUTH MARSH AS NOW ESTABLISHED, 82.05 FEET TO THE TRUE POINT OF BEGINNING; THENCE SOUTH 00°50'22" WEST 88.98 FEET; THENCE SOUTH 70°25'04" EAST 100.55 FEET TO THE WESTERLY MARSH OF DES MOINES WAY SOUTH, WHICH WAS MOVED BY DEEDS RECORDED UNDER RECORDING NOS. 5676170, 5676171, AND 5880827; THENCE NORTH 89°25'21" EAST, ALONG SAID WESTERLY MARSH AS NOW ESTABLISHED, 135.06 FEET TO THE SOUTH MARSH OF SAID SOUTH 128TH STREET, AS NOW ESTABLISHED; THENCE SOUTH 89°25'21" WEST, ALONG SAID SOUTH MARSH, 140.00 FEET TO THE TRUE POINT OF BEGINNING.

EXCEPT THAT PORTION DEEDS TO KING COUNTY UNDER RECORDING NO. 5676175.

SITUATE IN THE CITY OF BURDEN, COUNTY OF KING, STATE OF WASHINGTON.

GENERAL NOTES

- 1) BASE OF BEARS: 5 DITCHES W ALONG THE WEST LINE OF SECTION 16 BETWEEN NW CORNER AND W A CORNER AS SHOWN HERE ON.
- 2) METEOROLOGICAL: THE GROUND SURVEY PORTION OF THIS ALTA, A.C.S.M. SURVEY WAS PERFORMED IN FEBRUARY, 2007 IN ACCORDANCE WITH THE "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA, A.C.S.M. LAND TITLE SURVEYS" JOINTLY ESTABLISHED AND ADOPTED BY ALTA, A.C.S.M. AND N.S.P.S. IN 2005.
- 3) PROPERTY CORNERS: WERE STAKED IN CONJUNCTION WITH THIS SURVEY AS SHOWN HEREON.
- 4) UNDERGROUND UTILITIES: SHOWN REPRESENT FIELD SURVEYED PAINT MARKS AS PLACED ON THE GROUND BY A UTILITY LOCATOR SERVICE TOGETHER WITH AVAILABLE UTILITY AS-BUILT AND REFERENCE DRAWINGS. NO GUARANTEE IS MADE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED OR THAT THE UNDERGROUND UTILITIES ARE SHOWN IN THEIR EXACT LOCATION. THE UTILITIES ARE SHOWN AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION.
- 5) SUBSURFACE AND ENVIRONMENTAL: SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.
- 6) 1-800-534-2444: MUST BE CALLED NOT LESS THAN 48 HOURS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. FAILURE TO DO SO COULD MEAN BEARING SUBSTANTIAL REPAIR COSTS, (UP TO THREE TIMES THE COST OF REPAIRS TO THE SERVICES). 6) SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.
- 7) IMPROVEMENTS SHOWN HEREON ARE LIMITED TO SURFACE OR ABOVE - GROUND FEATURES.

TITLE NOTES

- 1) LAND AMERICA COMMERCIAL SERVICES TITLE INSURANCE COMPANY TITLE ORDER NO. RT-1058450, DATED NOVEMBER 30, 2006, USED FOR LAND DESCRIPTION AND EASEMENTS OF RECORD. NO FURTHER SEARCH INTO THE RECORD WAS REQUESTED OR PERFORMED.
- THE FOLLOWING NOTES PERTAIN TO SCHEDULE "B", SPECIAL EXCEPTIONS, AS DISCLOSED WITHIN SAID REPORT.
- 2) PARAGRAPHS THROUGH 2 PERTAIN TO GENERAL PROPERTY TAXES NONE OF WHICH PERTAINS TO MATTERS DISCLOSED BY THIS SURVEY.
- 3) PARAGRAPH 3 SUBJECT TO SEWER CONNECTION CHARGES TO THE BENEFIT OF RAMMER VISTA SEWER DISTRICT RECORDED UNDER RECORDING NO. 585090000.
- 4) PARAGRAPH 4 SUBJECT TO THE RIGHT TO MAKE NECESSARY SLOPE CUTS UPON THE PROPERTY DEEDS TO KING COUNTY UNDER RECORDING NOS. 5676174, 5676175, AND 5880827.
- 5) PARAGRAPH 5 SUBJECT TO COVENANTS, CONDITIONS, EASEMENTS AND RESTRICTIONS IN DOCUMENT RECORDED DECEMBER 13, 1985, RECORDING NO. 5864904.
- 6) PARAGRAPH 6 SUBJECT TO ENCUMBRANCES AND USE AGREEMENT IMPOSED BY INSTRUMENT RECORDED ON MAY 5, 1986, RECORDING NO. 6024725.
- 7) PARAGRAPH 7 PERTAINS TO LEASE HOLDERS RIGHT AND DOES NOT PERTAIN TO WATER DISCLOSED BY THIS SURVEY.

A.L.T.A./A.C.S.M. LAND TITLE SURVEY
OF
12807 DES MOINES WAY S
FOR
TIME OIL CO.

DAVID EVANS
AND ASSOCIATES, INC.
115 - 11TH AVE. S.E.
Bellevue, Washington 98005-3518
Phone: 425.516.6500



DATE: FEBRUARY 5, 2007

BY: AALA

MRK

SCALE: 1"=20'

PROJECT NUMBER:

TO: 00000-0005

DRAWING FILE:

SVLX000000005-519

DATE: 02/05/07

BY: 1

Appendix H:

Chain of Title / Environmental Liens

Not provided

Appendix I:

Correspondence

King County Department of Assessments

Fair, Equitable, and Understandable Property Valuations

You're In: [Assessments](#) >> [Online Services](#) >> [eReal Property](#)

- [Home](#)
- [Quick answers](#)
- [Property assessments](#)
- [Taxpayer assistance](#)
- [Online services](#)
- [Reports, data](#)
- [Forms](#)
- [News room](#)
- [Contact us](#)
- [About us](#)
- [Site map](#)

Department of Assessments
500 Fourth Avenue,
Suite ADM-AS-0708,
Seattle, WA 98104

Office Hours:
Mon - Fri
8:30 a.m. to 4:30 p.m.

TEL: 206-296-7300
FAX: 206-296-5107
TTY: 206-296-7888

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- [Print Property Detail](#) 

PARCEL DATA

Parcel	162304-9066	Jurisdiction	BURIEN
Name	PACIFIC CONVENIENCE & FUELS	Levy Code	0933
Site Address	12807 DES MOINES MEMORIAL DR S 98168	Property Type	C
Geo Area	50-45	Plat Block / Building Number	
Spec Area	410-0	Plat Lot / Unit Number	
Property Name	SHELL	Quarter-Section-Township-Range	NW-16-23-4

Legal Description

POR OF NW 1/4 LY S OF S 128TH ST & NWLY OF DES MOINES WAY S & ELY & NELY OF LN RNG S 00-00-23 W 89.98 FT FR PT ON S MGN OF SD S 128TH ST 135.17 FT E OF NXN WITH SELY MGN OF 15TH AVE S BOTH AS NOW LOCATED TH S 70-25-34 E 100.55 FT TO NWLY MGN OF SD DES MOINES WAY S

Plat Block:

Plat Lot:

LAND DATA

Highest & Best Use As If Vacant	COMMERCIAL SERVICE	Percentage Unusable	100
Highest & Best Use As Improved	PRESENT USE	Unbuildable	NO
Present Use	Conv Store with Gas	Restrictive Size Shape	YES
Base Land Value SqFt	13	Zoning	CI
Base Land Value	169,800	Water	WATER DISTRICT
% Base Land Value Impacted	100	Sewer/Septic	PUBLIC
Base Land Valued Date	1/8/2014	Road Access	PUBLIC
Base Land Value Tax Year	2015	Parking	ADEQUATE
Land SqFt	13,066	Street Surface	PAVED
Acres	0.30		

Views

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

Designations

Historic Site	
Current Use	
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

Waterfront

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

Nuisances

Topography	NO
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	CONVENIENCE STORE W/Gas
Number Of Buildings Aggregated	1
Predominant Use	MINI-MART CONVENIENCE STORE (531)
Shape	Rect or Slight Irreg
Construction Class	MASONRY

Picture of Building 1



Reference Links:

- [King County Tax Links](#)
- [Property Tax Advisor](#)
- [Washington State Department of Revenue](#) (External link)
- [Washington State Board of Tax Appeals](#) (External link)
- [Board of Appeals/Equalization](#)
- [Districts Report](#)
- [iMap](#)
- [Recorder's Office](#)
- [Scanned images of surveys and other map documents](#)

Notice mailing date:
06/26/2014

Building Quality	AVERAGE
Stories	1
Building Gross Sq Ft	1,512
Building Net Sq Ft	1,512
Year Built	1966
Eff. Year	1985
Percentage Complete	100
Heating System	FORCED AIR UNIT
Sprinklers	No
Elevators	



Section(s) Of Building Number: 1

Section Number	Section Use	Description	Stories	Height	Floor Number	Gross Sq Ft	Net Sq Ft
1	MINI-MART CONVENIENCE STORE (531)		1	10		1,512	1,512

Accessory

Accessory Type	Picture	Description	Qty	Unit Of Measure	Size	Grade	Eff Yr	%	Value	Date Valued
Miscellaneous		Type 3							150000	8/17/2011

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
162304906603	2014	2015		0933	169,800	242,000	411,800	0	169,800	242,000	411,800	
162304906603	2013	2014		0933	169,800	250,300	420,100	0	169,800	250,300	420,100	
162304906603	2012	2013		0933	169,800	257,600	427,400	0	169,800	257,600	427,400	
162304906603	2011	2012		0933	169,800	264,600	434,400	0	169,800	264,600	434,400	
162304906603	2010	2011		0933	195,900	190,700	386,600	0	195,900	190,700	386,600	
162304906603	2009	2010		0933	195,900	198,200	394,100	0	195,900	198,200	394,100	
162304906603	2008	2009		0933	195,900	211,000	406,900	0	195,900	211,000	406,900	
162304906603	2007	2008		0933	195,800	187,100	382,900	0	195,800	187,100	382,900	
162304906603	2006	2007		0933	195,900	184,500	380,400	0	195,900	184,500	380,400	
162304906603	2005	2006		0933	130,600	185,800	316,400	0	130,600	185,800	316,400	
162304906603	2004	2005		0933	130,600	184,600	315,200	0	130,600	184,600	315,200	
162304906603	2003	2004		0933	130,600	186,400	317,000	0	130,600	186,400	317,000	
162304906603	2002	2003		0933	130,600	186,500	317,100	0	130,600	186,500	317,100	
162304906603	2001	2002		0933	130,600	165,400	296,000	0	130,600	165,400	296,000	
162304906603	2000	2001		0933	104,500	165,600	270,100	0	104,500	165,600	270,100	
162304906603	1999	2000		0933	104,500	116,200	220,700	0	104,500	116,200	220,700	
162304906603	1998	1999		0933	104,500	77,000	181,500	0	104,500	77,000	181,500	
162304906603	1997	1998		0933	0	0	0	0	104,500	77,000	181,500	
162304906603	1996	1997		0933	0	0	0	0	65,300	116,200	181,500	
162304906603	1994	1995		0933	0	0	0	0	65,300	116,200	181,500	
162304906603	1992	1993		3710	0	0	0	0	65,300	111,000	176,300	
162304906603	1990	1991		3710	0	0	0	0	45,700	98,100	143,800	
162304906603	1988	1989		3710	0	0	0	0	54,000	89,800	143,800	
162304906603	1986	1987		3710	0	0	0	0	48,600	65,500	114,100	
162304906603	1984	1985		3710	0	0	0	0	48,600	65,500	114,100	
162304906603	1982	1983		3710	0	0	0	0	48,600	65,400	114,000	

SALES HISTORY

Excise Number	Recording Number	Document Date	Sale Price	Seller Name	Buyer Name	Instrument	Sale Reason
2383257	20090316000266	1/30/2009	\$0.00	PETROSUN WEST L L C+BEDROCK OIL INC	PCF ACQUISITIONCO L L C	Bargain and Sales Deed	Other
2321852	20071128000560	11/15/2007	\$416,000.00	TIME OIL CO	PETROSUN WEST L L C+BEDROCK OIL INC	DEED	None
848137	198510181087	10/17/1985	\$100,000.00	HUDSON OIL CO INC	TIME OIL CO	Warranty Deed	None

REVIEW HISTORY

PERMIT HISTORY

HOME IMPROVEMENT EXEMPTION

Updated: July 14, 2014

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Information for...

Contact us

Do more online



Property Solutions INC.

Environmental & Engineering Consulting

323 New Albany Road • Moorestown, New Jersey 08057 • 856-813-3000 • Fax 856-813-1068

July 25, 2014

City of Seattle
Department of Planning & Development
700 Fifth Ave., Suite 2000 - P.O. Box 34019
Seattle, WA 98124-4019
ATTN: FOIA Officer
Phone: (206) 684-8600
Fax: (206) 233-7902
Email: N/A
Website: <http://www.seattle.gov/dpd/>

Re: Gas Stations
4001 California Avenue SW, 5235 Delridge Way SW, 12807 Des Moines Way S
Seattle, WA
Property Solutions Inc Project #: 20143045-46-47

Dear Freedom of Information Officer:

Property Solutions Inc. is conducting a Phase I Environmental Assessment of the aforementioned property. As part of a property assessment, we wish to determine whether government agencies possess records on the subject property that may include potential environmental concerns. We request information on the following:

- Permits, reports, and information for Underground or Aboveground Storage Tanks (UST/AST), oil / water separator or clarifier installation or removal any current or previous building at the property
- Permits for flammable materials storage
- Permits of asbestos removal
- Permits for the installation or decommissioning of drinking water wells & septic systems
- Demolition/renovation permits for the current building of any other prior building on this property
- Any known spills, releases, hazardous materials

If you have any questions, please call me at 856-813-3000 ext 245, or email me at ecoordinator@propertyolutionsinc.com. If you have no information on the property, please fill in the box below and fax back to me at 856-813-1073. Thank you for your assistance.

Sincerely,
Property Solutions Inc.

Lyla Gray-Etherson, Environmental Coordinator
ecoordinator@propertyolutionsinc.com
856-813-3000 ext 245

<input type="checkbox"/>	No Files for subject property or address
Name:	_____
Title:	_____
Phone:	_____
X _____	_____
Signature	Date

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Property Solutions INC.

Environmental & Engineering Consulting

323 New Albany Road • Moorestown, New Jersey 08057 • 856-813-3000 • Fax 856-813-1068

July 25, 2014

City of Seattle
Department of Planning & Development
700 Fifth Ave., Suite 2000 - P.O. Box 34019
Seattle, WA 98124-4019
ATTN: FOIA Officer
Phone: (206) 684-8600
Fax: (206) 233-7902
Email: N/A
Website: <http://www.seattle.gov/dpd/>

Re: Gas Stations
4001 California Avenue SW, 5235 Delridge Way SW, 12807 Des Moines Way S
Seattle, WA
Property Solutions Inc Project #: 20143045-46-47

Dear Freedom of Information Officer:

Property Solutions Inc. is conducting a Phase I Environmental Assessment of the aforementioned property. As part of a property assessment, we wish to determine whether government agencies possess records on the subject property that may include potential concerns. We request information on the following:

- Any known or suspected potential environmental issues at the property or area of the subject property
- Historical use of the subject property
- Any special requirements per planning / zoning due to potential environmental concerns in the area

If you have any questions, please call me at 856-813-3000 ext 245, or email me at ecoordinator@propertytsolutionsinc.com. If you have no information on the property, please fill in the box below and fax back to me at 856-813-1073. Thank you for your assistance.

Sincerely,
Property Solutions Inc.

Lyla Gray-Etherson, Environmental Coordinator
ecoordinator@propertytsolutionsinc.com
856-813-3000 ext 245

<input type="checkbox"/> No Files for subject property or address
Name: _____
Title: _____
Phone: _____
X _____
Signature _____ Date _____

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Property Solutions INC.

Environmental & Engineering Consulting

323 New Albany Road • Moorestown, New Jersey 08057 • 856-813-3000 • Fax 856-813-1068

July 25, 2014

City of Seattle
Fire Department
301 2nd Avenue South
Seattle, WA 98104
ATTN: FOIA Officer
Phone: 206-386-1400
Fax: N/A
Email: N/A
Website: <http://www.seattle.gov/fire/>

RE: Gas Stations
4001 California Avenue SW, 5235 Delridge Way SW, 12807 Des Moines Way S
Seattle, WA
Property Solutions Inc Project #: 20143045-46-47

Dear Freedom of Information Officer:

Property Solutions Inc. is conducting a Phase I Environmental Assessment of the aforementioned property. As part of a property assessment, we wish to determine whether government agencies possess records on the subject property that may include potential concerns. We request information on the following:

- Outstanding fire code violations associated with storage / handling / use of flammable or hazardous materials
- Fires or spills
- Permits for Underground or Aboveground Storage Tanks (UST/AST), installation or removal
- Any known storage of hazardous materials or petroleum products

If you have any questions, please call me at 856-813-3000 ext 245, or email me at ecoordinator@propertytsolutionsinc.com. If you have no information on the property, please fill in the box below and fax back to me at 856-813-1073. Thank you for your assistance.

Sincerely,
Property Solutions Inc.

Lyla Gray-Etherson, Environmental Coordinator
ecoordinator@propertytsolutionsinc.com
856-813-3000 ext 245

☐ No Files for subject property or address

Name: _____

Title: _____

Phone: _____

X _____

Signature

Date

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Property Solutions INC.

Environmental & Engineering Consulting

323 New Albany Road • Moorestown, New Jersey 08057 • 856-813-3000 • Fax 856-813-1068

July 25, 2014

City of Seattle
Public Utilities Department - Water
PO Box 34016
Seattle, WA 98124-1906
ATTN: FOIA Officer
Phone: (206) 684-3000
Fax: N/A
Email: N/A
Website: <http://www.seattle.gov/util/>

Re: Gas Stations
4001 California Avenue SW, 5235 Delridge Way SW, 12807 Des Moines Way S
Seattle, WA
Property Solutions Inc Project #: 20143045-46-47

To Whom It May Concern:

Property Solutions Inc. is conducted a Phase I Environmental Assessment of the aforementioned property. As part of the property assessment, we wish to determine the water and sewer provider of the subject property.

If the **City of Seattle** is indeed the water and sewer provider, please provide me with the following information:

- Date of water connection
- Water violations
- Date of municipal sewer connection
- Special sewer discharge permits
- Copy of the most recent Water Quality Report

If you have any questions, please call me at 856-813-3000 ext 245, or email me at ecoordinator@propertyolutionsinc.com. If you have no information on the property, please fill in the box below and fax back to me at 856-813-1073. Thank you for your assistance.

Sincerely,
Property Solutions Inc.

Lyla Gray-Etherson, Environmental Coordinator
ecoordinator@propertyolutionsinc.com
856-813-3000 ext 245

☐ No Files for subject property or address

Name: _____

Title: _____

Phone: _____

X _____

Signature

Date

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PHILA • NY • CHICAGO • LA • DALLAS • PORTLAND • ATLANTA • BALTIMORE



Property Solutions INC.

Environmental & Engineering Consulting

323 New Albany Road • Moorestown, New Jersey 08057 • 856-813-3000 • Fax 856-813-1068

July 25, 2014

Seattle City Light
Electric Division
700 5th Avenue
Seattle, WA 98104-5031
ATTN: FOIA Officer
Phone: 206.684.3000
Fax: N/A
Email: N/A
Website: <http://seattle.gov/light/>

Re: Gas Stations
4001 California Avenue SW, 5235 Delridge Way SW, 12807 Des Moines Way S
Seattle, WA
Property Solutions Inc Project #: 20143045-46-47

Use Public Disclosure Form. Will not research unless form is sent.

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Send your email to requests to Seattle City Light at: SCL_ENV_PDR@seattle.gov

Email is preferred (you will likely receive a quicker response):

Alternately send Postal Mail to: Seattle City Light, Environmental Affairs Room 3316, Karen Dinehart, P.O. Box 34023, Seattle, WA 98124-4023

All of the following information must be filled out **completely** in order to process this request. Seattle City Light (SCL) will only provide information for inquiries within our Service Area. SCL will respond to the request in total or in installments within thirty (30) days. Please be aware that requests that include multiple parcels/addresses will take longer. Requests will be answered in the order that they are received.

Requestor Information			
Date of Request: 7/25/14	Requested by: Lyla Gray-Etherson	Mailing Address: 323 New Albany	Phone: 856-813-3000 x245
Company/Owner Name: Property Solutions	Email: ecoordinator@propertyolutionsinc.com	City: Moorestown	Zip Code: 08057
Is this for a Phase I Environmental Site Assessment? (check one) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Reason for Request (<i>Describe in detail</i>): Property Solutions Inc. is conducting a Phase I Environmental Assessment of the aforementioned property. As part of a property assessment, we verify that Seattle City Light provides power to the subject property. Property Solutions Inc also requests information regarding the PCB content (or if manufactured as non-PCB) and records of leaks, fires or explosions in regard to any current or previous transformers located at the property below 4001 California Avenue SW, 5235 Delridge Way SW, 12807 Des Moines Way S			

Site Information		
If your request includes two (2) or more parcels/addresses, attach an additional list with the following information for <u>each</u> parcel/address:		
County:	Parcel ID (In King County, find the Parcel ID here: http://info.kingcounty.gov/Assessor/eRealProperty/default.aspx)	
Mailing Address:	City:	Zip Code:



REQUEST FOR PUBLIC RECORD

DEPARTMENT OF ECOLOGY

Please Print

Date of Request	Requester:	Phone Number: ()
	Company:	Fax Number: ()
		E-Mail Address:
Address		City/State/Zip:

NAME AND DESCRIPTION OF PUBLIC RECORDS OR INFORMATION REQUESTED

Please provide any information regarding any AST / UST, PCBs, spills / releases, petroleum and hazardous materials use, storage, or disposal activities, vapor intrusion, contaminated groundwater, solid waste disposal, asbestos, deed notices, and activities and use limitations at the following property:

Gas Stations

**4001 California Avenue SW, 5235 Delridge Way SW, 12807 Des Moines Way S
Seattle, WA**

Property Solutions Inc Project #: 20143045-46-47

I understand that if a list of **individuals** is provided to me by the Department of Ecology, it will neither be used to promote the election of an official or to promote or oppose a ballot proposition as prohibited by RCW 42.17.130 nor for commercial purposes or to give or provide access to material to others for commercial purposes as prohibited by RCW 42.56.070(9). I understand that I will be charged 15 cents per page for all standard and legal sized copies, or actual cost incurred by the agency per chapter 42.56.120 RCW.

Requester's Signature _____

If you need this publication in an alternate format, please call the Records Office at (360) 407-6040. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.



STATE OF
WASHINGTON

BUSINESS LICENSE

Foreign Limited Liability Company

CONVENIENCE RETAILERS LLC
CONVENIENCE RETAILERS #2840
12807 DES MOINES MEMORIAL DR
BURIEN WA 98168 2843

TAX REGISTRATION
LIQUID FUEL METER-LOW (12)
UNDERGROUND STORAGE TANKS (3): 429, 430, 425

Unified Business ID #: 602 783 524
Business ID #: 1
Location: 91
Expires: 11-30-2014

This document lists the registrations, endorsements, and licenses authorized for the business named above. By accepting this document, the licensee certifies the information on the application 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.

Director, Department of Revenue

FOLD HERE

FOLD HERE

2840

Director, Department of Revenue

DETACH THIS SECTION FOR YOUR WALLET

MA

STATE OF WASHINGTON
UBI NO. 602 783 524 1 91
EXPIRATION DATE 11-30-2014
CONVENIENCE RETAILERS LLC
CONVENIENCE RETAILERS #2840
12807 DES MOINES MEMORIAL DR
BURIEN WA 98168 2843
UNDERGROUND STORAGE TANKS (3)
TAX REGISTRATION
LIQUID FUEL METER-LOW (12)

Subject: FW: Public request for information from Seattle City Light, #1507 (20142985)
From: environmental coordinator (ecoordinator@propertytsolutionsinc.com)
To: bmcnamara@mcenv.com;
Date: Friday, August 29, 2014 8:40 AM

From: SCL_ENV_PDR [mailto:SCL_ENV_PDR@seattle.gov]
Sent: Thursday, August 28, 2014 7:08 PM
To: environmental coordinator
Subject: Public request for information from Seattle City Light, #1507

Good afternoon,

The attachments and following information are in response to your request for public information made on August 8, 2014. Please use the following request ID when referring to this specific request from now on: #1507.

The parcel specified on the attached form does not exist, so we used parcel 6163900603, which is indeed powered by Seattle City Light. There are not any transformers within the specified property boundary for parcel 6163900603. The closest transformers are identified on the attached map. The PCB content for those transformers is listed below:

SY14576 – Put into service in 2005; Manufacturer certified <1 ppm PCBs.

SY14096 – Put into service in 2004; Manufacturer certified <1 ppm PCBs.

Thank you for using our Public Disclosure Request Form.

Public Disclosure Requests

Seattle City Light Environmental Affairs

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:	PC&F 76	Air Agency Registration No.:
Address:	12807 Des Moines Way	
City, State, Zip:	Seattle, WA 98168	

Testing Company Name:	SME Solutions, LLC	Date/Time of Test:	12-5-13
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 "H₂O 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: Sept/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	1/2	MPD		60 sec.	.08	" H2O	" H2O
Wet	3/4	MPD		60 sec.	.13	" H2O	" H2O
					" H2O	" H2O	" H2O
					" H2O	" H2O	" H2O
					" H2O	" H2O	" H2O
					" H2O	" H2O	" H2O

Person conducting the test:

Will Hundven

Print Name



Digitally signed by William Hundven

Signature

12/5/2013

Date

Tank owner or authorized representative:

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)

Pressure Decay Test CARB Test Procedure TP-201.3 or Procedure in CARB Executive Order for Stage 2 Equipment

Station Name: PC&F 76

Air Agency Registration No.: _____

Address: 12807 Des Moines Way

City, State, Zip: Seattle, WA 98168

Testing Company Name: SME Solutions, LLC

Date/Time of Test:
12-5-13

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 Manifolder? Yes ☐ No ☒

Total Nozzles: 4

Tested with vapor cap: ON ☐ or OFF ☒

	Tank #1	Tank #2	Tank #3	Tank #4	
Number of Nozzles:					Total if Manifolder
Capacity:	10,000	10,000	10,000		30,000
Gasoline Volume:	5523	5117	4221		14,861
Ullage:	4477	4883	5779		15,139
Percent Ullage:	%	%	%	%	% 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: Sept/2013

Test Results

	If Manifolder	Non-Manifolder			
		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 1.99	" H2O	" H2O	" H2O	" H2O
Pressure after 3 minutes	" H2O 1.99	" H2O	" H2O	" H2O	" H2O
Pressure after 4 minutes	" H2O 1.98	" H2O	" H2O	" H2O	" H2O
Pressure after 5 minutes	" H2O 1.98	" H2O	" H2O	" H2O	" H2O

Allowable pressure from table (TP-201.3 or Applicable CARB Exec Exhibit #): _____

Allowable pressure calculated (Formulas on back): 1.94

Person conducting the test:

Will Hundven

Print Name



Digitally signed by William
Hundven

Signature

12-5-13

Date

Tank owner or authorized representative:

Print Name

Signature

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:

$$P_f = 2e^{-760.490/V} \quad \text{If } N = 1-6$$

$$P_f = 2e^{-792.196/V} \quad \text{If } N = 7-12$$

$$P_f = 2e^{-824.023/V} \quad \text{If } N = 13-18$$

$$P_f = 2e^{-855.974/V} \quad \text{If } N = 19-24$$

$$P_f = 2e^{-888.047/V} \quad \text{If } N = 24$$

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 H₂O

V = The total ullage affected by the test, gallons

e = A dimensionless constant approximately equal to 2.718

2 = The initial starting pressure, inches H₂O

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:

$$P_f = 2e^{-500.887/V} \quad \text{If } N = 1-6$$

$$P_f = 2e^{-531.614/V} \quad \text{If } N = 7-12$$

$$P_f = 2e^{-562.455/V} \quad \text{If } N = 13-18$$

$$P_f = 2e^{-593.412/V} \quad \text{If } N = 19-24$$

$$P_f = 2e^{-624.483/V} \quad \text{If } N = 24$$

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)

Static Torque of Rotatable Stage 1 Adaptors

Station Name:

PC&F 76

Air Agency Registration No.:

Address:

12807 Des Moines Way

City, State, Zip: Seattle, WA 98168

Testing Company Name:

SME Solutions, LLC

Date/Time of Test:

12-5-13

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
<input checked="" type="checkbox"/> Adaptor torqued to riser per manufacturer spec. 360° <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> Adaptor torqued to riser per manufacturer spec. 360° <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> Adaptor torqued to riser per manufacturer spec. 360° <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input type="checkbox"/> Adaptor torqued to riser per manufacturer spec. 360° <input type="checkbox"/> PASS <input type="checkbox"/> FAIL
Brand: OPW	Brand: OPW	Brand: OPW	Brand:
Model: 61VSA	Model: 61VSA	Model: 61VSA	Model:
Grade: Unleaded	Grade: Plus	Grade: Super	Grade:
Torque 1: 90	Torque 1: 90	Torque 1: 95	Torque 1:
Torque 2: 90	Torque 2: 85	Torque 2: 90	Torque 2:
Torque 3: 85	Torque 3: 85	Torque 3: 90	Torque 3:
Average: 88.33	Average: 86.67	Average: 91.67	Average: 0.00

Product Adaptor 1	Product Adaptor 2	Product Adaptor 3	Product Adaptor 4
<input checked="" type="checkbox"/> Adaptor torqued to riser per manufacturer spec. 360° <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> Adaptor torqued to riser per manufacturer spec. 360° <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> Adaptor torqued to riser per manufacturer spec. 360° <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input type="checkbox"/> Adaptor torqued to riser per manufacturer spec. 360° <input type="checkbox"/> PASS <input type="checkbox"/> FAIL
Brand: OPW	Brand:	Brand:	Brand:
Model: 61SALP	Model:	Model:	Model:
Grade: Unleaded	Grade: Plus	Grade: Super	Grade:
Torque 1: 100	Torque 1: 60	Torque 1: 65	Torque 1:
Torque 2: 95	Torque 2: 60	Torque 2: 65	Torque 2:
Torque 3: 95	Torque 3: 60	Torque 3: 60	Torque 3:
Average: 96.67	Average: 60.00	Average: 63.33	Average: 0.00

Will Hundven <hr/> <i>Print Name</i>	<div style="text-align: center;">  Digitally signed by William Hundven </div> <hr/> <i>Signature</i>	12-5-13 <hr/> <i>Date</i>
Tank owner or authorized representative:		
<hr/> <i>Print Name</i>	<hr/> <i>Signature</i>	<hr/> <i>Date</i>

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: PC&F 76

Air Agency Registration No.:

Address: 12807 Des Moines Way

City, State, Zip: Seattle, WA 98168

Testing Company Name: SME Solutions, LLC

Date/Time of Test:

12/5/2013

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:

Will Hundven

Print Name



Digitally signed by
William Hundven

Signature

12/5/2013


Date

Tank owner or authorized representative:

Print Name

Signature

Date

Site Name and Address:						<h1 style="text-align: center;">TriTester</h1> <h2 style="text-align: center;">CARB TP 201.5</h2> <h3 style="text-align: center;">Air to Liquid Test</h3> <h4 style="text-align: center;">RESULTS REPORTING FORM</h4>						Test Firm Name and Address:					
PC&F 76												SME Solutions, LLC					
12807 Des Moines Way												2302 A Street					
Seattle, WA 98168												Tacoma, WA. 98402					
Air Agency Reg. #:																	
Test Date and Time: Dec 5, 2013												Phone: 253-572-3822 Technician Name: Will Hundven					
Meter Leak Tests												Signature:  Digitally signed by William Hundven					
Bulb must not inflate in less than 30 seconds.																	
Pre-Test Leak Check Result <input type="checkbox"/> Pass <input type="checkbox"/> Fail						Calibration Date: 10-18-13											
Post-Test Leak Check Result <input type="checkbox"/> Pass <input type="checkbox"/> Fail						Serial No: 0436338						Applicable CARB EO #					
Disp #	Gas Grade	Nozzle	GPM	A/L	Pass Fail	Comment	Disp #	Gas Grade	Nozzle	GPM	A/L	Pass Fail	Comment				
1	Regular	Healy		.00	Fail		7	Regular				Pass					
1	Plus	Healy		.00	Fail		7	Plus				Pass					
1	Super	Healy		.00	Fail		7	Super				Pass					
2	Regular	Healy		.00	Fail		8	Regular				Pass					
2	Plus	Healy		.00	Fail		8	Plus				Pass					
2	Super	Healy		.00	Fail		8	Super				Pass					
3	Regular	Healy	6.70	1.05	Pass		9	Regular				Pass					
3	Plus	Healy	8.52	1.03	Pass		9	Plus				Pass					
3	Super	Healy	8.15	1.04	Pass		9	Super				Pass					
4	Regular	Healy	7.23	1.01	Pass		10	Regular				Pass					
4	Plus	Healy	8.93	1.04	Pass		10	Plus				Pass					
4	Super	Healy	8.43	1.06	Pass		10	Super				Pass					
5	Regular				Pass		11	Regular				Pass					
5	Plus				Pass		11	Plus				Pass					
5	Super				Pass		11	Super				Pass					
6	Regular				Pass		12	Regular				Pass					
6	Plus				Pass		12	Plus				Pass					
6	Super				Pass		12	Super				Pass					

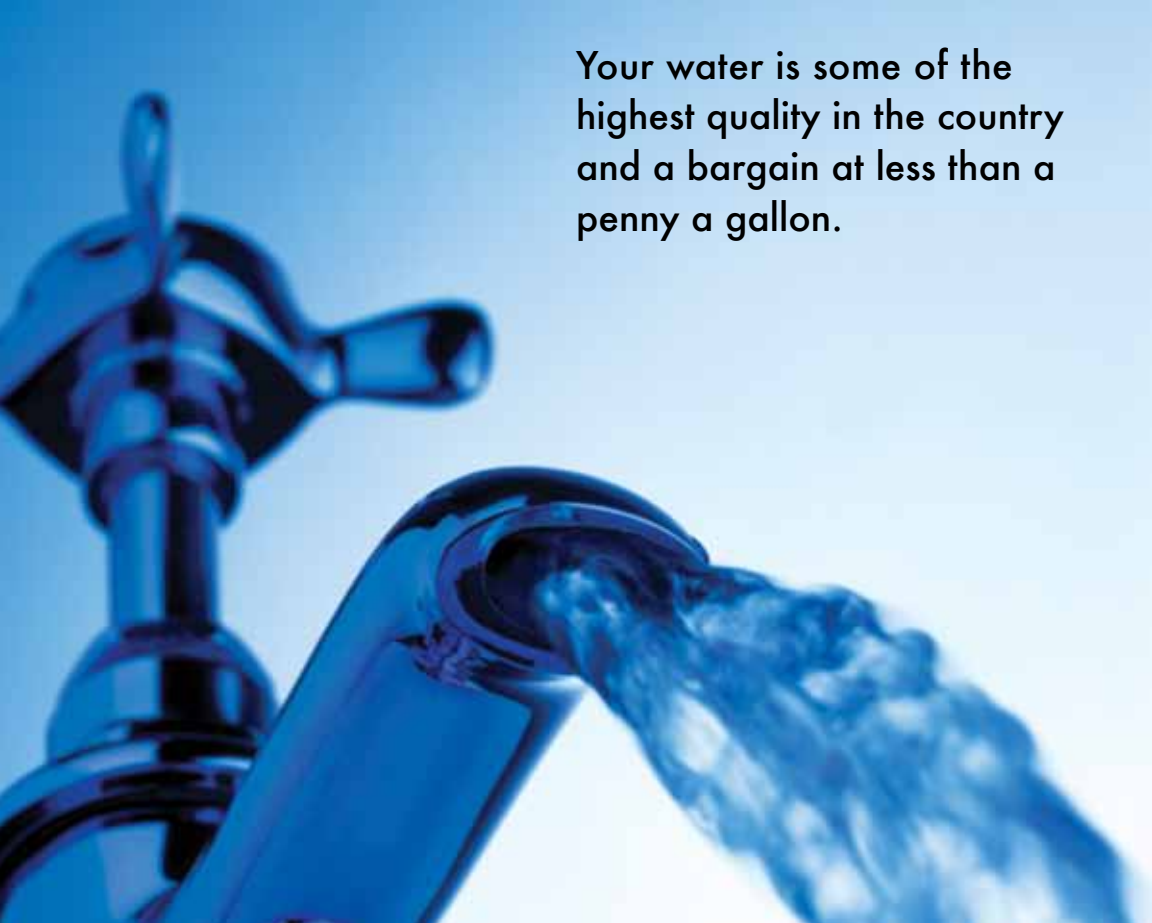


DRINKING WATER QUALITY REPORT 2013

INVISIBLE SYSTEMS, VISIBLE BENEFITS



Beacon Hill Reservoir lies beneath Jefferson Park — creating more open space for Seattle.



Your water is some of the highest quality in the country and a bargain at less than a penny a gallon.

1.3 MILLION PEOPLE USE SPU WATER EVERY DAY

PIPES, PUMPS, TREATMENT PLANTS, AND PEOPLE MAKE THIS POSSIBLE



Tony Blackwell

Division Director for Water Transmission and Distribution

"I like the fact that SPU owns and maintains both of its watersheds. It makes me proud that we have control of the quality of our water from our watersheds to your faucet."



OUR HIDDEN WATER SYSTEM

Infrastructure. It may sound boring, but take a deeper look. You'll find the amazing role Seattle Public Utilities' pipes, pumps and treatment plants play to bring some of the best water in the world to your tap.

- It starts with the watersheds—over 100,000 protected acres—that provide some of the cleanest water. We're the envy of the nation, with such a safe and reliable source of mountain water. These watersheds also provide habitat for our salmon and other animals and plants.
- Water travels to two plants that treat and test the water to ensure it is safe. Because of the purity of the source water, we do much less treatment than other cities.

- It travels through 1,800 miles of water mains. We schedule regular preventative maintenance to prevent leaks and breaks.
- It is monitored 24 hours a day, seven days a week, by people responding to breaks, power outages, pumping station issues and coordinating with street and electricity construction projects.
- It is stored in covered reservoirs in the city, protected from contamination.
- It's there—tasty, clean and safe—when you turn on the tap.

It takes 658 people, and lots of equipment, to bring you what you have come to expect: the best water in the nation, for less than a penny a gallon.



1,800 MILES OF PIPES, 20,000 VALVES, 188,000 WATER METERS

THE COMPLEX BUSINESS OF GETTING CLEAN WATER TO YOUR HOME

Seattle Public Utilities' two watersheds, two state-of-the-art water treatment plants, 1,800 miles of pipes, thirteen reservoirs, ten storage tanks, many pumping stations, and a mission control center all work together to supply our region with fresh, clean water.



Cheryl Capron

Senior Water Systems Operator

"I monitor the system, analyze operations data, reroute water if there's a main break. If a transportation project is planned, I figure out what needs to be shut down, and find alternative supply routes so no one goes without water. I make sure water flows!"



A WORLD OF WATER BELOW

The water beneath our feet is necessary for life, yet few of us think about the amazing system that delivers it to our taps.

Water treatment alone is a complex endeavor: Cedar River water is disinfected with ozone, ultraviolet light, and chlorine. South Fork Tolt water, which is slightly different, is ozonated, filtered, and disinfected with chlorine. Both supplies have minerals added for corrosion control. Then, our water is ready to drink.


PREVENTING WATER WASTE

Seattle Public Utilities (SPU) produced 44.1 billion gallons of treated drinking water in 2013. Of this amount, 2.8 billion gallons were lost to leakage; representing a leakage rate of 6.3 percent, which is considered relatively low.

Preventing leaks is one way water is conserved; your efforts are another. Why is conservation so important in our region? It gives customers ways to lower their utility bills. It helps make the water system more reliable by reducing waste and leaving water available for when it's needed most. And, conserving water means that we'll have enough water for ourselves, wildlife, and future generations.

The Saving Water Partnership (SWP) — which is made up of SPU and 18 of its wholesale water utility partners—has set a six-year conservation goal: reduce per capita use from current levels so that the SWP's total average annual retail water use is less than 105 mgd (million gallons per day) from 2013 through 2018 despite forecasted population growth. In order to meet the goal, the amount of water used per person will need to decrease to offset growth. For 2013, the Saving Water Partnership met the goal, using 93 mgd.

Visit **www.savingwater.org** for information on rebates, conservation tips, videos on fixing leaks and efficient landscaping practices, and more.



We get ongoing benefit from Seattle's early decision in the 1890s to protect the watershed and provide a gravity-fed clean mountain source of water for our region.

MORE THAN 100,000 ACRES OF PROTECTED WATERSHED

A KEY PART OF THE INVISIBLE SYSTEM



Ralph Naess

Public and Cultural Programs Manager

"It's a huge 'aha!' moment when people come up to our Cedar River Watershed Education Center. They see the mountains, and the lake and streams and waterfalls and ask in amazement, 'Is that my drinking water?' It's a beautiful thing: water with spirit."

THE WATERSHED AND ITS WATER: TWO GREAT RESOURCES

Two surface water sources provide our water: 60 percent from the Cedar River and 40 percent from the South Fork Tolt River. These two surface water sources begin in the Cascade Mountains. (The system also has wells that weren't needed in 2013.)

Since both watersheds are publicly owned, Seattle Public Utilities makes sure that the land and water is free of agricultural, industrial, residential and recreational use. This means that contaminants have little

opportunity to enter the water, making our water some of the best in the nation, and requiring less treatment than most other cities.

More than forty people, including biologists and hydrologists, education staff, watershed inspectors, and maintenance people work to protect the watersheds. Watershed maintenance includes decommissioning roads to reduce run-off, improving culvert systems, and taking care of the forest, plants, fish and wildlife.

COME SEE THE WATERSHED

While the watershed is closed to public access, the Cedar River Watershed Education Center on Rattlesnake Lake in North Bend provides guided tours, exhibits and events to connect people to the source of Seattle's drinking water and its unique cultural and natural history. School field trips, educational events, volunteer opportunities and family programs bring the history, science and culture of the watershed alive. Come visit! Learn more at www.seattle.gov/util/crwec.

THE DETAILS ABOUT OUR WATER SOURCES AND THEIR POTENTIAL CONTAMINANTS

To ensure tap water is safe to drink, the Environmental Protection Agency and the Washington State Board of Health regulate the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration and the Washington State Department of Agriculture regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Washington's Source Water Assessment Program is conducted by the Department of Health (DOH) Office of Drinking Water. According to DOH, all surface waters are given a susceptibility rating of "high," regardless of whether contaminants have been detected or whether there are any sources of contaminants in the watershed. Information on the source water assessments is available from the DOH website at <https://fortress.wa.gov/doh/eh/dw/swap/maps>.

Sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at **800-426-4791**.

In Seattle's surface water supplies, the potential sources of contamination include:

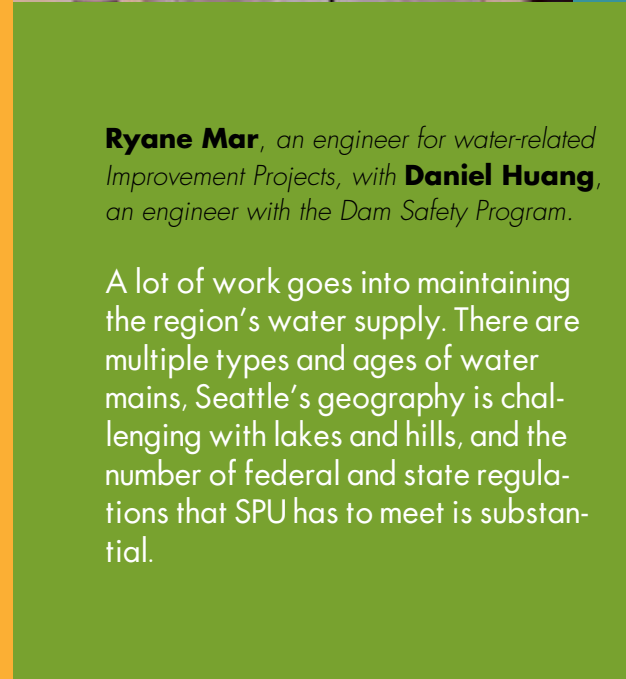
- microbial contaminants, such as viruses, bacteria, and protozoa from wildlife;
- inorganic contaminants, such as salts and metals, which are naturally occurring; and
- organic contaminants, which result from chlorine combining with the naturally occurring organic matter.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. Environmental Protection Agency/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at **800-426-4791**.



Winsome Robinson Williams
Water Quality Analyst, Supervisor

"The best part of my job is letting people know that our water is amazing."



Ryane Mar, an engineer for water-related Improvement Projects, with **Daniel Huang**, an engineer with the Dam Safety Program.

A lot of work goes into maintaining the region's water supply. There are multiple types and ages of water mains, Seattle's geography is challenging with lakes and hills, and the number of federal and state regulations that SPU has to meet is substantial.



Alex Chen
Senior Water Quality Engineer

"I see myself as an advocate for our customers. Together with other water quality engineers, I ensure that our water protects public health, meets requirements, and tastes and smells great."

OUR RESULTS:

The results of monitoring in 2013 are shown in the table below. These results are for parameters regulated by the federal and state agencies. For other water quality information, please check our web site at www.seattle.gov/util/waterqualityreport or call **206-615-0827**. We can also send you a list of the more than 200 compounds

for which we tested but did not find in our surface water supplies, including unregulated contaminants.

Water quality monitoring data can be difficult to interpret. To make all the information fit in one

table, we used many acronyms that are defined below the table. In Seattle, if you live south of Green Lake, your water probably comes from the Cedar. Areas north of Green Lake usually receive Tolt water. Each source can provide water to other areas in Seattle if needed.

		EPA’S ALLOWABLE LIMITS		LEVELS IN CEDAR WATER		LEVELS IN TOLT WATER		
DETECTED COMPOUNDS	UNITS	MCLG	MCL	AVERAGE	RANGE	AVERAGE	RANGE	TYPICAL SOURCES
RAW WATER								
Total Organic Carbon	ppm	NA	TT	0.8	0.4 to 1.4	1.3	1.2 to 1.4	Naturally present in the environment
Cryptosporidium*	#/100L	NA	NA	ND	ND	<1	ND - 2	Naturally present in the environment
FINISHED WATER								
Turbidity (cloudiness)	NTU	NA	TT	0.4	0.2 to 2.7	0.06	0.04 to 0.14	Soil runoff
Barium	ppb	2000	2000	1.8	one sample	1.9	one sample	Erosion of natural deposits
Bromate	ppb	0	10	0.08	ND - 2	ND	ND	By-product of drinking water disinfection
Fluoride	ppm	4	4	0.8	0.7 to 0.8	0.8	0.7 to 0.9	Water additive that promotes strong teeth
Coliform, Total	%	0	5	Highest Month=0.5% Annual Average=0.15%		Highest Month=0.5% Annual Average=0.15%		Naturally present in the environment
Total Trihalomethanes	ppb	NA	80	34	14 to 44	29	19 to 41	By-products of drinking water chlorination
Haloacetic Acids(5)	ppb	NA	60	41	12 to 65	37	23 to 48	
Chlorine	ppm	MRDLG = 4	MRDL = 4	Average = 0.85 Range = 0 to 1.7		Average = 0.85 Range = 0 to 1.7		Water additive used to control microbes
*Cryptosporidium was not detected in any samples from the Cedar (out of 3) and in one sample from the Tolt (out of 4).								

LEAD AND COPPER MONITORING RESULTS					
PARAMETER AND UNITS	MCLG	ACTION LEVEL+	2013 RESULTS++	HOMES EXCEEDING ACTION LEVEL	SOURCE
Lead, ppb	0	15	3	0 of 50	Corrosion of household plumbing systems
Copper, ppm	1.3	1.3	0.10	0 of 50	
+ The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.					
++ 90th Percentile: i.e. 90 percent of the samples were less than the values shown.					

Although there is no detectable lead in our source water, tests show there are sometimes elevated levels of lead and copper in some samples, primarily because of corrosion of household plumbing systems. These results show that it is very important that homeowners, business owners and others be aware of their type of plumbing, and how the plumbing affects their drinking water quality.

The majority of homes have some risk of lead contamination in water that sits in pipes for longer than two hours. Where you live, when your plumbing was installed and what type of plumbing you have, all play a part in determining your potential exposure level. SPU treats the water to minimize the tendency for lead to enter the water, and results show that that we have been very successful at this.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young

children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. SPU is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Finally, remember that drinking water is only a minor contributor to overall exposure to lead. Other sources, including paint, soil, and food, also contribute.

DEFINITIONS

MCLG: *Maximum Contaminant Level Goal*—The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MCL: *Maximum Contaminant Level*—The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

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

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

TT: *Treatment Technique*—A required process intended to reduce the level of a contaminant in drinking water.

NTU: *Nephelometric Turbidity Unit*—Turbidity is a measure of how clear the water looks. The turbidity MCL that applied to the Cedar supply in 2013 was 5 NTU, and for the Tolt it was 0.3 NTU for at least 95 percent of the samples in a month. 100 percent of the samples from the Tolt in 2013 were below 0.3 NTU.

NA: *Not Applicable*

ND: *Not Detected*

ppm: *1 part per million* = 1 mg/L = 1 milligram per liter

ppb: *1 part per billion* = 1 ug/L = 1 microgram per liter

1 ppm =1000 ppb

For more information about your water, contact Seattle Public Utilities at **206-684-3000** or visit our website at **www.seattle.gov/util/waterqualityreport**. For conservation information, visit **www.savingwater.org**.



Seattle Public Utilities
700 Fifth Avenue, Suite 4900
P.O. Box 34018
Seattle, WA 98124-4018

Seattle water is clean, safe, and costs less than a penny a gallon.
For translation services please call 206-684-3000.

El agua de Seattle es limpia, segura y cuesta menos de un centavo el galón.
Para servicios de interpretación por favor llame al 206-684-3000.

Ang tubig sa Seattle ay malinis, ligtas, at maging halaga ng wala pang isang sentimo ang bawat galon.
Para sa serbisyo ng tagapagpaliwanag, tumawag sa 206-684-3000.

Nguồn nước của Seattle sạch, an toàn và có giá chưa tới một xu một gallon.
Về dịch vụ phiên dịch xin gọi 206-684-3000.











세 에 투 의 수 톳 풀 은 깨끗 하 고 안전 하 며 또한 저 렬 합 니 다 .
통역 서비스를 원 하 시면 206-684-3000으로 전화 하 세요 .

西雅圖的水乾淨、安全，每加侖成本不到一分錢。
如需要口譯服務，請撥電話號碼206-684-3000

Biyaha Seattle waa nadiif, waa amaan, qiimahana waa ka jaban yahay hal senti halkii galan.
Wixii turbaanafka ah ku saabsan, Fadlan la soo xariir taleefoonka: 206-684-3000.

PRESORTED
STANDARD
US POSTAGE PAID
SEATTLE, WA
PERMIT NO. 6000

98168

FACILITY INFORMATION	AFS 	ACRES 	BR 	CERCLIS 	GHG 	PCS/ICIS 	RAD Info 	RCRA Info 	TRI 	TSCA 
-------------------------	---	---	--	--	---	--	---	--	---	--

144TH MACADAM
S 144TH ST &
MACADAM RD S
SEATTLE, WA
98168
Latitude:
47.474121
Longitude:
-122.27073

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View
Report](#)

2ND AVE DRUG
LAB SEATTLE
12836 2ND AVE S
SEATTLE, WA
98168-2634
Latitude: 47.48738
Longitude:
-122.33119

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View
Report](#)

7 ELEVEN FOOD
STORE
13456 1ST AVE S
SEATTLE, WA
98168-2625
Latitude:
47.483321
Longitude:
-122.334074

[Summary Report](#)

[View
Report](#)

Facility Report

Compliance Report

ABOUT TIME AUTO
REBUILD

1045 S 136TH ST
SEATTLE, WA
98168-2759

Latitude:

47.481314

Longitude:

-122.320393

Summary Report

Facility Report

Compliance Report

AERO METRIC INC
12652

INTERURBAN AVE
S SEATTLE, WA

98168-3314

Latitude: 47.48767

Longitude:

-122.2775

Summary Report

Facility Report

Compliance Report

AIRPORT WAY
DRUM

AIRPORT WAY S &
BOEING ACCESS
SEATTLE, WA

98168

Latitude:

47.507313

Longitude:

-122.286399

Summary Report

[View](#)
[Report](#)

[View](#)
[Report](#)

[View](#)
[Report](#)

[View](#)
[Report](#)

[Facility Report](#)
[Compliance Report](#)

AIRTRON INC
4479 S 134TH PL
TUKWILA, WA
98168-6204
Latitude:
47.484246
Longitude:
-122.27637

[Summary Report](#)
[Facility Report](#)
[Compliance Report](#)

ALASKA AIR
FORWARDING INC
4443 S 134TH PL
TUKWILA, WA
981686204
Latitude: 47.48488
Longitude:
-122.27697

[Summary Report](#)
[Facility Report](#)
[Compliance Report](#)

ALBERTSONS
#473
12725 1ST AVE S
BURIEN, WA 98168
Latitude: 47.48866
Longitude:
-122.33386

[Summary Report](#)
[Facility Report](#)
[Compliance Report](#)

AMERICAN

[View
Report](#)

[View
Report](#)

[View
Report](#)

[View
Report](#)

[View
Report](#)

[View](#)

MEDICAL
RESPONSE
13075 GATEWAY
DR STE 100
SEATTLE, WA
98168-3342
Latitude:
47.486503
Longitude:
-122.274518

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ANALYTICAL
RESOURCES INC
4611 S 134TH PL
TUKWILA, WA
98168
Latitude: 47.48374
Longitude:
-122.27554

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ATACS
PRODUCTS INC
INTERURBAN AVE
14040
INTERURBAN AVE
S TUKWILA, WA
98168-4723
Latitude:
47.477205
Longitude:
-122.260788

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AUTO SITE
AUTOMOTIVE
11803 DES
MOINES
MEMORIAL DR
SEATTLE, WA
981681242
Latitude: 47.49732
Longitude:
-122.3096

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AUTOPAINT & IND
SUPPLY INC
13437 1ST AVE S
SEATTLE, WA
98168-2624
Latitude: 47.48218
Longitude:
-122.33381

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BAY VALVE
SERVICE INC
TUKWILA
4385 S 133RD ST
TUKWILA, WA
98168-3284
Latitude: 47.48474
Longitude:
-122.27884

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Compliance Report

BBC DODGE INC
1ST AVE
14650 1ST AVE S
SEATTLE, WA
98168-3424
Latitude: 47.47099
Longitude:
-122.33384

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BECKER
TRUCKING INC
6350 SOUTH
143RD STREET
TUKWILA, WA
98168-4624
Latitude: 47.47527
Longitude:
-122.25592

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Compliance Report

BERKLEY
ENGINEERING
CONST
S 124TH ST & HWY
99 SEATTLE, WA
98168
Latitude:
47.492389
Longitude:
-122.291139

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BERNARD
IMPORTS INC
11020 E
MARGINAL WAY S
TUKWILA, WA
981681935
Latitude:
47.504373
Longitude:
-122.289776

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BERNARD
IMPORTS INC
TUKWILA
14100
INTERURBAN AVE
S TUKWILA, WA
98168-4614
Latitude:
47.476801
Longitude:
-122.260208

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BERT-WELL
INDUSTRIES INC
6411 S 143RD ST
TUKWILA, WA
98168
Latitude: 47.47516
Longitude:
-122.25471

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Compliance Report

BOB FOXS BURIEN

MAZDA

13803 1ST AVE S

BURIEN, WA

98168-3413

Latitude:

47.478372

Longitude:

-122.333822

Summary Report

Facility Report

Compliance Report

BOEING COMPANY

GATEWAY

12779 GATEWAY

DR TUKWILA, WA

98168-3308

Latitude:

47.488526

Longitude:

-122.273526

Summary Report

Facility Report

Compliance Report

BOEING COMPANY

SEATTLE

12687 GATEWAY

DR SEATTLE, WA

98168

Latitude:

47.488216

Longitude:

-122.276099

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BOEING
DUWAMISH
OFFICE PARK
2925 S 112TH
TUKWILA, WA
98168-1800
Latitude: 47.50298
Longitude:
-122.29566

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BOEING MILITARY
FLIGHT CENTER
10002 E
MARGINAL WAY S
SEATTLE, WA
98168
Latitude:
47.512601
Longitude:
-122.294004

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BOEING SPARES
DISTRIBUTION
CENTER SEATAC
2201 S 142ND ST
SEATAC, WA 98168
Latitude: 47.476
Longitude:
-122.30613

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BOULEVARD
PARK/SHELL
STATION
12666 DES
MOINES WAY
SOUTH SEATTLE,
WA 98168
Latitude: 47.48917
Longitude:
-122.31124

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Compliance Report

BOULEVARD
PARK/UNOCAL
STATION
11845 DES
MOINES
MEMORIAL DRIVE
SEATTLE, WA
98168
Latitude: 47.4964
Longitude:
-122.31036

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Compliance Report

BOWERS
MACHINE CO
13032
INTERURBAN AVE
S SEATTLE, WA
98168
Latitude: 47.4858
Longitude:

[View](#)
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-122.273

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BP ABANDONED
CONTAINER
10 FT W OF 13310
INTERURBAN AV
TUKWILA, WA
98168

Latitude:

47.484278

Longitude:

-122.271595

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BURIEN PARK
AND FLY
1244 S 140TH ST
BURIEN, WA 98168
Latitude: 47.47774
Longitude:
-122.31637

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BURIEN TOYOTA
CHEVROLET
COLLISION
REPAIR
225 S 140TH ST
SEATTLE, WA
98168
Latitude: 47.47771
Longitude:

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Report](#)

-122.33026

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C & D WELLS LLC

12677 E

MARGINAL WAY S

SEATTLE, WA

98168-2562

Latitude: 47.48885

Longitude:

-122.28371

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CARRIER

COMMERCIAL

SERVICES

3215 116TH ST

STE 133 TUKWILA,

WA 98168-1973

Latitude: 47.49986

Longitude:

-122.29239

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CASCADE VISTA

DRUMS

13823 1ST AVE S

SEATTLE, WA

98168-3436

Latitude:

47.480029

Longitude:

-122.334178

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Compliance Report

CHEVRON 306536
11845 DES
MOINES WAY
SOUTH SEATTLE,
WA 98168-1242
Latitude: 47.4964
Longitude:
-122.31036

**View
Report**

**View
Report**

Summary Report

Facility Report

Compliance Report

CHEVRON STA
6009 3099
10805 E
MARGINAL WAY
TUKWILA, WA
98168-1931
Latitude: 47.506
Longitude:
-122.291

**View
Report**

Summary Report

Facility Report

Compliance Report

CLIFF HOUSERS
AUTOMOTIVE
806 S 112TH ST
SEATTLE, WA
981682144
Latitude: 47.50306
Longitude:
-122.32279

**View
Report**

Summary Report

Facility Report

Compliance Report

CONOCOPHILLIPS

2701476

12660 1ST AVE S

SEATTLE, WA

98168

Latitude: 47.48889

Longitude:

-122.33385

Summary Report

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Report

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Report

CONOCOPHILLIPS

30115

14807 1ST AVE S

SEATTLE, WA

98168-3434

Latitude: 47.4701

Longitude:

-122.334

Summary Report

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Report

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Report

CONOCOPHILLIPS

30116

14415 PACIFIC

HWYS SEATTLE,

WA 98168-4324

Latitude: 47.4737

Longitude:

-122.285

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Report

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CONOCOPHILLIPS

30128

13310

INTERURBAN SE

TUKWILA, WA

98168-3328

Latitude: 47.4846

Longitude:

-122.271

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DOUGLAS

PRINTING LTD

14818 PACIFIC

HWY S SEATTLE,

WA 98168-4304

Latitude:

47.470294

Longitude:

-122.28659

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EARLS MACHINE

SHOP

13625 1ST AVE S

BURIEN, WA

981683403

Latitude: 47.48057

Longitude:

-122.33381

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EMERY

[View](#)

WORLDWIDE
14221 20TH AVE S
SEATTLE, WA
98168-3768
Latitude: 47.47574
Longitude:
-122.308028

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ENGSTROM
MACHINE WORKS
INC
6400 S 143RD PL
TUKWILA, WA
981684606
Latitude: 47.47442
Longitude:
-122.25496

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FARWEST PAINT
MANUFACTURING
CO
4522 S. 133RD ST.
TUKWILA, WA
98168
Latitude:
47.484942
Longitude:
-122.276863

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FOSTER SENIOR

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HIGH SCHOOL
4242 S 144TH ST
SEATTLE, WA
98168-4130
Latitude:
47.474218
Longitude:
-122.280597

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FOSTORIA PARK
INDUSTRIAL
CENTER
4400 BLK S 133RD
& S 134TH ST
TUKWILA, WA
981683280
Latitude: 47.4841
Longitude:
-122.242

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FRED MEYER
FUEL 28
14300 1ST
AVENUE SOUTH
SEATTLE, WA
98168-3400
Latitude: 47.4756
Longitude:
-122.333

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GATEWAY NORTH
3415 S 116TH ST
BLDG 5 SEATTLE,
WA 98168-1978

Latitude:

47.499511

Longitude:

-122.28777

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GENES ENGINE
HAUS
13847 MILITARY
RD S SEATTLE, WA
98168-3940

Latitude:

47.478924

Longitude:

-122.293992

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GEORGE HEISER
BODY CO INC
TUKWILA
11210 TUKWILA
INTERNATIONAL
BL TUKWILA, WA
98168-1945

Latitude: 47.50288

Longitude:

-122.29318

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GLEN GRANT
CHEVROLET INC
14400 1ST AVE S
SEATTLE, WA
98168-3433
Latitude: 47.47382
Longitude:
-122.33384

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GRAHAM
TRUCKING
10108 W
MARGINAL PL S
SEATTLE, WA
98168
Latitude: 47.51015
Longitude:
-122.30282

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GROUP HEALTH
COOPERATIVE
SEATTLE
12400 E
MARGINAL WAY S
SEATTLE, WA
98168-2559
Latitude: 47.4918
Longitude:
-122.28528

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GRUNDFOS CBS
INC
3215 S 116TH ST
STE 109 SEATTLE,
WA 98168-1973
Latitude: 47.49986
Longitude:
-122.29239

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GT DEVELOPMENT
CORP TUKWILA
6437 S 144TH ST
TUKWILA, WA
98168
Latitude:
47.473648
Longitude:
-122.25447

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HAYWARD BAKER
INC
11180 E
MARGINAL WAY S
TUWILA, WA 98168
Latitude: 47.50311
Longitude:
-122.289216

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HIGHLINE

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SPECIALTY
CENTER
12844 MILITARY
RD SW TUKWILA,
WA 98168-3045
Latitude:
47.488263
Longitude:
-122.297051

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HORIZON FORD
11000 PACIFIC
HWY S SEATTLE,
WA 98168-1942
Latitude: 47.5035
Longitude:
-122.293

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HSD HIGHLINE
BOULEVARD PARK
WAREHOUSE
12833 20TH AVE S
SEATTLE, WA
98168-2916
Latitude: 47.48825
Longitude:
-122.307472

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HUSKY

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INTERNATIONAL
TRUCKS
13123 48TH AVE S
TUKWILA, WA
98168-3305
Latitude: 47.4853
Longitude: -122.27

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HUSKY TRUCK
CENTER
11222 EAST
MARGINAL WAY S
TUKWILA, WA
98168-1954
Latitude: 47.50169
Longitude:
-122.28856

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I5 HWY 900 SPILL
I5 MP 157
NORTHBOUND AT
HWY 90 TUKWILA,
WA 98168
Latitude:
47.491139
Longitude:
-122.266694

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IKON OFFICE
SOLUTIONS

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12606
INTERURBAN AVE
S TUKWILA, WA
98168-3314
Latitude:
47.489258
Longitude:
-122.280183

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INGERSOLL RAND
11222 E
MARGINAL WAY S
N END OF BLDG
SEATTLE, WA
98168-1954
Latitude: 47.50169
Longitude:
-122.28856

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INTERURBAN
DRUG LAB
14800
INTERURBAN AVE
S TUKWILA, WA
98168-4620
Latitude: 47.4698
Longitude:
-122.25349

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INTERURBAN

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DRUM
14309
INTERURBAN AVE
S TUKWILA, WA
98168-4616
Latitude: 47.47502
Longitude:
-122.25717

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INTERURBAN
DRUM0188
INTERURBAN AVE
S & S 143RD ST
TUKWILA, WA
98168
Latitude:
47.475121
Longitude:
-122.25773

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INTERURBAN
OFFICE
WAREHOUSE
14600
INTERURBAN AVE
S TUKWILA, WA
98168
Latitude: 47.47152
Longitude:
-122.25395

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JOHN FARRELL
PROPERTY
AIRPORT WAY S
AND N OF BOEING
RD TUKWILA, WA
98168

Latitude:

47.508779

Longitude:

-122.283389

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JOHN H HARLAND
CO SEATTLE
3325 S 116TH ST
STE 161 SEATTLE,
WA 98168-1974

Latitude: 47.49951

Longitude:

-122.29159

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KAISER
DEVELOPMENT
CO
12855 48TH AVE S
SEATTLE, WA
98168-3301

Latitude: 47.48698

Longitude:

-122.26841

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KING CNTY DOT
METRO TRANSIT S
FACILITIE
11911 E
MARGINAL WAY S
SEATTLE, WA
98168-5122
Latitude: 47.49657
Longitude:
-122.28688

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KING CNTY DOT
METRO TRANSIT
SOUTH BASE
12100 12200 E
MARGINAL WAY S
SEATTLE, WA
98168-2580
Latitude:
47.494631
Longitude:
-122.286599

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KING CNTY
POLICE BURIE
14905 6TH AVE SW
SEATTLE, WA
98168
Latitude: 47.42325
Longitude:
-122.327417

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KING CNTY ROAD
DEPT BUR
13831 18TH AVE S
BURIEN, WA 98168
Latitude:
47.479147
Longitude:
-122.31058

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KING CNTY
TRANSIT SOUTH
BASE ANNEX
11911 E
MARGINAL WAY S
TUKWILA, WA
98168-5122
Latitude: 47.49657
Longitude:
-122.28688

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KING COUNTY
PARKS SUNSET &
TUB LAKE DUMP
13659 18TH AVE S
SEATTLE, WA
98168-3771
Latitude:
47.480303
Longitude:
-122.310224

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Facility Report

Compliance Report

KONICA
BUSINESS
MACHINES USA
14900
INTERURBAN AVE
S SEATTLE, WA
98168-4684
Latitude:
47.470786
Longitude:
-122.254362

Summary Report

Facility Report

Compliance Report

LARRYS UNIQUE
AUTOBODY
REBUILD
14836 1ST AVE S
SEATTLE, WA
98168-3441
Latitude:
47.470964
Longitude:
-122.334138

Summary Report

Facility Report

Compliance Report

LEES ONE HOUR
DRYCLEAN
14450 34TH AVE S
SEATTLE, WA
98168-4302
Latitude: 47.47295
Longitude:
-122.28974

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Compliance Report

LOWER
DUWAMISH
WATERWAY
RK 2.5 TO RK 10.8
SEATTLE, WA
98168
Latitude: 47.5378
Longitude:
-122.32789

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Compliance Report

MAACO AUTO
PAINTING
BODYWORKS
13646 1ST AVE S
SEATTLE, WA
98168-3404
Latitude: 47.47948
Longitude:
-122.33381

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Summary Report

Facility Report

Compliance Report

MACADAM
ABANDONED
PAINT
SE COR OF S
137TH & MACADAM
RD TUKWILA, WA
98168
Latitude:
47.480333

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Longitude:

-122.276833

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MACADAM ROAD

PAINT

13405 43RD AVE S

TUKWILA, WA

98168

Latitude: 47.48352

Longitude:

-122.27983

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MALINAK GRACE

S 149TH & DES

MOINES WAY S

SEATTLE, WA

98168

Latitude:

47.470111

Longitude:

-122.320083

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MEASUREMENT

SYSTEMS

INTERNATIONAL

INC

14240

INTERURBAN AVE

S SEATTLE, WA

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98168-4661

Latitude:

47.475624

Longitude:

-122.258502

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MEASUREMENT

SYSTEMS INTL

12622

INTERURBAN AVE

S SEATTLE, WA

98168-3314

Latitude: 47.48795

Longitude:

-122.27798

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METRO SOUTH

OPERATING BASE

12100 E

MARGINAL WAY S

SEATTLE, WA

98168-2580

Latitude: 47.49517

Longitude:

-122.2864

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MICROSOFT

CORPORATION II

3433 120TH

PLACE SOUTH

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TUKWILA, WA
98168-5101
Latitude:
47.495442
Longitude:
-122.289822

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MIKE AND LESLIE
CORPORATION
DBA CUTTING
SPECIALISTS
6400 S 143RD PL
TUKWILA, WA
98168-4606
Latitude: 47.47442
Longitude:
-122.25496

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Report](#)

MIKES AUSSIE
MACHINE SHOP
12441 DES
MOINES
MEMORIAL DR
SEATTLE, WA
98168
Latitude: 47.49078
Longitude:
-122.3104

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View](#)

MILLENNIUM

[View](#)

FORD INC
14600 AMBAUM
BLVD SW
SEATTLE, WA
98168
Latitude: 47.47176
Longitude:
-122.34712

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

Report

Report

NAPA AUTO PARTS
TUKWILA
14013 PACIFIC
HWY S TUKWILA,
WA 98168-4120
Latitude:
47.477811
Longitude:
-122.284026

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

View
Report

View
Report

NORTH STAR
TRANSPORT INC
SEATT
12455 PACIFIC
HWY S SEATTLE,
WA 98168-2567
Latitude:
47.489806
Longitude:
-122.291876

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

View
Report

NW TRANSPORT
SERVICE INC SEA
12855 48TH AVE S
SEATTLE, WA
98168-3301
Latitude: 47.48698
Longitude:
-122.26841

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View](#)
[Report](#)

ONYX
ENVIRONMENTAL
SERVICES LLC
6350 S 143RD ST
TRANSFER FACIL
TUKWILA, WA
98168-4624
Latitude: 47.47527
Longitude:
-122.25592

[Summary Report](#)

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[Compliance Report](#)

[View](#)
[Report](#)

[View](#)
[Report](#)

OSTERLY PARK
3429 S 144TH ST
TUKWILA, WA
98168
Latitude: 47.47429
Longitude:
-122.28833

[Summary Report](#)

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[Compliance Report](#)

[View](#)
[Report](#)

OVERNITE

[View](#)

TRANSP CO
12855 48TH AVE S
STE 450 TUKWILA,
WA 98168-3301
Latitude: 47.48698
Longitude:
-122.26841

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[Report](#)

PEASE
RESIDENCE
3550 S 116TH ST
TUKWILA, WA
98168-1948
Latitude:
47.499198
Longitude:
-122.288333

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View](#)
[Report](#)

PENSKE TRUCK
LEASING CO LP
TUKWILA
12840 48TH AVE S
TUKWILA, WA
98168
Latitude: 47.48769
Longitude:
-122.26751

[Summary Report](#)

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[Compliance Report](#)

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[Report](#)

[View](#)
[Report](#)

PERFORMANCE
AUTO

[View](#)
[Report](#)

14025 A 1ST AVE S
BURIEN, WA
98168-3415

Latitude:

47.476944

Longitude:

-122.335528

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

PURCELL
PAINTING &
COATINGS
6456 S 144TH ST
TUKWILA, WA
98168

Latitude:

47.473559

Longitude:

-122.253603

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

QUAKER STATE
MINIT LUBE INC 11
1ST AVE

13654 1ST AVE S

SEATTLE, WA

98168-3404

Latitude: 47.4796

Longitude:

-122.334

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

QUICK PRECISION
INC

[View
Report](#)

[View
Report](#)

[View
Report](#)

[View
Report](#)

[View
Report](#)

108 S 108TH
SEATTLE, WA
98168-1350
Latitude: 47.50675
Longitude:
-122.33312

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

R & J AUTOBODY
INC
10832 MYERS WAY
S SEATTLE, WA
98168
Latitude: 47.50602
Longitude:
-122.33294

[Summary Report](#)

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[View
Report](#)

RACON INC
12628
INTERURBAN AVE
S SEATTLE, WA
98168-3383
Latitude:
47.486078
Longitude:
-122.274969

[Summary Report](#)

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RELIABLE AUTO
MOTORS & USED
PARTS
14032

[View
Report](#)

INTERURBAN AV S
TUKWILA, WA
98168

Latitude:

47.477259

Longitude:

-122.260866

[Summary Report](#)

[Facility Report](#)

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RMC INC
10766 MYERS WAY
S SEATTLE, WA
98168

Latitude: 47.50693

Longitude:

-122.33064

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

ROAD RUNNER
FREIGHT SPILL
WASTE AT BECKE
6350 S 143RD ST
RR FREIGHT
TUKWILA, WA
98168-4624

Latitude: 47.47527

Longitude:

-122.25592

[Summary Report](#)

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ROSSOE INC
SEATTLE S 144TH
ST

[View
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[View
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S 144TH ST & DES
MOINES WAY
SEATTLE, WA
98168

Latitude:

47.473833

Longitude:

-122.31725

[Summary Report](#)

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[Compliance Report](#)

SAFCO
ENVIRONMENTAL
2212 S 144TH
SEATTLE, WA
98168

Latitude:

47.474414

Longitude:

-122.303954

[Summary Report](#)

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[Compliance Report](#)

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Report](#)

SCL CR-DU
TRANSMISSION
ROW

2925 S 112TH

TUKWILA, WA

98168

Latitude: 47.50298

Longitude:

-122.29566

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View
Report](#)

SEATTLE CITY

[View](#)

LIGHT DUWAMISH
TR
T23N R4E S4
SE1/4 WM
SEATTLE, WA
98168

Latitude: 47.51
Longitude:
-122.301972

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

SEATTLE
INDUSTRIAL
MOTOR &
MACHINE LLC
10831 EAST
MARGINAL WAY
SEATTLE, WA
98168-1931
Latitude: 47.50569
Longitude:
-122.29036

[Summary Report](#)

[Facility Report](#)

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SEATTLE PORT
NORTH BURIEN
HOMES
1024 S 147TH ST
BURIEN, WA 98168
Latitude: 47.47133
Longitude:
-122.31953

[Summary Report](#)

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[View](#)
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SEATTLE PUBLIC
UTILITIES BURIEN
PUMP STA
14602 8TH AVE S
BURIEN, WA 98168
Latitude: 47.47225
Longitude:
-122.323667

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View](#)
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SEATTLE WHITE
GMC
14000
INTERURBAN AVE
S SEATTLE, WA
98168-4723
Latitude: 47.47784
Longitude:
-122.2614

[Summary Report](#)

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[Compliance Report](#)

[View](#)
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SHELL OIL CO
DES MOINES
129596
12666 DES
MOINES WAY
SEATTLE, WA
98168
Latitude: 47.4889
Longitude:
-122.311

[Summary Report](#)

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[Compliance Report](#)

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SHELL STATION
120598
13138
INTERURBAN
AVENUE SOUTH
TUKWILA, WA
98168-3324
Latitude: 47.4844
Longitude:
-122.27186

[Summary Report](#)

[Facility Report](#)

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[Report](#)

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SHUTTLEPARK
INC
15667 PACIFIC
HWY S SEATAC,
WA 98168-0160
Latitude:
47.463188
Longitude:
-122.29026

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

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SIMVEST INC
6410 S 143RD ST
SEATTLE, WA
98168-4626
Latitude: 47.47516
Longitude:
-122.25469

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SIX ROBBLEES
INC
11010 PACIFIC
HWY S SEATTLE,
WA 98168-1942

Latitude:

47.503898

Longitude:

-122.292671

[Summary Report](#)

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SKBA BUDDHIST
TEMPLE
8TH AVE S & S
100TH ST
SEATTLE, WA
98168

Latitude: 47.51383

Longitude:

-122.32331

[Summary Report](#)

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SOIL SAFETY
PROGRAM-
SUNSET
PLAYFIELDS
13659 18TH AVE S
SEATAC, WA 98168

Latitude:

47.480303

Longitude:

-122.310224

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View](#)
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SOUTHGATE
FORD INC
14500 1ST AVE S
SEATTLE, WA
98168-3422
Latitude: 47.47273
Longitude:
-122.33384

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

SOUTHTOWNE
AUTO REBUILD
INC
14864 TUKWILA
INTERNATIONAL
BL TUKWILA, WA
98168-4329
Latitude: 47.469
Longitude:
-122.287

[Summary Report](#)

[Facility Report](#)

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SPIROS ALIAGAS
14638 PACIFIC
HWY S SEATTLE,
WA 98168-4327
Latitude:
47.471732
Longitude:
-122.285589

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SUBURBAN

[View](#)
[Report](#)

[View](#)
[Report](#)

[View](#)
[Report](#)

[View](#)
[Report](#)

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PROPANE
SEATTLE 2
12642
INTERURBAN AVE
S SEATTLE, WA
98168-3314
Latitude: 47.48839
Longitude:
-122.27873

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

SUDDEN
PRINTING INC
11009 1ST AVE S
SEATTLE, WA
981681401
Latitude:
47.503937
Longitude:
-122.33367

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

SWIFT
TRANSPORTATION
CO INC 124TH
3600 SOUTH
124TH STREET
SEATTLE, WA
98168-2532
Latitude: 47.49238
Longitude:
-122.28671

[Summary Report](#)

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Compliance Report

SYSTEM SEVEN
REPAIR INC
10831 TUKWILA
INTERNATION
BLVD SEATTLE,
WA 98168-1938
Latitude: 47.505
Longitude:
-122.29212

Summary Report

Facility Report

Compliance Report

TEXACO STATION
632320281
13435
INTERURBAN AV S
TUKWILA, WA
98168-3329
Latitude: 47.48277
Longitude:
-122.26901

Summary Report

Facility Report

Compliance Report

THALES AVIONICS
INC SEATTLE
2811 S 102ND ST
STE 100 SEATTLE,
WA 98168-1870
Latitude:
47.511544
Longitude:
-122.295631

Summary Report

Facility Report

[View](#)
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Compliance Report

TIRE
DISTRIBUTION
SYSTEMS
11011 PACIFIC
HWY S SEATTLE,
WA 98168-1941
Latitude:
47.504774
Longitude:
-122.292654

Summary Report

Facility Report

Compliance Report

[View](#)
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TOP AUTO INC
SEATTLE 1ST AVE
S
14302 1ST AVE S
SEATTLE, WA
98168
Latitude: 47.47564
Longitude:
-122.334138

Summary Report

Facility Report

Compliance Report

[View](#)
[Report](#)

TR EQUIPMENT
SERVICES
TUKWILA
4712 S 134TH ST
TUKWILA, WA
98168-3239
Latitude:
47.482942
Longitude:
-122.274168

[View](#)
[Report](#)

Summary Report

Facility Report

Compliance Report

TRIAD MACHINERY
INC TUKWILA
11210 PACIFIC
HIGHWAY SOUTH
TUKWILA, WA
98168-1945
Latitude:
47.502902
Longitude:
-122.293171

**View
Report**

**View
Report**

Summary Report

Facility Report

Compliance Report

TRUGREEN
LANDCARE
14420 DES
MOINES
MEMORIAL DR
SEATAC, WA
981683721
Latitude: 47.47362
Longitude:
-122.31552

**View
Report**

**View
Report**

Summary Report

Facility Report

Compliance Report

TUKWILA
CONTAINER
NE COR S 114TH
ST & 49TH AVE S
TUKWILA, WA
98168
Latitude:

**View
Report**

47.501083

Longitude:

-122.275139

[Summary Report](#)

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[Compliance Report](#)

TUKWILA OIL

WASTE

N SIDE S 115TH

ST TUKWILA, WA

98168

Latitude:

47.500917

Longitude:

-122.288667

[Summary Report](#)

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TUKWILA SCHOOL

DIST

4628 S 144TH ST

TUKWILA, WA

98168

Latitude:

47.474167

Longitude:

-122.276556

[Summary Report](#)

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TUKWILA

TOLUENE

3800 BLOCK S

115TH S SIDE OF

S TUKWILA, WA

98168

[View](#)

[Report](#)

Latitude:

47.500944

Longitude:

-122.288028

[Summary Report](#)

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[Compliance Report](#)

U HAUL CO OF
BURIEN

13645 1ST AVE S

SEATTLE, WA

98168-3403

Latitude: 47.47976

Longitude:

-122.33381

[Summary Report](#)

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[View
Report](#)

UNITED

CONSTRUCTION

SUPPLY 134TH ST

4600 S 134TH ST

TUKWILA, WA

98168-3241

Latitude:

47.483542

Longitude:

-122.2752

[Summary Report](#)

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[Compliance Report](#)

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Report](#)

UNITED MOTORS

13911 PACIFIC

HWY S TUKWILA,

WA 98168-3149

Latitude:

[View
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47.478696
Longitude:
-122.284428

- Summary Report
- Facility Report
- Compliance Report

UNITED
TECHNOLOGIES
OTIS ELEVATOR
13035 GATEWAY
DR STE 157
SEATTLE, WA
98168-3396
Latitude:
47.488773
Longitude:
-122.277079

- Summary Report
- Facility Report
- Compliance Report

[View](#)
[Report](#)

UPS FREIGHT
11231 E
MARGINAL WAY S
TUKWILA, WA
98168
Latitude: 47.5017
Longitude:
-122.28856

- Summary Report
- Facility Report
- Compliance Report

[View](#)
[Report](#)

[View](#)
[Report](#)

[View](#)
[Report](#)

US DOJ DEAKENT
TRAINING
2450 S 142ND
SEATTLE, WA
98168-3840

[View](#)
[Report](#)

Latitude:
47.476006
Longitude:
-122.302179

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View
Report](#)

US POSTAL
SERVICE
SEATTLE
PROCESSING &
DISTRIBUT
SEATTLE, WA
981681844

Latitude:
47.506444
Longitude:
-122.298639

[Summary Report](#)

[Facility Report](#)

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USPS SEATTLE
P&DC
10700 27TH
AVENUE SOUTH
SEATTLE, WA
98168-1884
Latitude: 47.5088
Longitude:
-122.30045

[View
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[View
Report](#)

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USWCOM
SEATTLE CHERRY
CO

[View
Report](#)

14605 8TH AVE S
SEATTLE, WA
98168-3612
Latitude: 47.47201
Longitude:
-122.32343

[Summary Report](#)

[Facility Report](#)

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VANGUARD CAR
RENTAL USA
2006 S 146TH ST
SEATTLE, WA
98168-3718
Latitude: 47.47239
Longitude:
-122.30634

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View
Report](#)

WAECY
INTERURBAN AVE
SPILL
13500
INTERURBAN AVE
S TUKWILA, WA
98168-3332
Latitude: 47.48094
Longitude:
-122.26594

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

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Report](#)

WALTS RADIATOR
& MUFFLER 1ST
AVE S

[View
Report](#)

14653 1ST AVE S
SEATTLE, WA
98168

Latitude:
47.471333
Longitude:
-122.33384

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

WASHINGTON
MECHANICAL
CONTRACT
13800 PACIFIC
HWY S SEATTLE,
WA 98168-3169

Latitude:
47.480112
Longitude:
-122.285058

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View
Report](#)

WELLS TRUCKING
12677 E
MARGINAL WAY S
EDGMON& SON
SEATTLE, WA
98168-2562

Latitude: 47.48885
Longitude:
-122.28371

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

[View
Report](#)

WESTERN

[View](#)

CASCADE TRUCK
INC
6440 S 143RD ST
TUKWILA, WA
98168
Latitude: 47.4751
Longitude:
-122.254

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

WINGFOOT
12115 E
MARGINAL WAY S
SEATTLE, WA
98168-2579
Latitude: 47.49449
Longitude:
-122.28618

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

XTRA LEASE
SEATTLE BRANCH
10180 W
MARGINAL PL S
SEATTLE, WA
98168
Latitude: 47.50913
Longitude:
-122.30111

[Summary Report](#)

[Facility Report](#)

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YELLOW
TRANSPORTATION

[View](#)
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[Report](#)

[View](#)
[Report](#)

[View](#)
[Report](#)

[View](#)
[Report](#)

[View](#)
[Report](#)

INC SEATTLE
12855 48TH S
SEATTLE, WA
98168-3301
Latitude: 47.48698
Longitude:
-122.26841

[Summary Report](#)

[Facility Report](#)

[Compliance Report](#)

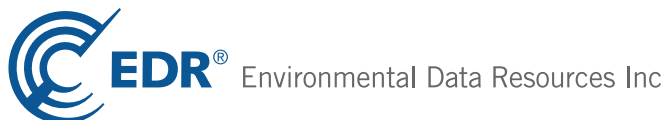
Appendix J:

Environmental Database

12807 Des Moines Way, South
12807 Des Moines Way, South
Seattle, WA 98168

Inquiry Number: 4021523.12s
July 30, 2014

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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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

12807 DES MOINES WAY, SOUTH
SEATTLE, WA 98168

COORDINATES

Latitude (North): 47.4883000 - 47° 29' 17.88"
Longitude (West): 122.3122000 - 122° 18' 43.92"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 551813.6
UTM Y (Meters): 5259440.0
Elevation: 375 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 47122-D3 DES MOINES, WA
Most Recent Revision: 1995

North Map: 47122-E3 SEATTLE SOUTH, WA
Most Recent Revision: 1983

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20110826
Source: USDA

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
PETROSUN 1284 12807 DES MOINES MEMORIAL DR SEATTLE, WA	RGA LUST	N/A
HUDSON OIL 12807 DES MOINES WAY SEATTLE, WA	EDR US Hist Auto Stat	N/A
JACKPOT STATION 284 12807 DES MOINES WY S SEATTLE, WA	RGA LUST	N/A

EXECUTIVE SUMMARY

FOOD MART 284 12807 DES MOINES WY S SEATTLE, WA	RGA LUST	N/A
TIME OIL 01-284 12807 DES MOINES MEMORIAL DR S SEATTLE, WA	RGA LUST	N/A
PETROSUN #1284 12807 DES MOINES MEMORIAL DR SEATTLE, WA	RGA LUST	N/A
FOOD MART # 284 12807 DES MOINES WAY SOUTH SEATTLE, WA	FINDS	N/A
PETROSUN #1284 12807 DES MOINES WY SEATTLE, WA 98148	Financial Assurance	N/A
TIME OIL #01 284 12807 DES MOINES WAY S. SEATTLE, WA 98168	ICR	N/A
JACKPOT STATION 284 12807 DES MOINES MEMORIAL DR S SEATTLE, WA	FINDS CSCSL ALLSITES LUST UST	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

EXECUTIVE SUMMARY

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

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

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

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

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

State and tribal institutional control / engineering control registries

INST CONTROL..... Institutional Control Site List

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Sites Listing

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

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

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
CDL..... Clandestine Drug Lab Contaminated Site List
HIST CDL..... List of Sites Contaminated by Clandestine Drug Labs
US HIST 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

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database
RAATS..... RCRA Administrative Action Tracking System
RMP..... Risk Management Plans
UIC..... Underground Injection Wells Listing

EXECUTIVE SUMMARY

MANIFEST.....	Hazardous Waste Manifest Data
DRYCLEANERS.....	Drycleaner List
NPDES.....	Water Quality Permit System Data
AIRS.....	Washington Emissions Data System
Inactive Drycleaners.....	Inactive Drycleaners
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
2020 COR ACTION.....	2020 Corrective Action Program List
LEAD SMELTERS.....	Lead Smelter Sites
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH.....	Coal Ash Disposal Site Listing
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
PRP.....	Potentially Responsible Parties
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR US Hist Cleaners.....	EDR Exclusive Historic Dry Cleaners

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.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS

EXECUTIVE SUMMARY

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 this 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. This 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 a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SUNSET PARK - TUB LAKE SITE	S 136TH & 18TH AV S	S 1/4 - 1/2 (0.468 mi.)	D28	67

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 02/26/2014 has revealed that there are 4 HSL sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BURIEN CITY OF RIGHT OF WAY Facility Type: Hazardous Sites List	SW 128TH ST	W 1/2 - 1 (0.999 mi.)	E38	189

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SUNSET PARK Facility Type: Hazardous Sites List	13659 18TH AVE S	S 1/2 - 1 (0.505 mi.)	D30	68
KING CNTY ROAD DEPT BUR Facility Type: Hazardous Sites List	13831 18TH AVE S	S 1/2 - 1 (0.612 mi.)	32	110
JOES INCORPORATED Facility Type: Hazardous Sites List	14260 DES MOINES MEMORI	S 1/2 - 1 (0.886 mi.)	33	115

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 04/22/2014 has revealed that there are 11 CSCSL sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CONOCOPHILLIPS 2701476	12660 1ST AVE S	W 1/2 - 1 (0.997 mi.)	E37	142
BURIEN CITY OF RIGHT OF WAY	SW 128TH ST	W 1/2 - 1 (0.999 mi.)	E38	189
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GOLD CO	12459 DES MOINES WAY S	NNE 1/8 - 1/4 (0.184 mi.)	B17	39

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GERALD RICHARDS	12666 DES MOINES WAY	NNE 1/8 - 1/4 (0.231 mi.)	C25	58
SUNSET PARK	13659 18TH AVE S	S 1/2 - 1 (0.505 mi.)	D30	68
CHEVRON 306536	11845 DES MOINES WAY S	N 1/2 - 1 (0.573 mi.)	31	83
KING CNTY ROAD DEPT BUR	13831 18TH AVE S	S 1/2 - 1 (0.612 mi.)	32	110
JOES INCORPORATED	14260 DES MOINES MEMORI	S 1/2 - 1 (0.886 mi.)	33	115
SKAGIT CARDLOCK SYSTEMS	1423 S 144TH	S 1/2 - 1 (0.966 mi.)	34	126
SABEY HOMELAND SECURITY BLDG	12500 TUKWILA INTERNATI	E 1/2 - 1 (0.976 mi.)	35	131
DUWAMISH FILL SITE DOT	S 124TH ST & SR 99	ENE 1/2 - 1 (0.980 mi.)	36	139

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, and dated 05/20/2014 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GOLD CO	12459 DES MOINES WAY S	NNE 1/8 - 1/4 (0.184 mi.)	B17	39
GERALD RICHARDS	12666 DES MOINES WAY	NNE 1/8 - 1/4 (0.231 mi.)	C25	58

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 06/30/2014 has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PACIFIC UNDERWRITERS CORPORATI	12611 DES MOINES MEMORI	NNE 0 - 1/8 (0.099 mi.)	12	30
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BLAKLEY BROTHERS INC	1407 SO 129TH ST	WSW 0 - 1/8 (0.094 mi.)	11	29
GLENDAL HEATING & AIR CONDITI	12462 DES MOINES WAY S	NNE 1/8 - 1/4 (0.182 mi.)	B15	33
GOLD CO	12459 DES MOINES WAY S	NNE 1/8 - 1/4 (0.184 mi.)	B17	39
GERALD RICHARDS	12666 DES MOINES WAY	NNE 1/8 - 1/4 (0.231 mi.)	C25	58

State and tribal voluntary cleanup sites

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 04/22/2014 has revealed that there are 2 VCP

EXECUTIVE SUMMARY

sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MIKES AUSSIE MACHINE SHOP	12441 DES MOINES MEMORI	NNE 1/8 - 1/4 (0.194 mi.)	B22	48
GERALD RICHARDS	12666 DES MOINES WAY	NNE 1/8 - 1/4 (0.231 mi.)	C25	58

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 is 1 ICR site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BOULEVARD PARK/SHELL STATION	12666 DES MOINES WAY SO	N 0 - 1/8 (0.100 mi.)	13	31

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 05/06/2014 has revealed that there are 11 ALLSITES sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PACIFIC UNDERWRITERS CORPORATI	12611 DES MOINES MEMORI	NNE 0 - 1/8 (0.099 mi.)	12	30
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BLAKLEY BROTHERS INC	1407 SO 129TH ST	WSW 0 - 1/8 (0.094 mi.)	11	29
GLENDALE HEATING & AIR CONDITI	12462 DES MOINES WAY S	NNE 1/8 - 1/4 (0.182 mi.)	B15	33
GOLD CO	12459 DES MOINES WAY S	NNE 1/8 - 1/4 (0.184 mi.)	B17	39
JOES AUSSIE REPAIR	12454 DES MOINES MEMORI	NNE 1/8 - 1/4 (0.187 mi.)	B18	44
AUSSIE MACHINE INE	12446 DES MOINES MEMORI	NNE 1/8 - 1/4 (0.191 mi.)	B20	46
MIKES AUSSIE MACHINE SHOP	12441 DES MOINES MEMORI	NNE 1/8 - 1/4 (0.194 mi.)	B22	48
HSD HIGHLINE BOULEVARD PARK WA	12833 20TH AVE S	E 1/8 - 1/4 (0.204 mi.)	23	56
GERALD RICHARDS	12666 DES MOINES WAY	NNE 1/8 - 1/4 (0.231 mi.)	C25	58
JONES PROPERTY	12441 20TH AVE S	NE 1/4 - 1/2 (0.259 mi.)	27	66
SUNSET PARK SOCCER FIELD RENOV	136TH ST BW 16TH & 18TH	S 1/4 - 1/2 (0.468 mi.)	D29	68

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 04/22/2014 has revealed that there are

EXECUTIVE SUMMARY

2 CSCSL NFA sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MIKES AUSSIE MACHINE SHOP	12441 DES MOINES MEMORI	NNE 1/8 - 1/4 (0.194 mi.)	B22	48
JONES PROPERTY	12441 20TH AVE S	NE 1/4 - 1/2 (0.259 mi.)	27	66

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 03/11/2014 has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BOULEVARD PARK/SHELL STATION	12666 DES MOINES WAY SO	N 0 - 1/8 (0.100 mi.)	13	31
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MIKES AUSSIE MACHINE SHOP	12441 DES MOINES MEMORI	NNE 1/8 - 1/4 (0.194 mi.)	B22	48
HSD HIGHLINE BOULEVARD PARK WA	12833 20TH AVE S	E 1/8 - 1/4 (0.204 mi.)	23	56

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: 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 US Hist Auto Stat list, as provided by EDR, has revealed that there are 6 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

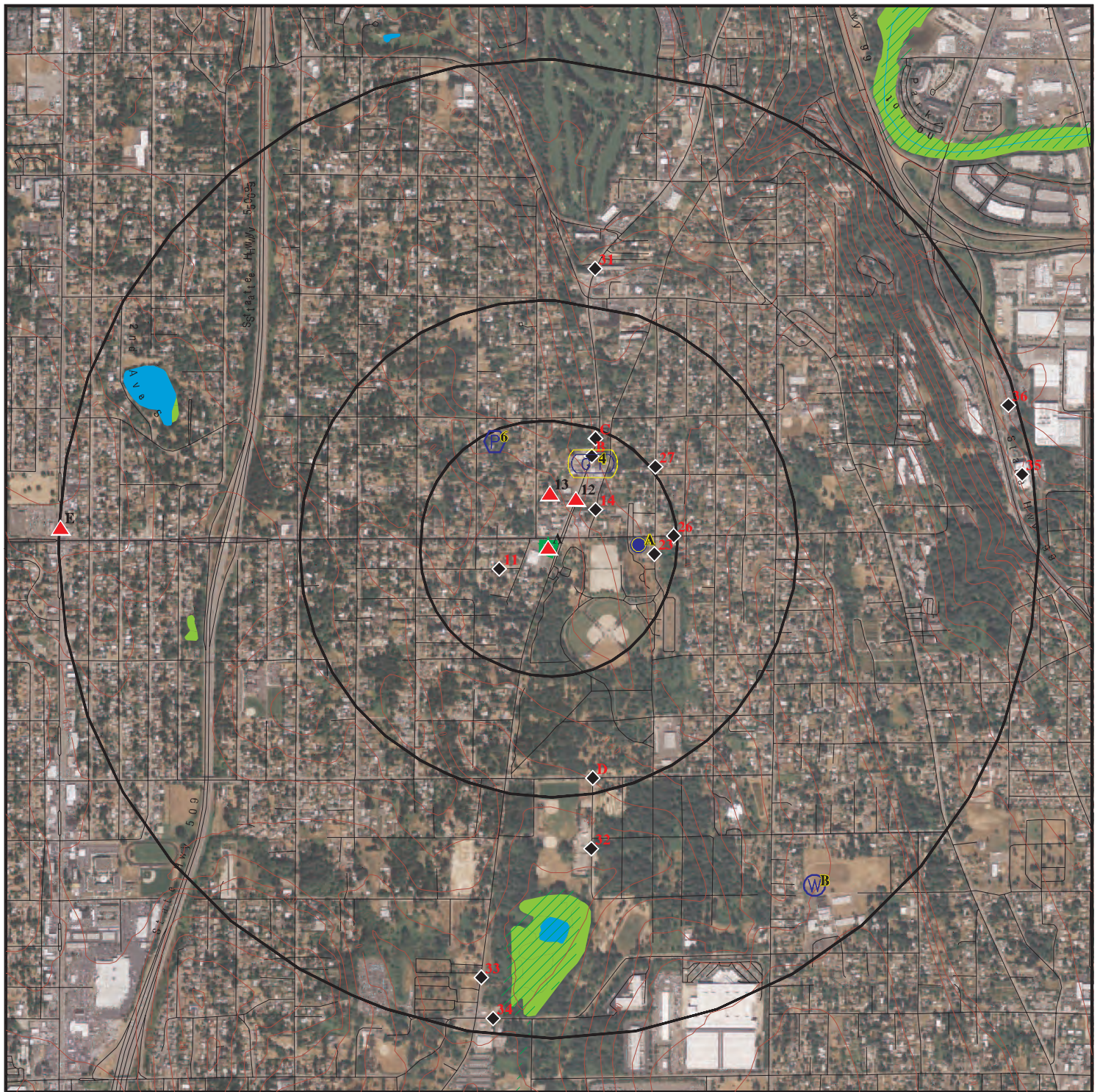
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	12611 ROSEBERG AVE S	NE 0 - 1/8 (0.107 mi.)	14	33
Not reported	12459 DES MOINES MEMOR	NNE 1/8 - 1/4 (0.184 mi.)	B16	38
Not reported	12454 DES MOINES MEMOR	NNE 1/8 - 1/4 (0.187 mi.)	B19	46
Not reported	12441 DES MOINES MEMOR	NNE 1/8 - 1/4 (0.194 mi.)	B21	47
BOULEVARD AUTO SERVICE	12459 DES MOINES WAY	NNE 1/8 - 1/4 (0.230 mi.)	C24	58
Not reported	2020 S 128TH ST	E 1/8 - 1/4 (0.243 mi.)	26	66

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

<u>Site Name</u>	<u>Database(s)</u>
SPU HIGHLINE WELL BOULEVARD PK	FINDS, ALLSITES
SEA TAC INTERNATIONAL AIRPORT PACI	FINDS, CSCSL, ALLSITES, CSCSL
BERKLEY ENGINEERING CONST	NFA, LUST, UST
KING COUNTY STREET SWEEPING SITE	RCRA NonGen / NLR, ALLSITES
WA DOT ALASKAN WAY VIADUCT PROJECT	ALLSITES, CSCSL NFA, VCP
JOSEPH B MEDER	FINDS, ALLSITES, MANIFEST
UPRR DIAGONAL AVE S SPUR	FINDS, ALLSITES, UST
CROWN HILL	FINDS, CSCSL, ALLSITES, LUST,
EDWARD R HOFFER	UST
I5 HWY 900 SPILL	FINDS, ALLSITES, CSCSL NFA, VCP
SEATTLE FREIGHT SERVICE INC SR 599	FINDS, CSCSL, ALLSITES, LUST,
AIRPORT WAY DRUM	UST
BRIDLE TRAILS SOUTH WATER SYSTEM	ALLSITES
DES MOINES SOC 070827	RCRA NonGen / NLR
DISCOVERY PARK GOVERNMENT WAY	RCRA NonGen / NLR
ARCO LAKE CITY WAY	ICIS, FINDS
SOUTH SEATTLE COMM. COLLEGE	FINDS
10004D RIGHT OF WAY	FINDS
KINGDOM SOUTH PARKING LOT	FINDS
LARRY'S MARKET	FINDS
	ICR

overview MAP - 4021523.12s



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

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

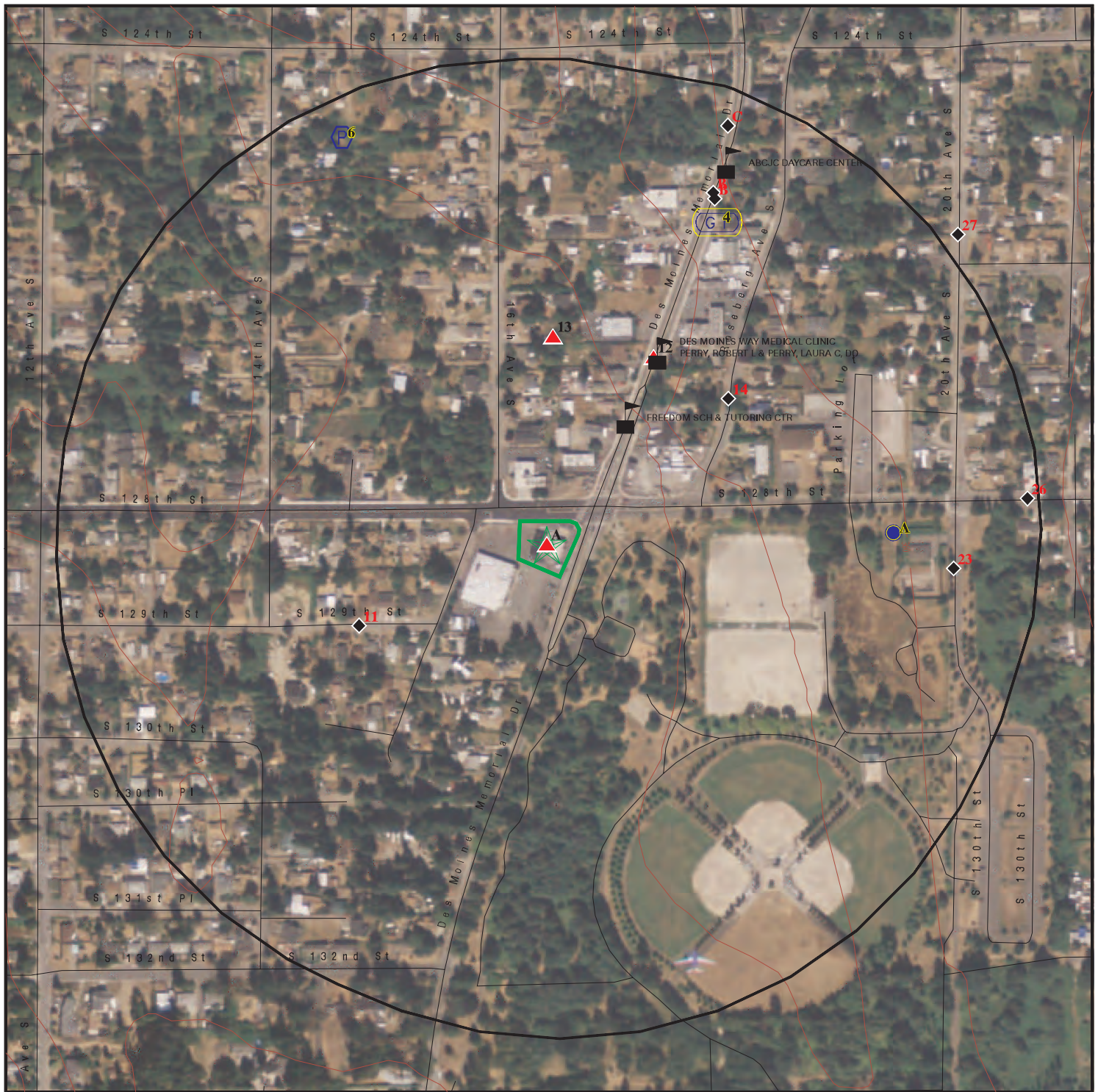
0 1/4 1/2 1 Miles








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: 12807 Des Moines Way, South
ADDRESS: 12807 Des Moines Way, South
Seattle WA 98168
LAT/LONG: 47.4883 / 122.3122

CLIENT: Property Solutions, Inc.
CONTACT: Greg Hillebrand
INQUIRY #: 4021523.12s
DATE: July 30, 2014 11:51 am

detail MAP - 4021523.12s



-  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
-  Oil & Gas pipelines from USGS
-  100-year flood zone
-  500-year flood zone

0 1/16 1/8 1/4 Miles



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: 12807 Des Moines Way, South
ADDRESS: 12807 Des Moines Way, South
Seattle WA 98168
LAT/LONG: 47.4883 / 122.3122

CLIENT: Property Solutions, Inc.
CONTACT: Greg Hillebrand
INQUIRY #: 4021523.12s
DATE: July 30, 2014 11:53 am

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								
<i>Federal NPL site list</i>								
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
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	0	1	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
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
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
HSL	1.000		0	0	0	4	NR	4
<i>State- and tribal - equivalent CERCLIS</i>								
CSCSL	1.000	1	0	2	0	9	NR	12
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500	1	0	2	0	NR	NR	3

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								
UST	0.250	1	2	3	NR	NR	NR	6
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA 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								
VCP	0.500		0	2	0	NR	NR	2
ICR	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								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
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
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500	1	2	7	2	NR	NR	12
CSCSL NFA	0.500		0	1	1	NR	NR	2
CDL	TP		NR	NR	NR	NR	NR	0
HIST CDL	TP		NR	NR	NR	NR	NR	0
US HIST 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
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	2	NR	NR	NR	3

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
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	2	NR	NR	NR	NR	NR	2
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
Inactive Drycleaners	0.250		0	0	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP	1	NR	NR	NR	NR	NR	1
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	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
EDR US Hist Auto Stat	0.250	1	1	5	NR	NR	NR	7
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	TP		NR	NR	NR	NR	NR	0
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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
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP	5	NR	NR	NR	NR	NR	5

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property **PETROSUN 1284**
 12807 DES MOINES MEMORIAL DR
 SEATTLE, WA

RGA LUST **S115440786**
 N/A

Site 1 of 10 in cluster A

Actual:
375 ft.

RGA LUST:

2010	PETROSUN 1284	12807 DES MOINES MEMORIAL DR
2009	PETROSUN 1284	12807 DES MOINES MEMORIAL DR

A2
Target
Property **HUDSON OIL**
 12807 DES MOINES WAY
 SEATTLE, WA

EDR US Hist Auto Stat **1009614186**
 N/A

Site 2 of 10 in cluster A

Actual:
375 ft.

EDR Historical Auto Stations:

Name: HUDSON SELF SERVICE
Year: 1977
Type: Gasoline Stations

Name: HUDSON OIL
Year: 1980
Type: Gasoline Stations

Name: HUDSON OIL
Year: 1985
Type: Gasoline Stations

A3
Target
Property **JACKPOT STATION 284**
 12807 DES MOINES WY S
 SEATTLE, WA

RGA LUST **S115436793**
 N/A

Site 3 of 10 in cluster A

Actual:
375 ft.

RGA LUST:

2003	JACKPOT STATION 284	12807 DES MOINES WY S
2002	JACKPOT STATION 284	12807 DES MOINES WY S
2001	JACKPOT STATION 284	12807 DES MOINES WY S
2000	JACKPOT STATION 284	12807 DES MOINES WY S

A4
Target
Property **FOOD MART 284**
 12807 DES MOINES WY S
 SEATTLE, WA

RGA LUST **S115435021**
 N/A

Site 4 of 10 in cluster A

Actual:
375 ft.

RGA LUST:

2007	FOOD MART 284	12807 DES MOINES WY S
2006	FOOD MART 284	12807 DES MOINES WY S
2005	FOOD MART 284	12807 DES MOINES WY S
2004	FOOD MART 284	12807 DES MOINES WY S

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A5
Target
Property
TIME OIL 01-284
12807 DES MOINES MEMORIAL DR S
SEATTLE, WA

RGA LUST **S115445350**
N/A

Site 5 of 10 in cluster A

Actual:
375 ft.

RGA LUST:

2012 TIME OIL 01-284 12807 DES MOINES MEMORIAL DR S
2011 TIME OIL 01-284 12807 DES MOINES MEMORIAL DR S

A6
Target
Property
PETROSUN #1284
12807 DES MOINES MEMORIAL DR
SEATTLE, WA

RGA LUST **S115440765**
N/A

Site 6 of 10 in cluster A

Actual:
375 ft.

RGA LUST:

2008 PETROSUN #1284 12807 DES MOINES MEMORIAL DR

A7
Target
Property
FOOD MART # 284
12807 DES MOINES WAY SOUTH
SEATTLE, WA

FINDS **1010155107**
N/A

Site 7 of 10 in cluster A

Actual:
375 ft.

FINDS:

Registry ID: 110030462470

Environmental Interest/Information System

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.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A8
Target
Property

PETROSUN #1284
12807 DES MOINES WY
SEATTLE, WA 98148

Financial Assurance

S108024544
N/A

Site 8 of 10 in cluster A

Actual:
375 ft.

WA Financial Assurance 1:
edr_fstat: WA
edr_fzip: 98148
edr_fcnty: Not reported
edr_zip: Not reported
DOE Site ID: 4050
Site Type: PLIA
Financial Resp Type: Colony (GUS)
Inception Date: 11/14/2009
Expiration Date: 11/14/2010

A9
Target
Property

TIME OIL #01 284
12807 DES MOINES WAY S.
SEATTLE, WA 98168

ICR S104487749
N/A

Site 9 of 10 in cluster A

Actual:
375 ft.

ICR:
Date Ecology Received Report: 10/27/93
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: 93-17
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 05/24/91
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Not reported
Site Register Issue: 91-30
County Code: 17
Contact: Not reported
Report Title: Not reported

A10
Target
Property

JACKPOT STATION 284
12807 DES MOINES MEMORIAL DR S
SEATTLE, WA

FINDS
CSCSL
ALLSITES
LUST
UST

1007070469
N/A

Site 10 of 10 in cluster A

Actual:
375 ft.

FINDS:
Registry ID: 110015470792

Environmental Interest/Information System
Washington Facility / Site Identification System (WA-FSIS) provides a

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

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.

CSCSL:

Facility ID: 45191292
Region: Northwest
Lat/Long: 47.488444444444 / -122.3120833333
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 9267
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Benzene
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: 45191292
Region: Northwest
Lat/Long: 47.488444444444 / -122.3120833333
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 9267
Site Status: Cleanup Started
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: 45191292
Region: Northwest
Lat/Long: 47.488444444444 / -122.3120833333
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 9267
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Responsible Unit: Northwest

Facility ID: 45191292
Region: Northwest
Lat/Long: 47.488444444444 / -122.3120833333
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 9267
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

Facility ID: 45191292
Region: Northwest
Lat/Long: 47.488444444444 / -122.3120833333
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 9267
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

ALLSITES:

Facility Id: 45191292
Latitude: 47.4884444
Longitude: -122.31208
Ecology Interest Type Code: UST
Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: I
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: CRK000014360
Date Interaction: 01/01/1990
Date Interaction 3: 01/01/1990

Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: A
Interaction 1: LUST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	4050
Date Interaction:	12/21/1990
Date Interaction 3:	12/21/1990
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	CONVENIENCE RETAILERS 2840
Program ID:	4050
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility Id:	45191292
Latitude:	47.4884444
Longitude:	-122.31208
Ecology Interest Type Code:	TIER2
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	I
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	CRK000014360
Date Interaction:	01/01/1990
Date Interaction 3:	01/01/1990
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	4050
Date Interaction:	12/21/1990
Date Interaction 3:	12/21/1990
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 12/16/2009
Date Interaction 3: 12/16/2009

Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 12/16/2009
Date Interaction 3: 12/16/2009

Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 12/16/2009
Date Interaction 3: 12/16/2009

Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 12/16/2009
Date Interaction 3: 12/16/2009

Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	CONVENIENCE RETAILERS 2840
Program ID:	4050
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility Id:	45191292
Latitude:	47.4884444
Longitude:	-122.31208
Ecology Interest Type Code:	ENFORFNL
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	I
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	CRK000014360
Date Interaction:	01/01/1990
Date Interaction 3:	01/01/1990
Facility ID:	45191292

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	4050
Date Interaction:	12/21/1990
Date Interaction 3:	12/21/1990
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	CONVENIENCE RETAILERS 2840
Program ID:	4050
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility Id:	45191292
Latitude:	47.4884444
Longitude:	-122.31208
Ecology Interest Type Code:	LUST
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	I
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	CRK000014360
Date Interaction:	01/01/1990
Date Interaction 3:	01/01/1990

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 4050
Date Interaction: 12/21/1990
Date Interaction 3: 12/21/1990

Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 12/16/2009
Date Interaction 3: 12/16/2009

Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 12/16/2009
Date Interaction 3: 12/16/2009

Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 12/16/2009
Date Interaction 3: 12/16/2009

Facility ID: 45191292
Facility Company: JACKPOT STATION 284
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	12/16/2009
Date Interaction 3:	12/16/2009
Facility ID:	45191292
Facility Company:	JACKPOT STATION 284
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	CONVENIENCE RETAILERS 2840
Program ID:	4050
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000

LUST:

Facility ID:	45191292
Facility Status:	Cleanup Started
Cleanup Site ID:	9267
Cleanup Unit Type:	Upland
Process Type:	Independent Action
Alternate Name:	TIME OIL 01-284
Release Status Date:	06/01/1995
Site Response Unit Code:	Northwest
Lat/Long:	47.4884444 / -122.31208

UST:

Facility ID:	45191292
--------------	----------

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Site Id: 4050
UBI: 6027835240010091
Phone Number: 9258840800
Decimal Latitude: 47.48844444
Decimal Longitude: -122.3120833

Tank Name: 1
Tag Number: A0044
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: 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: 2
Tag Number: A0044
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: 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Pipe Pumping System: Not reported
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 261
Tag Number: A0044
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: 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: Not reported
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 364
Tag Number: A0044
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: 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: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 425
Tag Number: A0044
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/04/1991
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 11/30/2014
Tank Upgrade Date: 11/20/1990
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)
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: Interstitial Monitoring
Tank SFC Type: Sump
Pipe Material: Fiberglass
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Safe Suction (No Leak Detection)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Pipe Pumping System: Safe Suction
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Sump

Tank Name: 428
Tag Number: A0044
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: 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKPOT STATION 284 (Continued)

1007070469

Dispencer/Pump SFC Type: Not reported

Tank Name: 429
Tag Number: A0044
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/04/1991
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 11/30/2014
Tank Upgrade Date: 11/20/1990
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)
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: Interstitial Monitoring
Tank SFC Type: Sump
Pipe Material: Fiberglass
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Safe Suction (No Leak Detection)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Pipe Pumping System: Safe Suction
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Sump

Tank Name: 430
Tag Number: A0044
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/04/1991
Tank Closure Date: Not reported
Capacity Range: 5,000 to 9,999 Gallons
Tank Permit Expiration Date: 11/30/2014
Tank Upgrade Date: 11/20/1990
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)
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: Interstitial Monitoring
Tank SFC Type: Sump
Pipe Material: Fiberglass
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Safe Suction (No Leak Detection)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Pipe Pumping System: Safe Suction
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Sump

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

11
WSW
< 1/8
0.094 mi.
494 ft.

BLAKLEY BROTHERS INC
1407 SO 129TH ST
SEATTLE, WA 98168

ALLSITES
UST

U003027512
N/A

Relative:
Lower

ALLSITES:

Facility Id: 99859969
Latitude: 47.487511
Longitude: -122.31736
Ecology Interest Type Code: UST
Facility ID: 99859969
Facility Company: BLAKLEY BROTHERS INC
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 5804
Date Interaction: 02/29/2000
Date Interaction 3: 02/29/2000

Actual:
373 ft.

UST:

Facility ID: 99859969
Site Id: 5804
UBI: Not reported
Phone Number: 2062467422
Decimal Latitude: 47.487511
Decimal Longitude: -122.317365

Tank Name: 1
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1973
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: None
Tank Overfill Prevention: Ball Float Valve (vent line)
Tank Material: Dielectric Coated Steel
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: Steel
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Vapor Monitoring
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Sacrificial Anode
Pipe Pumping System: Gravity Delivery Sys
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BLAKLEY BROTHERS INC (Continued)

U003027512

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: 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: 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
Dispenser/Pump SFC Type: Not reported

12
NNE
< 1/8
0.099 mi.
525 ft.

PACIFIC UNDERWRITERS CORPORATION
12611 DES MOINES MEMORIAL DR POB68
SEATTLE, WA 98168

ALLSITES U003027971
UST N/A

Relative:
Higher

ALLSITES:
Facility Id: 9386197
Latitude: 47.489251
Longitude: -122.31224
Ecology Interest Type Code: UST
Facility ID: 9386197
Facility Company: PACIFIC UNDERWRITERS CORP
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 6954
Date Interaction: 02/29/2000
Date Interaction 3: 02/29/2000

Actual:
382 ft.

UST:
Facility ID: 9386197
Site Id: 6954
UBI: Not reported
Phone Number: 2062482254
Decimal Latitude: 47.489251

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PACIFIC UNDERWRITERS CORPORATION (Continued)

U003027971

Decimal Longitude: -122.312245

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: 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

Dispenser/Pump SFC Type: Not reported

13
North
< 1/8
0.100 mi.
528 ft.

BOULEVARD PARK/SHELL STATION
12666 DES MOINES WAY SOUTH
SEATTLE, WA

RCRA NonGen / NLR 1000288059
FINDS WAD981764483
ICR

Relative:
Higher

RCRA NonGen / NLR:

Date form received by agency: 07/29/2002

Facility name: SHELL OIL CO DES MOINES 129596

Facility address: 12666 DES MOINES WAY

SEATTLE, WA 98168

EPA ID: WAD981764483

Mailing address: PO BOX 4453

MFT226

HOUSTON, TX 77210-4453

Contact: EQUILON ENTERPR EQUILON ENTERPR

Contact address: PO BOX 4453 MFT226

HOUSTON, TX 77210-4453

Contact country: US

Contact telephone: (713)241-2258

Contact email: Not reported

EPA Region: 10

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: SHELL OIL CO S

Owner/operator address: PO BOX 2648

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOULEVARD PARK/SHELL STATION (Continued)

1000288059

HOUSTON, TX 77252
Owner/operator country: US
Owner/operator telephone: (713)241-5036
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/02/2001
Owner/Op end date: Not reported

Owner/operator name: SHELL OIL CO S
Owner/operator address: PO BOX 6249
CARSON, CA 90749
Owner/operator country: US
Owner/operator telephone: (310)816-2312
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/16/1996
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

Violation Status: No violations found

FINDS:

Registry ID: 110005341451

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.

Registry ID: 110039547327

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BOULEVARD PARK/SHELL STATION (Continued)

1000288059

Environmental Interest/Information System

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES)
is an federal online database for Brownfields Grantees to
electronically submit data directly to EPA.

ICR:

Date Ecology Received Report: 07/02/90
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 90-10
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 12/19/91
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 92-15
County Code: 17
Contact: Not reported
Report Title: Not reported

14
NE
< 1/8
0.107 mi.
563 ft.

**12611 ROSEBERG AVE S
SEATTLE, WA 98168**

**EDR US Hist Auto Stat 1015195096
N/A**

**Relative:
Lower

Actual:
374 ft.**

EDR Historical Auto Stations:

Name: YOUNG RADIATOR CO
Year: 2003
Address: 12611 ROSEBERG AVE S

Name: YOUNG RADIATOR CO
Year: 2004
Address: 12611 ROSEBERG AVE S

**B15
NNE
1/8-1/4
0.182 mi.
962 ft.**

**GLENDALE HEATING & AIR CONDITIONING CO
12462 DES MOINES WAY S
SEATTLE, WA**

**FINDS 1007071079
ALLSITES N/A
UST**

Site 1 of 8 in cluster B

**Relative:
Lower**

FINDS:

Registry ID: 110015476938

**Actual:
370 ft.**

Environmental Interest/Information System
Washington Facility / Site Identification System (WA-FSIS) provides a

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GLENDAL HEATING & AIR CONDITIONING CO (Continued)

1007071079

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.

ALLSITES:

Facility Id:	42321723
Latitude:	47.490771
Longitude:	-122.31159
Ecology Interest Type Code:	TIER2
Facility ID:	42321723
Facility Company:	GLENDAL HEATING & AIR CONDITIONING CO
Interaction:	A
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	CRK000022010
Date Interaction:	01/01/1989
Date Interaction 3:	01/01/1989
Facility ID:	42321723
Facility Company:	GLENDAL HEATING & AIR CONDITIONING CO
Interaction:	A
Interaction 1:	LSC
Interaction 2:	Local Source Control
Ecology Program:	HAZWASTE
Program Data:	LSC
Facility Alt.:	GLENDAL HEATING & AIR CONDITIONING CO
Program ID:	Not reported
Date Interaction:	07/26/2011
Date Interaction 3:	07/26/2011
Facility ID:	42321723
Facility Company:	GLENDAL HEATING & AIR CONDITIONING CO
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GLENDAL HEATING & AIR CONDITIONING CO (Continued)

1007071079

Program Data: UST
Facility Alt.: Not reported
Program ID: 3722
Date Interaction: 06/01/1960
Date Interaction 3: 06/01/1960

Facility Id: 42321723
Latitude: 47.490771
Longitude: -122.31159
Ecology Interest Type Code: UST
Facility ID: 42321723
Facility Company: GLENDALE HEATING & AIR CONDITIONING CO
Interaction: A
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: CRK000022010
Date Interaction: 01/01/1989
Date Interaction 3: 01/01/1989

Facility ID: 42321723
Facility Company: GLENDALE HEATING & AIR CONDITIONING CO
Interaction: A
Interaction 1: LSC
Interaction 2: Local Source Control
Ecology Program: HAZWASTE
Program Data: LSC
Facility Alt.: GLENDALE HEATING & AIR CONDITIONING CO
Program ID: Not reported
Date Interaction: 07/26/2011
Date Interaction 3: 07/26/2011

Facility ID: 42321723
Facility Company: GLENDALE HEATING & AIR CONDITIONING CO
Interaction: A
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 3722
Date Interaction: 06/01/1960
Date Interaction 3: 06/01/1960

Facility Id: 42321723
Latitude: 47.490771
Longitude: -122.31159
Ecology Interest Type Code: LSC
Facility ID: 42321723
Facility Company: GLENDALE HEATING & AIR CONDITIONING CO
Interaction: A
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GLENDAL HEATING & AIR CONDITIONING CO (Continued)

1007071079

Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	CRK000022010
Date Interaction:	01/01/1989
Date Interaction 3:	01/01/1989
Facility ID:	42321723
Facility Company:	GLENDAL HEATING & AIR CONDITIONING CO
Interaction:	A
Interaction 1:	LSC
Interaction 2:	Local Source Control
Ecology Program:	HAZWASTE
Program Data:	LSC
Facility Alt.:	GLENDAL HEATING & AIR CONDITIONING CO
Program ID:	Not reported
Date Interaction:	07/26/2011
Date Interaction 3:	07/26/2011
Facility ID:	42321723
Facility Company:	GLENDAL HEATING & AIR CONDITIONING CO
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	3722
Date Interaction:	06/01/1960
Date Interaction 3:	06/01/1960

UST:

Facility ID:	42321723
Site Id:	3722
UBI:	6000031670010001
Phone Number:	2062437700
Decimal Latitude:	47.490771
Decimal Longitude:	-122.311595

Tank Name:	1
Tag Number:	A4351
Tank Status:	Operational
Tank Status Date:	08/06/1996
Tank Install Date:	00/01/1960
Tank Closure Date:	Not reported
Capacity Range:	20,000 to 29,999 Gallons
Tank Permit Expiration Date:	09/30/2014
Tank Upgrade Date:	04/15/1998
Tank Spill Prevention:	Spill Bucket/Spill Box
Tank Overfill Prevention:	Overfill Alarm
Tank Material:	Steel
Tank Construction:	Single Wall Tank
Tank Tightness Test:	Not reported
Tank Corrosion Protection:	Impressed Current
Tank Manifold:	Not reported
Tank Release Detection:	Automatic Tank Gauging

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GLENDALE HEATING & AIR CONDITIONING CO (Continued)

1007071079

Tank SFC Type: Not reported
Pipe Material: Steel
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Safe Suction (No Leak Detection)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Impressed Current
Pipe Pumping System: Safe Suction
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 2
Tag Number: A4351
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1960
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 09/30/2014
Tank Upgrade Date: 04/15/1998
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Overfill Alarm
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Impressed Current
Tank Manifold: Not reported
Tank Release Detection: Automatic Tank Gauging
Tank SFC Type: Not reported
Pipe Material: Steel
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Safe Suction (No Leak Detection)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Impressed Current
Pipe Pumping System: Safe Suction
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 3
Tag Number: A4351
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1960
Tank Closure Date: Not reported
Capacity Range: 20,000 to 29,999 Gallons
Tank Permit Expiration Date: 09/30/2014
Tank Upgrade Date: 04/15/1998
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Overfill Alarm
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Impressed Current
Tank Manifold: Not reported
Tank Release Detection: Automatic Tank Gauging
Tank SFC Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GLENDAL HEATING & AIR CONDITIONING CO (Continued)

1007071079

Pipe Material: Steel
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Safe Suction (No Leak Detection)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Impressed Current
Pipe Pumping System: Safe Suction
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 8
Tag Number: A4351
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: 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: Not reported
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

**B16
NNE
1/8-1/4
0.184 mi.
970 ft.**

**12459 DES MOINES MEMORIAL DR
SEATTLE, WA 98168**

**EDR US Hist Auto Stat 1015191951
N/A**

Site 2 of 8 in cluster B

**Relative:
Lower**

EDR Historical Auto Stations:

Name: AUSSIE AUTOMOTIVE & MACHINE SHOP
Year: 1999
Address: 12459 DES MOINES MEMORIAL DR

**Actual:
370 ft.**

Name: AUSSIE AUTOMOTIVE & MACHINE SHOP
Year: 2000
Address: 12459 DES MOINES MEMORIAL DR

Name: AUSSIE AUTO REPAIR
Year: 2001
Address: 12459 DES MOINES MEMORIAL DR

Name: AUSSIE AUTOMOTIVE REPAIR
Year: 2004

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1015191951

Address: 12459 DES MOINES MEMORIAL DR

Name: DANIELS AUTO SERVICE
Year: 2005
Address: 12459 DES MOINES MEMORIAL DR

Name: TRIPLE V AUTO REPAIR LLC
Year: 2006
Address: 12459 DES MOINES MEMORIAL DR

Name: TRIPLE V AUTO REPAIR LLC
Year: 2007
Address: 12459 DES MOINES MEMORIAL DR

Name: TRIPLE V AUTO REPAIR LLC
Year: 2008
Address: 12459 DES MOINES MEMORIAL DR

Name: TRIPLE V AUTO REPAIR LLC
Year: 2009
Address: 12459 DES MOINES MEMORIAL DR

Name: TRIPLE V AUTO REPAIR CENTER
Year: 2011
Address: 12459 DES MOINES MEMORIAL DR

Name: TRIPLE V AUTO REPAIR CENTER
Year: 2012
Address: 12459 DES MOINES MEMORIAL DR

B17
NNE
1/8-1/4
0.184 mi.
970 ft.

GOLD CO
12459 DES MOINES WAY S
SEATTLE, WA

Site 3 of 8 in cluster B

Relative:
Lower

FINDS:

Registry ID: 110015456255

Actual:
370 ft.

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.

CSCSL:

Facility ID: 54287319
Region: Northwest
Lat/Long: 47.490544244474 / -122.3108309328
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 9633
Site Status: Cleanup Started

FINDS
CSCSL
ALLSITES
LUST
UST

1007069025
N/A

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GOLD CO (Continued)

1007069025

PSI?: Not reported
Contaminant Name: Benzene
Ground Water: Not reported
Surface Water: Not reported
Soil: Suspected
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 54287319
Region: Northwest
Lat/Long: 47.490544244474 / -122.3108309328
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 9633
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Lead
Ground Water: Not reported
Surface Water: Not reported
Soil: Suspected
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 54287319
Region: Northwest
Lat/Long: 47.490544244474 / -122.3108309328
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 9633
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

Facility ID: 54287319
Region: Northwest
Lat/Long: 47.490544244474 / -122.3108309328
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 9633
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Other
Ground Water: Not reported
Surface Water: Not reported
Soil: Suspected
Sediment: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GOLD CO (Continued)

1007069025

Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

ALLSITES:

Facility Id: 54287319
Latitude: 47.4905442
Longitude: -122.31083
Ecology Interest Type Code: LUST
Facility ID: 54287319
Facility Company: GOLD CO
Interaction: I
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 8142
Date Interaction: 02/28/1991
Date Interaction 3: 02/28/1991

Facility ID: 54287319
Facility Company: GOLD CO
Interaction: A
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 8142
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

Facility Id: 54287319
Latitude: 47.4905442
Longitude: -122.31083
Ecology Interest Type Code: SCS
Facility ID: 54287319
Facility Company: GOLD CO
Interaction: I
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 8142
Date Interaction: 02/28/1991
Date Interaction 3: 02/28/1991

Facility ID: 54287319
Facility Company: GOLD CO
Interaction: A
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GOLD CO (Continued)

1007069025

Facility Alt.: Not reported
Program ID: 8142
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

Facility ID: 54287319
Latitude: 47.4905442
Longitude: -122.31083
Ecology Interest Type Code: UST
Facility ID: 54287319
Facility Company: GOLD CO
Interaction: I
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 8142
Date Interaction: 02/28/1991
Date Interaction 3: 02/28/1991

Facility ID: 54287319
Facility Company: GOLD CO
Interaction: A
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 8142
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

LUST:

Facility ID: 54287319
Facility Status: Cleanup Started
Cleanup Site ID: 9633
Cleanup Unit Type: Upland
Process Type: Independent Action
Alternate Name: Boulevard Auto Service
Release Status Date: 06/01/1995
Site Response Unit Code: Northwest
Lat/Long: 47.4905442 / -122.31083

Facility ID: 54287319
Facility Status: RCU
Cleanup Site ID: 9633
Cleanup Unit Type: Upland
Process Type: Independent Action
Alternate Name: Boulevard Auto Service
Release Status Date: 04/25/2000
Site Response Unit Code: Northwest
Lat/Long: 47.4905442 / -122.31083

Facility ID: 54287319

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GOLD CO (Continued)

1007069025

Facility Status: Cleanup Started
Cleanup Site ID: 9633
Cleanup Unit Type: Upland
Process Type: Independent Action
Alternate Name: Boulevard Auto Service
Release Status Date: 07/01/2011
Site Response Unit Code: Northwest
Lat/Long: 47.4905442 / -122.31083

UST:

Facility ID: 54287319
Site Id: 8142
UBI: Not reported
Phone Number: 2062424257
Decimal Latitude: 47.49054424
Decimal Longitude: -122.3108309

Tank Name: 1
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1979
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: 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
Dispenser/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: Not reported
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GOLD CO (Continued)

1007069025

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: 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: 3
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: 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: 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

B18 **JOES AUSSIE REPAIR**
NNE **12454 DES MOINES MEMORIAL DR**
1/8-1/4 **BURIEN, WA 98168**
0.187 mi.
985 ft. **Site 4 of 8 in cluster B**

ALLSITES **S111289472**
N/A

Relative: **ALLSITES:**
Lower Facility Id: 7672
Latitude: 47.490585
Longitude: -122.31005
Actual: Ecology Interest Type Code: RSVP
368 ft. Facility ID: 7672
Facility Company: Joes Aussie Repair
Interaction: A
Interaction 1: RSVP

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES AUSSIE REPAIR (Continued)

S111289472

Interaction 2: Revised Site Visit Program
Ecology Program: HAZWASTE
Program Data: RSVP
Facility Alt.: Joes Aussie Repair
Program ID: Not reported
Date Interaction: 08/04/2011
Date Interaction 3: 08/04/2011

Facility ID: 7672
Facility Company: Joes Aussie Repair
Interaction: A
Interaction 1: UW
Interaction 2: Urban Waters
Ecology Program: HAZWASTE
Program Data: LSC
Facility Alt.: Joes Aussie Repair
Program ID: Not reported
Date Interaction: 07/19/2011
Date Interaction 3: 07/19/2011

Facility Id: 7672
Latitude: 47.490585
Longitude: -122.31005
Ecology Interest Type Code: UW
Facility ID: 7672
Facility Company: Joes Aussie Repair
Interaction: A
Interaction 1: RSVP
Interaction 2: Revised Site Visit Program
Ecology Program: HAZWASTE
Program Data: RSVP
Facility Alt.: Joes Aussie Repair
Program ID: Not reported
Date Interaction: 08/04/2011
Date Interaction 3: 08/04/2011

Facility ID: 7672
Facility Company: Joes Aussie Repair
Interaction: A
Interaction 1: UW
Interaction 2: Urban Waters
Ecology Program: HAZWASTE
Program Data: LSC
Facility Alt.: Joes Aussie Repair
Program ID: Not reported
Date Interaction: 07/19/2011
Date Interaction 3: 07/19/2011

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B19
NNE
1/8-1/4
0.187 mi.
985 ft.

12454 DES MOINES MEMORIAL DR
SEATTLE, WA 98168

Site 5 of 8 in cluster B

EDR US Hist Auto Stat **1015191936**
N/A

Relative:
Lower

EDR Historical Auto Stations:

Name: CASCADE TRANSMISSION SERVICE
Year: 1999
Address: 12454 DES MOINES MEMORIAL DR

Actual:
368 ft.

Name: CASCADE TRANSMISSION SERVICE
Year: 2000
Address: 12454 DES MOINES MEMORIAL DR

Name: CASCADE TRANSMISSION SERVICE
Year: 2002
Address: 12454 DES MOINES MEMORIAL DR

Name: AUSSIE AUTOMOTIVE REPAIR
Year: 2010
Address: 12454 DES MOINES MEMORIAL DR

Name: AUSSIE AUTOMOTIVE REPAIR
Year: 2011
Address: 12454 DES MOINES MEMORIAL DR

Name: AUSSIE AUTOMOTIVE REPAIR
Year: 2012
Address: 12454 DES MOINES MEMORIAL DR

B20
NNE
1/8-1/4
0.191 mi.
1009 ft.

AUSSIE MACHINE INE
12446 DES MOINES MEMORIAL DR
SEATTLE, WA 98168

Site 6 of 8 in cluster B

ALLSITES **S111289241**
N/A

Relative:
Lower

ALLSITES:

Facility Id: 20863
Latitude: 47.490788
Longitude: -122.30993
Ecology Interest Type Code: RSVP

Actual:
366 ft.

Facility ID: 20863
Facility Company: Aussie Machine Ine
Interaction: A
Interaction 1: RSVP
Interaction 2: Revised Site Visit Program
Ecology Program: HAZWASTE
Program Data: RSVP
Facility Alt.: Aussie Machine Ine
Program ID: Not reported
Date Interaction: 08/01/2011
Date Interaction 3: 08/01/2011

Facility ID: 20863
Facility Company: Aussie Machine Ine
Interaction: A
Interaction 1: INDUSTGP
Interaction 2: Industrial SW GP
Ecology Program: WATQUAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUSSIE MACHINE INE (Continued)

S111289241

Program Data:	PARIS
Facility Alt.:	Aussie Machine Ine
Program ID:	CNE126356
Date Interaction:	09/06/2011
Date Interaction 3:	09/06/2011
Facility Id:	20863
Latitude:	47.490788
Longitude:	-122.30993
Ecology Interest Type Code:	INDUSTGP
Facility ID:	20863
Facility Company:	Aussie Machine Ine
Interaction:	A
Interaction 1:	RSVP
Interaction 2:	Revised Site Visit Program
Ecology Program:	HAZWASTE
Program Data:	RSVP
Facility Alt.:	Aussie Machine Ine
Program ID:	Not reported
Date Interaction:	08/01/2011
Date Interaction 3:	08/01/2011
Facility ID:	20863
Facility Company:	Aussie Machine Ine
Interaction:	A
Interaction 1:	INDUSTGP
Interaction 2:	Industrial SW GP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	Aussie Machine Ine
Program ID:	CNE126356
Date Interaction:	09/06/2011
Date Interaction 3:	09/06/2011

B21
NNE
1/8-1/4
0.194 mi.
1024 ft.

12441 DES MOINES MEMORIAL DR
SEATTLE, WA 98168

Site 7 of 8 in cluster B

EDR US Hist Auto Stat 1015191753
N/A

Relative:
Lower

EDR Historical Auto Stations:

Actual:
365 ft.

Name:	EXCELL AUTOMOTIVE REPAIR
Year:	1999
Address:	12441 DES MOINES MEMORIAL DR
Name:	EXCELL AUTOMOTIVE REPAIR
Year:	2000
Address:	12441 DES MOINES MEMORIAL DR
Name:	PACIFIC AUTO TRUCK REPAIR
Year:	2006
Address:	12441 DES MOINES MEMORIAL DR
Name:	PACIFIC AUTO TRUCK REPAIR
Year:	2007
Address:	12441 DES MOINES MEMORIAL DR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1015191753

Name: PREET AUTO BODY REPAIR LLC
Year: 2008
Address: 12441 DES MOINES MEMORIAL DR

Name: PACIFIC AUTO TRUCK REPAIR
Year: 2009
Address: 12441 DES MOINES MEMORIAL DR

Name: PACIFIC AUTO TRUCK REPAIR
Year: 2010
Address: 12441 DES MOINES MEMORIAL DR

Name: PACIFIC AUTO TRUCK REPAIR
Year: 2011
Address: 12441 DES MOINES MEMORIAL DR

Name: PACIFIC AUTO TRUCK REPAIR
Year: 2012
Address: 12441 DES MOINES MEMORIAL DR

B22
NNE
1/8-1/4
0.194 mi.
1024 ft.

MIKES AUSSIE MACHINE SHOP
12441 DES MOINES MEMORIAL DR
SEATTLE, WA 98168

Site 8 of 8 in cluster B

RCRA NonGen / NLR
FINDS
ALLSITES
CSCSL NFA
VCP

1001491014
WAD988523171

Relative:
Lower

RCRA NonGen / NLR:

Date form received by agency: 12/11/1995

Facility name: MIKES AUSSIE MACHINE SHOP

Facility address: 12441 DES MOINES MEMORIAL DR
SEATTLE, WA 98168

EPA ID: WAD988523171

Contact: MICHAEL HAYATSU

Contact address: 12446 DES MOINES MEMORIAL DR
SEATTLE, WA 98168-2266

Contact country: US

Contact telephone: (206) 248-4323

Contact email: Not reported

EPA Region: 10

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: MICHAEL HAYATSU

Owner/operator address: 12446 DES MOINES MEMORIAL DR
SEATTLE, WA 98168

Owner/operator country: US

Owner/operator telephone: (206) 248-4323

Legal status: Other

Owner/Operator Type: Operator

Owner/Op start date: 09/19/1996

Owner/Op end date: Not reported

Owner/operator name: MICHAEL HAYATSU

Owner/operator address: 12446 DES MOINES MEMORIAL DR
SEATTLE, WA 98168

Owner/operator country: US

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIKES AUSSIE MACHINE SHOP (Continued)

1001491014

Owner/operator telephone: (206) 248-4323
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: 09/19/1996
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

Historical Generators:

Date form received by agency: 12/08/1995
Site name: MIKES AUSSIE MACHINE SHOP
Classification: Small Quantity Generator

Date form received by agency: 01/01/1995
Site name: MIKES AUSSIE MACHINE SHOP
Classification: Unverified

Date form received by agency: 01/01/1994
Site name: MIKES AUSSIE MACHINE SHOP
Classification: Unverified

Violation Status: No violations found

FINDS:

Registry ID: 110005388124

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.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIKES AUSSIE MACHINE SHOP (Continued)

1001491014

ALLSITES:

Facility Id: 2334
Latitude: 47.49108
Longitude: -122.31037
Ecology Interest Type Code: VOLCLNST
Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: MIKES AUSSIE MACHINE SHOP
Program ID: Not reported
Date Interaction: 03/18/1991
Date Interaction 3: 03/18/1991

Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988523171
Date Interaction: 07/20/1993
Date Interaction 3: 07/20/1993

Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: MIKES AUSSIE MACHINE SHOP
Program ID: NW1468
Date Interaction: 06/08/2005
Date Interaction 3: 06/08/2005

Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: A
Interaction 1: UW
Interaction 2: Urban Waters
Ecology Program: HAZWASTE
Program Data: LSC
Facility Alt.: PACIFIC TRUCK REPAIR
Program ID: Not reported
Date Interaction: 07/26/2011
Date Interaction 3: 07/26/2011

Facility/Site Interaction T: 4225
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIKES AUSSIE MACHINE SHOP (Continued)

1001491014

Interaction Status: I
Federal Program Identifier: Not reported
Interaction Start Date: 03/18/1991
Interaction End Date: 08/16/2005
prgm_facil: MIKES AUSSIE MACHINE SHOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility/Site Interaction T: 4226
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: HWG
Interaction (Aka Env Int) Description: Hazardous Waste Generator
Interaction Status: I
Federal Program Identifier: WAD988523171
Interaction Start Date: 07/20/1993
Interaction End Date: 08/31/1995
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Facility/Site Interaction T: 4227
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: VOLCLNST
Interaction (Aka Env Int) Description: Voluntary Cleanup Sites
Interaction Status: I
Federal Program Identifier: NW1468
Interaction Start Date: 06/08/2005
Interaction End Date: 08/18/2005
prgm_facil: MIKES AUSSIE MACHINE SHOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility Id: 2334
Latitude: 47.49108
Longitude: -122.31037
Ecology Interest Type Code: HWG
Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: MIKES AUSSIE MACHINE SHOP
Program ID: Not reported
Date Interaction: 03/18/1991
Date Interaction 3: 03/18/1991

Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIKES AUSSIE MACHINE SHOP (Continued)

1001491014

Program ID: WAD988523171
Date Interaction: 07/20/1993
Date Interaction 3: 07/20/1993

Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: MIKES AUSSIE MACHINE SHOP
Program ID: NW1468
Date Interaction: 06/08/2005
Date Interaction 3: 06/08/2005

Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: A
Interaction 1: UW
Interaction 2: Urban Waters
Ecology Program: HAZWASTE
Program Data: LSC
Facility Alt.: PACIFIC TRUCK REPAIR
Program ID: Not reported
Date Interaction: 07/26/2011
Date Interaction 3: 07/26/2011

Facility/Site Interaction T: 4225
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site
Interaction Status: I
Federal Program Identifier: Not reported
Interaction Start Date: 03/18/1991
Interaction End Date: 08/16/2005
prgm_facil: MIKES AUSSIE MACHINE SHOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility/Site Interaction T: 4226
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: HWG
Interaction (Aka Env Int) Description: Hazardous Waste Generator
Interaction Status: I
Federal Program Identifier: WAD988523171
Interaction Start Date: 07/20/1993
Interaction End Date: 08/31/1995
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Facility/Site Interaction T: 4227
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: VOLCLNST
Interaction (Aka Env Int) Description: Voluntary Cleanup Sites
Interaction Status: I

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIKES AUSSIE MACHINE SHOP (Continued)

1001491014

Federal Program Identifier: NW1468
Interaction Start Date: 06/08/2005
Interaction End Date: 08/18/2005
prgm_facil: MIKES AUSSIE MACHINE SHOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility Id: 2334
Latitude: 47.49108
Longitude: -122.31037
Ecology Interest Type Code: SCS
Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: MIKES AUSSIE MACHINE SHOP
Program ID: Not reported
Date Interaction: 03/18/1991
Date Interaction 3: 03/18/1991

Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988523171
Date Interaction: 07/20/1993
Date Interaction 3: 07/20/1993

Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: MIKES AUSSIE MACHINE SHOP
Program ID: NW1468
Date Interaction: 06/08/2005
Date Interaction 3: 06/08/2005

Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: A
Interaction 1: UW
Interaction 2: Urban Waters
Ecology Program: HAZWASTE
Program Data: LSC
Facility Alt.: PACIFIC TRUCK REPAIR
Program ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIKES AUSSIE MACHINE SHOP (Continued)

1001491014

Date Interaction: 07/26/2011
Date Interaction 3: 07/26/2011

Facility/Site Interaction T: 4225
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site
Interaction Status: I
Federal Program Identifier: Not reported
Interaction Start Date: 03/18/1991
Interaction End Date: 08/16/2005
prgm_facil: MIKES AUSSIE MACHINE SHOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility/Site Interaction T: 4226
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: HWG
Interaction (Aka Env Int) Description: Hazardous Waste Generator
Interaction Status: I
Federal Program Identifier: WAD988523171
Interaction Start Date: 07/20/1993
Interaction End Date: 08/31/1995
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Facility/Site Interaction T: 4227
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: VOLCLNST
Interaction (Aka Env Int) Description: Voluntary Cleanup Sites
Interaction Status: I
Federal Program Identifier: NW1468
Interaction Start Date: 06/08/2005
Interaction End Date: 08/18/2005
prgm_facil: MIKES AUSSIE MACHINE SHOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility Id: 2334
Latitude: 47.49108
Longitude: -122.31037
Ecology Interest Type Code: UW
Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: MIKES AUSSIE MACHINE SHOP
Program ID: Not reported
Date Interaction: 03/18/1991
Date Interaction 3: 03/18/1991

Facility ID: 2334

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIKES AUSSIE MACHINE SHOP (Continued)

1001491014

Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988523171
Date Interaction: 07/20/1993
Date Interaction 3: 07/20/1993

Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: I
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: MIKES AUSSIE MACHINE SHOP
Program ID: NW1468
Date Interaction: 06/08/2005
Date Interaction 3: 06/08/2005

Facility ID: 2334
Facility Company: MIKES AUSSIE MACHINE SHOP
Interaction: A
Interaction 1: UW
Interaction 2: Urban Waters
Ecology Program: HAZWASTE
Program Data: LSC
Facility Alt.: PACIFIC TRUCK REPAIR
Program ID: Not reported
Date Interaction: 07/26/2011
Date Interaction 3: 07/26/2011

Facility/Site Interaction T: 4225
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site
Interaction Status: I
Federal Program Identifier: Not reported
Interaction Start Date: 03/18/1991
Interaction End Date: 08/16/2005
prgm_facil: MIKES AUSSIE MACHINE SHOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility/Site Interaction T: 4226
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: HWG
Interaction (Aka Env Int) Description: Hazardous Waste Generator
Interaction Status: I
Federal Program Identifier: WAD988523171
Interaction Start Date: 07/20/1993
Interaction End Date: 08/31/1995
prgm_facil: Not reported
cur_sys_pr: HAZWASTE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIKES AUSSIE MACHINE SHOP (Continued)

1001491014

cur_sys_nm: TURBOWASTE

Facility/Site Interaction T: 4227
Geographic Location Identifier (Alias Facid): 2334
Interaction (Aka Env Int) Type Code: VOLCLNST
Interaction (Aka Env Int) Description: Voluntary Cleanup Sites
Interaction Status: I
Federal Program Identifier: NW1468
Interaction Start Date: 06/08/2005
Interaction End Date: 08/18/2005
prgm_facil: MIKES AUSSIE MACHINE SHOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

CSCSL NFA:

Facility/Site Id: 2334
CS Id: 1888
NFA Date: 03/02/2009
Rank: 5
VCP: Yes
Latitude: 47.491079999999997
Longitude: -122.31037000000001

VCP:

edr_fstat: WA
edr_fzip: 98168
edr_fcnty: KING COUNTY
edr_zip: Not reported
Facility ID: 2334
VCP Status: Not reported
VCP: Yes
Ecology Status: Not reported
NFA Type: NFA-Voluntary Cleanup Program Review
Date NFA: 3/2/2009
Rank: 5

**23
East
1/8-1/4
0.204 mi.
1075 ft.**

**HSD HIGHLINE BOULEVARD PARK WAREHOUSE
12833 20TH AVE S
SEATTLE, WA 98168**

**RCRA NonGen / NLR
FINDS
ALLSITES**

**1000850360
WAD988523007**

**Relative:
Lower**

RCRA NonGen / NLR:

Date form received by agency: 02/27/2003
Facility name: HSD HIGHLINE BOULEVARD PARK WAREHOUSE
Facility address: 12833 20TH AVE S
SEATTLE, WA 98168-2916
EPA ID: WAD988523007
Mailing address: 15675 AMBAUM BLVD SW
BURIEN, WA 98166-2523
Contact: HSD BOULEVARD P HSD BOULEVARD P
Contact address: 15675 AMBAUM BLVD SW
BURIEN, WA 98166-2523
Contact country: US
Contact telephone: (000)000-0000
Contact email: Not reported

**Actual:
354 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HSD HIGHLINE BOULEVARD PARK WAREHOUSE (Continued)

1000850360

EPA Region: 10
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: HIGHLINE SCHOOL H
Owner/operator address: 15675 AMBAUM BLVD SW
BURIEN, WA 98166
Owner/operator country: US
Owner/operator telephone: (206)433-0111
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/15/1996
Owner/Op end date: Not reported

Owner/operator name: BARB P
Owner/operator address: 15675 AMBAUM BLVD SW
BURIEN, WA 98166
Owner/operator country: US
Owner/operator telephone: (206)433-2354
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/25/1997
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
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110005387982

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.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HSD HIGHLINE BOULEVARD PARK WAREHOUSE (Continued)

1000850360

ALLSITES:

Facility Id: 82131388
Latitude: 47.48826
Longitude: -122.30748
Ecology Interest Type Code: HWG
Facility ID: 82131388
Facility Company: HSD Highline Boulevard Park Warehouse
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988523007
Date Interaction: 07/20/1993
Date Interaction 3: 07/20/1993

C24
NNE
1/8-1/4
0.230 mi.
1217 ft.

BOULEVARD AUTO SERVICE
12459 DES MOINES WAY
SEATTLE, WA

EDR US Hist Auto Stat **1009355237**
N/A

Site 1 of 2 in cluster C

Relative:
Lower

EDR Historical Auto Stations:

Name: MARCHAND FRANK G
Year: 1940
Type: GASOLINE AND OIL SERVICE STATIONS

Actual:
358 ft.

Name: BOULEVARD AUTO SERVICE
Year: 1977
Type: Gasoline Stations

Name: BOULEVARD AUTO SERVICE
Year: 1985
Type: Gasoline Stations

C25
NNE
1/8-1/4
0.231 mi.
1219 ft.

GERALD RICHARDS
12666 DES MOINES WAY
SEATTLE, WA 98168

CSCSL **U000920379**
ALLSITES **N/A**
LUST
UST
VCP

Site 2 of 2 in cluster C

Relative:
Lower

CSCSL:

Facility ID: 84247415
Region: Northwest
Lat/Long: 47.488939999999 / -122.3112299999
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 6751
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

Actual:
356 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GERALD RICHARDS (Continued)

U000920379

Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 84247415
Region: Northwest
Lat/Long: 47.488939999999 / -122.3112299999
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 6751
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

ALLSITES:

Facility Id: 84247415
Latitude: 47.48894
Longitude: -122.31123
Ecology Interest Type Code: VOLCLNST

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD981764483
Date Interaction: 03/12/1987
Date Interaction 3: 03/12/1987

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 3345
Date Interaction: 07/17/1989
Date Interaction 3: 07/17/1989

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: A
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GERALD RICHARDS (Continued)

U000920379

Program Data: ISIS
Facility Alt.: Shell 12666 Des Moines Memorial Dr, Seattle
Program ID: NW2095
Date Interaction: 02/19/2009
Date Interaction 3: 02/19/2009

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 3345
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

Facility Id: 84247415
Latitude: 47.48894
Longitude: -122.31123
Ecology Interest Type Code: UST
Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD981764483
Date Interaction: 03/12/1987
Date Interaction 3: 03/12/1987

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 3345
Date Interaction: 07/17/1989
Date Interaction 3: 07/17/1989

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: A
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Shell 12666 Des Moines Memorial Dr, Seattle
Program ID: NW2095
Date Interaction: 02/19/2009

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GERALD RICHARDS (Continued)

U000920379

Date Interaction 3: 02/19/2009

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 3345
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

Facility Id: 84247415
Latitude: 47.48894
Longitude: -122.31123
Ecology Interest Type Code: HWG
Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD981764483
Date Interaction: 03/12/1987
Date Interaction 3: 03/12/1987

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 3345
Date Interaction: 07/17/1989
Date Interaction 3: 07/17/1989

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: A
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Shell 12666 Des Moines Memorial Dr, Seattle
Program ID: NW2095
Date Interaction: 02/19/2009
Date Interaction 3: 02/19/2009

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GERALD RICHARDS (Continued)

U000920379

Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 3345
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

Facility Id: 84247415
Latitude: 47.48894
Longitude: -122.31123
Ecology Interest Type Code: LUST
Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD981764483
Date Interaction: 03/12/1987
Date Interaction 3: 03/12/1987

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 3345
Date Interaction: 07/17/1989
Date Interaction 3: 07/17/1989

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: A
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Shell 12666 Des Moines Memorial Dr, Seattle
Program ID: NW2095
Date Interaction: 02/19/2009
Date Interaction 3: 02/19/2009

Facility ID: 84247415
Facility Company: Shell Oil Co Des Moines 129596
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GERALD RICHARDS (Continued)

U000920379

Program Data: UST
Facility Alt.: Not reported
Program ID: 3345
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

LUST:

Facility ID: 84247415
Facility Status: Cleanup Started
Cleanup Site ID: 6751
Cleanup Unit Type: Upland
Process Type: Voluntary Cleanup Program
Alternate Name: SHELL STATION DES MOINES WAY
Release Status Date: 06/01/1995
Site Response Unit Code: Northwest
Lat/Long: 47.4889399 / -122.31122

UST:

Facility ID: 84247415
Site Id: 3345
UBI: Not reported
Phone Number: Not reported
Decimal Latitude: 47.48894
Decimal Longitude: -122.31123

Tank Name: 1
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 05/01/1988
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: 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: Not reported
Responsible Unit: NORTHWEST
Dispenser/Pump SFC Type: Not reported

Tank Name: 2
Tag Number: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GERALD RICHARDS (Continued)

U000920379

Tank Status: Removed
Tank Status Date: 05/01/1988
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: 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: Not reported
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 3
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 05/01/1988
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: 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: Not reported
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 4
Tag Number: Not reported
Tank Status: Removed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GERALD RICHARDS (Continued)

U000920379

Tank Status Date: 05/01/1988
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: 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: Not reported
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 5
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 05/01/1988
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
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

VCP:

edr_fstat: WA
edr_fzip: 98168
edr_fcnty: KING COUNTY
edr_zip: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GERALD RICHARDS (Continued)

U000920379

Facility ID: 84247415
VCP Status: VCP
VCP: Not reported
Ecology Status: Cleanup Started
NFA Type: Cleanup Started
Date NFA: Cleanup Started
Rank: Cleanup Started

26
East
1/8-1/4
0.243 mi.
1284 ft.

2020 S 128TH ST
SEATTLE, WA 98168

EDR US Hist Auto Stat 1015308291
N/A

Relative:
Lower

EDR Historical Auto Stations:

Name: EL CHERO MOBIL MECHANIC
Year: 2007

Actual:
356 ft.

Address: 2020 S 128TH ST

Name: EL CHERO MOBIL MECHANIC
Year: 2008
Address: 2020 S 128TH ST

27
NE
1/4-1/2
0.259 mi.
1368 ft.

JONES PROPERTY
12441 20TH AVE S
BURIEN, WA 98168

ALLSITES S104971674
CSCSL NFA N/A

Relative:
Lower

ALLSITES:

Facility Id: 2491
Latitude: 47.4910010
Longitude: -122.30797

Actual:
351 ft.

Ecology Interest Type Code: SCS

Facility ID: 2491
Facility Company: JONES PROPERTY
Interaction: I
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: JONES PROPERTY
Program ID: Not reported
Date Interaction: 08/30/1994
Date Interaction 3: 08/30/1994

Facility/Site Interaction T: 4599
Geographic Location Identifier (Alias Facid): 2491
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site
Interaction Status: I
Federal Program Identifier: Not reported
Interaction Start Date: 08/30/1994
Interaction End Date: 12/20/1996
prgm_facil: JONES PROPERTY
cur_sys_pr: TOXICS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JONES PROPERTY (Continued)

S104971674

cur_sys_nm: ISIS

CSCSL NFA:

Facility/Site Id: 2491
CS Id: 2414
NFA Date: 12/20/1996
Rank: Not reported
VCP: No
Latitude: 47.491001024529822
Longitude: -122.3079735713236

D28
South
1/4-1/2
0.468 mi.
2471 ft.

SUNSET PARK - TUB LAKE SITE
S 136TH & 18TH AV S
SEATTLE, WA 98168
Site 1 of 3 in cluster D

CERC-NFRAP **1003880427**
WAD980664817

Relative:
Lower

CERC-NFRAP:
Site ID: 1000931
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Actual:
342 ft.

CERCLIS-NFRAP Site Alias Name(s):

Alias Name: TUB LAKE DUMP
Alias Address: Not reported
WA

CERCLIS-NFRAP Assessment History:

Action: PRELIMINARY ASSESSMENT
Date Started: 08/01/84
Date Completed: 08/01/84
Priority Level: Higher priority for further assessment

Action: DISCOVERY
Date Started: / /
Date Completed: 06/01/79
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/16/85
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: 11/01/84
Date Completed: 01/16/85
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

D29
South
1/4-1/2
0.468 mi.
2473 ft.
SUNSET PARK SOCCER FIELD RENOVATION
136TH ST BW 16TH & 18TH AVE S
SEATAC, WA 98168
Site 2 of 3 in cluster D

ALLSITES **S110037810**
N/A

Relative:
Lower

ALLSITES:

Facility Id: 16594
Latitude: 47.4786
Longitude: -122.313
Ecology Interest Type Code: CONSTGP
Facility ID: 16594
Facility Company: SUNSET PARK SOCCER FIELD RENOVATION
Interaction: I
Interaction 1: CONSTGP
Interaction 2: Construction SW GP
Ecology Program: WATQUAL
Program Data: PARIS
Facility Alt.: SUNSET PARK SOCCER FIELD RENOVATION
Program ID: WAR011616
Date Interaction: 05/07/2009
Date Interaction 3: 05/07/2009

Facility/Site Interaction T: 86046
Geographic Location Identifier (Alias Facid): 16594
Interaction (Aka Env Int) Type Code: CONSTGP
Interaction (Aka Env Int) Description: Construction SW GP
Interaction Status: A
Federal Program Identifier: WAR011616
Interaction Start Date: 05/07/2009
Interaction End Date: Not reported
prgm_facil: SUNSET PARK SOCCER FIELD RENOVATION
cur_sys_pr: WATQUAL
cur_sys_nm: PARIS

D30
South
1/2-1
0.505 mi.
2668 ft.
SUNSET PARK
13659 18TH AVE S
SEATAC, WA 98168
Site 3 of 3 in cluster D

CSCSL **U004155427**
HSL **N/A**
ALLSITES
LUST
UST

Relative:
Lower

CSCSL:

Facility ID: 98435559
Region: Northwest
Lat/Long: 47.479549272706 / -122.3102596366
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 2794
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Lead
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

Actual:
329 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Facility ID: 98435559
Region: Northwest
Lat/Long: 47.479549272706 / -122.3102596366
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 2794
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Metals Priority Pollutants
Ground Water: Confirmed Above Cleanup Level
Surface Water: Confirmed Above Cleanup Level
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 98435559
Region: Northwest
Lat/Long: 47.479549272706 / -122.3102596366
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 2794
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: 98435559
Region: Northwest
Lat/Long: 47.479549272706 / -122.3102596366
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 2794
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum Products-Unspecified
Ground Water: Confirmed Above Cleanup Level
Surface Water: Confirmed Above Cleanup Level
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 98435559
Region: Northwest
Lat/Long: 47.479549272706 / -122.3102596366
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 2794

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Other
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: 98435559
Region: Northwest
Lat/Long: 47.479549272706 / -122.3102596366
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 2794
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Polychlorinated biPhenyls (PCB)
Ground Water: Not reported
Surface Water: Confirmed Above Cleanup Level
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 98435559
Region: Northwest
Lat/Long: 47.479549272706 / -122.3102596366
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 2794
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Polynuclear Aromatic Hydrocarbons
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

HSL:

edr_fstat: WA
edr_fzip: Not reported
edr_fcnty: KING
edr_zip: Not reported
Facility Type: Hazardous Sites List
Facility Status: Cleanup Started
FSID Number: 98435559
Rank: 3
Region: NW
EDR Link ID: 98435559

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

ALLSITES:

Facility Id:	98435559
Latitude:	47.4795492
Longitude:	-122.31025
Ecology Interest Type Code:	IRAP
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD981763857
Date Interaction:	03/03/1987
Date Interaction 3:	03/03/1987
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	5485
Date Interaction:	03/26/1991
Date Interaction 3:	03/26/1991
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	INDPNDNT
Interaction 2:	Independent Cleanup
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	King Cnty Parks Sunset Shop
Program ID:	Not reported
Date Interaction:	03/01/1988
Date Interaction 3:	03/01/1988
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	IRAP
Interaction 2:	Independent Remedial Actn Prg
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	SUNSET PARK & TUB LAKE DUMP
Program ID:	Not reported
Date Interaction:	02/02/1999
Date Interaction 3:	02/02/1999
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	SCS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Sunset Playfields Park
Program ID:	Not reported
Date Interaction:	10/05/2012
Date Interaction 3:	10/05/2012
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	5485
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	CONSTGP
Interaction 2:	Construction SW GP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	Soil Safety Program - Sunset Playfields
Program ID:	WAR126025
Date Interaction:	06/28/2012
Date Interaction 3:	06/28/2012
Facility Id:	98435559
Latitude:	47.4795492
Longitude:	-122.31025
Ecology Interest Type Code:	CONSTGP
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD981763857
Date Interaction:	03/03/1987
Date Interaction 3:	03/03/1987
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Program ID:	5485
Date Interaction:	03/26/1991
Date Interaction 3:	03/26/1991
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	INDPNDNT
Interaction 2:	Independent Cleanup
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	King Cnty Parks Sunset Shop
Program ID:	Not reported
Date Interaction:	03/01/1988
Date Interaction 3:	03/01/1988
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	IRAP
Interaction 2:	Independent Remedial Actn Prg
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	SUNSET PARK & TUB LAKE DUMP
Program ID:	Not reported
Date Interaction:	02/02/1999
Date Interaction 3:	02/02/1999
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Sunset Playfields Park
Program ID:	Not reported
Date Interaction:	10/05/2012
Date Interaction 3:	10/05/2012
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	5485
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	CONSTGP
Interaction 2:	Construction SW GP

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	Soil Safety Program - Sunset Playfields
Program ID:	WAR126025
Date Interaction:	06/28/2012
Date Interaction 3:	06/28/2012
Facility Id:	98435559
Latitude:	47.4795492
Longitude:	-122.31025
Ecology Interest Type Code:	INDPNDNT
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD981763857
Date Interaction:	03/03/1987
Date Interaction 3:	03/03/1987
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	5485
Date Interaction:	03/26/1991
Date Interaction 3:	03/26/1991
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	INDPNDNT
Interaction 2:	Independent Cleanup
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	King Cnty Parks Sunset Shop
Program ID:	Not reported
Date Interaction:	03/01/1988
Date Interaction 3:	03/01/1988
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	IRAP
Interaction 2:	Independent Remedial Actn Prg
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	SUNSET PARK & TUB LAKE DUMP
Program ID:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Date Interaction: 02/02/1999
Date Interaction 3: 02/02/1999

Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: A
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Sunset Playfields Park
Program ID: Not reported
Date Interaction: 10/05/2012
Date Interaction 3: 10/05/2012

Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 5485
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: I
Interaction 1: CONSTGP
Interaction 2: Construction SW GP
Ecology Program: WATQUAL
Program Data: PARIS
Facility Alt.: Soil Safety Program - Sunset Playfields
Program ID: WAR126025
Date Interaction: 06/28/2012
Date Interaction 3: 06/28/2012

Facility Id: 98435559
Latitude: 47.4795492
Longitude: -122.31025
Ecology Interest Type Code: SCS
Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD981763857
Date Interaction: 03/03/1987
Date Interaction 3: 03/03/1987

Facility ID: 98435559

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 5485
Date Interaction: 03/26/1991
Date Interaction 3: 03/26/1991

Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: A
Interaction 1: INDPNDNT
Interaction 2: Independent Cleanup
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: King Cnty Parks Sunset Shop
Program ID: Not reported
Date Interaction: 03/01/1988
Date Interaction 3: 03/01/1988

Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: A
Interaction 1: IRAP
Interaction 2: Independent Remedial Actn Prg
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: SUNSET PARK & TUB LAKE DUMP
Program ID: Not reported
Date Interaction: 02/02/1999
Date Interaction 3: 02/02/1999

Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: A
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Sunset Playfields Park
Program ID: Not reported
Date Interaction: 10/05/2012
Date Interaction 3: 10/05/2012

Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 5485
Date Interaction: 03/20/2000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Date Interaction 3: 03/20/2000

Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: I
Interaction 1: CONSTGP
Interaction 2: Construction SW GP
Ecology Program: WATQUAL
Program Data: PARIS
Facility Alt.: Soil Safety Program - Sunset Playfields
Program ID: WAR126025
Date Interaction: 06/28/2012
Date Interaction 3: 06/28/2012

Facility Id: 98435559
Latitude: 47.4795492
Longitude: -122.31025
Ecology Interest Type Code: UST
Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD981763857
Date Interaction: 03/03/1987
Date Interaction 3: 03/03/1987

Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 5485
Date Interaction: 03/26/1991
Date Interaction 3: 03/26/1991

Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump
Interaction: A
Interaction 1: INDPNDNT
Interaction 2: Independent Cleanup
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: King Cnty Parks Sunset Shop
Program ID: Not reported
Date Interaction: 03/01/1988
Date Interaction 3: 03/01/1988

Facility ID: 98435559
Facility Company: King County Parks Sunset & Tub Lake Dump

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Interaction:	A
Interaction 1:	IRAP
Interaction 2:	Independent Remedial Actn Prg
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	SUNSET PARK & TUB LAKE DUMP
Program ID:	Not reported
Date Interaction:	02/02/1999
Date Interaction 3:	02/02/1999
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Sunset Playfields Park
Program ID:	Not reported
Date Interaction:	10/05/2012
Date Interaction 3:	10/05/2012
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	5485
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	CONSTGP
Interaction 2:	Construction SW GP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	Soil Safety Program - Sunset Playfields
Program ID:	WAR126025
Date Interaction:	06/28/2012
Date Interaction 3:	06/28/2012
Facility Id:	98435559
Latitude:	47.4795492
Longitude:	-122.31025
Ecology Interest Type Code:	HWG
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD981763857
Date Interaction:	03/03/1987
Date Interaction 3:	03/03/1987
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	5485
Date Interaction:	03/26/1991
Date Interaction 3:	03/26/1991
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	INDPNDNT
Interaction 2:	Independent Cleanup
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	King Cnty Parks Sunset Shop
Program ID:	Not reported
Date Interaction:	03/01/1988
Date Interaction 3:	03/01/1988
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	IRAP
Interaction 2:	Independent Remedial Actn Prg
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	SUNSET PARK & TUB LAKE DUMP
Program ID:	Not reported
Date Interaction:	02/02/1999
Date Interaction 3:	02/02/1999
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Sunset Playfields Park
Program ID:	Not reported
Date Interaction:	10/05/2012
Date Interaction 3:	10/05/2012
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	5485
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	CONSTGP
Interaction 2:	Construction SW GP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	Soil Safety Program - Sunset Playfields
Program ID:	WAR126025
Date Interaction:	06/28/2012
Date Interaction 3:	06/28/2012
Facility Id:	98435559
Latitude:	47.4795492
Longitude:	-122.31025
Ecology Interest Type Code:	LUST
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD981763857
Date Interaction:	03/03/1987
Date Interaction 3:	03/03/1987
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	5485
Date Interaction:	03/26/1991
Date Interaction 3:	03/26/1991
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	INDPNDNT
Interaction 2:	Independent Cleanup
Ecology Program:	TOXICS
Program Data:	ISIS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Facility Alt.:	King Cnty Parks Sunset Shop
Program ID:	Not reported
Date Interaction:	03/01/1988
Date Interaction 3:	03/01/1988
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	IRAP
Interaction 2:	Independent Remedial Actn Prg
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	SUNSET PARK & TUB LAKE DUMP
Program ID:	Not reported
Date Interaction:	02/02/1999
Date Interaction 3:	02/02/1999
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	A
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Sunset Playfields Park
Program ID:	Not reported
Date Interaction:	10/05/2012
Date Interaction 3:	10/05/2012
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	5485
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility ID:	98435559
Facility Company:	King County Parks Sunset & Tub Lake Dump
Interaction:	I
Interaction 1:	CONSTGP
Interaction 2:	Construction SW GP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	Soil Safety Program - Sunset Playfields
Program ID:	WAR126025
Date Interaction:	06/28/2012
Date Interaction 3:	06/28/2012

LUST:

Facility ID:	98435559
Facility Status:	Cleanup Started

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

Cleanup Site ID: 2794
Cleanup Unit Type: Upland
Process Type: Independent Action
Alternate Name: Sunset Park
Release Status Date: 06/01/1995
Site Response Unit Code: Northwest
Lat/Long: 47.4795492 / -122.31025

UST:

Facility ID: 98435559
Site Id: 5485
UBI: Not reported
Phone Number: 2063447644
Decimal Latitude: 47.47954927
Decimal Longitude: -122.3102596

Tank Name: 7541
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: 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
Dispenser/Pump SFC Type: Not reported

Tank Name: 7542
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: Not reported
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Steel
Tank Construction: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUNSET PARK (Continued)

U004155427

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
Dispenser/Pump SFC Type: Not reported

31
North
1/2-1
0.573 mi.
3023 ft.

CHEVRON 306536
11845 DES MOINES WAY S
SEATTLE, WA 98166

RCRA NonGen / NLR
CSCSL
ALLSITES
LUST
UST
MANIFEST
ICR

1001490938
WAD988515854

Relative:
Lower

Actual:
309 ft.

RCRA NonGen / NLR:

Date form received by agency: 02/20/2012
Facility name: CHEVRON 306536
Facility address: 11845 DES MOINES WAY S
SEATTLE, WA 98166
EPA ID: WAD988515854
Mailing address: PO BOX 6004
SAN RAMON, CA 94583
Contact: KATHY NORRIS
Contact address: PO BOX 6004
SAN RAMON, CA 94583
Contact country: US
Contact telephone: (877) 386-6044
Contact email: NAWTDESK@CHEVRON.COM
EPA Region: 10
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: CHEVRON USA 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: Operator
Owner/Op start date: 07/19/2002
Owner/Op end date: Not reported
Owner/operator name: CHEVRON USA
Owner/operator address: PO BOX 6004
SAN RAMON, 94583
Owner/operator country: US
Owner/operator telephone: 877-386-6044

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/19/2002
Owner/Op end date: Not reported

Owner/operator name: BALHIR GILL & JASWIINDER GILL
Owner/operator address: 12932 SE 257TH ST
KENT, WA 98301

Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/27/1996
Owner/Op end date: Not reported

Owner/operator name: BALHIR GILL & JASWIINDER GILL
Owner/operator address: 12932 SE 257TH ST
KENT, WA 98301

Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/27/1996
Owner/Op end date: Not reported

Owner/operator name: CHEVRON USA
Owner/operator address: PO BOX 6004
SAN RAMON, 94583

Owner/operator country: US
Owner/operator telephone: 877-386-6044
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/19/2002
Owner/Op end date: Not reported

Owner/operator name: CHEVRON USA 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: 07/19/2002
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
Used oil refiner: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

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: 02/03/2011
Site name: CHEVRON 306536
Classification: Not a generator, verified

Date form received by agency: 03/16/2010
Site name: CHEVRON 306536
Classification: Small Quantity Generator

Date form received by agency: 12/31/2005
Site name: UNOCAL SS NO 6248 FORMER
Classification: Small Quantity Generator

Date form received by agency: 12/31/2003
Site name: UNOCAL SS NO 6248 FORMER
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 08/30/2007
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

CSCSL:

Facility ID: 66498524
Region: Northwest
Lat/Long: 47.496413905366 / -122.3106617129
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 10094
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: LUST - Other Hazardous Substance
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: 66498524
Region: Northwest
Lat/Long: 47.496413905366 / -122.3106617129
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 10094
Site Status: Cleanup Started
PSI?: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Contaminant Name: Petroleum-Other
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

ALLSITES:

Facility Id: 66498524
Latitude: 47.4964139
Longitude: -122.31066
Ecology Interest Type Code: HWOTHER
Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: I
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: WAD988515854
Date Interaction: 01/01/1988
Date Interaction 3: 01/01/1988

Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 8501
Date Interaction: 02/07/1991
Date Interaction 3: 02/07/1991

Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: CHEVRON 306536
Program ID: WAD988515854
Date Interaction: 12/16/1992
Date Interaction 3: 12/16/1992

Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	08/09/2000
Date Interaction 3:	08/09/2000
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	CHEVRON 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2003
Date Interaction 3:	12/31/2003
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	12/31/2004
Date Interaction 3:	12/31/2004
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	11/26/2008
Date Interaction 3:	11/26/2008
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Chevron 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2008
Date Interaction 3:	12/31/2008
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	A
Interaction 1:	HWG

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Chevron 306536
Program ID: WAD988515854
Date Interaction: 12/31/2012
Date Interaction 3: 12/31/2012

Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: A
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 8501
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

Facility Id: 66498524
Latitude: 47.4964139
Longitude: -122.31066
Ecology Interest Type Code: TIER2
Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: I
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: WAD988515854
Date Interaction: 01/01/1988
Date Interaction 3: 01/01/1988

Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 8501
Date Interaction: 02/07/1991
Date Interaction 3: 02/07/1991

Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: CHEVRON 306536

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Program ID:	WAD988515854
Date Interaction:	12/16/1992
Date Interaction 3:	12/16/1992
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	08/09/2000
Date Interaction 3:	08/09/2000
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	CHEVRON 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2003
Date Interaction 3:	12/31/2003
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	12/31/2004
Date Interaction 3:	12/31/2004
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	11/26/2008
Date Interaction 3:	11/26/2008
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Chevron 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2008
Date Interaction 3:	12/31/2008
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	A
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Chevron 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2012
Date Interaction 3:	12/31/2012
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	8501
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility Id:	66498524
Latitude:	47.4964139
Longitude:	-122.31066
Ecology Interest Type Code:	UST
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	01/01/1988
Date Interaction 3:	01/01/1988
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	8501

Map ID
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Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Date Interaction:	02/07/1991
Date Interaction 3:	02/07/1991
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	CHEVRON 306536
Program ID:	WAD988515854
Date Interaction:	12/16/1992
Date Interaction 3:	12/16/1992
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	08/09/2000
Date Interaction 3:	08/09/2000
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	CHEVRON 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2003
Date Interaction 3:	12/31/2003
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	12/31/2004
Date Interaction 3:	12/31/2004
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	11/26/2008
Date Interaction 3:	11/26/2008
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Chevron 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2008
Date Interaction 3:	12/31/2008
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	A
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Chevron 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2012
Date Interaction 3:	12/31/2012
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	8501
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility Id:	66498524
Latitude:	47.4964139
Longitude:	-122.31066
Ecology Interest Type Code:	HWG
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	01/01/1988

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Date Interaction 3:	01/01/1988
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	8501
Date Interaction:	02/07/1991
Date Interaction 3:	02/07/1991
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	CHEVRON 306536
Program ID:	WAD988515854
Date Interaction:	12/16/1992
Date Interaction 3:	12/16/1992
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	08/09/2000
Date Interaction 3:	08/09/2000
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	CHEVRON 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2003
Date Interaction 3:	12/31/2003
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	12/31/2004
Date Interaction 3:	12/31/2004
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	11/26/2008
Date Interaction 3:	11/26/2008
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Chevron 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2008
Date Interaction 3:	12/31/2008
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	A
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Chevron 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2012
Date Interaction 3:	12/31/2012
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	8501
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility Id:	66498524
Latitude:	47.4964139
Longitude:	-122.31066

Map ID
Direction
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Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Ecology Interest Type Code: LUST
Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: I
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: WAD988515854
Date Interaction: 01/01/1988
Date Interaction 3: 01/01/1988

Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 8501
Date Interaction: 02/07/1991
Date Interaction 3: 02/07/1991

Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: CHEVRON 306536
Program ID: WAD988515854
Date Interaction: 12/16/1992
Date Interaction 3: 12/16/1992

Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988515854
Date Interaction: 08/09/2000
Date Interaction 3: 08/09/2000

Facility ID: 66498524
Facility Company: Chevron 306536
Interaction: I
Interaction 1: HWOTHER
Interaction 2: Haz Waste Management Activity
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: CHEVRON 306536

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Program ID:	WAD988515854
Date Interaction:	12/31/2003
Date Interaction 3:	12/31/2003
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	12/31/2004
Date Interaction 3:	12/31/2004
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988515854
Date Interaction:	11/26/2008
Date Interaction 3:	11/26/2008
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Chevron 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2008
Date Interaction 3:	12/31/2008
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	A
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Chevron 306536
Program ID:	WAD988515854
Date Interaction:	12/31/2012
Date Interaction 3:	12/31/2012
Facility ID:	66498524
Facility Company:	Chevron 306536
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	8501
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000

LUST:

Facility ID:	66498524
Facility Status:	Cleanup Started
Cleanup Site ID:	10094
Cleanup Unit Type:	Upland
Process Type:	Independent Action
Alternate Name:	UNOCAL 6248
Release Status Date:	05/28/1991
Site Response Unit Code:	Northwest
Lat/Long:	47.4964139 / -122.31066

Facility ID:	66498524
Facility Status:	Monitoring
Cleanup Site ID:	10094
Cleanup Unit Type:	Upland
Process Type:	Independent Action
Alternate Name:	UNOCAL 6248
Release Status Date:	07/18/1996
Site Response Unit Code:	Northwest
Lat/Long:	47.4964139 / -122.31066

UST:

Facility ID:	66498524
Site Id:	8501
UBI:	Not reported
Phone Number:	2062480470
Decimal Latitude:	47.49641391
Decimal Longitude:	-122.3106617

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:	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:	Fiberglass

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

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
Dispenser/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: 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: 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
Dispenser/Pump SFC Type: Not reported

Tank Name: 4
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: 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

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

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

WA MANIFEST:

Facility Site ID Number: 66498524
SWC Desc: Not reported
FWC Desc: D002
Form Comm: Not reported
Data Year: 2012
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
EPA ID: WAD988515854
Facility Address 2: Not reported
TAX REG NBR: 409018069
NAICS CD: 447110
BUSINESS TYPE: Gas Station
MAIL NAME: Chevron USA
MAIL ADDR LINE1: PO BOX 6004
MAIL CITY,ST,ZIP: San Ramon, CA 94583
MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Chevron USA
LEGAL ORG TYPE: Private
LEGAL ADDR LINE1: PO BOX 6004
LEGAL CITY,ST,ZIP: San Ramon, CA 94583
LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: 877-386-6044
LEGAL EFFECTIVE DATE: 07/19/2002
LAND ORG NAME: Chevron USA
LAND ORG TYPE: Private
LAND PERSON NAME: Not reported

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

LAND ADDR LINE1: PO BOX 6004
LAND CITY,ST,ZIP: San Ramon, CA 94583
LAND COUNTRY: UNITED STATES
LAND PHONE NBR: 877-386-6044
OPERATOR ORG NAME: Chevron USA
OPERATOR ORG TYPE: Private
OPERATOR ADDR LINE1: PO Box 6004
OPERATOR CITY,ST,ZIP: San Ramon, CA 94583
OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: 877-386-6044
OPERATOR EFFECTIVE DATE: 07/19/2002
SITE CONTACT NAME: Kathy Norris
SITE CONTACT ADDR LINE1: PO Box 6004
SITE CONTACT ZIP: San Ramon, CA 94583
SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: 877-386-6044
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
FORM CONTACT COUNTRY: UNITED STATES
FORM CONTACT PHONE NBR: 877-386-6044
FORM CONTACT EMAIL: NAWTDesk@chevron.com
GEN STATUS CD: MQG
MONTHLY GENERATION: False
BATCH GENERATION: True
ONE TIME GENERATION: False
TRANSPORTS OWN WASTE: False
TRANSPORTS OTHRS WASTE: False
RECYCLER ONSITE: False
TRANSFER FACILITY: False
OTHER EXEMPTION: Not reported
UW BATTERY GEN: False
USED OIL TRANSPORTER: False
USED OIL TRANSFER FACLTY: False
USED OIL PROCESSOR: False
USED OIL REREFINER: False
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False
USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 66498524
SWC Desc: Not reported
FWC Desc: Not reported
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

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

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
EPA ID:	WAD988515854
Facility Address 2:	Not reported
TAX REG NBR:	409018069
NAICS CD:	447110
BUSINESS TYPE:	Gas Station
MAIL NAME:	Chevron USA
MAIL ADDR LINE1:	PO BOX 6004
MAIL CITY,ST,ZIP:	San Ramon, CA 94583
MAIL COUNTRY:	UNITED STATES
LEGAL ORG NAME:	Chevron USA
LEGAL ORG TYPE:	Private
LEGAL ADDR LINE1:	PO BOX 6004
LEGAL CITY,ST,ZIP:	San Ramon, CA 94583
LEGAL COUNTRY:	UNITED STATES
LEGAL PHONE NBR:	877-386-6044
LEGAL EFFECTIVE DATE:	07/19/2002
LAND ORG NAME:	Chevron USA
LAND ORG TYPE:	Private
LAND PERSON NAME:	Not reported
LAND ADDR LINE1:	PO BOX 6004
LAND CITY,ST,ZIP:	San Ramon, CA 94583
LAND COUNTRY:	UNITED STATES
LAND PHONE NBR:	877-386-6044
OPERATOR ORG NAME:	Chevron USA
OPERATOR ORG TYPE:	Private
OPERATOR ADDR LINE1:	PO Box 6004
OPERATOR CITY,ST,ZIP:	San Ramon, CA 94583
OPERATOR COUNTRY:	UNITED STATES
OPERATOR PHONE NBR:	877-386-6044
OPERATOR EFFECTIVE DATE:	07/19/2002
SITE CONTACT NAME:	Kathy Norris
SITE CONTACT ADDR LINE1:	PO Box 6004
SITE CONTACT ZIP:	San Ramon, CA 94583
SITE CONTACT COUNTRY:	UNITED STATES
SITE CONTACT PHONE NBR:	877-386-6044
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
FORM CONTACT COUNTRY:	UNITED STATES
FORM CONTACT PHONE NBR:	877-386-6044
FORM CONTACT EMAIL:	NAWTDesk@chevron.com
GEN STATUS CD:	XQG
MONTHLY GENERATION:	False

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

BATCH GENERATION: False
ONE TIME GENERATION: False
TRANSPORTS OWN WASTE: False
TRANSPORTS OTHRS 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 REREFINER: False
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False
USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 66498524
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 deferral: 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
EPA ID: WAD988515854
Facility Address 2: Not reported
TAX REG NBR: 409004486
NAICS CD: 42472
BUSINESS TYPE: Former Service Station
MAIL NAME: Unocal SS 6248
MAIL ADDR LINE1: PO BOX 399
MAIL CITY,ST,ZIP: EDMONDS, WA 98020
MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Balhir Gill & Jaswiinder Gill
LEGAL ORG TYPE: Private
LEGAL ADDR LINE1: 12932 SE 257th St

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

LEGAL CITY,ST,ZIP: Kent, WA 98301
LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: 253-630-6460
LEGAL EFFECTIVE DATE: 08/27/1996
LAND ORG NAME: Balhir Gill & Jaswiinder Gill
LAND ORG TYPE: Private
LAND PERSON NAME: Not reported
LAND ADDR LINE1: 12932 SE 257th St
LAND CITY,ST,ZIP: Kent, WA 98301
LAND COUNTRY: UNITED STATES
LAND PHONE NBR: 253-630-6460
OPERATOR ORG NAME: Balhir Gill & Jaswiinder Gill
OPERATOR ORG TYPE: Private
OPERATOR ADDR LINE1: 12932 SE 257th St
OPERATOR CITY,ST,ZIP: Kent, WA 98301
OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: 253-630-6460
OPERATOR EFFECTIVE DATE: 08/27/1996
SITE CONTACT NAME: Mark Brearley
SITE CONTACT ADDR LINE1: 152 3rd Ave South Suite 200
SITE CONTACT ZIP: Edmonds, WA 98020
SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: 425 640-7610
SITE CONTACT EMAIL: mbrearly@unocal.com
FORM CONTACT NAME: Mark Brearley
FORM CONTACT ADDR LINE1: 152 3rd Ave South Suite 200
FORM CONTACT CITY,ST,ZIP: Edmonds, WA 98020
FORM CONTACT COUNTRY: UNITED STATES
FORM CONTACT PHONE NBR: 425 640-7610
FORM CONTACT EMAIL: mbrearly@unocal.com
GEN STATUS CD: MQG
MONTHLY GENERATION: No
BATCH GENERATION: No
ONE TIME GENERATION: No
TRANSPORTS OWN WASTE: No
TRANSPORTS OTHRS 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 REREFINER: No
USED OIL FUEL MRKTR DIRECTS SHPMNTS: No
USED OIL FUEL MRKTR MEETS SPECS: No

Facility Site ID Number: 66498524
SWC Desc: wto2
FWC Desc: D001
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

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
EPA ID:	WAD988515854
Facility Address 2:	Not reported
TAX REG NBR:	409018069
NAICS CD:	447110
BUSINESS TYPE:	Gas Station
MAIL NAME:	Chevron USA
MAIL ADDR LINE1:	PO BOX 6004
MAIL CITY,ST,ZIP:	San Ramon, CA 94583
MAIL COUNTRY:	UNITED STATES
LEGAL ORG NAME:	Chevron USA
LEGAL ORG TYPE:	Private
LEGAL ADDR LINE1:	PO BOX 6004
LEGAL CITY,ST,ZIP:	San Ramon, CA 94583
LEGAL COUNTRY:	UNITED STATES
LEGAL PHONE NBR:	(925)842-3733
LEGAL EFFECTIVE DATE:	07/19/2002
LAND ORG NAME:	Chevron USA
LAND ORG TYPE:	Private
LAND PERSON NAME:	Not reported
LAND ADDR LINE1:	PO BOX 6004
LAND CITY,ST,ZIP:	San Ramon, CA 94583
LAND COUNTRY:	UNITED STATES
LAND PHONE NBR:	(925)842-3733
OPERATOR ORG NAME:	Chevron USA
OPERATOR ORG TYPE:	Private
OPERATOR ADDR LINE1:	PO Box 6004
OPERATOR CITY,ST,ZIP:	San Ramon, CA 94583
OPERATOR COUNTRY:	UNITED STATES
OPERATOR PHONE NBR:	(925)842-3733
OPERATOR EFFECTIVE DATE:	07/19/2002
SITE CONTACT NAME:	Jocko Rodriguez
SITE CONTACT ADDR LINE1:	PO Box 6004
SITE CONTACT ZIP:	San Ramon, CA 94583
SITE CONTACT COUNTRY:	UNITED STATES
SITE CONTACT PHONE NBR:	(925)842-3733
SITE CONTACT EMAIL:	NAWTDesk@chevron.com
FORM CONTACT NAME:	Jocko Rodriguez

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

FORM CONTACT ADDR LINE1: PO Box 6004
FORM CONTACT CITY,ST,ZIP: San Ramon, CA 94583
FORM CONTACT COUNTRY: UNITED STATES
FORM CONTACT PHONE NBR: (925)842-3733
FORM CONTACT EMAIL: NAWTDesk@chevron.com
GEN STATUS CD: MQG
MONTHLY GENERATION: True
BATCH GENERATION: False
ONE TIME GENERATION: False
TRANSPORTS OWN WASTE: False
TRANSPORTS OTHRS 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 REREFINER: False
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False
USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 66498524
SWC Desc: Not reported
FWC Desc: Not reported
Form Comm: Clean up site no waste generated in 2010
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 defferral: 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
EPA ID: WAD988515854
Facility Address 2: Not reported
TAX REG NBR: 409018069
NAICS CD: 447110
BUSINESS TYPE: Gas Station

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

MAIL NAME: Chevron USA
MAIL ADDR LINE1: PO BOX 6004
MAIL CITY,ST,ZIP: San Ramon, CA 94583
MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: Chevron USA
LEGAL ORG TYPE: Private
LEGAL ADDR LINE1: PO BOX 6004
LEGAL CITY,ST,ZIP: San Ramon, CA 94583
LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: 877-386-6044
LEGAL EFFECTIVE DATE: 07/19/2002
LAND ORG NAME: Chevron USA
LAND ORG TYPE: Private
LAND PERSON NAME: Not reported
LAND ADDR LINE1: PO BOX 6004
LAND CITY,ST,ZIP: San Ramon, CA 94583
LAND COUNTRY: UNITED STATES
LAND PHONE NBR: 877-386-6044
OPERATOR ORG NAME: Chevron USA
OPERATOR ORG TYPE: Private
OPERATOR ADDR LINE1: PO Box 6004
OPERATOR CITY,ST,ZIP: San Ramon, CA 94583
OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: 877-386-6044
OPERATOR EFFECTIVE DATE: 07/19/2002
SITE CONTACT NAME: Jocko Rodriguez
SITE CONTACT ADDR LINE1: PO Box 6004
SITE CONTACT ZIP: San Ramon, CA 94583
SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: 877-386-6044
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
FORM CONTACT COUNTRY: UNITED STATES
FORM CONTACT PHONE NBR: 877-386-6044
FORM CONTACT EMAIL: NAWTDesk@chevron.com
GEN STATUS CD: XQG
MONTHLY GENERATION: False
BATCH GENERATION: False
ONE TIME GENERATION: False
TRANSPORTS OWN WASTE: False
TRANSPORTS OTHRS 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 REREFINER: False
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False
USED OIL FUEL MRKTR MEETS SPECS: False

[Click this hyperlink](#) while viewing on your computer to access
1 additional WA MANIFEST: record(s) in the EDR Site Report.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

ICR:

Date Ecology Received Report: 06/09/98
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-05
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 01/11/99
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-13
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 01/08/99
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-15
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 07/09/99
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-17
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 02/02/00
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-23
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 06/09/00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-28
County Code:	17
Contact:	Not reported
Report Title:	May 2000 Semi-annual Ground Water Monitoring
Date Ecology Received Report:	04/17/96
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	94-31
County Code:	17
Contact:	Not reported
Report Title:	Not reported
Date Ecology Received Report:	06/12/91
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Not reported
Site Register Issue:	91-31
County Code:	17
Contact:	Not reported
Report Title:	Not reported
Date Ecology Received Report:	07/11/91
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:	92-03
County Code:	17
Contact:	Not reported
Report Title:	Not reported
Date Ecology Received Report:	07/16/91
Contaminants Found at Site:	Halogenated organic compounds, Petroleum products
Media Contaminated:	Groundwater, Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	92-02
County Code:	17
Contact:	Not reported
Report Title:	Not reported
Date Ecology Received Report:	09/26/96
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	94-41
County Code:	17
Contact:	Not reported
Report Title:	Not reported
Date Ecology Received Report:	12/13/00
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, 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:	November 2000 Semi-annual Ground Water Monitoring
Date Ecology Received Report:	06/21/01
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-39
County Code:	17
Contact:	Not reported
Report Title:	Semi-annual Ground Water Monitoring
Date Ecology Received Report:	11/29/01
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-43
County Code:	17
Contact:	Not reported
Report Title:	Ground Water Monitoring - November 2001
Date Ecology Received Report:	11/27/01
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Waste Management:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	98-43
County Code:	17
Contact:	Not reported
Report Title:	Ground Water Monitoring - November 2001
Date Ecology Received Report:	05/31/01
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Groundwater, Soil
Waste Management:	Tank
Region:	North Western

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEVRON 306536 (Continued)

1001490938

Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-37
County Code: 17
Contact: Not reported
Report Title: May 2001 Semiannual Ground Water Monitoring

Date Ecology Received Report: 12/24/02
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, 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: Fourth Quarter Ground Water Monitoring 2002

Date Ecology Received Report: 05/01/97
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 95-02
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: / /
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 95-12
County Code: 17
Contact: Not reported
Report Title: Not reported

32
South
1/2-1
0.612 mi.
3233 ft.

**KING CNTY ROAD DEPT BUR
13831 18TH AVE S
BURIEN, WA 98168**

**RCRA NonGen / NLR
FINDS
CSCSL
ALLSITES
HSL
LUST**

**1000199737
WAD988469961**

**Relative:
Lower**

RCRA NonGen / NLR:
Date form received by agency: 12/05/1989
Facility name: KING CNTY ROAD DEPT BUR
Facility address: 13831 18TH AVE S
BURIEN, WA 98168
EPA ID: WAD988469961
Mailing address: 3190 160TH AVE SE
BELLEVUE, WA 98008-5452
Contact: WA ECY WA ECY
Contact address: 3190 160TH AVE SE
BELLEVUE, WA 98008-5452
Contact country: US

**Actual:
305 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KING CNTY ROAD DEPT BUR (Continued)

1000199737

Contact telephone: (000)000-0000
Contact email: Not reported
EPA Region: 10
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: 13831 18TH AVE S
BURIEN, WA 98168
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
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110005351109

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.

CSCSL:

Facility ID: 76131767
Region: Northwest
Lat/Long: 47.479130233204 / -122.3109288641
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 6638

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KING CNTY ROAD DEPT BUR (Continued)

1000199737

Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Other
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

ALLSITES:

Facility Id: 76131767
Latitude: 47.4791302
Longitude: -122.31092
Ecology Interest Type Code: LUST
Facility ID: 76131767
Facility Company: SUNSET PARK
Interaction: I
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: SUNSET PIT
Program ID: NW0203
Date Interaction: 02/02/1999
Date Interaction 3: 02/02/1999

Facility ID: 76131767
Facility Company: SUNSET PARK
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: SUNSET PARK
Program ID: 6884
Date Interaction: 02/02/1999
Date Interaction 3: 02/02/1999

Facility ID: 76131767
Facility Company: SUNSET PARK
Interaction: A
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: SUNSET PARK
Program ID: NW1994
Date Interaction: 09/22/2008
Date Interaction 3: 09/22/2008

Facility ID: 76131767
Facility Company: SUNSET PARK
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KING CNTY ROAD DEPT BUR (Continued)

1000199737

Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	6884
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility Id:	76131767
Latitude:	47.4791302
Longitude:	-122.31092
Ecology Interest Type Code:	UST
Facility ID:	76131767
Facility Company:	SUNSET PARK
Interaction:	I
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	SUNSET PIT
Program ID:	NW0203
Date Interaction:	02/02/1999
Date Interaction 3:	02/02/1999
Facility ID:	76131767
Facility Company:	SUNSET PARK
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	SUNSET PARK
Program ID:	6884
Date Interaction:	02/02/1999
Date Interaction 3:	02/02/1999
Facility ID:	76131767
Facility Company:	SUNSET PARK
Interaction:	A
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	SUNSET PARK
Program ID:	NW1994
Date Interaction:	09/22/2008
Date Interaction 3:	09/22/2008
Facility ID:	76131767
Facility Company:	SUNSET PARK
Interaction:	I
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	6884

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KING CNTY ROAD DEPT BUR (Continued)

1000199737

Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

Facility Id: 57765579
Latitude: 47.47915
Longitude: -122.31058
Ecology Interest Type Code: HWG
Facility ID: 57765579
Facility Company: King Cnty Road Dept Bur
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988469961
Date Interaction: 12/05/1989
Date Interaction 3: 12/05/1989

Facility Id: 76131767
Latitude: 47.4791302
Longitude: -122.31092
Ecology Interest Type Code: VOLCLNST
Facility ID: 76131767
Facility Company: SUNSET PARK
Interaction: I
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: SUNSET PIT
Program ID: NW0203
Date Interaction: 02/02/1999
Date Interaction 3: 02/02/1999

Facility ID: 76131767
Facility Company: SUNSET PARK
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: SUNSET PARK
Program ID: 6884
Date Interaction: 02/02/1999
Date Interaction 3: 02/02/1999

Facility ID: 76131767
Facility Company: SUNSET PARK
Interaction: A
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: SUNSET PARK

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KING CNTY ROAD DEPT BUR (Continued)

1000199737

Program ID: NW1994
Date Interaction: 09/22/2008
Date Interaction 3: 09/22/2008

Facility ID: 76131767
Facility Company: SUNSET PARK
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 6884
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

HSL:

edr_fstat: WA
edr_fzip: Not reported
edr_fcnty: KING
edr_zip: Not reported
Facility Type: Hazardous Sites List
Facility Status: Cleanup Started
FSID Number: 76131767
Rank: 3
Region: NW
EDR Link ID: 76131767

LUST:

Facility ID: 76131767
Facility Status: Cleanup Started
Cleanup Site ID: 6638
Cleanup Unit Type: Upland
Process Type: Independent Action
Alternate Name: SUNSET PARK
Release Status Date: 05/26/1999
Site Response Unit Code: Northwest
Lat/Long: 47.4791302 / -122.31092

33
South
1/2-1
0.886 mi.
4677 ft.

JOES INCORPORATED
14260 DES MOINES MEMORIAL DR
SEATTLE, WA 98168

CSCSL **U001125733**
HSL **N/A**
ALLSITES
LUST
UST

Relative:
Lower

CSCSL:
Facility ID: 9911745
Region: Northwest
Lat/Long: 47.474390726869 / -122.3150410227
Brownfield Status: Not reported
Rank Status: 5
Clean Up Siteid: 7862
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Diesel
Ground Water: Not reported

Actual:
309 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES INCORPORATED (Continued)

U001125733

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

Facility ID: 9911745
Region: Northwest
Lat/Long: 47.474390726869 / -122.3150410227
Brownfield Status: Not reported
Rank Status: 5
Clean Up Siteid: 7861
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Benzene
Ground Water: Suspected
Surface Water: Not reported
Soil: Suspected
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 9911745
Region: Northwest
Lat/Long: 47.474390726869 / -122.3150410227
Brownfield Status: Not reported
Rank Status: 5
Clean Up Siteid: 7861
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Diesel
Ground Water: Suspected
Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 9911745
Region: Northwest
Lat/Long: 47.474390726869 / -122.3150410227
Brownfield Status: Not reported
Rank Status: 5
Clean Up Siteid: 7861
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Gasoline
Ground Water: Suspected
Surface Water: Not reported
Soil: Below MTCA Cleanup Level After Assessment
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES INCORPORATED (Continued)

U001125733

Facility ID: 9911745
Region: Northwest
Lat/Long: 47.474390726869 / -122.3150410227
Brownfield Status: Not reported
Rank Status: 5
Clean Up Siteid: 7861
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Other
Ground Water: Suspected
Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

HSL:

edr_fstat: WA
edr_fzip: Not reported
edr_fcnty: KING
edr_zip: Not reported
Facility Type: Hazardous Sites List
Facility Status: Cleanup Started
FSID Number: 9911745
Rank: 5
Region: NW
EDR Link ID: 9911745

edr_fstat: WA
edr_fzip: Not reported
edr_fcnty: KING
edr_zip: Not reported
Facility Type: Hazardous Sites List
Facility Status: Cleanup Started
FSID Number: 9911745
Rank: 5
Region: NW
EDR Link ID: 9911745

ALLSITES:

Facility Id: 9911745
Latitude: 47.4743907
Longitude: -122.31504
Ecology Interest Type Code: LUST
Facility ID: 9911745
Facility Company: JOES INCORPORATED
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Burien Oil or Joe's Inc
Program ID: 9018
Date Interaction: 06/30/1995
Date Interaction 3: 06/30/1995

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES INCORPORATED (Continued)

U001125733

Facility ID:	9911745
Facility Company:	JOES INCORPORATED
Interaction:	A
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Joe's Inc
Program ID:	Not reported
Date Interaction:	07/26/1991
Date Interaction 3:	07/26/1991
Facility ID:	9911745
Facility Company:	JOES INCORPORATED
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	9018
Date Interaction:	07/15/1963
Date Interaction 3:	07/15/1963
Facility Id:	9911745
Latitude:	47.4743907
Longitude:	-122.31504
Ecology Interest Type Code:	SCS
Facility ID:	9911745
Facility Company:	JOES INCORPORATED
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Burien Oil or Joe's Inc
Program ID:	9018
Date Interaction:	06/30/1995
Date Interaction 3:	06/30/1995
Facility ID:	9911745
Facility Company:	JOES INCORPORATED
Interaction:	A
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Joe's Inc
Program ID:	Not reported
Date Interaction:	07/26/1991
Date Interaction 3:	07/26/1991
Facility ID:	9911745
Facility Company:	JOES INCORPORATED
Interaction:	A
Interaction 1:	UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES INCORPORATED (Continued)

U001125733

Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 9018
Date Interaction: 07/15/1963
Date Interaction 3: 07/15/1963

Facility Id: 9911745
Latitude: 47.4743907
Longitude: -122.31504
Ecology Interest Type Code: UST
Facility ID: 9911745
Facility Company: JOES INCORPORATED
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Burien Oil or Joe's Inc
Program ID: 9018
Date Interaction: 06/30/1995
Date Interaction 3: 06/30/1995

Facility ID: 9911745
Facility Company: JOES INCORPORATED
Interaction: A
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Joe's Inc
Program ID: Not reported
Date Interaction: 07/26/1991
Date Interaction 3: 07/26/1991

Facility ID: 9911745
Facility Company: JOES INCORPORATED
Interaction: A
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 9018
Date Interaction: 07/15/1963
Date Interaction 3: 07/15/1963

LUST:

Facility ID: 9911745
Facility Status: RCU
Cleanup Site ID: 7861
Cleanup Unit Type: Upland
Process Type: Independent Action
Alternate Name: BURIEN FUEL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES INCORPORATED (Continued)

U001125733

Release Status Date: 06/01/1995
Site Response Unit Code: Northwest
Lat/Long: 47.4743907 / -122.31504

Facility ID: 9911745
Facility Status: Cleanup Started
Cleanup Site ID: 7862
Cleanup Unit Type: Upland
Process Type: Independent Action
Alternate Name: BURIEN OIL OR JOE'S INC
Release Status Date: 07/06/1995
Site Response Unit Code: Northwest
Lat/Long: 47.4743907 / -122.31504

Facility ID: 9911745
Facility Status: Cleanup Started
Cleanup Site ID: 7861
Cleanup Unit Type: Upland
Process Type: Independent Action
Alternate Name: BURIEN FUEL
Release Status Date: 07/26/1991
Site Response Unit Code: Northwest
Lat/Long: 47.4743907 / -122.31504

Facility ID: 9911745
Facility Status: Cleanup Started
Cleanup Site ID: 7861
Cleanup Unit Type: Upland
Process Type: Independent Action
Alternate Name: BURIEN FUEL
Release Status Date: 07/01/2011
Site Response Unit Code: Northwest
Lat/Long: 47.4743907 / -122.31504

UST:

Facility ID: 9911745
Site Id: 9018
UBI: 5780821490010001
Phone Number: 2062441136
Decimal Latitude: 47.47439073
Decimal Longitude: -122.315041

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: 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES INCORPORATED (Continued)

U001125733

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: Not reported
Responsible Unit: NORTHWEST
Dispenser/Pump SFC Type: Not reported

Tank Name: 10
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/15/1983
Tank Closure Date: Not reported
Capacity Range: Not reported
Tank Permit Expiration Date: 07/01/1995
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: 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: Not reported
Responsible Unit: NORTHWEST
Dispenser/Pump SFC Type: Not reported

Tank Name: 11
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/15/1983
Tank Closure Date: Not reported
Capacity Range: Not reported
Tank Permit Expiration Date: 07/01/1995
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES INCORPORATED (Continued)

U001125733

Tank Release Detection: Manual Inventory Control (daily)
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: Not reported
Responsible Unit: NORTHWEST
Dispenser/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: 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: 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
Dispenser/Pump SFC Type: Not reported

Tank Name: 3
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: 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES INCORPORATED (Continued)

U001125733

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: Not reported
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 4
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/15/1963
Tank Closure Date: Not reported
Capacity Range: Not reported
Tank Permit Expiration Date: 07/01/1995
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: Not reported
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: Non-Safe Suction
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 5
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/15/1963
Tank Closure Date: Not reported
Capacity Range: Not reported
Tank Permit Expiration Date: 07/01/1995
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: Manual Inventory Control (daily)
Tank SFC Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES INCORPORATED (Continued)

U001125733

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: Non-Safe Suction
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 6
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: 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: 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: 7
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: 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: Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES INCORPORATED (Continued)

U001125733

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
Dispenser/Pump SFC Type: Not reported

Tank Name: 8
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: 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: 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
Dispenser/Pump SFC Type: Not reported

Tank Name: 9
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: 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: Steel
Pipe Construction: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES INCORPORATED (Continued)

U001125733

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
Dispenser/Pump SFC Type: Not reported

34
South
1/2-1
0.966 mi.
5102 ft.

SKAGIT CARDLOCK SYSTEMS
1423 S 144TH
SEATAC, WA 98188

CSCSL
ALLSITES
UST
VCP

U004040768
N/A

Relative:
Lower

CSCSL:
Facility ID: 43333882
Region: Northwest
Lat/Long: 47.474330999999 / -122.315136
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 12321
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

Actual:
304 ft.

Facility ID: 43333882
Region: Northwest
Lat/Long: 47.474330999999 / -122.315136
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 12321
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

ALLSITES:
Facility Id: 43333882
Latitude: 47.474331
Longitude: -122.31513
Ecology Interest Type Code: TIER2
Facility ID: 43333882
Facility Company: DELTA WESTERN SEATAC
Interaction: I
Interaction 1: TIER2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SKAGIT CARDLOCK SYSTEMS (Continued)

U004040768

Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: CRK000043170
Date Interaction: 01/01/1996
Date Interaction 3: 01/01/1996

Facility Id: 43333882
Latitude: 47.474331
Longitude: -122.31513
Ecology Interest Type Code: UST
Facility ID: 43333882
Facility Company: DELTA WESTERN SEATAC
Interaction: I
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: CRK000043170
Date Interaction: 01/01/1996
Date Interaction 3: 01/01/1996

Facility Id: 43333882
Latitude: 47.474331
Longitude: -122.31513
Ecology Interest Type Code: LUST
Facility ID: 43333882
Facility Company: DELTA WESTERN SEATAC
Interaction: I
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: CRK000043170
Date Interaction: 01/01/1996
Date Interaction 3: 01/01/1996

Facility Id: 43333882
Latitude: 47.474331
Longitude: -122.31513
Ecology Interest Type Code: VOLCLNST
Facility ID: 43333882
Facility Company: DELTA WESTERN SEATAC
Interaction: I
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: CRK000043170
Date Interaction: 01/01/1996

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SKAGIT CARDLOCK SYSTEMS (Continued)

U004040768

Date Interaction 3: 01/01/1996

UST:

Facility ID: 43333882
Site Id: 3527
UBI: 6011806390010007
Phone Number: 2066131447
Decimal Latitude: 47.474331
Decimal Longitude: -122.315136

Tank Name: 1
Tag Number: A3803
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: 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
Dispenser/Pump SFC Type: Not reported

Tank Name: 2
Tag Number: A3803
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: 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SKAGIT CARDLOCK SYSTEMS (Continued)

U004040768

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: A3803
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: 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: 4
Tag Number: A3803
Tank Status: Removed
Tank Status Date: 02/13/1997
Tank Install Date: 00/30/1996
Tank Closure Date: 06/29/2004
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 05/31/2005
Tank Upgrade Date: 11/30/1996
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)
Tank Material: Steel Clad with Corrosion Resistant Composite
Tank Construction: Double 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: Flexible Piping

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SKAGIT CARDLOCK SYSTEMS (Continued)

U004040768

Pipe Construction: Double 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
Dispenser/Pump SFC Type: Not reported

Tank Name: 5
Tag Number: A3803
Tank Status: Removed
Tank Status Date: 02/13/1997
Tank Install Date: 00/30/1996
Tank Closure Date: 06/29/2004
Capacity Range: 5,000 to 9,999 Gallons
Tank Permit Expiration Date: 05/31/2005
Tank Upgrade Date: 11/30/1996
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Automatic Shutoff (fill pipe)
Tank Material: Steel Clad with Corrosion Resistant Composite
Tank Construction: Double 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: Flexible Piping
Pipe Construction: Double 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
Dispenser/Pump SFC Type: Not reported

VCP:

edr_fstat: WA
edr_fzip: 98188
edr_fcnty: KING COUNTY
edr_zip: Not reported
Facility ID: 43333882
VCP Status: VCP
VCP: Not reported
Ecology Status: Cleanup Started
NFA Type: Cleanup Started
Date NFA: Cleanup Started
Rank: Cleanup Started

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

35
East
1/2-1
0.976 mi.
5154 ft.

SABEY HOMELAND SECURITY BLDG
12500 TUKWILA INTERNATIONAL BLVD
SEATTLE, WA 98168

CSCSL
ALLSITES
LUST
UST
VCP

U004041016
N/A

Relative:
Lower

CSCSL:

Actual:
78 ft.

Facility ID: 6503860
Region: Northwest
Lat/Long: 47.488740999999 / -122.2911650000
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 7706
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Benzene
Ground Water: Not reported
Surface Water: Not reported
Soil: Remediated-Below Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 6503860
Region: Northwest
Lat/Long: 47.488740999999 / -122.2911650000
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 7706
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Diesel
Ground Water: Not reported
Surface Water: Not reported
Soil: Remediated-Below Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 6503860
Region: Northwest
Lat/Long: 47.488740999999 / -122.2911650000
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 7706
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Gasoline
Ground Water: Not reported
Surface Water: Not reported
Soil: Remediated-Below Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 6503860

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SABEY HOMELAND SECURITY BLDG (Continued)

U004041016

Region: Northwest
Lat/Long: 47.488740999999 / -122.2911650000
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 7706
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum-Other
Ground Water: Not reported
Surface Water: Not reported
Soil: Remediated-Below Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

ALLSITES:

Facility Id: 6503860
Latitude: 47.488741
Longitude: -122.29116
Ecology Interest Type Code: VOLCLNST
Facility ID: 6503860
Facility Company: HOMELAND SECURITY BLDG
Interaction: I
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 619057
Date Interaction: 12/11/2003
Date Interaction 3: 12/11/2003

Facility ID: 6503860
Facility Company: HOMELAND SECURITY BLDG
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 619057
Date Interaction: 09/02/2004
Date Interaction 3: 09/02/2004

Facility ID: 6503860
Facility Company: HOMELAND SECURITY BLDG
Interaction: A
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: HOMELAND SECURITY BLDG
Program ID: NW2768
Date Interaction: 08/12/2013
Date Interaction 3: 08/12/2013

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SABEY HOMELAND SECURITY BLDG (Continued)

U004041016

Facility/Site Interaction T: 19008
Geographic Location Identifier (Alias Facid): 6503860
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility
Interaction Status: I
Federal Program Identifier: 619057
Interaction Start Date: 12/11/2003
Interaction End Date: 04/05/2005
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility/Site Interaction T: 19009
Geographic Location Identifier (Alias Facid): 6503860
Interaction (Aka Env Int) Type Code: UST
Interaction (Aka Env Int) Description: Underground Storage Tank
Interaction Status: I
Federal Program Identifier: 619057
Interaction Start Date: 09/02/2004
Interaction End Date: 09/22/2004
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility Id: 6503860
Latitude: 47.488741
Longitude: -122.29116
Ecology Interest Type Code: UST
Facility ID: 6503860
Facility Company: HOMELAND SECURITY BLDG
Interaction: I
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 619057
Date Interaction: 12/11/2003
Date Interaction 3: 12/11/2003

Facility ID: 6503860
Facility Company: HOMELAND SECURITY BLDG
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 619057
Date Interaction: 09/02/2004
Date Interaction 3: 09/02/2004

Facility ID: 6503860
Facility Company: HOMELAND SECURITY BLDG
Interaction: A
Interaction 1: VOLCLNST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SABEY HOMELAND SECURITY BLDG (Continued)

U004041016

Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: HOMELAND SECURITY BLDG
Program ID: NW2768
Date Interaction: 08/12/2013
Date Interaction 3: 08/12/2013

Facility/Site Interaction T: 19008
Geographic Location Identifier (Alias Facid): 6503860
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility
Interaction Status: I
Federal Program Identifier: 619057
Interaction Start Date: 12/11/2003
Interaction End Date: 04/05/2005
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility/Site Interaction T: 19009
Geographic Location Identifier (Alias Facid): 6503860
Interaction (Aka Env Int) Type Code: UST
Interaction (Aka Env Int) Description: Underground Storage Tank
Interaction Status: I
Federal Program Identifier: 619057
Interaction Start Date: 09/02/2004
Interaction End Date: 09/22/2004
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility Id: 6503860
Latitude: 47.488741
Longitude: -122.29116
Ecology Interest Type Code: LUST
Facility ID: 6503860
Facility Company: HOMELAND SECURITY BLDG
Interaction: I
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 619057
Date Interaction: 12/11/2003
Date Interaction 3: 12/11/2003

Facility ID: 6503860
Facility Company: HOMELAND SECURITY BLDG
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SABEY HOMELAND SECURITY BLDG (Continued)

U004041016

Program ID: 619057
Date Interaction: 09/02/2004
Date Interaction 3: 09/02/2004

Facility ID: 6503860
Facility Company: HOMELAND SECURITY BLDG
Interaction: A
Interaction 1: VOLCLNST
Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: HOMELAND SECURITY BLDG
Program ID: NW2768
Date Interaction: 08/12/2013
Date Interaction 3: 08/12/2013

Facility/Site Interaction T: 19008
Geographic Location Identifier (Alias Facid): 6503860
Interaction (Aka Env Int) Type Code: LUST
Interaction (Aka Env Int) Description: LUST Facility
Interaction Status: I
Federal Program Identifier: 619057
Interaction Start Date: 12/11/2003
Interaction End Date: 04/05/2005
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility/Site Interaction T: 19009
Geographic Location Identifier (Alias Facid): 6503860
Interaction (Aka Env Int) Type Code: UST
Interaction (Aka Env Int) Description: Underground Storage Tank
Interaction Status: I
Federal Program Identifier: 619057
Interaction Start Date: 09/02/2004
Interaction End Date: 09/22/2004
prgm_facil: Not reported
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

LUST:

Facility ID: 6503860
Facility Status: RCU
Cleanup Site ID: 7706
Cleanup Unit Type: Upland
Process Type: Voluntary Cleanup Program
Alternate Name: US Dept of Homeland Security Bldg
Release Status Date: 11/22/2004
Site Response Unit Code: Northwest
Lat/Long: 47.4887409 / -122.29116

Facility ID: 6503860
Facility Status: Cleanup Started
Cleanup Site ID: 7706
Cleanup Unit Type: Upland
Process Type: Voluntary Cleanup Program

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SABEY HOMELAND SECURITY BLDG (Continued)

U004041016

Alternate Name: US Dept of Homeland Security Bldg
Release Status Date: 06/25/2003
Site Response Unit Code: Northwest
Lat/Long: 47.4887409 / -122.29116

Facility ID: 6503860
Facility Status: Cleanup Started
Cleanup Site ID: 7706
Cleanup Unit Type: Upland
Process Type: Voluntary Cleanup Program
Alternate Name: US Dept of Homeland Security Bldg
Release Status Date: 07/01/2011
Site Response Unit Code: Northwest
Lat/Long: 47.4887409 / -122.29116

UST:

Facility ID: 6503860
Site Id: 619057
UBI: Not reported
Phone Number: Not reported
Decimal Latitude: 47.488741
Decimal Longitude: -122.291165

Tank Name: 1
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 06/25/2003
Tank Install Date: Not reported
Tank Closure Date: 09/07/2004
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
Dispenser/Pump SFC Type: Not reported

Tank Name: 2
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 06/25/2003
Tank Install Date: Not reported
Tank Closure Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SABEY HOMELAND SECURITY BLDG (Continued)

U004041016

Capacity Range: 2,001 to 4,999 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: 3
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 06/25/2003
Tank Install Date: Not reported
Tank Closure Date: 09/07/2004
Capacity Range: 2,001 to 4,999 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: D
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 07/19/2004
Tank Install Date: Not reported
Tank Closure Date: 11/15/2004
Capacity Range: 5,000 to 9,999 Gallons

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SABEY HOMELAND SECURITY BLDG (Continued)

U004041016

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
Dispenser/Pump SFC Type: Not reported

Tank Name: E
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 07/30/2004
Tank Install Date: Not reported
Tank Closure Date: 11/15/2004
Capacity Range: 1,101 to 2,000 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
Dispenser/Pump SFC Type: Not reported

Tank Name: F
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 09/22/2004
Tank Install Date: Not reported
Tank Closure Date: 09/22/2004
Capacity Range: 1,101 to 2,000 Gallons
Tank Permit Expiration Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SABEY HOMELAND SECURITY BLDG (Continued)

U004041016

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

VCP:

edr_fstat: WA
edr_fzip: 98168
edr_fcnty: KING COUNTY
edr_zip: Not reported
Facility ID: 6503860
VCP Status: VCP
VCP: Not reported
Ecology Status: Cleanup Started
NFA Type: Cleanup Started
Date NFA: Cleanup Started
Rank: Cleanup Started

36
ENE
1/2-1
0.980 mi.
5173 ft.

**DUWAMISH FILL SITE DOT
S 124TH ST & SR 99
SEATTLE, WA 98168**

**CSCSL S103398157
ALLSITES N/A**

**Relative:
Lower**

CSCSL:

Facility ID: 2063
Region: Northwest
Lat/Long: 47.49156 / -122.29213
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 77
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Metals Priority Pollutants
Ground Water: Suspected
Surface Water: Suspected
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 2063

**Actual:
59 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUWAMISH FILL SITE DOT (Continued)

S103398157

Region: Northwest
Lat/Long: 47.49156 / -122.29213
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 77
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Non-Halogenated Solvents
Ground Water: Suspected
Surface Water: Suspected
Soil: Suspected
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 2063
Region: Northwest
Lat/Long: 47.49156 / -122.29213
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 77
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Pesticides-Unspecified
Ground Water: Suspected
Surface Water: Suspected
Soil: Suspected
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 2063
Region: Northwest
Lat/Long: 47.49156 / -122.29213
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 77
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Petroleum Products-Unspecified
Ground Water: Suspected
Surface Water: Suspected
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 2063
Region: Northwest
Lat/Long: 47.49156 / -122.29213
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 77
Site Status: Cleanup Started

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUWAMISH FILL SITE DOT (Continued)

S103398157

PSI?: Not reported
Contaminant Name: Phenolic Compounds
Ground Water: Suspected
Surface Water: Suspected
Soil: Suspected
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 2063
Region: Northwest
Lat/Long: 47.49156 / -122.29213
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 77
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Polychlorinated biPhenyls (PCB)
Ground Water: Suspected
Surface Water: Suspected
Soil: Suspected
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

Facility ID: 2063
Region: Northwest
Lat/Long: 47.49156 / -122.29213
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 77
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Polynuclear Aromatic Hydrocarbons
Ground Water: Suspected
Surface Water: Suspected
Soil: Suspected
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Northwest

ALLSITES:

Facility Id: 2063
Latitude: 47.49156
Longitude: -122.29213
Ecology Interest Type Code: SCS
Facility ID: 2063
Facility Company: DUWAMISH FILL SITE DOT
Interaction: A
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: DUWAMISH FILL SITE DOT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUWAMISH FILL SITE DOT (Continued)

S103398157

Program ID: Not reported
Date Interaction: 01/01/1900
Date Interaction 3: 01/01/1900

Facility/Site Interaction T: 3347
Geographic Location Identifier (Alias Facid): 2063
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site
Interaction Status: A
Federal Program Identifier: Not reported
Interaction Start Date: 01/01/1900
Interaction End Date: Not reported
prgm_facil: DUWAMISH FILL SITE DOT
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

E37
West
1/2-1
0.997 mi.
5264 ft.

CONOCOPHILLIPS 2701476
12660 1ST AVE S
SEATTLE, WA 98168
Site 1 of 2 in cluster E

Relative:
Higher

Actual:
411 ft.

RCRA NonGen / NLR **1000696999**
CSCSL **WAD988506689**
ALLSITES
LUST
UST
MANIFEST
SPILLS
ICR
VCP
Financial Assurance

RCRA NonGen / NLR:

Date form received by agency: 02/16/2009
Facility name: CONOCOPHILLIPS 2701476
Facility address: 12660 1ST AVE S
SEATTLE, WA 98168
EPA ID: WAD988506689
Mailing address: 600 NORTH DAIRY ASHFORD
HOUSTON, TX 77079
Contact: CONOCOPHILLIPS CONOCOPHILLIPS
Contact address: 600 NORTH DAIRY ASHFORD
HOUSTON, TX 77079
Contact country: US
Contact telephone: (000)000-0000
Contact email: Not reported
EPA Region: 10
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: CHI SUK OH
Owner/operator address: 12660 1ST AVE S
SEATTLE, WA 98168
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/21/1997
Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Owner/operator name: CONOCOPHILLIPS COMPANY
Owner/operator address: 600 NORTH DAIRY ASHFORD
HOUSTON, TX 77079
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/31/2003
Owner/Op end date: Not reported

Owner/operator name: CONOCOPHILLIPS C
Owner/operator address: 600 NORTH DAIRY ASHFORD
HOUSTON, TX 77079
Owner/operator country: US
Owner/operator telephone: (281)293-1000
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/31/2003
Owner/Op end date: Not reported

Owner/operator name: CHI SUK O
Owner/operator address: 12660 1ST AVE S
SEATTLE, WA 98168
Owner/operator country: US
Owner/operator telephone: (206)243-0235
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/21/1997
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: 12/31/2007
Site name: CONOCOPHILLIPS 2701476
Classification: Not a generator, verified

Date form received by agency: 12/31/2005
Site name: CONOCOPHILLIPS 2701476
Classification: Not a generator, verified

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Date form received by agency: 12/31/2003
Site name: CONOCOPHILLIPS 2701476
Classification: Not a generator, verified

Violation Status: No violations found

CSCSL:

Facility ID: 35395376
Region: Northwest
Lat/Long: 47.488959999999 / -122.3335699999
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 8839
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: 35395376
Region: Northwest
Lat/Long: 47.488959999999 / -122.3335699999
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 8839
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Other Non-Halogenated Organics
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: 35395376
Region: Northwest
Lat/Long: 47.488959999999 / -122.3335699999
Brownfield Status: Not reported
Rank Status: Not reported
Clean Up Siteid: 8839
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

ALLSITES:

Facility Id: 35395376
Latitude: 47.48896
Longitude: -122.33357
Ecology Interest Type Code: UST
Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 01/01/1988
Date Interaction 3: 01/01/1988

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 5748
Date Interaction: 01/29/1992
Date Interaction 3: 01/29/1992

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 05/19/1992
Date Interaction 3: 05/19/1992

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: HWOTHER
Interaction 2: Haz Waste Management Activity
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 12/31/2004
Date Interaction 3: 12/31/2004

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: HWOTHER

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Interaction 2: Haz Waste Management Activity
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 02/23/2007
Date Interaction 3: 02/23/2007

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	BURIEN 76
Program ID:	NW2718
Date Interaction:	04/29/2013
Date Interaction 3:	04/29/2013
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	5748
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility Id:	35395376
Latitude:	47.48896
Longitude:	-122.33357
Ecology Interest Type Code:	HWG
Facility ID:	35395376
Facility Company:	BURIEN 76

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Interaction: I
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 01/01/1988
Date Interaction 3: 01/01/1988

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 5748
Date Interaction: 01/29/1992
Date Interaction 3: 01/29/1992

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 05/19/1992
Date Interaction 3: 05/19/1992

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: HWOTHER
Interaction 2: Haz Waste Management Activity
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 12/31/2004
Date Interaction 3: 12/31/2004

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: HWOTHER
Interaction 2: Haz Waste Management Activity
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 02/23/2007
Date Interaction 3: 02/23/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	BURIEN 76
Program ID:	NW2718
Date Interaction:	04/29/2013
Date Interaction 3:	04/29/2013
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	5748
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility Id:	35395376
Latitude:	47.48896
Longitude:	-122.33357
Ecology Interest Type Code:	TIER2
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	01/01/1988

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Date Interaction 3:	01/01/1988
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	5748
Date Interaction:	01/29/1992
Date Interaction 3:	01/29/1992
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	05/19/1992
Date Interaction 3:	05/19/1992
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	12/31/2004
Date Interaction 3:	12/31/2004
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	02/23/2007
Date Interaction 3:	02/23/2007
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	BURIEN 76
Program ID:	NW2718
Date Interaction:	04/29/2013
Date Interaction 3:	04/29/2013
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	5748
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility Id:	35395376
Latitude:	47.48896
Longitude:	-122.33357
Ecology Interest Type Code:	HWOTHER
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	01/01/1988
Date Interaction 3:	01/01/1988
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	5748
Date Interaction:	01/29/1992
Date Interaction 3:	01/29/1992
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	05/19/1992
Date Interaction 3:	05/19/1992
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	12/31/2004
Date Interaction 3:	12/31/2004
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	02/23/2007
Date Interaction 3:	02/23/2007
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	BURIEN 76
Program ID:	NW2718
Date Interaction:	04/29/2013
Date Interaction 3:	04/29/2013
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST
Facility Alt.:	Not reported
Program ID:	5748
Date Interaction:	03/20/2000
Date Interaction 3:	03/20/2000
Facility Id:	35395376
Latitude:	47.48896
Longitude:	-122.33357
Ecology Interest Type Code:	LUST
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	01/01/1988
Date Interaction 3:	01/01/1988
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	LUST
Interaction 2:	LUST Facility
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	Not reported
Program ID:	5748
Date Interaction:	01/29/1992
Date Interaction 3:	01/29/1992
Facility ID:	35395376

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	05/19/1992
Date Interaction 3:	05/19/1992
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	12/31/2004
Date Interaction 3:	12/31/2004
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	02/23/2007
Date Interaction 3:	02/23/2007
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS

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Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	VOLCLNST

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EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Interaction 2: Voluntary Cleanup Sites
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: BURIEN 76
Program ID: NW2718
Date Interaction: 04/29/2013
Date Interaction 3: 04/29/2013

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 5748
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

Facility Id: 35395376
Latitude: 47.48896
Longitude: -122.33357
Ecology Interest Type Code: ENFORFNL
Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 01/01/1988
Date Interaction 3: 01/01/1988

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 5748
Date Interaction: 01/29/1992
Date Interaction 3: 01/29/1992

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported

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Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Program ID:	WAD988506689
Date Interaction:	05/19/1992
Date Interaction 3:	05/19/1992
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	12/31/2004
Date Interaction 3:	12/31/2004
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	I
Interaction 1:	HWOTHER
Interaction 2:	Haz Waste Management Activity
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD988506689
Date Interaction:	02/23/2007
Date Interaction 3:	02/23/2007
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	BURIEN 76
Program ID:	NW2718
Date Interaction:	04/29/2013
Date Interaction 3:	04/29/2013

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Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 5748
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

Facility Id: 35395376
Latitude: 47.48896
Longitude: -122.33357
Ecology Interest Type Code: VOLCLNST
Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 01/01/1988
Date Interaction 3: 01/01/1988

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 5748
Date Interaction: 01/29/1992
Date Interaction 3: 01/29/1992

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 05/19/1992
Date Interaction 3: 05/19/1992

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: I
Interaction 1: HWOTHER

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Interaction 2: Haz Waste Management Activity
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 12/31/2004
Date Interaction 3: 12/31/2004

Facility ID: 35395376
Facility Company: BURIE N 76
Interaction: I
Interaction 1: HWOTHER
Interaction 2: Haz Waste Management Activity
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD988506689
Date Interaction: 02/23/2007
Date Interaction 3: 02/23/2007

Facility ID: 35395376
Facility Company: BURIE N 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIE N 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIE N 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010
Date Interaction 3: 08/26/2010

Facility ID: 35395376
Facility Company: BURIEN 76
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: TOXICS
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 08/26/2010

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	TOXICS
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	08/26/2010
Date Interaction 3:	08/26/2010
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	BURIEN 76
Program ID:	NW2718
Date Interaction:	04/29/2013
Date Interaction 3:	04/29/2013
Facility ID:	35395376
Facility Company:	BURIEN 76
Interaction:	A
Interaction 1:	UST
Interaction 2:	Underground Storage Tank
Ecology Program:	TOXICS
Program Data:	UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Facility Alt.: Not reported
Program ID: 5748
Date Interaction: 03/20/2000
Date Interaction 3: 03/20/2000

LUST:

Facility ID: 35395376
Facility Status: Cleanup Started
Cleanup Site ID: 8839
Cleanup Unit Type: Upland
Process Type: Voluntary Cleanup Program
Alternate Name: CIRCLE K 1476
Release Status Date: 01/09/1995
Site Response Unit Code: Northwest
Lat/Long: 47.4889599 / -122.33356

Facility ID: 35395376
Facility Status: Monitoring
Cleanup Site ID: 8839
Cleanup Unit Type: Upland
Process Type: Voluntary Cleanup Program
Alternate Name: CIRCLE K 1476
Release Status Date: 05/07/1991
Site Response Unit Code: Northwest
Lat/Long: 47.4889599 / -122.33356

UST:

Facility ID: 35395376
Site Id: 5748
UBI: 6022958440010001
Phone Number: 2062430235
Decimal Latitude: 47.48896
Decimal Longitude: -122.33357

Tank Name: 1-REG
Tag Number: A0546
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1965
Tank Closure Date: Not reported
Capacity Range: 5,000 to 9,999 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

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

Tank Name: 1A-REG
Tag Number: A0546
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1976
Tank Closure Date: Not reported
Capacity Range: 5,000 to 9,999 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
Dispenser/Pump SFC Type: Not reported

Tank Name: 2-UNL
Tag Number: A0546
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1965
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 12/10/1994
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

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Pipe Corrosion Protection: Not reported
Pipe Pumping System: Not reported
Responsible Unit: NORTHWEST
Dispenser/Pump SFC Type: Not reported

Tank Name: 3-PREM
Tag Number: A0546
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1965
Tank Closure Date: Not reported
Capacity Range: 5,000 to 9,999 Gallons
Tank Permit Expiration Date: 12/10/1994
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
Dispenser/Pump SFC Type: Not reported

Tank Name: 4
Tag Number: A0546
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/10/1992
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 05/31/2015
Tank Upgrade Date: 02/10/1992
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: 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: Not reported
Pipe Corrosion Protection: Corrosion Resistant

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Pipe Pumping System: Pressurized System
Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 5
Tag Number: A0546
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/10/1992
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 05/31/2015
Tank Upgrade Date: 02/10/1992
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: 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: 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: A0546
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/10/1992
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 05/31/2015
Tank Upgrade Date: 02/10/1992
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: 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: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Pipe Pumping System: Pressurized System

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: UNKNOWNTANK
Tag Number: A0546
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: 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

WA MANIFEST:

Facility Site ID Number: 35395376
SWC Desc: Not reported
FWC Desc: Not reported
Form Comm: Site Sold
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

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
EPA ID: WAD988506689
Facility Address 2: Not reported
TAX REG NBR: 600115909
NAICS CD: 44711
BUSINESS TYPE: Not reported
MAIL NAME: ConocoPhillips Company
MAIL ADDR LINE1: 600 North Dairy Ashford
MAIL CITY,ST,ZIP: Houston, TX 77079
MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: ConocoPhillips Company
LEGAL ORG TYPE: Private
LEGAL ADDR LINE1: 600 North Dairy Ashford
LEGAL CITY,ST,ZIP: Houston, TX 77079
LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: 281-293-1000
LEGAL EFFECTIVE DATE: 12/31/2003
LAND ORG NAME: ConocoPhillips Company
LAND ORG TYPE: Private
LAND PERSON NAME: Not reported
LAND ADDR LINE1: 600 North Dairy Ashford
LAND CITY,ST,ZIP: Houston, TX 77079
LAND COUNTRY: UNITED STATES
LAND PHONE NBR: 281-293-1000
OPERATOR ORG NAME: Not reported
OPERATOR ORG TYPE: Private
OPERATOR ADDR LINE1: 12660 1st Ave S
OPERATOR CITY,ST,ZIP: SEATTLE, WA 98168
OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: 206-243-0235
OPERATOR EFFECTIVE DATE: 02/21/1997
SITE CONTACT NAME: Tiana Andriamanarivo
SITE CONTACT ADDR LINE1: 1380 San Pablo Ave
SITE CONTACT ZIP: Rodeo, CA 94572
SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: 510-245-5176
SITE CONTACT EMAIL: Irene.I.Jimenez@ConocoPhillips.com
FORM CONTACT NAME: Thomas R Border
FORM CONTACT ADDR LINE1: 600 North Dairy Ashford
FORM CONTACT CITY,ST,ZIP: Houston, TX 77079
FORM CONTACT COUNTRY: UNITED STATES
FORM CONTACT PHONE NBR: 281-293-4335
FORM CONTACT EMAIL: thomas.r.border@conocophillips.com
GEN STATUS CD: XQG
MONTHLY GENERATION: False
BATCH GENERATION: False
ONE TIME GENERATION: False
TRANSPORTS OWN WASTE: False
TRANSPORTS OTHRS WASTE: False
RECYCLER ONSITE: False
TRANSFER FACILITY: False
OTHER EXEMPTION: Not reported
UW BATTERY GEN: False

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

USED OIL TRANSPORTER: False
USED OIL TRANSFER FACILITY: False
USED OIL PROCESSOR: False
USED OIL REREFINER: False
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False
USED OIL FUEL MRKTR MEETS SPECS: False

Facility Site ID Number: 35395376
SWC Desc: Not reported
FWC Desc: Not reported
Form Comm: 3-1-06 Amended report per Marina to withdraw ID #. TW
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
EPA ID: WAD988506689
Facility Address 2: Not reported
TAX REG NBR: 600115909
NAICS CD: 44711
BUSINESS TYPE: Not reported
MAIL NAME: ConocoPhillips Company
MAIL ADDR LINE1: 600 North Dairy Ashford
MAIL CITY,ST,ZIP: Houston, TX 77079
MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: ConocoPhillips Company
LEGAL ORG TYPE: Private
LEGAL ADDR LINE1: 600 North Dairy Ashford
LEGAL CITY,ST,ZIP: Houston, TX 77079
LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: 281-293-1000
LEGAL EFFECTIVE DATE: 12/31/2003
LAND ORG NAME: ConocoPhillips Company
LAND ORG TYPE: Private
LAND PERSON NAME: Not reported
LAND ADDR LINE1: 600 North Dairy Ashford

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

LAND CITY,ST,ZIP: Houston, TX 77079
LAND COUNTRY: UNITED STATES
LAND PHONE NBR: 281-293-1000
OPERATOR ORG NAME: Not reported
OPERATOR ORG TYPE: Private
OPERATOR ADDR LINE1: 12660 1st Ave S
OPERATOR CITY,ST,ZIP: SEATTLE, WA 98168
OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: 206-243-0235
OPERATOR EFFECTIVE DATE: 02/21/1997
SITE CONTACT NAME: Tiana Andriamanarivo
SITE CONTACT ADDR LINE1: 1380 San Pablo Ave
SITE CONTACT ZIP: Rodeo, CA 94572
SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: 510-245-5176
SITE CONTACT EMAIL: Irene.I.Jimenez@ConocoPhillips.com
FORM CONTACT NAME: Thomas R Border
FORM CONTACT ADDR LINE1: 600 North Dairy Ashford
FORM CONTACT CITY,ST,ZIP: Houston, TX 77079
FORM CONTACT COUNTRY: UNITED STATES
FORM CONTACT PHONE NBR: 281-293-4335
FORM CONTACT EMAIL: thomas.r.border@conocophillips.com
GEN STATUS CD: XQG
MONTHLY GENERATION: FALSE
BATCH GENERATION: FALSE
ONE TIME GENERATION: FALSE
TRANSPORTS OWN WASTE: FALSE
TRANSPORTS OTHRS WASTE: FALSE
RECYCLER ONSITE: FALSE
TRANSFER FACILITY: FALSE
OTHER EXEMPTION: Not reported
UW BATTERY GEN: FALSE
USED OIL TRANSPORTER: FALSE
USED OIL TRANSFER FACLT: FALSE
USED OIL PROCESSOR: FALSE
USED OIL REREFINER: FALSE
USED OIL FUEL MRKTR DIRECTS SHPMNTS: FALSE
USED OIL FUEL MRKTR MEETS SPECS: FALSE

Facility Site ID Number: 35395376
SWC Desc: Not reported
FWC Desc: Not reported
Form Comm: 3-1-06 Amended report per Marina to withdraw ID #. TW
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

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
EPA ID: WAD988506689
Facility Address 2: Not reported
TAX REG NBR: 600115909
NAICS CD: 44711
BUSINESS TYPE: Not reported
MAIL NAME: ConocoPhillips Company
MAIL ADDR LINE1: 600 North Dairy Ashford
MAIL CITY,ST,ZIP: Houston, TX 77079
MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: ConocoPhillips Company
LEGAL ORG TYPE: Private
LEGAL ADDR LINE1: 600 North Dairy Ashford
LEGAL CITY,ST,ZIP: Houston, TX 77079
LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: 281-293-1000
LEGAL EFFECTIVE DATE: 12/31/2003
LAND ORG NAME: ConocoPhillips Company
LAND ORG TYPE: Private
LAND PERSON NAME: Not reported
LAND ADDR LINE1: 600 North Dairy Ashford
LAND CITY,ST,ZIP: Houston, TX 77079
LAND COUNTRY: UNITED STATES
LAND PHONE NBR: 281-293-1000
OPERATOR ORG NAME: Not reported
OPERATOR ORG TYPE: Private
OPERATOR ADDR LINE1: 12660 1st Ave S
OPERATOR CITY,ST,ZIP: SEATTLE, WA 98168
OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: 206-243-0235
OPERATOR EFFECTIVE DATE: 02/21/1997
SITE CONTACT NAME: Tiana Andriamanarivo
SITE CONTACT ADDR LINE1: 1380 San Pablo Ave
SITE CONTACT ZIP: Rodeo, CA 94572
SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: 510-245-5176
SITE CONTACT EMAIL: Irene.I.Jimenez@ConocoPhillips.com
FORM CONTACT NAME: Dee Santarose
FORM CONTACT ADDR LINE1: 600 North Dairy Ashford
FORM CONTACT CITY,ST,ZIP: Houston, TX 77079
FORM CONTACT COUNTRY: UNITED STATES
FORM CONTACT PHONE NBR: 281-293-1684
FORM CONTACT EMAIL: Marina.A.Tishkova@conocophillips.com
GEN STATUS CD: XQG
MONTHLY GENERATION: Yes
BATCH GENERATION: No

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

ONE TIME GENERATION: No
TRANSPORTS OWN WASTE: No
TRANSPORTS OTHRS WASTE: No
RECYCLER ONSITE: No
TRANSFER FACILITY: No
OTHER EXEMPTION: Not reported
UW BATTERY GEN: No
USED OIL TRANSPORTER: No
USED OIL TRANSFER FACLTY: No
USED OIL PROCESSOR: No
USED OIL REREFINER: No
USED OIL FUEL MRKTR DIRECTS SHPMNTS: No
USED OIL FUEL MRKTR MEETS SPECS: No

Facility Site ID Number: 35395376
SWC Desc: Not reported
FWC Desc: Not reported
Form Comm: 3-1-06 Amended report per Marina to withdraw ID #. TW
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
EPA ID: WAD988506689
Facility Address 2: Not reported
TAX REG NBR: 600115909
NAICS CD: 44711
BUSINESS TYPE: Not reported
MAIL NAME: ConocoPhillips Company
MAIL ADDR LINE1: 600 North Dairy Ashford
MAIL CITY,ST,ZIP: Houston, TX 77079
MAIL COUNTRY: UNITED STATES
LEGAL ORG NAME: ConocoPhillips Company
LEGAL ORG TYPE: Private
LEGAL ADDR LINE1: 600 North Dairy Ashford
LEGAL CITY,ST,ZIP: Houston, TX 77079

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

LEGAL COUNTRY: UNITED STATES
LEGAL PHONE NBR: 281-293-1000
LEGAL EFFECTIVE DATE: 12/31/2003
LAND ORG NAME: ConocoPhillips Company
LAND ORG TYPE: Private
LAND PERSON NAME: Not reported
LAND ADDR LINE1: 600 North Dairy Ashford
LAND CITY,ST,ZIP: Houston, TX 77079
LAND COUNTRY: UNITED STATES
LAND PHONE NBR: 281-293-1000
OPERATOR ORG NAME: Not reported
OPERATOR ORG TYPE: Private
OPERATOR ADDR LINE1: 12660 1st Ave S
OPERATOR CITY,ST,ZIP: SEATTLE, WA 98168
OPERATOR COUNTRY: UNITED STATES
OPERATOR PHONE NBR: 206-243-0235
OPERATOR EFFECTIVE DATE: 02/21/1997
SITE CONTACT NAME: Tiana Andriamanarivo
SITE CONTACT ADDR LINE1: 1380 San Pablo Ave
SITE CONTACT ZIP: Rodeo, CA 94572
SITE CONTACT COUNTRY: UNITED STATES
SITE CONTACT PHONE NBR: 510-245-5176
SITE CONTACT EMAIL: Irene.I.Jimenez@ConocoPhillips.com
FORM CONTACT NAME: Thomas R Border
FORM CONTACT ADDR LINE1: 600 North Dairy Ashford
FORM CONTACT CITY,ST,ZIP: Houston, TX 77079
FORM CONTACT COUNTRY: UNITED STATES
FORM CONTACT PHONE NBR: 281-293-4335
FORM CONTACT EMAIL: thomas.r.border@conocophillips.com
GEN STATUS CD: XQG
MONTHLY GENERATION: False
BATCH GENERATION: False
ONE TIME GENERATION: False
TRANSPORTS OWN WASTE: False
TRANSPORTS OTHRS 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 REREFINER: False
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False
USED OIL FUEL MRKTR MEETS SPECS: False

SPILLS:

Facility ID: 538208
Medium: Not reported
Material Desc: PETROLEUM - GASOLINE
Material Qty: 5
Material Units: GALLON
Date Received: 12/31/2003
Contact Name: UNK
Incident Date: Not reported

Map ID
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Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

ICR:

Date Ecology Received Report: 01/28/98
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil, DW
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: 03/31/98
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil, Groundwater, DW
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: 06/10/98
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, DW, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-11
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 11/06/98
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil, DW
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-11
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 01/05/99
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, DW, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-15
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 07/05/99

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

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

Date Ecology Received Report: 07/24/00
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, DW, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-28
County Code: 17
Contact: Not reported
Report Title: Sampling - May 2000

Date Ecology Received Report: 12/22/99
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, DW, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-27
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 03/23/00
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, DW, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-25
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 09/20/95
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-15
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 07/06/92
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 92-28
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 01/11/95
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 93-42
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 06/14/95
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-03
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 07/13/92
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: 92-28
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 08/10/94
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 93-38
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 11/02/95
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-13
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 12/26/95
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-19
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 05/20/96
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil, DW
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-28
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 09/11/96
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil, DW
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-36
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 09/14/99
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, DW, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-33
County Code: 17
Contact: Not reported
Report Title: Tosco Marketing Company Ground Water

Date Ecology Received Report: 10/30/01
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil, DW
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-43

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

County Code: 17
Contact: Not reported
Report Title: Third Quarter Ground Water Monitoring - August 2001

Date Ecology Received Report: 10/15/99
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, DW, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-43
County Code: 17
Contact: Not reported
Report Title: Third Quarter Ground Water Monitoring - August 1999

Date Ecology Received Report: 05/01/97
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil, DW
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 95-01
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 03/26/97
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil, DW
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 95-01
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 08/06/01
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, DW, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-40
County Code: 17
Contact: Not reported
Report Title: Ground Water Monitoring - Second Quarter 2001

Date Ecology Received Report: 02/04/02
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, DW, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-45
County Code: 17
Contact: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Report Title: Fourth Quarter Ground Water Monitoring - November 2001

Date Ecology Received Report: 04/09/01
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, DW, 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: Sampling - February 2001

Date Ecology Received Report: 09/12/02
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, DW, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 98-52
County Code: 17
Contact: Not reported
Report Title: Second Quarter Ground Water Monitoring 2002

Date Ecology Received Report: 11/06/97
Contaminants Found at Site: Petroleum products
Media Contaminated: DW, Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 95-13
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 08/29/97
Contaminants Found at Site: Petroleum products
Media Contaminated: DW, Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 95-13
County Code: 17
Contact: Not reported
Report Title: Not reported

Date Ecology Received Report: 11/06/97
Contaminants Found at Site: Petroleum products
Media Contaminated: DW, Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 95-13
County Code: 17
Contact: Not reported
Report Title: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONOCOPHILLIPS 2701476 (Continued)

1000696999

Date Ecology Received Report: 08/29/97
Contaminants Found at Site: Petroleum products
Media Contaminated: DW, Groundwater, Soil
Waste Management: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 95-13
County Code: 17
Contact: Not reported
Report Title: Not reported

VCP:

edr_fstat: WA
edr_fzip: 98168
edr_fcnty: KING COUNTY
edr_zip: Not reported
Facility ID: 35395376
VCP Status: VCP
VCP: Not reported
Ecology Status: Cleanup Started
NFA Type: Cleanup Started
Date NFA: Cleanup Started
Rank: Cleanup Started

WA Financial Assurance 1:

edr_fstat: WA
edr_fzip: 98168
edr_fcnty: Not reported
edr_zip: Not reported
DOE Site ID: 5748
Site Type: PLIA
Financial Resp Type: Colony (GUS)
Inception Date: 06/13/2011
Expiration Date: 06/13/2012

E38
West
1/2-1
0.999 mi.
5273 ft.

BURIEN CITY OF RIGHT OF WAY
SW 128TH ST
BURIEN, WA 98146

Site 2 of 2 in cluster E

CSCSL
HSL
ALLSITES
LUST
UST

U003795450
N/A

Relative:
Higher

CSCSL:

Facility ID: 51076124
Region: Northwest
Lat/Long: 47.488366497236 / -122.3342578426
Brownfield Status: Not reported
Rank Status: 1
Clean Up Siteid: 9475
Site Status: Cleanup Started
PSI?: Not reported
Contaminant Name: Benzene
Ground Water: Not reported
Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported

Actual:
405 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BURIEN CITY OF RIGHT OF WAY (Continued)

U003795450

Responsible Unit: Northwest

Facility ID: 51076124
Region: Northwest
Lat/Long: 47.488366497236 / -122.3342578426
Brownfield Status: Not reported
Rank Status: 1
Clean Up Siteid: 9475
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

Facility ID: 51076124
Region: Northwest
Lat/Long: 47.488366497236 / -122.3342578426
Brownfield Status: Not reported
Rank Status: 1
Clean Up Siteid: 9475
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

HSL:

edr_fstat: WA
edr_fzip: Not reported
edr_fcnty: KING
edr_zip: Not reported
Facility Type: Hazardous Sites List
Facility Status: Cleanup Started
FSID Number: 51076124
Rank: 1
Region: NW
EDR Link ID: 51076124

ALLSITES:

Facility Id: 51076124
Latitude: 47.4883664
Longitude: -122.33425
Ecology Interest Type Code: UST
Facility ID: 51076124
Facility Company: BURIEN CITY RIGHT OF WAY
Interaction: I

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BURIEN CITY OF RIGHT OF WAY (Continued)

U003795450

Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 448285
Date Interaction: 04/14/1998
Date Interaction 3: 04/14/1998

Facility ID: 51076124
Facility Company: BURIEN CITY RIGHT OF WAY
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 448285
Date Interaction: 05/15/1998
Date Interaction 3: 05/15/1998

Facility Id: 51076124
Latitude: 47.4883664
Longitude: -122.33425
Ecology Interest Type Code: LUST
Facility ID: 51076124
Facility Company: BURIEN CITY RIGHT OF WAY
Interaction: I
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 448285
Date Interaction: 04/14/1998
Date Interaction 3: 04/14/1998

Facility ID: 51076124
Facility Company: BURIEN CITY RIGHT OF WAY
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 448285
Date Interaction: 05/15/1998
Date Interaction 3: 05/15/1998

LUST:
Facility ID: 51076124
Facility Status: Cleanup Started
Cleanup Site ID: 9475
Cleanup Unit Type: Upland
Process Type: Independent Action

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BURIEN CITY OF RIGHT OF WAY (Continued)

U003795450

Alternate Name: BURIEN CITY OF - RIGHT OF WAY
Release Status Date: 07/01/2011
Site Response Unit Code: Northwest
Lat/Long: 47.4883664 / -122.33425

Facility ID: 51076124
Facility Status: RCU
Cleanup Site ID: 9475
Cleanup Unit Type: Upland
Process Type: Independent Action
Alternate Name: BURIEN CITY OF - RIGHT OF WAY
Release Status Date: 09/28/2006
Site Response Unit Code: Northwest
Lat/Long: 47.4883664 / -122.33425

Facility ID: 51076124
Facility Status: Cleanup Started
Cleanup Site ID: 9475
Cleanup Unit Type: Upland
Process Type: Independent Action
Alternate Name: BURIEN CITY OF - RIGHT OF WAY
Release Status Date: 10/18/1997
Site Response Unit Code: Northwest
Lat/Long: 47.4883664 / -122.33425

UST:

Facility ID: 51076124
Site Id: 448285
UBI: Not reported
Phone Number: Not reported
Decimal Latitude: 47.4883665
Decimal Longitude: -122.3342578

Tank Name: 1
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 06/19/2001
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BURIEN CITY OF RIGHT OF WAY (Continued)

U003795450

Responsible Unit: NORTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 2
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 06/19/2001
Tank Install Date: 00/01/1964
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
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: Removed
Tank Status Date: 06/19/2001
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BURIEN CITY OF RIGHT OF WAY (Continued)

U003795450

Dispencer/Pump SFC Type: Not reported

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ALLENTOWN	1005445347	SEATTLE FREIGHT SERVICE INC SR 599	SR 599 & SR 99 N SIDE OF S BOU	98168	RCRA NonGen / NLR
KING COUNTY	1008033945	BRIDLE TRAILS SOUTH WATER SYSTEM	TLAZZARO		ICIS, FINDS
SEATAC	1007064397	SPU HIGHLINE WELL BOULEVARD PK	SW CORNER OF S 128TH & 20TH S		FINDS, ALLSITES
SEATAC	1007066346	SEA TAC INTERNATIONAL AIRPORT PACI	17205 PACIFIC WAY S		FINDS, CSCSL, ALLSITES, CSCSL NFA, LUST, UST
SEATTLE	1000271347	BERKLEY ENGINEERING CONST	S 124TH ST & HWY 99	98168	RCRA NonGen / NLR, ALLSITES
SEATTLE	S104971682	KING COUNTY STREET SWEEPING SITE	16TH AVE S & HWY 518	98168	ALLSITES, CSCSL NFA, VCP
SEATTLE	S103508058	LARRY'S MARKET	10525 HIGHWAY 99	98168	ICR
SEATTLE	1000199728	AIRPORT WAY DRUM	AIRPORT WAY S & BOEING ACCESS	98168	RCRA NonGen / NLR
SEATTLE	1005445541	WA DOT ALASKAN WAY VIADUCT PROJECT	ALASKAN WAY VIADUCT MP 28.61 T		FINDS, ALLSITES, MANIFEST
SEATTLE	1007075759	JOSEPH B MEDER	12025 DES MOINES WAY S		FINDS, ALLSITES, UST
SEATTLE	1007073996	DES MOINES SOC 070827	14420 DES MOINES WAY S		FINDS
SEATTLE	1007078126	UPRR DIAGONAL AVE S SPUR	60 DIAGONAL AVE S		FINDS, CSCSL, ALLSITES, LUST, UST
SEATTLE	1007070594	DISCOVERY PARK GOVERNMENT WAY	3801 GOVERNMENT WAY		FINDS
SEATTLE	1007453305	CROWN HILL	8757 HOLMAN RD NW & 8744 15TH		FINDS, ALLSITES, CSCSL NFA, VCP
SEATTLE	1007075300	ARCO LAKE CITY WAY	3860 LAKE CITY WAY NE		FINDS
SEATTLE	1008215199	SOUTH SEATTLE COMM. COLLEGE	6440 MAYNARD AVE S.		FINDS
SEATTLE	1007068085	10004D RIGHT OF WAY	1616 NORMAN S		FINDS
SEATTLE	1007076472	KINGDOM SOUTH PARKING LOT	SEATTLE TIDE LANDS		FINDS
SEATTLE	1007067364	EDWARD R HOFFER	3401 STONEWAY N		FINDS, CSCSL, ALLSITES, LUST, UST
TUKWILA	S109556049	I5 HWY 900 SPILL	I5 MP 157 NORTHBOUND AT HWY 90	98168	ALLSITES

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: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	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: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	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: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS 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.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/08/2014
	Data Release Frequency: Quarterly

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: 05/31/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/08/2013	Telephone: 703-603-8704
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 07/08/2014
Number of Days to Update: 151	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/08/2014
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
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: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
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: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
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: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
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: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

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: 03/19/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 703-603-0695
Date Made Active in Reports: 07/15/2014	Last EDR Contact: 06/05/2014
Number of Days to Update: 116	Next Scheduled EDR Contact: 09/22/2014
	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: 03/19/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 703-603-0695
Date Made Active in Reports: 07/15/2014	Last EDR Contact: 06/05/2014
Number of Days to Update: 116	Next Scheduled EDR Contact: 09/22/2014
	Data Release Frequency: Varies

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: 05/28/2014	Source: Department of the Navy
Date Data Arrived at EDR: 05/30/2014	Telephone: 843-820-7326
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/19/2014
Number of Days to Update: 18	Next Scheduled EDR Contact: 09/01/2014
	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: 09/30/2013	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 10/01/2013	Telephone: 202-267-2180
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 07/03/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 07/14/2014
	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: 02/26/2014	Source: Department of Ecology
Date Data Arrived at EDR: 03/21/2014	Telephone: 360-407-7200
Date Made Active in Reports: 04/22/2014	Last EDR Contact: 06/10/2014
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/22/2014
	Data Release Frequency: Semi-Annually

State- and tribal - equivalent CERCLIS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/22/2014	Source: Department of Ecology
Date Data Arrived at EDR: 04/24/2014	Telephone: 360-407-7200
Date Made Active in Reports: 05/05/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 11	Next Scheduled EDR Contact: 11/03/2014
	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: 09/25/2013	Source: Department of Ecology
Date Data Arrived at EDR: 09/25/2013	Telephone: 360-407-6132
Date Made Active in Reports: 10/16/2013	Last EDR Contact: 06/09/2014
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/22/2014
	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: 05/20/2014	Source: Department of Ecology
Date Data Arrived at EDR: 05/23/2014	Telephone: 360-407-7183
Date Made Active in Reports: 06/04/2014	Last EDR Contact: 05/20/2014
Number of Days to Update: 12	Next Scheduled EDR Contact: 09/01/2014
	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: 11/06/2013	Source: EPA Region 10
Date Data Arrived at EDR: 11/07/2013	Telephone: 206-553-2857
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 04/28/2014
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/10/2014
	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: 03/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2013	Telephone: 415-972-3372
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 07/22/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
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: 04/28/2014
Date Data Arrived at EDR: 05/01/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 47

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
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: 05/14/2014
Date Data Arrived at EDR: 05/15/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 61

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/20/2014
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: 04/24/2014
Date Data Arrived at EDR: 04/25/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 53

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/22/2014
Next Scheduled EDR Contact: 08/11/2014
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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/02/2014
Next Scheduled EDR Contact: 08/11/2014
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: 05/12/2014
Date Data Arrived at EDR: 05/12/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 36

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

State and tribal registered storage tank lists

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: 06/30/2014
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/08/2014
Number of Days to Update: 8

Source: Department of Ecology
Telephone: 360-407-7183
Last EDR Contact: 05/19/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/01/2014	Source: Department of Ecology
Date Data Arrived at EDR: 05/06/2014	Telephone: 360-407-7562
Date Made Active in Reports: 06/04/2014	Last EDR Contact: 05/05/2014
Number of Days to Update: 29	Next Scheduled EDR Contact: 08/18/2014
	Data Release Frequency: Varies

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: 05/07/2014	Source: EPA Region 8
Date Data Arrived at EDR: 05/09/2014	Telephone: 303-312-6137
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 39	Next Scheduled EDR Contact: 11/10/2014
	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: 04/04/2014	Source: EPA Region 10
Date Data Arrived at EDR: 04/08/2014	Telephone: 206-553-2857
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 70	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

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: 05/14/2014	Source: EPA Region 6
Date Data Arrived at EDR: 05/15/2014	Telephone: 214-665-7591
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 33	Next Scheduled EDR Contact: 11/10/2014
	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: 05/28/2014	Source: EPA Region 7
Date Data Arrived at EDR: 05/01/2014	Telephone: 913-551-7003
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 04/28/2014
Number of Days to Update: 47	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

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: 02/01/2013	Source: EPA, Region 1
Date Data Arrived at EDR: 05/01/2013	Telephone: 617-918-1313
Date Made Active in Reports: 01/27/2014	Last EDR Contact: 05/02/2014
Number of Days to Update: 271	Next Scheduled EDR Contact: 08/11/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/24/2014	Source: EPA Region 4
Date Data Arrived at EDR: 04/25/2014	Telephone: 404-562-9424
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 04/22/2014
Number of Days to Update: 53	Next Scheduled EDR Contact: 08/11/2014
	Data Release Frequency: Semi-Annually

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: 05/12/2014	Source: EPA Region 5
Date Data Arrived at EDR: 05/12/2014	Telephone: 312-886-6136
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 04/28/2014
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/10/2014
	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: 05/12/2014	Source: EPA Region 9
Date Data Arrived at EDR: 05/14/2014	Telephone: 415-972-3368
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/08/2014
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/27/2014
	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: 04/22/2014	Source: Department of Ecology
Date Data Arrived at EDR: 04/24/2014	Telephone: 360-407-7170
Date Made Active in Reports: 05/05/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 11	Next Scheduled EDR Contact: 11/03/2014
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

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: 04/22/2014	Source: Department of Ecology
Date Data Arrived at EDR: 04/29/2014	Telephone: 360-407-7200
Date Made Active in Reports: 05/05/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 6	Next Scheduled EDR Contact: 11/03/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Department of Ecology
Date Data Arrived at EDR: 01/03/2003	Telephone: 360-407-7200
Date Made Active in Reports: 01/22/2003	Last EDR Contact: 08/10/2009
Number of Days to Update: 19	Next Scheduled EDR Contact: 11/09/2009
	Data Release Frequency: No Update Planned

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

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: 03/20/2014	Source: EPA, Region 1
Date Data Arrived at EDR: 04/01/2014	Telephone: 617-918-1102
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/01/2014
Number of Days to Update: 77	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Varies

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: 04/22/2014	Source: Department of Ecology
Date Data Arrived at EDR: 04/24/2014	Telephone: 360-725-4030
Date Made Active in Reports: 05/05/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 11	Next Scheduled EDR Contact: 11/03/2014
	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: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/03/2014	Telephone: 202-566-2777
Date Made Active in Reports: 07/28/2014	Last EDR Contact: 07/03/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 10/06/2014
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Landfill / Solid Waste Disposal Sites

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: 07/25/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: No Update Planned

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

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: 06/13/2014
Next Scheduled EDR Contact: 09/22/2013
Data Release Frequency: Varies

SWRCY: Recycling Facility List

A listing of recycling center locations.

Date of Government Version: 04/29/2014
Date Data Arrived at EDR: 04/29/2014
Date Made Active in Reports: 05/14/2014
Number of Days to Update: 15

Source: Department of Ecology
Telephone: 360-407-6105
Last EDR Contact: 07/28/2014
Next Scheduled EDR Contact: 11/10/2014
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: 05/02/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/04/2014
Next Scheduled EDR Contact: 09/15/2014
Data Release Frequency: Quarterly

ALLSITES: Facility/Site Identification System Listing

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

Date of Government Version: 05/06/2014
Date Data Arrived at EDR: 05/07/2014
Date Made Active in Reports: 06/04/2014
Number of Days to Update: 28

Source: Department of Ecology
Telephone: 360-407-6423
Last EDR Contact: 05/05/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Quarterly

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: 04/22/2014
Date Data Arrived at EDR: 04/24/2014
Date Made Active in Reports: 05/05/2014
Number of Days to Update: 11

Source: Department of Ecology
Telephone: 360-407-7170
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Semi-Annually

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: 05/13/2014
Date Data Arrived at EDR: 05/16/2014
Date Made Active in Reports: 06/04/2014
Number of Days to Update: 19

Source: Department of Health
Telephone: 360-236-3380
Last EDR Contact: 05/12/2014
Next Scheduled EDR Contact: 08/25/2014
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

US HIST CDL: National Clandestine Laboratory Register

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: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/04/2014
Next Scheduled EDR Contact: 09/15/2014
Data Release Frequency: No Update Planned

Local Land Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/18/2014	Telephone: 202-564-6023
Date Made Active in Reports: 04/24/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/10/2014
	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: 03/31/2014	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/01/2014	Telephone: 202-366-4555
Date Made Active in Reports: 07/15/2014	Last EDR Contact: 07/01/2014
Number of Days to Update: 105	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Annually

SPILLS: Reported Spills

Spills reported to the Spill Prevention, Preparedness and Response Division.

Date of Government Version: 06/12/2014	Source: Department of Ecology
Date Data Arrived at EDR: 06/13/2014	Telephone: 360-407-6950
Date Made Active in Reports: 07/11/2014	Last EDR Contact: 06/09/2014
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/22/2014
	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	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/06/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/11/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/13/2014	Telephone: (206) 553-1200
Date Made Active in Reports: 04/09/2014	Last EDR Contact: 07/02/2014
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/06/2014
Next Scheduled EDR Contact: 08/18/2014
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: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

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: 12/31/2012
Date Data Arrived at EDR: 02/28/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 55

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/04/2014
Next Scheduled EDR Contact: 09/22/2014
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: 12/31/2013
Date Data Arrived at EDR: 01/24/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/30/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

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: 06/10/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Annually

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: 02/25/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/30/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 132

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/06/2014
Next Scheduled EDR Contact: 09/15/2014
Data Release Frequency: Semi-Annually

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: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/30/2014
Next Scheduled EDR Contact: 09/08/2014
Data Release Frequency: Annually

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: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Every 4 Years

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: 05/22/2014
Next Scheduled EDR Contact: 09/08/2014
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: 05/22/2014
Next Scheduled EDR Contact: 09/08/2014
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
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: 05/06/2014
Date Data Arrived at EDR: 05/16/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 10/27/2014
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: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

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: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/05/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/07/2014
Date Data Arrived at EDR: 07/10/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 18

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/10/2014
Next Scheduled EDR Contact: 10/20/2014
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: 11/18/2013
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 03/12/2014
Number of Days to Update: 13

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 06/13/2014
Next Scheduled EDR Contact: 09/22/2014
Data Release Frequency: Quarterly

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

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: 04/01/2014
Date Data Arrived at EDR: 05/23/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/30/2014
Next Scheduled EDR Contact: 09/08/2014
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: Underground Injection Wells Listing

A listing of underground injection wells.

Date of Government Version: 05/20/2014

Date Data Arrived at EDR: 05/22/2014

Date Made Active in Reports: 06/09/2014

Number of Days to Update: 18

Source: Department of Ecology

Telephone: 360-407-6143

Last EDR Contact: 05/22/2014

Next Scheduled EDR Contact: 09/01/2014

Data Release Frequency: Varies

WA MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2013

Date Data Arrived at EDR: 05/23/2014

Date Made Active in Reports: 06/04/2014

Number of Days to Update: 12

Source: Department of Ecology

Telephone: N/A

Last EDR Contact: 07/16/2014

Next Scheduled EDR Contact: 11/03/2014

Data Release Frequency: Annually

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: 12/31/2013

Date Data Arrived at EDR: 05/23/2014

Date Made Active in Reports: 06/04/2014

Number of Days to Update: 12

Source: Department of Ecology

Telephone: 360-407-6732

Last EDR Contact: 07/16/2014

Next Scheduled EDR Contact: 11/03/2014

Data Release Frequency: Varies

NPDES: Water Quality Permit System Data

A listing of permitted wastewater facilities.

Date of Government Version: 05/05/2014

Date Data Arrived at EDR: 05/05/2014

Date Made Active in Reports: 06/04/2014

Number of Days to Update: 30

Source: Department of Ecology

Telephone: 360-407-6073

Last EDR Contact: 07/22/2014

Next Scheduled EDR Contact: 11/03/2014

Data Release Frequency: Quarterly

AIRS (EMI): Washington Emissions Data System

Emissions inventory data.

Date of Government Version: 12/31/2012

Date Data Arrived at EDR: 03/28/2014

Date Made Active in Reports: 04/22/2014

Number of Days to Update: 25

Source: Department of Ecology

Telephone: 360-407-6040

Last EDR Contact: 06/23/2014

Next Scheduled EDR Contact: 10/06/2014

Data Release Frequency: Annually

INACTIVE DRYCLEANERS: Inactive Drycleaners

A listing of inactive drycleaner facility locations.

Date of Government Version: 12/31/2013

Date Data Arrived at EDR: 05/23/2014

Date Made Active in Reports: 06/04/2014

Number of Days to Update: 12

Source: Department of Ecology

Telephone: 360-407-6732

Last EDR Contact: 07/16/2014

Next Scheduled EDR Contact: 11/03/2014

Data Release Frequency: Annually

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: 12/31/2005

Date Data Arrived at EDR: 12/08/2006

Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710

Last EDR Contact: 07/18/2014

Next Scheduled EDR Contact: 10/27/2014

Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 07/25/2014
Number of Days to Update: 54	Next Scheduled EDR Contact: 11/03/2014
	Data Release Frequency: Varies

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	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/18/2014
Number of Days to Update: 339	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: N/A

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013	Source: EPA
Date Data Arrived at EDR: 07/03/2013	Telephone: 202-564-6023
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 07/01/2014
Number of Days to Update: 72	Next Scheduled EDR Contact: 10/13/2014
	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: 11/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 05/16/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 08/25/2014
	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 1931 and 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	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/04/2014
Date Data Arrived at EDR: 06/12/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/20/2014
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: 05/23/2011
Date Data Arrived at EDR: 05/26/2011
Date Made Active in Reports: 06/27/2011
Number of Days to Update: 32

Source: Department of Ecology
Telephone: 360-407-6754
Last EDR Contact: 05/19/2014
Next Scheduled EDR Contact: 09/01/2014
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: 06/19/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 38

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/16/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Quarterly

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: 05/19/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Varies

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: 05/16/2014
Next Scheduled EDR Contact: 08/25/2014
Data Release Frequency: Quarterly

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: 05/19/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 07/18/2014
Number of Days to Update: 76	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 06/20/2013	Source: Department of Ecology
Date Data Arrived at EDR: 06/21/2013	Telephone: 360-407-6933
Date Made Active in Reports: 07/25/2013	Last EDR Contact: 06/09/2014
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/22/2014
	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: 03/14/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/11/2014	Telephone: N/A
Date Made Active in Reports: 07/28/2014	Last EDR Contact: 06/11/2014
Number of Days to Update: 47	Next Scheduled EDR Contact: 09/22/2014
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 05/02/2014
Number of Days to Update: 83	Next Scheduled EDR Contact: 08/11/2014
	Data Release Frequency: Varies

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: 10/23/2013	Source: EPA
Date Data Arrived at EDR: 11/06/2013	Telephone: 202-564-2496
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 06/25/2014
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/23/2013	Source: EPA
Date Data Arrived at EDR: 11/06/2013	Telephone: 202-564-2496
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 06/25/2014
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/13/2014
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 US Hist Auto Stat: 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 US Hist Cleaners: 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 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

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:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/26/2014
Next Scheduled EDR Contact: 10/06/2014
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: 05/23/2014
Next Scheduled EDR Contact: 09/01/2014
Data Release Frequency: Annually

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/01/2014
Date Data Arrived at EDR: 05/07/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/07/2014
Next Scheduled EDR Contact: 08/18/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 09/27/2013
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/16/2014
Next Scheduled EDR Contact: 09/29/2014
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

12807 DES MOINES WAY, SOUTH
12807 DES MOINES WAY, SOUTH
SEATTLE, WA 98168

TARGET PROPERTY COORDINATES

Latitude (North):	47.4883 - 47° 29' 17.88"
Longitude (West):	122.3122 - 122° 18' 43.92"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	551813.6
UTM Y (Meters):	5259440.0
Elevation:	375 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	47122-D3 DES MOINES, WA
Most Recent Revision:	1995
North Map:	47122-E3 SEATTLE SOUTH, WA
Most Recent Revision:	1983

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).

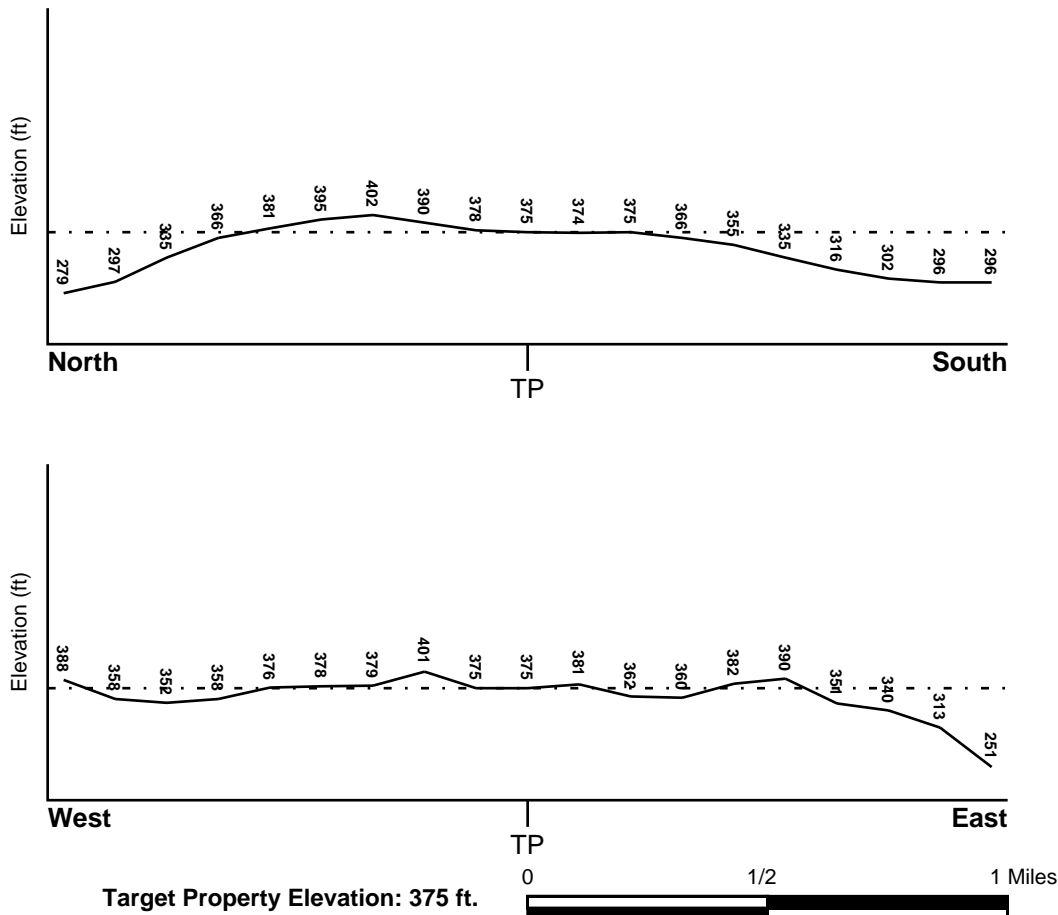
TOPOGRAPHIC INFORMATION

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 ESE

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

Target Property County
KING, WA

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 53033C0960F - FEMA Q3 Flood data

Additional Panels in search area:
53033C0645F - FEMA Q3 Flood data
53033C0640F - FEMA Q3 Flood data
53033C0955F - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
DES MOINES

NWI Electronic
Data Coverage
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
Location Relative to TP:	1/4 - 1/2 Mile South
Site Name:	SUNSET PARK - TUB LAKE SITE
Site EPA ID Number:	WAD980664817
Groundwater Flow Direction:	S
Inferred Depth to Water:	10 feet to 25 feet
Hydraulic Connection:	Information is not available about the hydraulic connection between aquifer(s) underlying the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

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.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

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: Stratified 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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

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. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 6.00 Min: 2.00	Max: 6.50 Min: 5.10
2	7 inches	35 inches	very gravelly - 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: 6.00 Min: 2.00	Max: 6.50 Min: 5.10
3	35 inches	39 inches	cemented	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
very gravelly - sandy loam

Surficial Soil Types: silt loam
very gravelly - sandy loam

Shallow Soil Types: very gravelly - loam

Deeper Soil Types: very gravelly - coarse sand
stratified
very gravelly - loamy sand
very gravelly - sand

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40001259787	1/8 - 1/4 Mile East
A2	USGS40001259797	1/8 - 1/4 Mile East
A3	USGS40001259814	1/8 - 1/4 Mile East
B7	USGS40001259463	1/2 - 1 Mile SE
B8	USGS40001259462	1/2 - 1 Mile SE
B9	USGS40001259461	1/2 - 1 Mile SE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

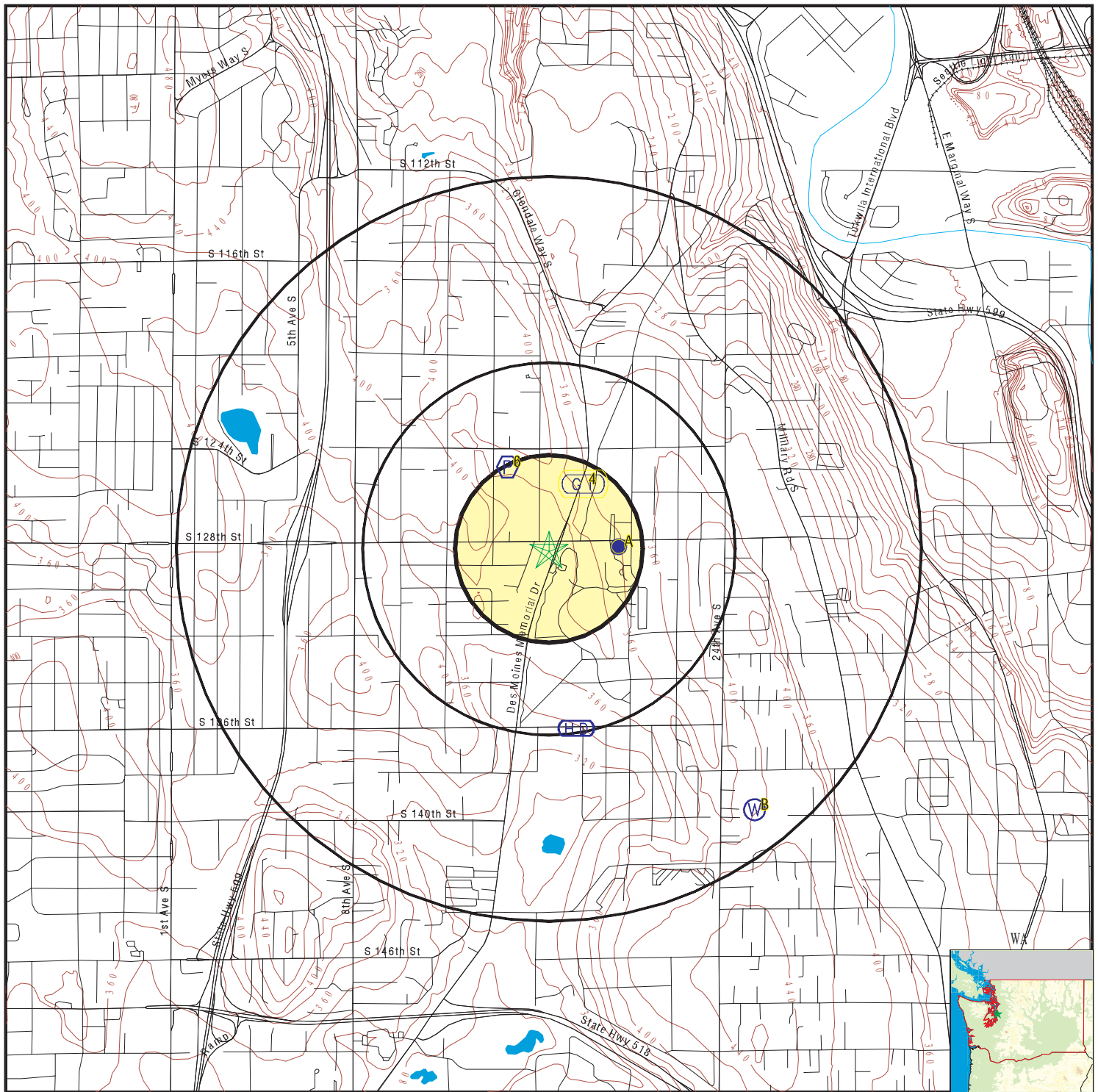
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
6	WA5301820	1/8 - 1/4 Mile NNW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A5	WA7000000012344	1/8 - 1/4 Mile East

PHYSICAL SETTING SOURCE MAP - 4021523.12s



- 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
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data

SITE NAME: 12807 Des Moines Way, South
 ADDRESS: 12807 Des Moines Way, South
 Seattle WA 98168
 LAT/LONG: 47.4883 / 122.3122

CLIENT: Property Solutions, Inc.
 CONTACT: Greg Hillebrand
 INQUIRY #: 4021523.12s
 DATE: July 30, 2014 11:54 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
East
1/8 - 1/4 Mile
Lower

FED USGS USGS40001259787

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472918122182601		
Monloc name:	23N/04E-16D01		
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:	47.4881547
Longitude:	-122.3084575	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:	365
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:	19850325	Welldepth:	300
Welldepth units:	ft	Wellholedepth:	300.5
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-04-07	79.92		1986-11-13	81	

A2
East
1/8 - 1/4 Mile
Lower

FED USGS USGS40001259797

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472919122182501		
Monloc name:	23N/04E-16D02		
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:	47.4884325
Longitude:	-122.3081797	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:	365
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported
Construction date: 19850325
Welldepth units: ft
Wellholedepth units: ft

Welldepth: 75
Wellholedepth: 75

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-04-07	61.0		1986-11-13	61	

A3
East
1/8 - 1/4 Mile
Lower

FED USGS USGS40001259814

Org. Identifier: USGS-WA
Formal name: USGS Washington Water Science Center
Monloc Identifier: USGS-472920122182501
Monloc name: 23N/04E-16D03
Monloc type: Well
Monloc desc: Not Reported
Huc code: 17110019
Drainagearea Units: Not Reported
Contrib drainagearea units: Not Reported
Longitude: -122.3081797
Horiz Acc measure: 1
Horiz Collection method: Interpolated from map
Horiz coord refsys: NAD83
Vert measure units: feet
Vert accmeasure units: feet
Vertcollection method: Interpolated from topographic map
Vert coord refsys: NGVD29
Aquifername: Not Reported
Formation type: Not Reported
Aquifer type: Not Reported
Construction date: 19850627
Welldepth units: ft
Wellholedepth units: ft

Drainagearea value: Not Reported
Contrib drainagearea: Not Reported
Latitude: 47.4887102
Sourcemap scale: 24000
Horiz Acc measure units: seconds
Vert measure val: 360
Vertacc measure val: 10
Countrycode: US
Welldepth: 297
Wellholedepth: 297

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1985-07-23	76	

4
NNE
1/8 - 1/4 Mile
Lower

Site ID: 1532
Groundwater Flow: Not Reported
Shallowest Water Table Depth: 18
Deepest Water Table Depth: 59
Average Water Table Depth: Not Reported
Date: 06/08/1991

AQUIFLOW 61165

A5
East
1/8 - 1/4 Mile
Lower

WA WELLS WA7000000012344

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	13006	Pwsid:	77050
Srcnum:	04	Pwssrcid:	7705004
Systemname:	SEATTLE PUBLIC UTILITIES		
Systemgrou:	A		
Systemtype:	Comm	Region:	NW
County:	KING	Smaid:	Not Reported
Ftrespoul:	654500	Resconnect:	169992
Totalconne:	183452	Srcname:	BOULEVARD
Srctype:	W	Srcusecode:	S
Srcwelldep:	293	Township:	23
Range:	04E	Section:	16
Qtrqtrsect:	NWNNW		
Longitude:	-122.307961		
Latitude:	47.488261		
Latlongmet:	GPS	Srctot1yr:	L
Srctot6mo:	540	Srctot10yr:	L
Srctot5yr:	1720	Doewelltag:	Not Reported
Protection:	Model	Prcontact:	770
Prconta 1:	Not Reported	Prcontact:	2066840221
Prconta 3:	SEATTLE	Prconta 2:	PO BOX 34018
Prconta 5:	981244018	Prconta 4:	WA
Prconta 6:	bill.wells@seattle.gov		
Pwseffecti:	01-JAN-70	Srceffecti:	01-JAN-70
Internalon:	N	Site id:	WA7000000012344

6
NNW
1/8 - 1/4 Mile
Higher

FRDS PWS WA5301820

PWS ID: WA5301820
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: ALPENTAL SKI AREA
SNOQUALMIE PASS, WA 98068

Addressee / Facility: Not Reported

Facility Latitude: 47 29 30 Facility Longitude: 122 18 48
City Served: Not Reported
Treatment Class: Treated Population: 1288

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name:	ALPENTAL SKI AREA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1997-01-01 - 2015-12-31		
Violation ID:	9700001		
Enforcement Date:	1998-04-17	Enf. Action:	Fed Violation/Reminder Notice
System Name:	ALPENTAL SKI AREA		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1998-09-01 - 1998-09-30		
Violation ID:	98000141		
Enforcement Date:	1998-09-30	Enf. Action:	State Violation/Reminder Notice

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	ALPENTAL SKI AREA		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1998-09-01 - 1998-09-30		
Violation ID:	98075121		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	ALPENTAL SKI AREA		
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:	ALPENTAL SKI AREA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1998-07-01 - 2015-12-31		
Violation ID:	99000001		
Enforcement Date:	1998-04-17	Enf. Action:	Fed Violation/Reminder Notice
System Name:	ALPENTAL SKI AREA		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1999-02-01 - 1999-02-28		
Violation ID:	9950215		
Enforcement Date:	1999-02-28	Enf. Action:	State Violation/Reminder Notice

**B7
SE
1/2 - 1 Mile
Higher**

FED USGS USGS40001259463

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472842122175801		
Monloc name:	23N/04E-16K01		
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:	47.4781548
Longitude:	-122.3006793	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:	390
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:	19850409	Welldepth:	109
Welldepth units:	ft	Wellholedepth:	109
Wellholedepth units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-04-07	94.8		1986-11-13	84	

B8
SE
1/2 - 1 Mile
Higher

FED USGS

USGS40001259462

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472842122175701		
Monloc name:	23N/04E-16K02		
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:	47.4781548
Longitude:	-122.3004015	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	390
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19850409	Welldepth:	320
Welldepth units:	ft	Wellholedepth:	729
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-04-07	119.57		1986-11-13	120	

B9
SE
1/2 - 1 Mile
Higher

FED USGS

USGS40001259461

Org. Identifier:	USGS-WA		
Formal name:	USGS Washington Water Science Center		
Monloc Identifier:	USGS-472842122175601		
Monloc name:	23N/04E-16K03		
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:	47.4781548
Longitude:	-122.3001238	Sourcemap scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	390
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19850409	Welldepth:	523
Welldepth units:	ft	Wellholedepth:	729
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	
1987-04-07	162.8		
1986-11-13	162		

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 \geq 2 pCi/L and \leq 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 98168

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.000 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

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.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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.

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 Services

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 Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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 K:

Professional Qualifications

Betsy McNamara, CHMM, C.P.

ENVIRONMENTAL SCIENTIST

EDUCATION

B.S. in Chemistry, Math and Physics
University of Illinois
Urbana, Illinois

M.S. Management
Aquinas College
Grand Rapids, Michigan

ACCREDITATIONS

Certified Hazardous Materials Manager, Masters Level, #11095
Certified Underground Storage Tank Professional, State of Michigan
40-Hour Hazwoper Training
8-Hour Supervisor Training
ASTM RBCA Training for Petroleum Release Sites
ASTM Vapor Intrusion Standard Training

SUMMARY OF QUALIFICATIONS

More than thirty-five years of experience in environmental site investigations, soil and groundwater remediation, LUST/UST closure, hazardous waste facility permitting and closure, regulatory compliance and project management. Conducted more than 2,000 Phase I Environmental Site Assessments using ASTM/AAI protocol for financial institutions, industrial and automotive facilities, real estate developers, property managers and insurance companies. Performed and managed UST closures and release investigations, assessment reports, corrective action plans, risk assessments and closure reports. Prepared U.S. EPA Brownfield Assessment Grants, Superfund Redevelopment Grant and Supplemental Greenspace funding applications for numerous Michigan and Indiana governmental units. Managed projects under the grants, which included site inventories, Phase I/II ESAs, Michigan BEAs, Due Care Plans, cleanup planning, Brownfield Plan development, community outreach and redevelopment planning. Assisted clients with risk management and reuse options for commercial/industrial sites, and affordable housing development. Supervised project teams on project activities, proposal development and financial management.

REPRESENTATIVE PROJECT EXPERIENCE

Former Glass Manufacturing Facility – Vincennes, Indiana

Conducted an AAI/ASTM compliant Phase I ESA on the former glass manufacturing and coal gas manufacturing plant that was abandoned in the late 1960s. The investigation identified two coal gas manufacturing plants that operated from the early 1900s to the late 1950s, cinder and ash landfilling on the northern portion of the site and fuel storage. Prepared a Phase II work scope to investigate RECs to evaluate the need for cleanup funding prior to construction of Indiana Military Museum that is planned for the parcel. This Brownfield redevelopment will be the endpoint of Vincennes' Riverwalk project that will link the museum with the Wm. Henry Harrison National Park, downtown Vincennes and Vincennes University.

Former Glass Manufacturing Facility – Gas City, Indiana

Conducted an AAI/ASTM compliant Phase I ESA on the former glass manufacturing and coal gas manufacturing plant that was abandoned in the late 1980s. The investigation identified cinder and ash landfilling on the southern portion of the site, fuel storage areas, and maintenance areas. The project was part of a divestiture of unused assets by the owner, and was planned for acquisition by a local non-profit organization to create an athletic complex. Exposure risks were identified, and recommendations to mitigate potential exposures were developed.

Former General Motors Manufacturing Facility – Anderson, Indiana

Conducted an AAI/ASTM compliant Phase I ESA on the former General Motors plant to assess the efficacy of remediation of a halogenated volatile organic compound plume that has migrated onto the adjacent property to the north and to identify other RECs not identified during previous investigations, including undiscovered USTs, solvent use areas, oil pits, and other areas where hazardous substances and petroleum products may have been used, stored, and possibly released.

Multi-Parcel Commercial Development – Springdale, Ohio

Conducted a Phase I ESA of a multi-parcel proposed development site that was historically a gasoline station and fruit orchard. Evaluated investigation and closure documents associated with the former gasoline station to evaluate the deed restriction for the parcel as part of the LUST closure. The site has since been redeveloped with a multi-tenant mall structure.

Staircase Manufacturing Facility – Pontiac, Michigan

Conducted a Phase I ESA of a staircase manufacturing facility that identified numerous historical owners that conducted manufacturing and vehicle maintenance on the site. The assessment identified potential USTs associated with the Site and on adjacent properties east and west of the Site. Previous Phase II investigations identified trace concentrations of fuel constituents. Recommendations included a ground-penetrating radar survey and limited soil and groundwater analyses.

Former Automotive Facility Closures-Michigan

Conducted Phase I Assessments and developed RCRA Part B Closure Plans for five automotive facilities in Michigan. Supervised investigation and remediation of the closure units to achieve unrestricted closure. Constituents of concern included heavy metals, PCBs, and solvents. Remediation activities included excavation, SVE, and landfill cover.

Former Automotive Parts and Rubber Extruding Facility, Wabash, Indiana

Conducted a Phase I ESA of a large manufacturing facility that had been utilized since the late 1800s as a foundry, automotive parts manufacturing a rubber extruding facility. Identified RECs included sitewide historical use of hazardous substances on the property, storage of oils and gasoline in ASTs, use of coal products in historical boiler operations, gasoline storage, hazardous waste accumulation, sumps, historical gasoline station operations and drain systems located throughout the former manufacturing buildings.

DONALD P. HESSEMER

TECHNICAL MANAGER

EDUCATION	Master of Environmental Health Science Polytechnic Institute of New York Brooklyn, New York
	Bachelor of Science (Resource Management) SUNY College of Environmental Science Syracuse, New York
ACCREDITATIONS	Certified Hazardous Materials Manager – Institute of Hazardous Materials Management OSHA 40-Hour HAZWOPER Training AHERA Certified Asbestos Inspector

SUMMARY OF QUALIFICATIONS

Mr. Hessemer is an Environmental Scientist and Technical Program Manager with more than 25 years of consulting experience in environmental due diligence, regulatory compliance, hazardous waste investigations and analytical laboratory analysis and management for public and private sector clients. He has conducted and managed site assessments for commercial and industrial properties, Phase II site investigations, remediation projects, asbestos and lead-based paint programs, and a contract laboratory program to support the EPA Superfund Program. Mr. Hessemer is well versed in ASTM due diligence standards, New Jersey Technical Requirements for Site Remediation, and the Superfund program. A Certified Hazardous Materials Manager (CHMM) and a skilled project manager, Mr. Hessemer makes sure that projects meet both the client's objectives and the project's schedule and budget. He has proven skill in coordinating large portfolio due diligence programs and teams and identifying environmental liabilities for prospective purchasers and lending institutions.

REPRESENTATIVE PROJECT EXPERIENCE

Commercial and Residential Phase I Environmental Assessments – US, UK, France, and Germany

Mr. Hessemer has performed or managed Phase I Environmental Assessments on thousands of commercial and residential properties using the latest ASTM standards. Commercial facilities include office buildings, shopping centers and malls, retail outlets, warehouses, apartment complexes, and television broadcasting studios and transmitter sites, and timberland.

Commercial and Industrial Phase II Environmental Site Assessments – Various States, US

Mr. Hessemer has prepared scopes of work for and managed numerous Phase II Site Assessments to evaluate environmental concerns identified in Phase I ESAs by providing information regarding the nature and extent of soil and groundwater contamination. Programs for soil, soil vapor, indoor air quality, groundwater sampling have been performed. Geophysical investigations have been designed to aid in soil boring placement.

Industrial Due Diligence Assessments – US, Brazil, and India

Performed or managed pre-acquisition due diligence assessments of industrial and manufacturing properties including cogeneration plants, healthcare product manufacturing facilities, a dairy plant, pulp and paper mills, compressed gas plants, electronics manufacturers, chemical plants, and printing facilities. The assessments generally included the identification of liabilities associated with site contamination, off-site contingent liabilities, and an evaluation of facility regulatory compliance with federal and state environmental regulations including permit status for water, stormwater, wastewater, air emissions, hazardous materials reporting, hazardous waste management, PCB-management, and oil storage.

Federal Regulatory Compliance Programs – US Postal Service – Metro New York City and Central New Jersey Districts

Mr. Hessemer managed two \$2.5 million contracts for environmental compliance services at owned or leased postal services within Manhattan and The Bronx, NY, and Central New Jersey. Served as the single point of contact with the District Environmental Compliance Coordinators and managed the overall program administration. Responsible for making management assignments, setting priorities, and ensuring administrative support for timely project performance. Projects included turnkey asbestos, lead based paint, and lead in drinking water surveys and O&M programs, noise level surveys, personal noise dosimetry testing to measure worker exposure, drinking water testing programs, and technical review of energy audit reports.

Environmental Liability Cost Assessments - International

Served on an ENSR international due diligence team assigned to evaluate the environmental liabilities of a European based company with chemical plants in the US. Responsible for assessing the liabilities of four specific plants in the US based on technical review of environmental health and safety records including permits, investigation and remediation reports, and other EHS documents, and a site inspection of the main US facility. The assessment resulted in the identification of liabilities and associated liability cost estimation and prioritization of recommended actions.

Environmental Liability Cost Assessments – Phoenix, Arizona

Served as senior scientist member of team effort to review a lending institution's loan portfolio for environmental liabilities as part of a potential acquisition. Reviewed various documents including Phase I and Phase II ESA reports and remedial action plans. Information reviewed was used to identify environmental liabilities and assign remedial cost estimates, ranked by likelihood.

Environmental Support of Emergency Bridge Reconstruction

Served as environmental lead in support of NYCDOT's emergency reconstruction of the Borden Avenue Bridge in Long Island City, NY. Prepared a Corrective Action Plan (CAP) in response to the discovery of petroleum-contaminated sediment in the adjacent Dutch Kills water body during construction. The CAP established procedures for handling and disposal of petroleum-contaminated sediment, and provided design detail of a temporary on-site water treatment system for dewatering fluid to support a SPDES-equivalent discharge permit. Prepared permit modification requests for 6 NYCRR Part 608 Water Quality Certification, NYCRR Part 661 Tidal Wetlands Permit, and ECL Article 15 Protection of Waters Permit.

Environmental Services Oversight – New York City Schools, NY

Provided oversight of field personnel engaged in various environmental activities for the NYCSCA including Phase I ESAs, Phase II Subsurface Investigations, Indoor Air Quality and Soil Vapor Investigations, and Remediation Programs. Responsible for scope of work and report review, interfacing with client representatives, and performing periodic school site visits. (06/09 – Present)

Environmental Permitting – New York, New York

Prepared NYSDEC Petroleum Bulk Storage (PBS) Applications for fuel oil storage tanks as part of an Emergency Generator Upgrade Program for six Health and Hospital Corporation (HHC) facilities in New York City. Managed subcontractor in the preparation of NYSDEC air permit modifications.

ISRA Investigations and Remediation – Various Locations – New Jersey

Performed and managed numerous Preliminary Assessments, Site Investigations, Remedial Investigations, and Remediation at industrial establishments throughout central and northern NJ. Properties included former paper mills, a miniature lighting facility, an electronic manufacturer, an ion-exchange regeneration plant, an asphalt blending and storage terminal, a polymer compound manufacturer, label printing and packaging facility. Site investigation activities have included geophysical surveys, soil gas surveys, soil boring sampling, groundwater monitoring well installation and sampling, potable water sampling, UST investigations, concrete chip sampling, and septic system sampling. Remedial measures included excavation and disposal of petroleum contaminated soil and disposal of abandoned drums.

CERCLA Superfund Investigations

Hazardous Waste Investigation and Management, Bound Brook, NJ. Project Manager of a focused feasibility study at an inactive pesticide formulation plant in Bound Brook, New Jersey. Project involved developing remedial alternatives for dioxin contamination of a building and soils, and included field sampling of contaminated materials and subcontracting a structural engineer to evaluate the structural integrity of the building. Assistant Project Manager of a CERCLA Remedial Investigation/Feasibility Study Work Plan for the site. The proposed scope of work included characterization of the nature and extent of on-site contamination and off-site migration of contaminants, determination of potential threats to public health and the environment, and the development and evaluation of remedial alternatives.

Hazardous Waste Investigation and Management, New Brunswick, NJ. Project Manager of a field testing project at New Brunswick, New Jersey, for the EPA revised Hazard Ranking System (HRS) Model for CERCLA hazardous waste sites. Project involved collecting sufficient environmental data to test the model. Tasks included field sampling of soils, private wells, surface water, and aquatic organisms; soil borings to obtain site-specific geologic information and preparation of technical reports.

CERCLA Site Investigations, NJ, NY, and PR. Program Manager of EPA Region 2 Field Investigation Team (FIT) site investigations. Responsibilities included overall coordination of program including managing a staff of 12 site managers, project assignments, review of work plans and technical reports, scheduling and budgeting, and interfacing with client (EPA).

Hazardous Waste Investigation and Management, Newark, NJ. Sample Management Officer of an area-wide dioxin contamination investigation based in Newark, New Jersey. Tasks included interfacing with the EPA Contract Laboratory Program (CLP) office, coordinating the quality assurance program, and packaging and shipping dioxin contaminated soil samples to analytical laboratories.

Hazardous Waste Investigation and Management, Toms River, NJ. Project Scientist during remedial investigation and feasibility study of an active pharmaceutical plant. Responsibilities included acting as Health and Safety Officer during the sampling of monitoring wells, Sample Management Officer during the collection of soil samples for dioxin analysis, and technical writing during report preparation.

Groundwater Investigation, Hazardous Waste Investigation and Management, Niagara Falls, NY. Health and Safety Officer during the installation and sampling of monitoring wells during an area-wide groundwater study. Responsibilities included the health and safety of on-site personnel including drilling crew and air monitoring.

Hazardous Waste Investigation and Management, Grand Island, NY. Technical Oversight Scientist during dioxin analysis of samples collected from a Niagara Falls, New York, facility involved in the manufacture of 2,4,5-TCP. Responsibilities included inspection and documentation of sample management and sample preparation procedures by Occidental personnel and their consulting laboratory.

Laboratory Management

EPA Contract Laboratory Program (CLP), Inorganic Analysis - Environmental Laboratory Analysis and Management, US-wide. Project Manager of CLP Inorganic Analysis Contract. Approximately 200 samples of water and soil samples per month from Superfund sites were analyzed for priority pollutant trace metals. Responsibilities included scheduling incoming samples, assigning work for staff chemists, bidding on samples for special analysis, contact with EPA and Sample Management headquarters and attending CLP conferences. Also served as Environmental Chemist for CLP contract.